CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
520-770-3500
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

James Doyle Sell Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

Robbers' Roost Area
SW Tombstone District

1. JABA Geologic Cross Sections, w/ CHS-1, 2, 3 etc.
2. Robbers' Roost - Summary Report - BHP, 30 Aug 1995 w/drill holes.
3. A Cultural Resources Inventory for Mineral Explorations Southwest of Tombstone, Arizona: Altylan Archaeology, Inc. June 23, 1995.
4. State Land Dept. for Plan of Operations. March 1, 1996.
5. Skyline Report VUK 003 - 21 Plant Ash Samples for Shea Clark Smith. March 21, 1990, 3p.
   Skyline Report Job WIE 101 - 53 Samples, 6p.
   MEG report on ash weights, JOB B 29500 IV (600 series)
   Map showing mesquite sample sites.
   MEG report on ash weights, RRCR-series, 77 sites
   Skyline report WIE 105 on 77 plant samples (RRCR site) 8p.
6. RR Biogeochemical Survey (Creosote), maps of: site locations, Ag, As, Au, Bi, Cu, Mo, Pb, Sb, Se, Te, Zn.
   RR-Sample Site Locations, Robbers' Roost w/maps of: Au, Ag, Cu, Mo, Pb, Zn, As, Sb,
   Table of WIE 073 (RR samples) w/UTM & assay values.
   Map of sample sites for RR samples.
7. BHP assays from CMS Lab, Inv. 23723, 10/11/91. SBA-, SL0, ST0, & SRI-series
   BHP RR-series (Skyline) WEI 040, July 23, 1993.
   BHP assays from Bondar Clegg RRDC-series, report No. 5270.
   BHP assays from Skyline WEI 073A, June 3, 1994, RR-Series
8. Chemex Labs Inc. report to KCC. 24 June 96. 18 samples SL-Series
   " " " " " " 27 June 96. 4 Samples
   + many others!

Range Tombstone RIP GPS locations & TRS Data

continued:

9. Zonge Tombstone RIP GPS Locations & TX3 Data.

Zonge Report: Logistics Report, Vector-Induced Polarization, Tombstone Project, for KCC. April 10, 1996.

10. Drill Hole Loop / Assays.

BHP 95-01, T.D. 1000'

Assay List WIE 111 for Drill Hole 95-01. (Skyline)

BHP 95-02, T.D. 1000' (Destroyed by mining, collar right -.

RR-1, TD 1350'

Assay List WIE 078 for RR-1

RR-2, T.D 1000'

Assay List WIE 079 for RR-2.

RR-3, T.D. 700'

Assay List WIE 081 for RR-3

RR DDH-01, T.D. 700'

assay List WIE 090 094 for DDH-01.

RR-5 (DDH-2), TD 539'

Assay List WIE 096 for DDH-2.

11. BHP Robbers Roost IP by Zonge Eng. Sections

12. Memo to D. Mackenzie, Excellen from Peter Mageau, INDEX-CASCABEL. Robbers Roost – Tombstone South Data Package. 30.

13. HJ Downey's Log of TS-1. 3 sheets.

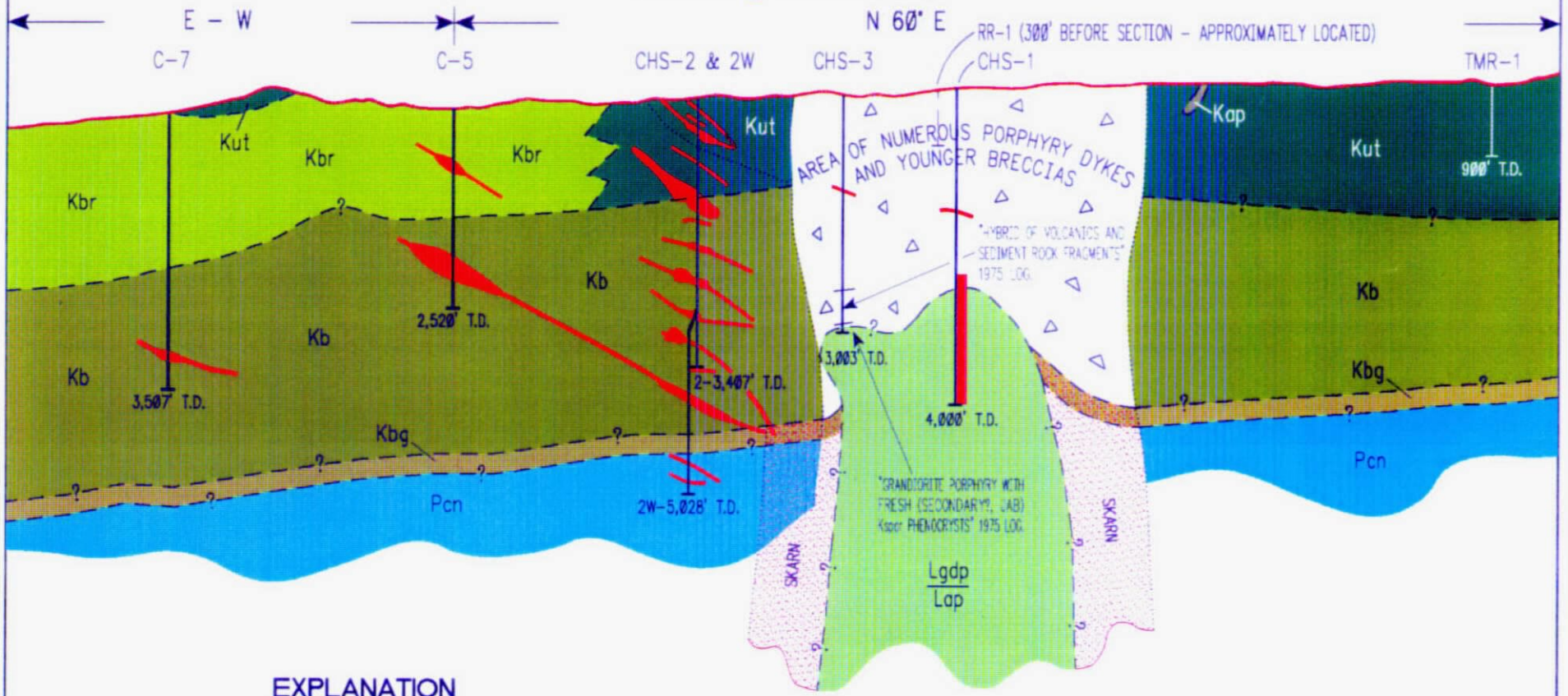
****
***** ACTIVITY MANAGEMENT REPORT TX *****
****

MODE		CONNECTION TEL	CONNECTION ID	START TIME	USAGE T	PAGES	RESULT
*TX	ECM	15202817019		11/01 16:57	00'43	1	OK
*TX	G3	7420991		11/01 16:58	00'46	1	OK
*TX	G3	5469534		11/03 21:08	00'40	1	OK
*TX	G3	5469534		11/03 21:34	00'45	1	OK
*TX	G3	5469534		11/03 21:35	00'37	1	OK
*TX	G3	5469534		11/03 23:39	02'27	4	OK
*TX	G3	5469534		11/04 12:06	01'53	3	OK
TX	G3	8884200		11/08 15:00	12'07	20	OK
TX	G3	8884200		11/08 15:45	01'10	2	OK
TX	G3	15202817019		11/08 15:47	01'12	2	OK
TX	G3	7420991		11/08 15:49	01'14	2	OK

****
***** ACTIVITY MANAGEMENT REPORT RX *****
****

MODE		CONNECTION TEL	CONNECTION ID	START TIME	USAGE T	PAGES	RESULT
*AUTO RX	G3	619 564 2154		10/31 21:33	00'23	0	NG 0
*AUTO RX	G3	619 564 2154		10/31 21:34	00'53	1	OK
*AUTO RX	G3	619 564 2154		10/31 21:35	00'58	1	OK
*AUTO RX	ECM	5202817019		11/01 15:01	00'52	1	OK
*AUTO RX	G3			11/05 18:34	00'44	0	NG 0 #005
*AUTO RX	G3			11/07 08:46	00'12	0	NG 0
AUTO RX	G3	6025758344		11/07 13:16	01'37	1	OK
AUTO RX	G3			11/09 16:12	00'17	0	NG 0
AUTO RX	G3	619 564 2154		11/09 16:14	01'06	1	OK

GEOLOGIC CROSS SECTION
(Looking Northwest)



EXPLANATION

- LARAMIDE HYDROTHERMAL BRECCIAS WITH DIKES OF Lap & Lgdp.
- Lgdp/Lap — LARAMIDE GRANODIORITE PORPHYRY & ANDESITE PORPHYRY (Lgdp).
- Kut — LARAMIDE UNCLE SAM TUFF.
- Kbr — LARAMIDE BRONCO VOLCANICS.
- Kb — CRETACEOUS BISBEE GROUP.
- Kbg — CRETACEOUS BISBEE GLANCE CONGLOMERATE.
- Pcn — PALEOZOIC NACO LIMESTONE.
- – – – GEOLOGIC CONTACT – APPROXIMATELY LOCATED.
- ..... GEOLOGIC CONTACT – INTERPRETED.

> 0.1% Cu ASSAY

2000 1000 0 2000

SCALE 1" = 2,000'

PREPARED FOR:
EXCELLON RESOURCES, INC.

PREPARED BY:
JABA

ROBBERS ROOST PROJECT
Tombstone Mining District, Cochise County, Arizona
From ASARCO 1975
ASARCO CHARLESTON PROJECT
Updated by James A. Briscoe October 20, 1994

Exploration
New Business Development
BHP Minerals

Note

30 August 1995

TO: RW Schafer

cc: DM Spatz, C Beasley, D. Kelley

FROM: JB Nelson

REGARDING: Project #3102: Robbers' Roost - Summary Report

ROBBERS' ROOST - SUMMARY REPORT

PROJECT LOCATION

The Robbers' Roost project area is located 4.5miles (7km) southwest of the city of Tombstone in Cochise county, Arizona, USA. The area lies within Sections 29-32, Township 20S, Range 22E. The project may be approximately located by Lat 31 37 37 Long 110 07 30 or UTM coordinates of 3502700N and 581000E. Access is available via the paved Charleston road, and a number of dirt roads provide good access to the entire area.

EXPLORATION HISTORY

Exploration by a number of companies has been done in this area. ASARCO was among the first companies to pursue the porphyry copper potential. The work done by ASARCO that is available to us included geologic mapping and drilling largely in section 30. Tombstone Mineral Resources drilled holes in sections 30, 31, and 32. Bearcreek reviewed the area in 1975 compiling a detailed geologic map and completing an IP survey over a portion of the system. Since that time the land has been investigated by JABA which has: trenched, drilled a number of shallow holes without geochemical analyses, and run a line of CSAMT. Harold Downey has drilled one hole on his ground south of the initial target area. The property came to our attention as a submittal from Jim Briscoe of JABA presented to David Spatz of BHP. An agreement between Excellon and BHP was signed on Nov. 29 1993. Excellon acted as the agent for the consolidation of land in the project area involving: JABA, ALANCO, and Tombstone South Minerals Limited (Harold Downey, et al.).

LAND POSITION

Our initial land position consisted of thirteen (13) state leases and four (4) claims on federal land - approximately 4 sq miles (10.5 sq km), see attachment. This area did not cover our initial target area which lay entirely on BLM land held by ALANCO. Excellon signed an agreement with ALANCO on July 15, 1994 which acquired 56 claims, bringing our land holdings to 5.5 sq miles (15.5 sq km).

GEOLOGIC SETTING

The target area is centered on an area of intense alteration in Uncle Sam porphyry. The Uncle Sam porphyry consists of Laramide age volcanics overlying Bisbee group sediments. The alteration zone consist of intense sericite, pyrite, clay, and alunite alteration. There are a number of breccia bodies within the area of alteration containing heavily altered clasts of Uncle Sam and Bisbee. Subvertical andesite dikes cut through the area with a NE orientation, the source for these dikes is likely the plug to the SW located north of the Charleston townsite. A number of resorbed quartz crystals and fluorite fragments have been found in the andesite - possibly reflecting incorporation of wall rock. The alteration, dikes, and breccia bodies appear to the structurally controlled by a north easterly structure. ASARCO's drilling indicates the presence of a granodioritic porphyry intrusive at depth below the alteration zone. The intrusive is characterized by porphyry copper style alteration and mineralization.

GEOPHYSICAL SURVEYS

Geophysics have been carried out by a number of companies. The data available to us includes: Bear Creek (IP), JABA (CSAMT), and our own (IP). A summary of other IP surveys done peripheral to the target area has been done by JABA. The summary of the surveys (see Diagram) indicates the presence of a north east trending conductive zone with a more conductive area along the south eastern edge. The conductive region corresponds to the structural trend. The highly conductive zone appears to dip to the north west, and is interpreted to be a fault/fissure zone. An intense IP anomaly correlates to the outcrops of intensely altered volcanics, and is likely an indication of the high clay content in the alteration.

GEOCHEMICAL SURVEYS

There were only weak silver and zinc geochemical anomalies in rock chips taken from the alteration zone. A summary of rock chip geochemistry done by JABA indicated Cu, Mo, Zn anomalies associated fractures/veinlets following the NE trend. A biogeochemical survey sampling creosote provided anomalies in areas of relatively thin cover. Anomalies in As, Au, Bi, and Cu suggest the possible presence of mineralization in the Bisbee, which is verified by drill hole BHP-95-02. There is also the suggestion of a northwesterly structure - possibly a fault within the survey area. See attached summary of biogeochemistry.

PREVIOUS DRILLING

Drill logs for the majority of holes in the project area are available for evaluation. In 1973 and 1974 TMR drilled two holes within the altered volcanics. The holes encountered sericite/pyrite alteration, copper assays were not anomalous. In 1974 and 1975 ASARCO drilled three 3000'+ drill holes. One hole encountered porphyry copper style alteration and mineralization in granodiorite at a depth of 1800'. Copper assays from 2450' - 4000' were 0.1% - 0.25%. The second hole was drilled to a depth of 5000' and encountered only local copper mineralization in the Bisbee sediments. The third hole also encountered significant alteration, but was not anomalous in copper. Harold Downey drilled a hole in Bisbee sediments to the south east and encountered ave. 35.5ppm Ag over 150', with associated Pb, Mn, Cu, Mo, and Zn. There are two other drill holes

without any information within the project area. See attached summary of previous and BHP drilling.

TARGET MODELS AND EVALUATION

The original target area lay northeast of ASARCO's CHS-1 drill hole which encountered porphyry copper style mineralization. A shallower portion of the mineralization was thought to lie in this area - associated with the numerous breccia pipes. The presence of a 'shallow' target and mineralization related to the breccia pipes was tested by drill holes RR-1 and RR-3. Both holes encountered breccia bodies and wall rock with significant sericite/pyrite alteration, but no copper values. The potential for mineralization in the Bisbee lateral the known intrusive was tested in RR-2. Altered Bisbee sediments were encountered to 1000'. The hole was to be reentered and cored to 2000'+, but poor hole conditions made this impossible.

Upon reevaluation of the data there was concern that the leached capping closer to ASARCO's holes had not been fully evaluated. The logs from ASARCO's holes only had spot assays so the upper portions of the holes lacked complete geochemistry. Two core holes were drilled (DH-1 and DH-2) to test for enrichment below the leached cap. DH-1 encountered anomalous copper values (100-400ppm) for its entire depth, but there was no enrichment at the oxidation contact. DH-2 was not anomalous in copper.

It appears that the area adjacent to CHS-1 and DH-1 is the shallowest portion of the copper mineralized system. This area is bounded in all directions by drilling. The geology and geophysics (resistivity) suggest the presence of a northeast trending structure - along which a normal faulting may have occurred. Normal faulting may have downdropped a block to the northwest which contains CHS-1 and DH-1. This would provide the potential for exposure of deeper portions of the system/mineralization to the south east. A biogeochemical survey was done to help select potential drill sites. The survey provided two anomalous areas which were drill tested. Drill hole 95-01 encountered only spotty alteration in the Bisbee and no anomalous geochemistry. Drill hole 95-02 drilled on the better of the two anomalies encountered alteration in the Bisbee for its entire depth. The hole is anomalous in Pb, Zn, Mo, Mn, As, Ag, Bi, and Au. The hole intersected a ten foot zone at 710' which ran 6% Pb, 115ppm Ag, 3.3ppm Bi, and 380ppm Mo.

CONCLUSIONS AND RECOMMENDATION

There is no question that the project area contains a porphyry copper system. The question is whether or not any portion of the mineralization is of significant grade and lies at a mineable depth. We feel at this point we have a number of options:

(1) **Drop The Project**: Notice must be given to Excellon 60 days prior to the anniversary of the contract (Nov. 29) to terminate the agreement without the annual payment of $35,000. There are no additional obligations we will be liable for if we wait until Sept 27th to offer notice. The land department should be notified ASAP to begin preparation of the letter.

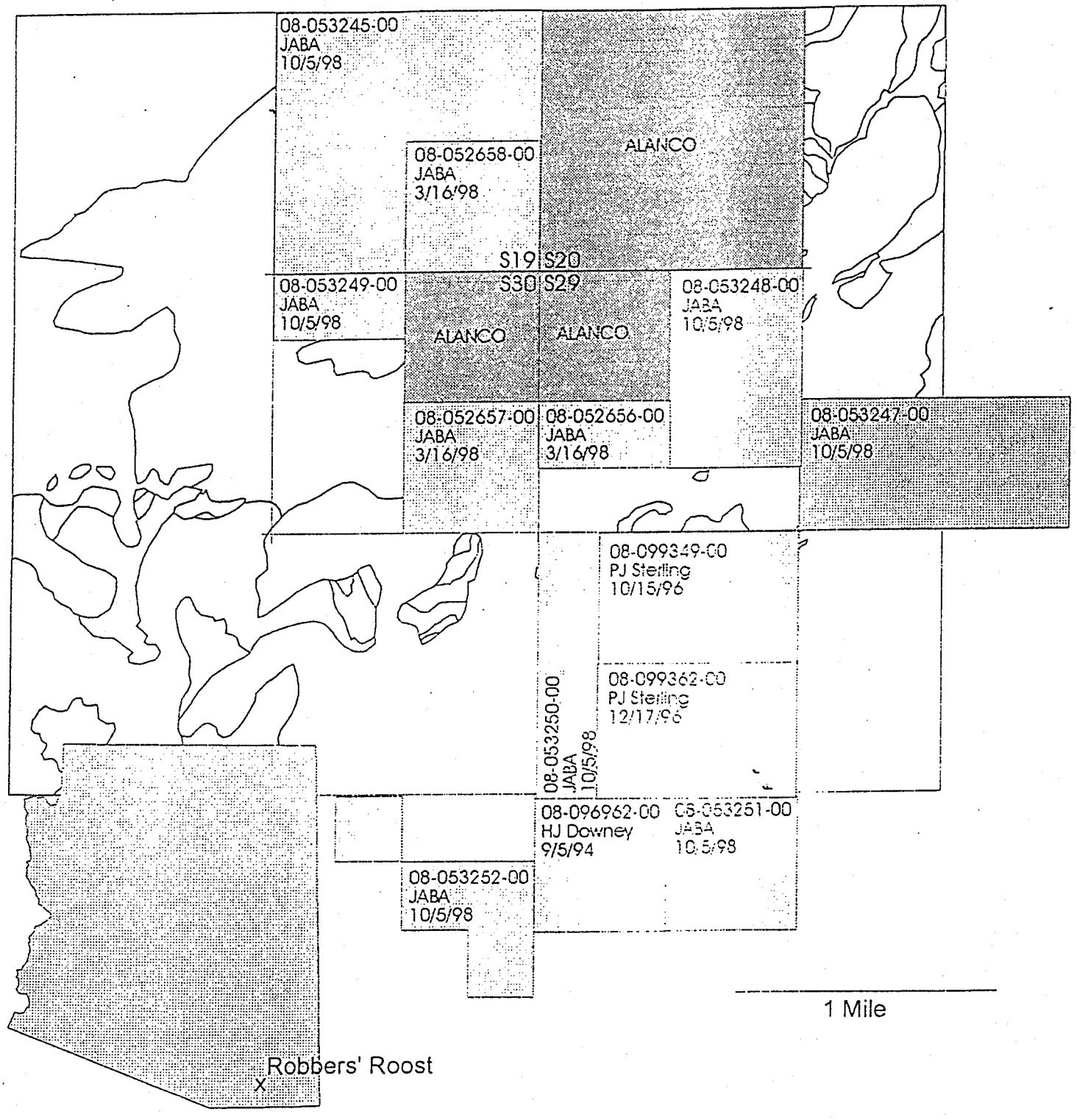
(2) **Do Regional Evaluation of system**: This would involve dropping the current project (1) and doing a more regional evaluation of the system. There are laramide intrusives which lie to the south west of the project area, which may be related to the observed mineralizing event. A regional study would involve metal ratio evaluation of prospects outward from the intrusives, and evaluation of the whole rock GC of the intrusives.

(3) Verify No Economic Potential: This would involve a drill hole within the conductive zone indicated on the geophysical summary. This hole would evaluate the conductive zone and the mineral potential within the Bisbee group lateral to the intrusive. A hole is already permitted which should adequately test this target. If this course of action is pursued, results could be realized before Sept. 27, to enable us to drop the property.

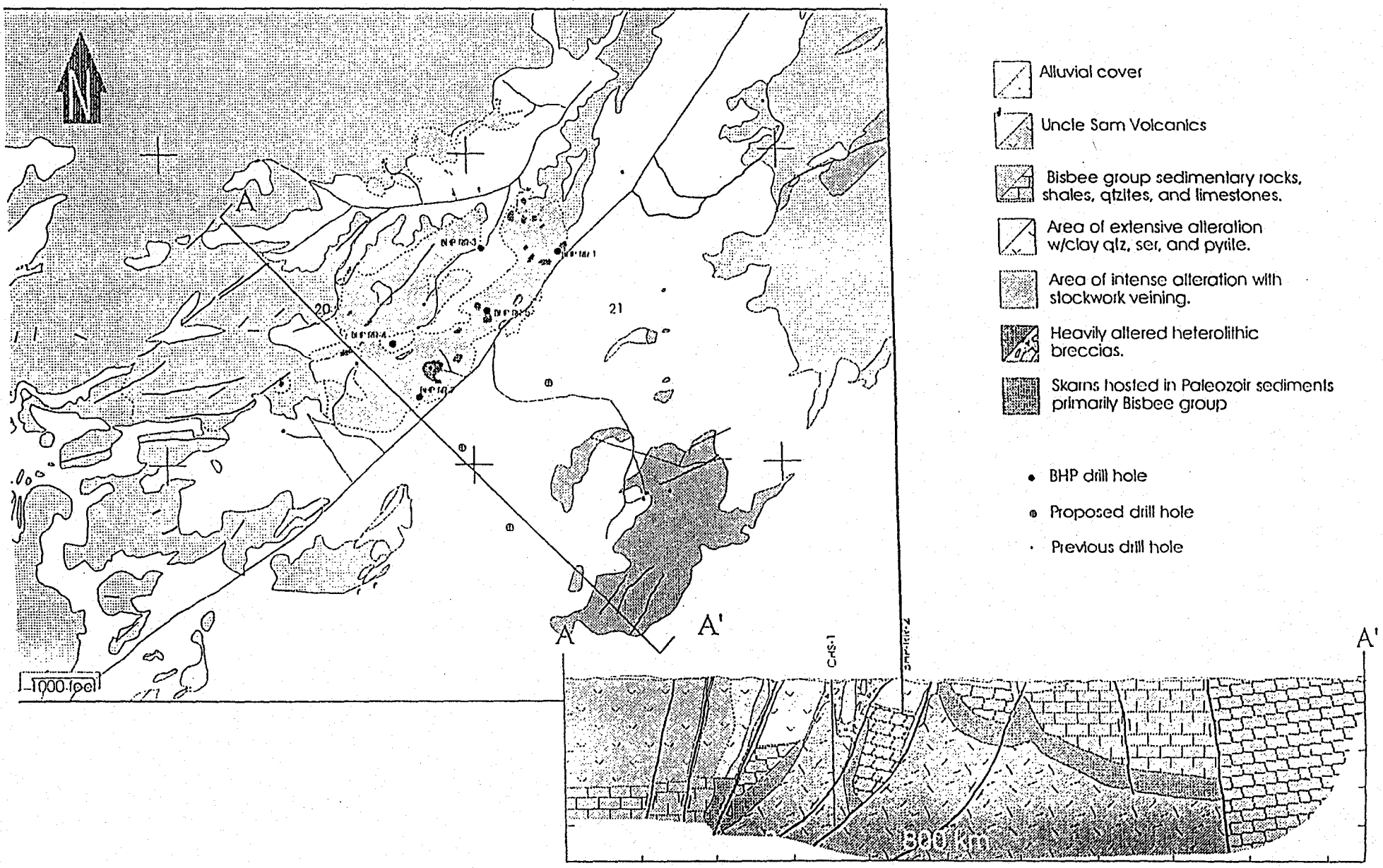
(4) Evaluate Base Metal Potential in Bisbee: Drill hole 95-02 encountered some interesting mineraliztion. It is not a BHP size target, but might be worth further evaluation by a junior, after the property is returned to Excellon.

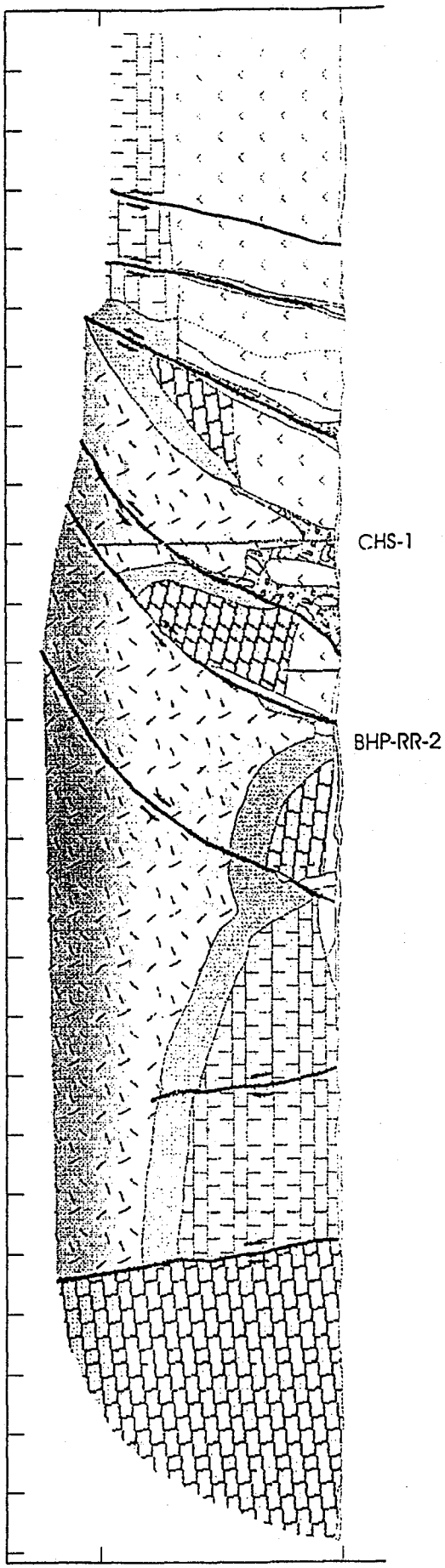
BHP LAND POSITION - ROBBERS' ROOST
(Listed by Underlying Land Holders)

Township 20 South, Range 22 East, Cochise County, AZ USA

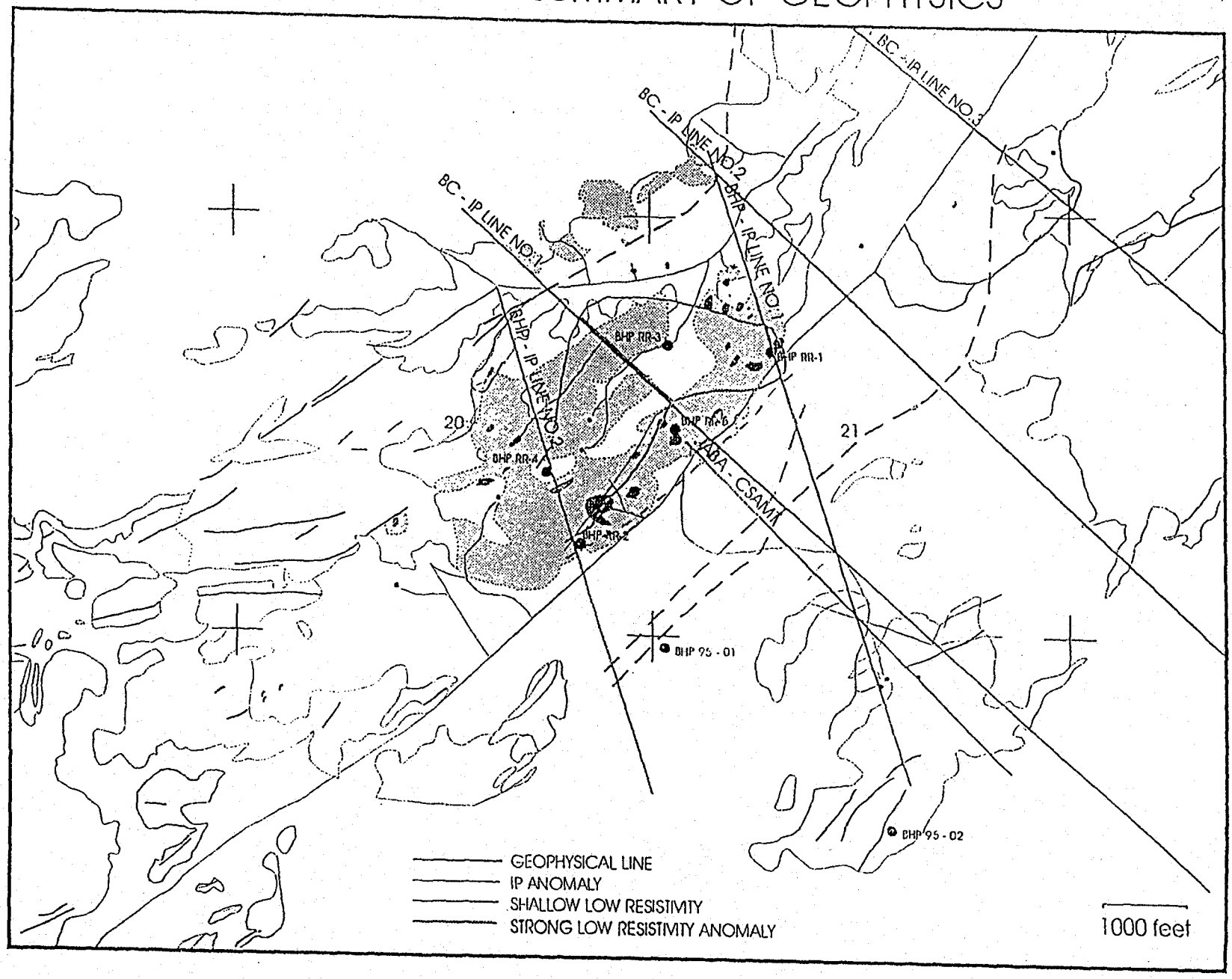


Robbers' Roost Geology Summary



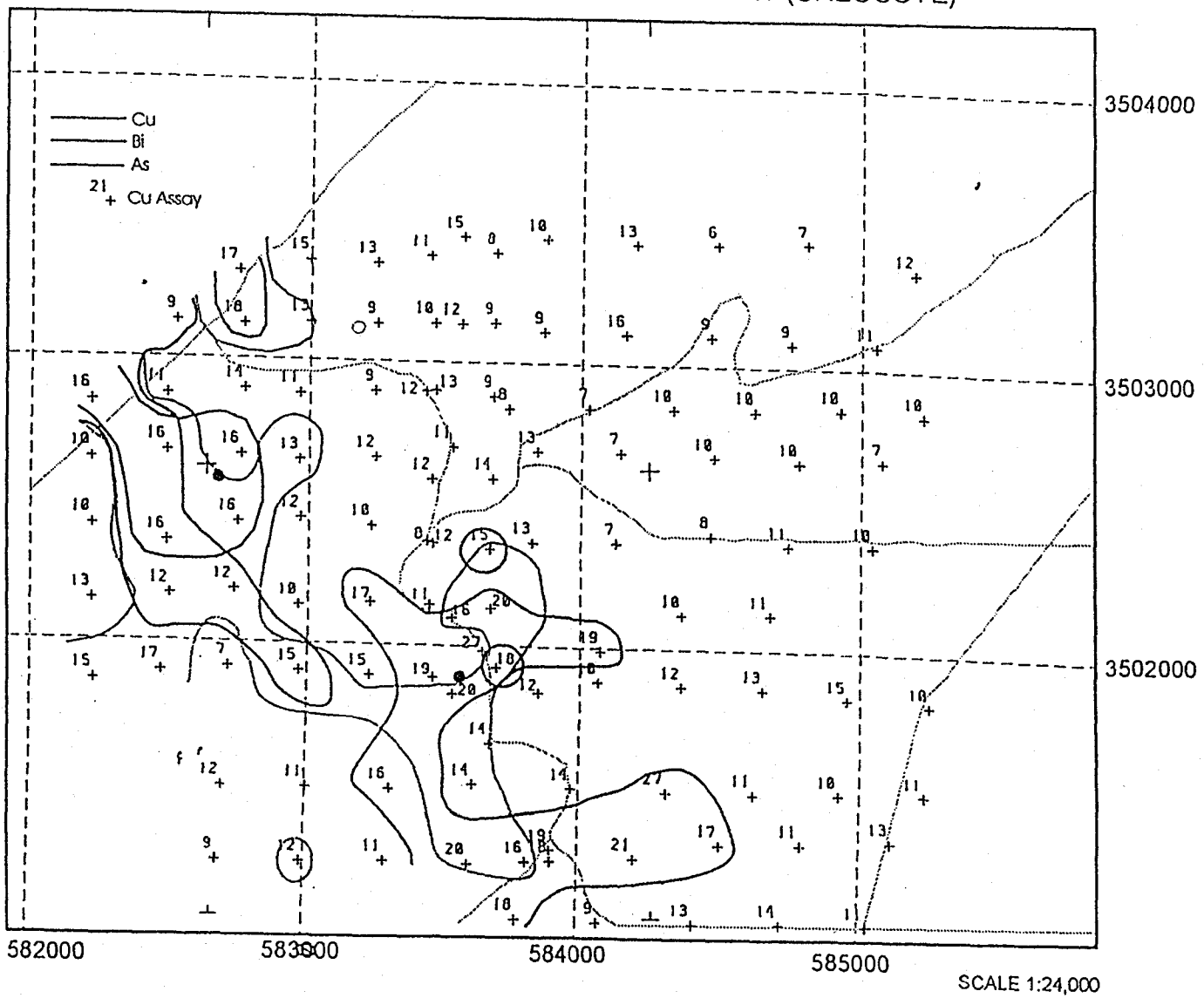

CHS-1
BHP-RR-2

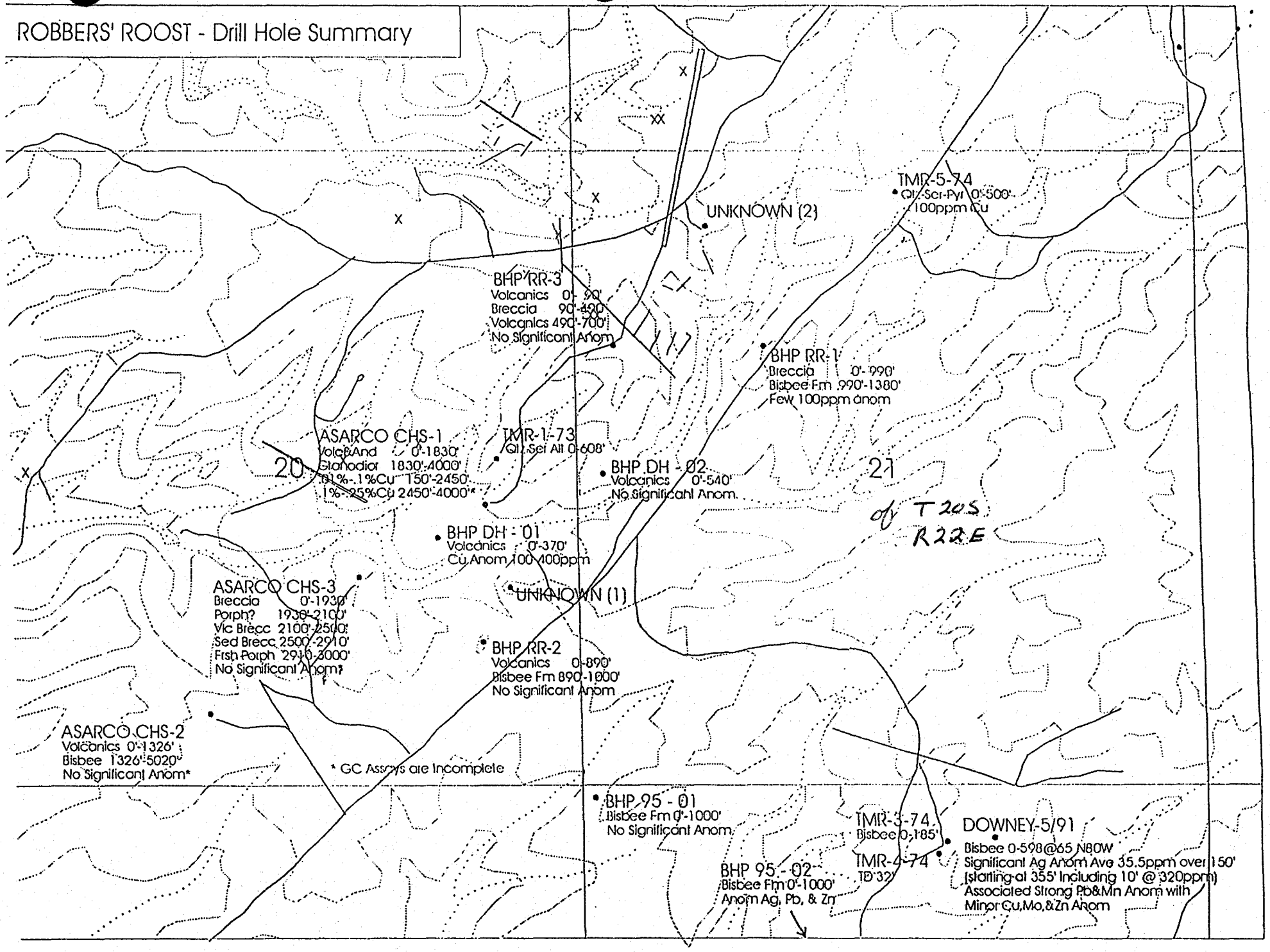
ROBBERS' ROOST - SUMMARY OF GEOPHYSICS

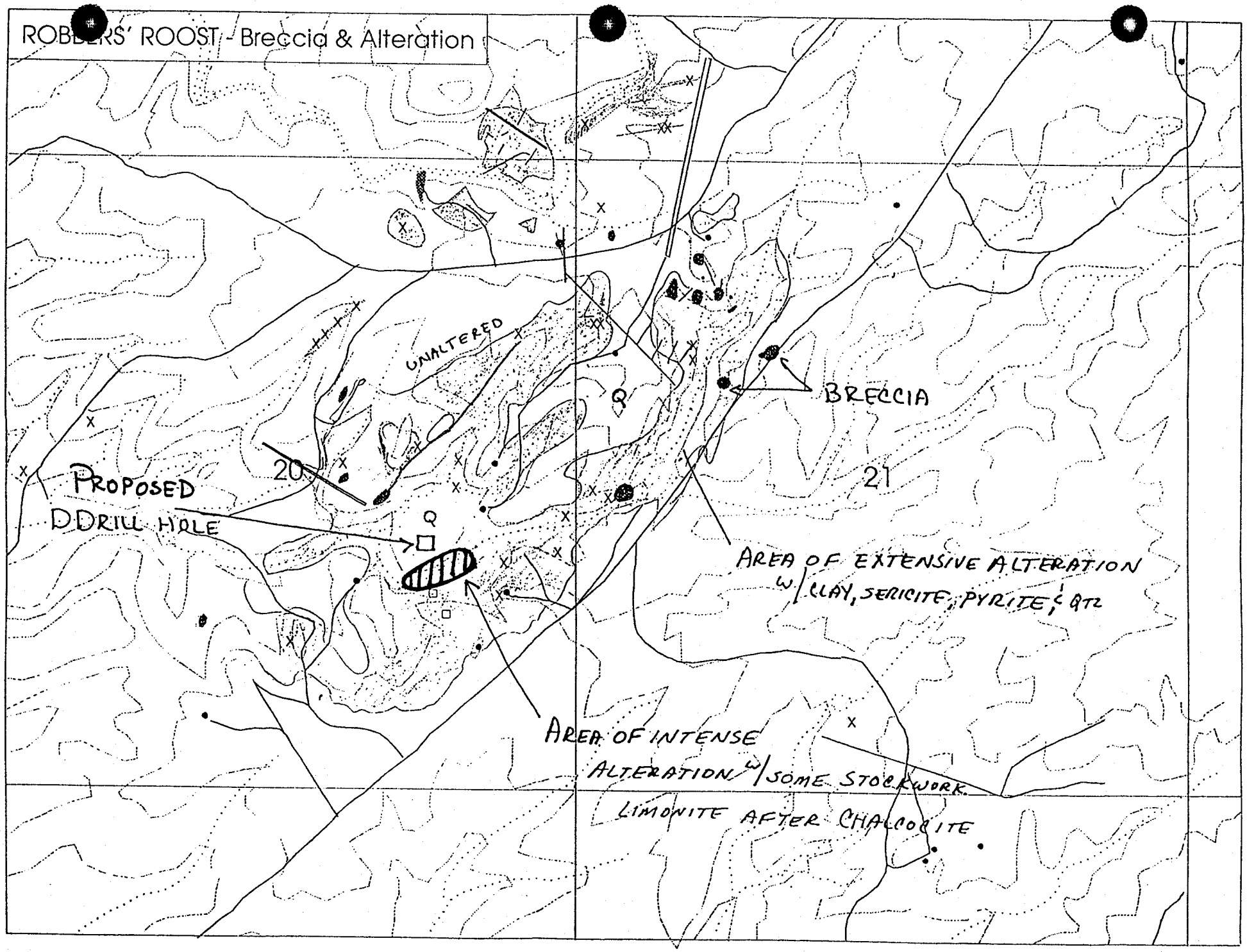


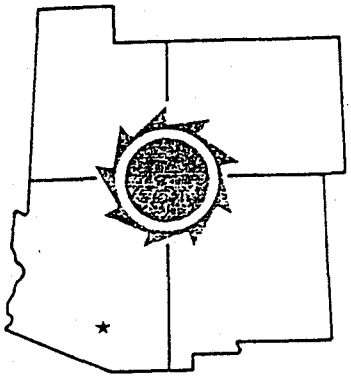
SUMMARY OF Cu, Bi, AND As

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)




ROBBERS' ROOST - Drill Hole Summary
TMR-5-74
Qtz-Ser-Pyr 0'-500'
100ppm Cu
UNKNOWN (2)
BHP RR-3
Volcanics 0'-90'
Breccia 90'-490'
Volcanics 490'-700'
No Significant Anom
BHP RR-1
Breccia 0'-990'
Bisbee Fm 990'-1380'
Few 100ppm anom
ASARCO CHS-1
Volc&And 0'-1830'
Glanodior 1830'-4000'
.01%-.1%Cu 150'-2450'
1%-25%Cu 2450'-4000'
TMR-1-73
Qtz-Ser Alt 0-608'
BHP DH - 02
Volcanics 0'-540'
No Significant Anom.
20
21
of T20S
R22E
BHP DH - 01
Volcanics 0'-370'
Cu Anom 100-400ppm
ASARCO CHS-3
Breccia 0'-1930'
Porph? 1930'-2100'
Vic Brecc 2100'-2500'
Sed Brecc 2500'-2910'
Frsh Porph 2910'-3000'
No Significant Anom?
UNKNOWN (1)
BHP RR-2
Volcanics 0-890'
Bisbee Fm 890'-1000'
No Significant Anom
ASARCO CHS-2
Volcanics 0'-1326'
Bisbee 1326'-5020'
No Significant Anom*
* GC Assays are Incomplete
BHP 95 - 01
Bisbee Fm 0'-1000'
No Significant Anom
TMR-3-74
Bisbee 0-185'
TMR-4-74
TD 32'
DOWNEY-5/91
Bisbee 0-598@65 N80W
Significant Ag Anom Ave 35.5ppm over 150'
(starting at 355' including 10' @ 320ppm)
Associated Strong Pb&Mn Anom with
Minor Cu,Mo,&Zn Anom
BHP 95 - 02
Bisbee Fm 0'-1000'
Anom Ag, Pb, & Zn


ROBBERS' ROOST - Breccia & Alteration
UNALTERED
BRECCIA
20
21
PROPOSED
DDRILL HOLE
AREA OF EXTENSIVE ALTERATION
w/ CLAY, SERICITE, PYRITE, & QTZ
AREA OF INTENSE
ALTERATION w/ SOME STOCKWORK
LIMONITE AFTER CHALCOCITE



AZTLAN ARCHAEOLOGY, INC.

ENVIRONMENTAL CONSULTANTS

P.O. Box 44068 Tucson, Arizona 85733-4068
(520) 620-1480 FAX (520) 620-1432

A CULTURAL RESOURCES INVENTORY FOR MINERAL EXPLORATIONS SOUTHWEST OF TOMBSTONE, ARIZONA

State Land Application Nos. 08-053250 and 08-099349

Prepared by:

Laurie V. Slawson, Ph.D.
Principal Investigator

Submitted to:

James B. Nelson, Geologist
BHP Minerals International, Inc.
4541 East Fort Lowell Road, Suite 221
Tucson, Arizona 85712

June 23, 1995

ABSTRACT

AGENCY:
Arizona State Land Department

PROJECT TITLE:
Mineral Explorations Southwest of Tombstone, Arizona

PROJECT DESCRIPTION:
Cultural resources inventory of 2,400-foot-long, 10-foot-wide access road and two drill pads, each about 80 feet by 80 feet.

LOCATION:
North 1/2 of Section 32 in Township 20 South, Range 22 East (G&SR B&M), U.S.G.S. Tombstone, Arizona and Fairbank, Arizona 7.5 Minute quadrangle maps.

NUMBER OF ACRES SURVEYED:
0.84 acres

NUMBER OF SITES:
None

NUMBER OF NATIONAL REGISTER-ELIGIBLE SITES:
None

NUMBER OF NATIONAL REGISTER-INELIGIBLE SITES:
None

COMMENTS:
Archaeological clearance is recommended for the project area.

A CULTURAL RESOURCES INVENTORY FOR MINERAL EXPLORATIONS SOUTHWEST OF TOMBSTONE, ARIZONA

A cultural resources inventory of a 2,400-foot-long, 10-foot-wide access road and two drill pads in Cochise County southwest of Tombstone, Arizona, was conducted by Aztlan Archaeology, Inc., for BHP Minerals International, Inc. The access road and drill pads had been bladed prior to their being surveyed for cultural resources. Tasks completed as part of this project comprised a Class I archaeological overview (i.e., records check and literature search) and a Class III archaeological survey (100% coverage). The field survey of the project area was completed under Arizona Antiquities Permit No. 95-25.

Project Area Location

The project area consists of a 2,400-foot-long, 10-foot-wide access road and two drill pads, each about 80 feet by 80 feet in size. The road and drill pads, which when combined total approximately 0.84 acres in area, are located on state land in Cochise County, 5 miles southwest of the town of Tombstone (State Land Application Nos. 08-053250 and 08-099349).

The access road is located in the NW¼ and NE¼ of the NW¼ and the NW¼ of the NE¼ of Section 32, Township 20 South, Range 22 East, on the U.S.G.S. Fairbank, Arizona 7.5 Minute quadrangle map (1952) and the U.S.G.S. Tombstone, Arizona 7.5 Minute quadrangle map (1952, photorevised 1978). The northernmost drill pad is located at the west end of the access road in the NW¼ of the NW¼ of Section 32 (T20S, R22E) on the Fairbank map, whereas the southernmost drill pad is located adjacent to an existing dirt road in the SW¼ of the NE¼ of Section 32 (T20S, R22E) on the Tombstone map. The locations of the access road and drill pads can be seen in Figure 1.

Environmental Setting

The project area is situated within the Basin and Range physiographic province on a system of ridges about 3 miles northeast of the San Pedro River. Both drill pads are located on ridge tops. Vegetation is characteristic of a Chihuahuan Desertscrub Community of the Desertscrub Formation (Brown and Lowe 1980). Major plants noted in the area include whitethorn acacia (*Acacia constricta*), creosotebush (*Larrea tridentata*), soaproot yucca or palmilla (*Yucca elata*), and desert zinnia (*Zinnia* sp.); various grasses also are present. Ground visibility was unrestricted both within the bladed project area and in the adjoining undisturbed areas. No wildlife was observed during the survey.

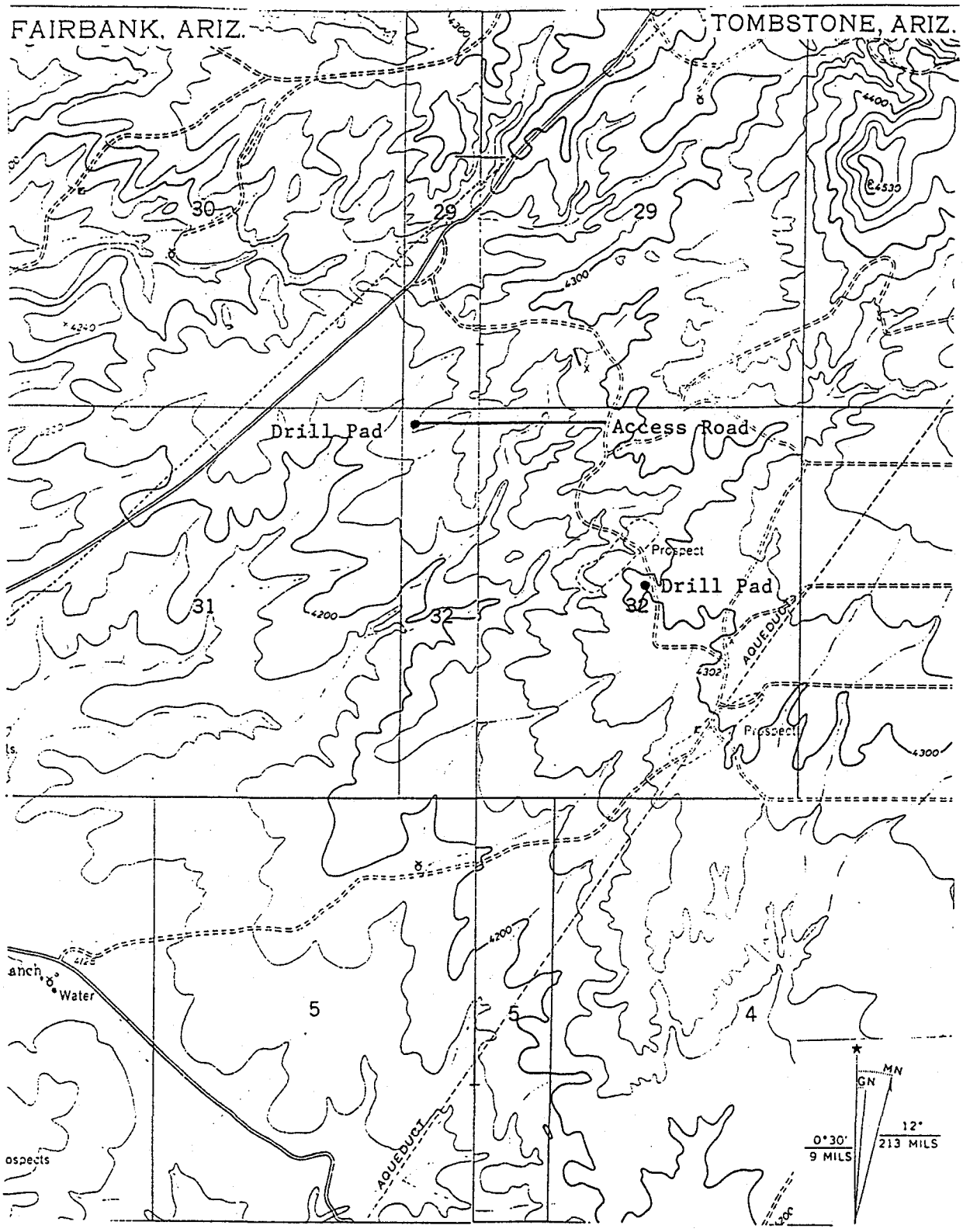


Figure 1. Location of the access road and drill pads (U.S.G.S. Fairbank and Tombstone, Arizona, 7.5 Minute quadrangle maps, T20S, R22E; scale = 1:24,000).

Methodology

Tasks completed during the cultural resources inventory involved archival investigations (Class I overview) and a pedestrian survey of the project area (Class III survey).

Class I Overview

Prior to conducting fieldwork, the site and survey records at the Arizona State Museum (ASM) were reviewed for pertinent information. The survey files indicate that the project area has not been surveyed and only one survey (No. 1985-95) has been conducted within a 1-mile-radius. The prior survey, which was conducted in 1985 by the ASM for Cochise County, consisted of two segments along the Tombstone-Charleston road. A total of 3.5 miles was surveyed; no sites and 25 isolated occurrences were recorded.

The site files at the ASM indicate that no sites have been recorded within a 1-mile-radius of the project area. The closest sites are more than 1.5 miles west of the surveyed area.

Class III Survey

The field survey was conducted on June 22, 1995 by Laurie V. Slawson (Principal Investigator). Less than one-half person-day was necessary to complete the fieldwork during which a single transect was walked along the centerline of the bladed access road and parallel 10-meter-wide transects were walked across the drill pads to ensure 100 percent coverage of the three areas. The project area was examined in its entirety. Because the access road and drill pads already had been bladed, undisturbed adjoining areas were checked for possible cultural resources. No problems occurred during the survey and ground visibility was sufficient to allow adequate observation of the present ground surface.

Results

No cultural resources (i.e., sites or isolated occurrences) were located during the survey of the access road and drill pads.

Recommendations

Although the access road and drill pads were bladed prior to the archaeological survey, and drilling had started at the southernmost drill pad, it does not appear than any cultural

resources were damaged, displaced, or destroyed by these activities. Archaeological clearance is recommended for the project area in its entirety.

Laurie V. Slawson, Ph.D.
Principal Investigator

REFERENCE CITED

Brown, David E., and Charles H. Lowe
1980 *Biotic Communities of the Southwest.* General Technical Report RM-78. Rocky Mountain Forest and Range Experiment Station, Forest Service, U.S. Department of Agriculture. U.S. Government Printing Office, Washington, D.C.

Arizona
State Land Department
1616 WEST ADAMS
PHOENIX, ARIZONA 85007

FIFE SYMINGTON
GOVERNOR

M.J. HASSELL
STATE LAND COMMISSIONER

March 1, 1996

Mr. Joey Wilkins
Kennecott Exploration Co.
1802 West Grant Road, No. 119
Tucson, Arizona 85745

Re: Plan of Operation for
T20S-R22E Sections 19, 27-30, 32
T21S-R22E Sections 4 and 5

Dear Mr. Wilkins:

This letter will serve as approval for Kennecott's proposed work on State land covered by permits currently held by Phillip Sterling, H. J. Downing and BHP Minerals, included in your proposed gravity and I.P. Surveys. Once the Department receives your plan of operation, you will receive a copy of the approved plan.

The Department is in receipt of the remaining twelve pending exploration permit applications discussed in your faxed plan of operation. Administration Rule R12-5-107 states that an application for State Trust land confers no right of occupancy until a permit is issued or permission is granted in writing by the Commissioner. This letter will serve as permission to complete your survey as described in the rule. This permission is contingent upon Kennecott contacting the grazing lessees and informing them of their work plans. Enclosed is information on the grazing lessees.

In the future please coordinate your scheduled field work with the finalization of your permits.

Sincerely,

Mr. Robert Yount, Director
Natural Resources Division

RY:mlt

Enclosures

01-mar-1996 LEASE INQUIRY S203Q

Last Maint: 23-nov-1993

KeLease: 005-001501-01 Effdate: 19-feb-1986 Expdate: 18-feb-1996
Rolodex#: 8015
Name: FRED RAI CO , ,
Address: P O BOX 963 Phone: (520) [redacted]
457-3419
TOMBSTONE ,AZ 85638
Contact#: Phone: ( ) -
Name: , ,
Comment:

Bill Purpose: Purp Codes:
B.P. Desc:

Sublease: Y
C.O. Date: C.O. Type: Filing: N
C.O. Desc: Improvement: Y
Bond: N
Total Acres: 10551.920 Land Treatment: N
Total Aus: 81.600 Amend#: 2

Benef-Grants: Mineral Claims:

Lse/Land#(F4) Lse Hist(F5) Rev Hist(F6) Cancel Lse(F7))

01-mar-1996 LEASE INQUIRY S203QS

Last Maint: 05-jun-1995

KeLease: 005-000703-00 Effdate: 01-apr-1995 Expdate: 31-mar-2005
Rolodex#: 7616
Name: TRUST #4245 , ,
Address: %FIRST AMERICAN TITLE INS CO Phone: (520) 577-8707
1880 E RIVER RD
TUCSON ,AZ 85718
Contact#: 9788 Phone: (520) 529-5050
Name: ECHAVE ,BRIGITTE ,
Comment:

577-8707

Bill Purpose: Purp Codes:
B.P. Desc:

C.O. Date: C.O. Type: Sublease: Y
C.O. Desc: Filing: N
Improvement: N
Bond: N
Total Acres: 7071.170 Land Treatment: N
Total Aus: 54.700 Amend#: 2

Benef-Grants: Mineral Claims:

Lse/Land#(F4) Lse Hist(F5) Rev Hist(F6) Cancel Lse(F7))

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

REPORT OF ANALYSIS

JOB NO. VUK-003
March 21, 1990
PAGE 1 OF 3

MINERALS EXPLORATION GEOCHEMISTRY
Attn: Shea Clark Smith
2235 Lakeshore Drive
Carson City, NV 89704

Analysis of 21 Plant Ash Samples

ITEM	SAMPLE NUMBER	Au (ppb)	Ag (ppb)	As (ppb)	Sb (ppb)	Cu (ppm)
1	V21030889A	4.0	11.0	780.	160.	7.9
2	V21030889B	4.2	11.0	810.	170.	8.0
3	V21030889C	5.2	11.0	835.	165.	8.0
4	V21030889D	6.4	11.0	810.	155.	7.7
5	V21030889E	4.0	10.0	825.	160.	7.2
6	V21030889F	5.4	10.0	825.	160.	7.3
7	V21030889G	4.8	11.0	735.	145.	7.7
8	V22100689A	<.2	6.8	290.	44.	9.1
9	V22100689B	<.2	6.8	295.	48.	9.2
10	V22100689C	.3	8.8	325.	45.	8.6
11	V22100689D	.5	8.7	295.	49.	10.0
12	V22100689E	<.2	8.5	290.	45.	9.4
13	V22100689F	.2	6.6	300.	46.	7.6
14	V22100689G	1.1	12.0	275.	43.	6.7
15	V19012388A	<.2	8.1	170.	57.	6.4
16	V19012388B	<.2	9.2	155.	47.	7.0
17	V19012388C	<.2	7.9	160.	60.	6.1
18	V19012388D	<.2	8.7	160.	46.	6.1
19	V19012388E	<.2	7.2	140.	38.	5.4
20	V19012388F	<.2	8.8	160.	46.	4.4
21	V19012388G	2.0	9.7	190.	170.	8.6

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. VUK 003
March 21, 1990

ITEM	SAMPLE NUMBER	Pb (ppm)	Zn (ppm)	Mo (ppm)	Te (ppb)
1	V21030889A	1.0	11.0	.9	<2.
2	V21030889B	1.1	11.0	.9	<2.
3	V21030889C	1.0	12.0	.9	<2.
4	V21030889D	1.0	11.0	.9	<2.
5	V21030889E	1.0	11.0	.8	<2.
6	V21030889F	1.0	12.0	.9	<2.
7	V21030889G	.9	12.0	.8	<2.
8	V22100689A	.3	27.0	.9	<2.
9	V22100689B	.8	28.0	1.0	<2.
10	V22100689C	.5	27.0	.9	<2.
11	V22100689D	.6	24.0	1.0	<2.
12	V22100689E	.6	23.0	.8	<2.
13	V22100689F	.5	19.0	.7	<2.
14	V22100689G	.4	18.0	.6	<2.
15	V19012388A	.6	9.0	.7	<2.
16	V19012388B	.6	9.1	.8	<2.
17	V19012388C	.6	8.9	.8	<2.
18	V19012388D	.6	9.0	.7	<2.
19	V19012388E	.5	8.1	.6	<2.
20	V19012388F	.6	6.8	.5	<2.
21	V19012388G	.4	11.7	1.0	<2.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703
(602) 622-4836

JOB NO. VUK 003
March 21, 1990

ITEM	SAMPLE NUMBER	Bi (ppb)	Se (ppb)	Tl (ppb)	Cd (ppb)
1	V21030889A	8.8	11.0	<5.	135.
2	V21030889B	11.0	20.0	<5.	145.
3	V21030889C	13.0	18.0	<5.	140.
4	V21030889D	12.0	22.0	<5.	145.
5	V21030889E	10.0	21.0	<5.	155.
6	V21030889F	9.3	27.0	<5.	145.
7	V21030889G	12.0	19.0	<5.	135.
8	V22100689A	1.0	11.0	<5.	195.
9	V22100689B	1.0	5.9	<5.	215.
10	V22100689C	<1.0	65.0	<5.	255.
11	V22100689D	1.0	19.0	<5.	260.
12	V22100689E	<1.0	13.0	<5.	265.
13	V22100689F	<1.0	7.2	<5.	255.
14	V22100689G	1.7	15.0	<5.	265.
15	V19012388A	8.0	18.0	<5.	295.
16	V19012388B	8.3	29.0	<5.	280.
17	V19012388C	10.0	25.0	<5.	275.
18	V19012388D	9.2	18.0	<5.	285.
19	V19012388E	7.1	15.0	<5.	275.
20	V19012388F	10.0	28.0	<5.	310.
21	V19012388G	7.7	8.5	<5.	275.

NOTE: I tried a slightly different technique on these to see if I liked it. Don't like it as well as what was done on the previous samples.

C.E. Thompson

William L. Lehmbeck
Manager

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE101
March 23, 1995
G003338-G003383

BHP MINERALS
Attn: Mr. Jim Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 53 Samples

ITEM	SAMPLE NO.	Au (ppb)	Ag (ppb)	As (ppb)	Sb (ppb)	Cu (ppm)	Mo (ppm)	Zn (ppm)
1	V22100689	1.7	15.	245.	38.	10.0	.8	26.0
2	G003338	.5	17.	146.	30.	13.0	.1	15.0
3	G003339	.4	24.	270.	44.	9.5	.5	9.5
4	G003340	.2	23.	250.	38.	11.0	.3	9.8
5	G003341	.6	12.	95.	270.	7.5	.2	6.3
6	G003342	.8	27.	205.	80.	9.2	.3	7.5
7	G003343	.5	29.	315.	65.	9.0	.6	9.3
8	G003344	.3	17.	255.	85.	8.7	.3	7.2
9	G003345	.3	11.	320.	30.	13.0	.4	7.8
10	G003346	< .2	17.	350.	55.	9.2	.5	12.0
11	G003347	1.0	17.	265.	80.	12.0	.5	6.3
12	G003348	.3	11.	155.	24.	11.0	.2	21.0
13	G003349	.5	19.	600.	60.	14.0	.6	11.0
14	G003350	.6	19.	395.	36.	12.0	.6	8.3
15	G003351	1.0	20.	425.	55.	14.0	.8	8.5
16	G003352	.9	17.	580.	46.	15.0	.6	12.0
17	G003353	3.5	40.	740.	80.	20.0	.7	11.0
18	G003354	.9	22.	525.	105.	18.0	.4	12.0
19	G003355	1.9	19.	485.	46.	19.0	.6	17.0
20	V22100689	1.8	11.	260.	38.	11.0	.8	26.0
21	G003356	.9	30.	540.	80.	16.0	.9	10.0
22	G003357	.8	20.	465.	65.	17.0	.7	8.3
23	G003358	1.0	16.	455.	46.	10.0	.5	10.0
24	G003359	.4	12.	450.	55.	11.0	.6	7.2
25	G003360	.8	26.	550.	105.	13.0	.7	10.0

Charles E. Thompson William L. Lehmbeck James A. Martin

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. Jim Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 53 Samples

ITEM	SAMPLE NO.	Pb (ppm)	Bi (ppb)	Co (ppm)	Ni (ppm)	Te (ppb)	Se (ppb)
1	V22100689	.3	2.	< .2	.7	< 1.	13.
2	G003338	.3	5.	< .2	.5	< 1.	19.
3	G003339	< .2	16.	< .2	.8	< 1.	46.
4	G003340	< .2	22.	< .2	.5	1.	50.
5	G003341	< .2	2.	< .2	1.2	< 1.	24.
6	G003342	.3	6.	< .2	1.0	< 1.	22.
7	G003343	.3	9.	< .2	1.0	< 1.	26.
8	G003344	.3	9.	< .2	1.2	< 1.	26.
9	G003345	.3	22.	< .2	.7	< 1.	30.
10	G003346	.3	26.	< .2	1.0	1.	26.
11	G003347	< .2	7.	< .2	1.0	< 1.	24.
12	G003348	< .2	14.	< .2	1.0	< 1.	30.
13	G003349	.3	17.	< .2	1.0	1.	36.
14	G003350	.3	9.	< .2	1.0	1.	22.
15	G003351	.3	11.	< .2	.7	2.	34.
16	G003352	.5	55.	< .2	.3	2.	44.
17	G003353	.7	26.	< .2	.5	7.	40.
18	G003354	.3	46.	< .2	1.3	2.	24.
19	G003355	.3	11.	< .2	.7	2.	20.
20	V22100689	.3	6.	< .2	.7	< 1.	11.
21	G003356	.3	11.	< .2	.5	1.	20.
22	G003357	.3	11.	< .2	.8	1.	30.
23	G003358	.3	11.	< .2	.8	2.	15.
24	G003359	.3	38.	< .2	.8	1.	34.
25	G003360	.5	8.	< .2	.8	3.	20.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. Jim Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 53 Samples

ITEM	SAMPLE NO.	Au (ppb)	Ag (ppb)	As (ppb)	Sb (ppb)	Cu (ppm)	Mo (ppm)	Zn (ppm)
26	G003361	.8	24.	470.	48.	12.0	.7	12.0
27	G003362	< .2	12.	285.	170.	9.5	.4	8.0
28	G003363	.5	13.	530.	65.	15.0	.6	13.0
29	G003364	.3	12.	240.	19.	6.8	.3	6.0
30	G003365	.3	18.	550.	40.	12.0	.7	9.3
31	G003366	.4	16.	620.	50.	16.0	.7	9.3
32	G003367	.5	15.	455.	40.	16.0	.5	12.0
33	G003368	.6	25.	455.	40.	14.0	.5	9.2
34	G003369	.7	18.	620.	55.	18.0	.7	12.0
35	G003370	.5	18.	500.	48.	13.0	.8	9.3
36	G003371	.6	22.	485.	42.	15.0	.4	14.0
37	G003372	1.0	12.	415.	32.	9.0	.6	10.0
38	G003373	.3	12.	440.	34.	11.0	.4	13.0
39	G003374	.8	17.	660.	50.	16.0	.5	8.5
40	G003375	.5	18.	700.	60.	16.0	.7	8.8
41	G003376	.3	12.	510.	38.	12.0	.7	9.8
42	G003377	.3	20.	680.	65.	17.0	.8	16.0
43	G003378	.4	20.	570.	50.	15.0	.7	12.0
44	G003379	.4	14.	390.	28.	13.0	.4	13.0
45	G003380	.7	12.	485.	40.	10.0	.6	7.8
46	G003381	.4	12.	420.	34.	9.7	.4	21.0
47	G003382	.5	19.	720.	70.	16.0	.7	12.0
48	G003383	.4	19.	610.	70.	17.0	.6	13.0
49	G003384	.6	28.	450.	60.	13.0	.8	8.0
50	G003385	.2	20.	240.	38.	10.0	.3	9.7

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. Jim Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 53 Samples

ITEM	SAMPLE NO.	Pb (ppm)	Bi (ppb)	Co (ppm)	Ni (ppm)	Te (ppb)	Se (ppb)
26	G003361	.3	12.	< .2	1.2	1.	17.
27	G003362	.3	24.	< .2	1.0	< 1.	12.
28	G003363	< .2	50.	< .2	.8	2.	30.
29	G003364	.3	22.	< .2	.3	1.	15.
30	G003365	.5	46.	< .2	.8	1.	42.
31	G003366	.5	11.	< .2	1.0	2.	32.
32	G003367	.3	6.	< .2	.8	2.	24.
33	G003368	.3	10.	< .2	.7	2.	24.
34	G003369	.7	10.	< .2	1.0	3.	34.
35	G003370	.5	14.	< .2	1.0	2.	24.
36	G003371	.3	9.	< .2	.7	2.	28.
37	G003372	.3	42.	< .2	.8	1.	22.
38	G003373	< .2	38.	< .2	.7	< 1.	14.
39	G003374	.3	50.	< .2	1.0	2.	32.
40	G003375	.5	70.	< .2	.8	3.	30.
41	G003376	.3	48.	< .2	.8	2.	30.
42	G003377	.5	9.	< .2	.8	2.	26.
43	G003378	.5	18.	< .2	1.2	2.	40.
44	G003379	.3	8.	< .2	.7	1.	28.
45	G003380	.3	8.	< .2	< .2	1.	18.
46	G003381	.3	11.	< .2	.3	1.	24.
47	G003382	.7	80.	< .2	.7	4.	32.
48	G003383	1.2	14.	< .2	.7	3.	26.
49	G003384	.3	42.	< .2	.3	1.	28.
50	G003385	< .2	20.	< .2	.5	< 1.	24.

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck

...S, INC.
...W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. Jim Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 53 Samples

ITEM	SAMPLE NO.	Au (ppb)	Ag (ppb)	As (ppb)	Sb (ppb)	Cu (ppm)	Mo (ppm)	Zn (ppm)
51	G003386	.2	10.	405.	30.	11.0	.4	15.0
52	G003387	1.5	11.	260.	36.	10.0	.8	25.0
53	G003388	1.7	11.	265.	38.	11.0	.8	27.0

Charles E. Thompson

...0 W. Sanuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE101
March 23, 1995
G003338-G003383

BHP MINERALS
Attn: Mr. Jim Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 53 Samples

ITEM	SAMPLE NO.	Pb (ppm)	Bi (ppb)	Co (ppm)	Ni (ppm)	Te (ppb)	Se (ppb)
51	G003386	.3	6.	< .2	.7	1.	14.
52	G003387	.3	2.	< .2	.7	< 1.	13.
53	G003388	.3	3.	< .2	.7	< 1.	14.

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck

SHEA CLARK SMITH
MINERALS EXPLORATION GEOCHEMISTRY
SAMPLE PREPARATION SERVICES
2235 Lakeshore Drive
Carson City, Nevada 89704
TEL: (702) 849-2235
FAX: (702) 849-2335

Job No: B895001V
Company: SKYLINE LABS
Geologist: JIM NELSON
Project/ PO #:
Received: 06-MAR-95
Completed: 15-MAR-95
Shipped to: SKYLINE (Tucson, AZ)

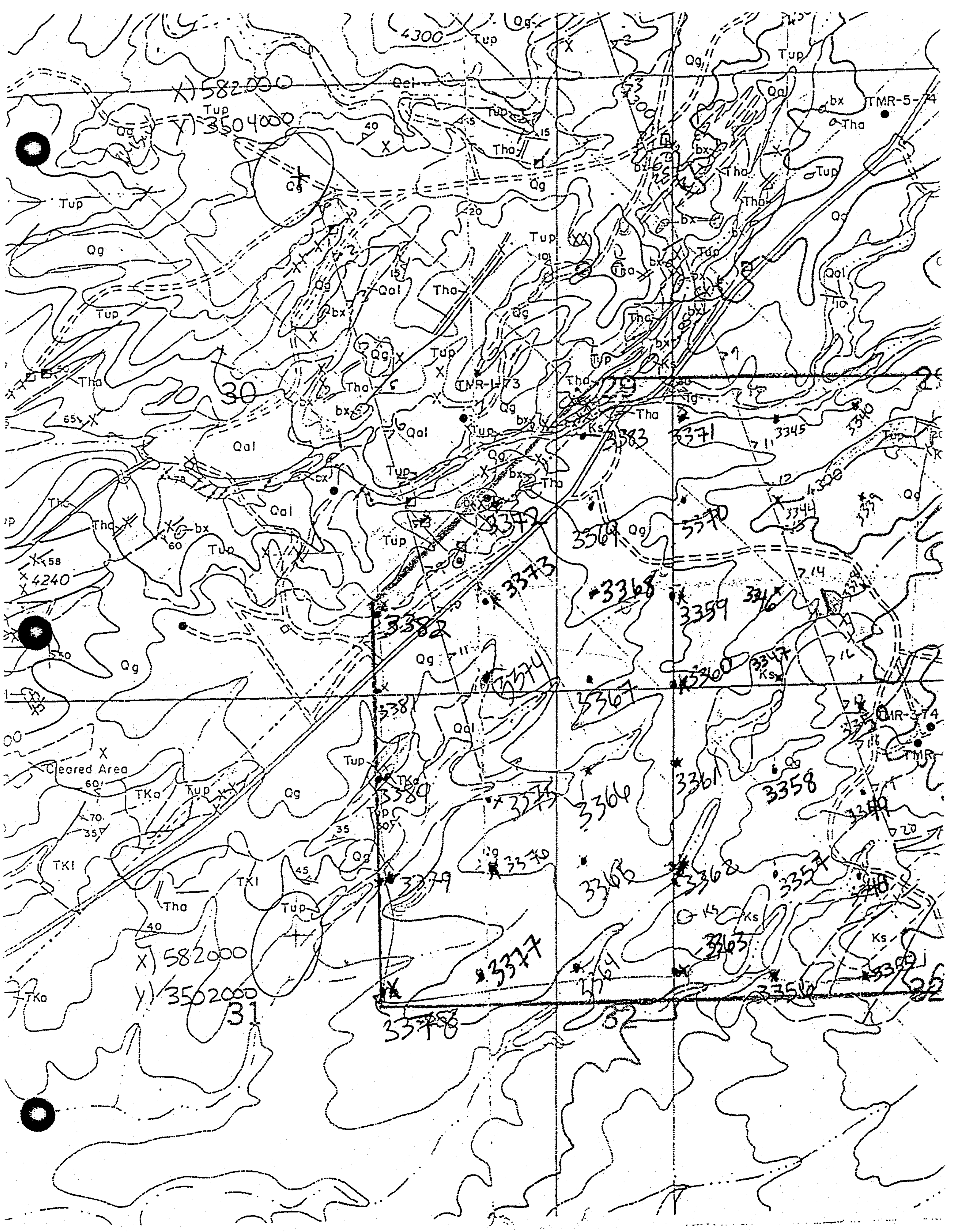
NOTES FROM MEG CHEMIST:
All weights in grams. Blind QA/QC samples are indicated to client only.
Sample preparation (using the ENTIRE sample):
/X/ Randomize
/X/ Machine wash /X/ Microwave dry /X/ Wiley mill
/X/ Ash (30 g programmed to 500 C) /X/ Ash weight

SPECIES: Creosote Leaves & Twigs (Leaves removed at MEG)

SEQ	SAMPLE NUMBER	DRY WT	ASH WT	
1	* V22100689 *.....	30.055	1.132	
2	G003360 V.....	30.025	2.025	
3	G003368 V.....	30.033	2.271	
4	G003356 V.....	30.030	1.947	
5	G003351 V.....	30.035	1.814	
6	G003379 V.....	30.040	2.137	
7	G003386 V.....	30.017	1.801	**REPLICATE: (40) G003373V
8	G003377 V.....	30.039	1.806	
9	G003338 V.....	30.042	1.215	
10	G003378 V.....	30.052	1.478	
11	G003343 V.....	30.038	1.690	
12	G003361 V.....	30.007	1.930	
13	G003357 V.....	30.032	2.087	
14	G003353 V.....	30.086	2.140	
15	G003344 V.....	30.082	1.624	
16	G003387 V.....	30.086	1.139	**STANDARD: V22100689
17	G003350 V.....	30.032	2.138	
18	G003342 V.....	30.029	1.864	
19	G003381 V.....	30.049	1.481	
20	G003349 V.....	30.048	2.268	
21	G003370 V.....	30.027	2.240	
22	G003367 V.....	30.016	2.004	
23	G003369 V.....	30.072	2.202	
24	G003366 V.....	30.064	2.094	
25	G003383 V.....	30.044	1.888	
26	G003347 V.....	30.061	1.997	
27	G003371 V.....	30.085	1.927	
28	G003358 V.....	30.029	1.783	
29	G003380 V.....	30.001	1.804	
30	G003355 V.....	30.071	1.972	
31	* V22100689 *.....	30.023	1.151	
32	G003341 V.....	30.078	1.175	
33	G003385 V.....	30.050	1.422	**REPLICATE: (53) G003349V
34	G003363 V.....	30.024	2.097	
35	G003375 V.....	30.050	1.823	

36	G003362	V.....30.039	1.890	
37	G003354	V.....30.023	2.223	
38	G003345	V.....30.062	1.849	
39	G003348	V.....30.036	1.597	
40	G003373	V.....30.012	1.626	
41	G003376	V.....30.028	1.974	
42	G003359	V.....30.067	2.023	
43	G003374	V.....30.061	1.893	
44	G003382	V.....30.034	1.983	
45	G003388	V.....30.058	1.199	**STANDARD: V22100689
46	G003372	V.....30.079	1.978	
47	G003352	V.....30.077	1.899	
48	G003346	V.....30.016	1.751	
49	G003384	V.....30.029	1.781	**REPLICATE: (4) G003356V
50	G003339	V.....30.039	1.548	
51	G003364	V.....30.071	2.150	
52	G003365	V.....30.047	2.049	
53	G003340	V.....30.042	2.081	

Ag Cu Mo
Zn
Sb Pb


4300
X) 582000
Y) 3504000
Tup
Qg
Qal
Tha
bx
TMR-5-74
TMR-1-73
30
Ks
Tg
3383
3371
3345
3340
4300
3344
3372
3369
3370
3373
3368
3359
3382
3374
3367
3360
3347
TMR-3-74
4240
Cleared Area
TKa
TKl
3381
3380
3375
3366
3361
3358
3379
3376
3365
3362
3357
3377
3364
3363
3356
3378
X) 582000
Y) 3502000
31
32

SHEA CLARK SMITH
MINERALS EXPLORATION GEOCHEMISTRY
SAMPLE PREPARATION SERVICES
2235 Lakeshore Drive
Carson City, Nevada 89704
TEL: (702) 849-2235
FAX: (702) 849-2335

Job No: 8895008V
Company: BHP MINERALS
Geologist: JAMES NELSON
Project/ PO #: LIKE WIE#101
Received: 26-MAY-95
Completed: 31-MAY-95
Shipped to: SKYLINE (Tucson, AZ)

NOTES FROM MEG CHEMIST:
All weights in grams. Blind QA/QC samples are indicated to client only.
Sample preparation (using the ENTIRE sample):

/X/ Randomize /X/ Machine wash /X/ Microwave dry /X/ Wiley mill
/X/ Ash (30 g programmed to 500 C) /X/ Ash weight

SPECIES: CREOSOTE (L&T)

SEQ	SAMPLE NUMBER	DRY WT	
1	* V22100689 *	30.001	
2	RRCR- 21	30.003	
3	RRCR- 67	30.009	
4	RRCR- 4	30.003	
5	RRCR- 73	30.004	**REPLICATE: (36) RRCR-59
6	RRCR- 12	30.005	
7	RRCR- 68	30.000	
8	RRCR- 23	30.005	
9	RRCR- 5	30.007	
10	RRCR- 20	30.003	
11	RRCR- 66	30.003	
12	RRCR- 33	30.000	
13	RRCR- 18	30.005	
14	RRCR- 45	30.010	
15	RRCR- 71	30.003	**REPLICATE: (71) RRCR-39
16	RRCR- 58	30.000	
17	RRCR- 50	30.005	
18	RRCR- 1	30.008	
19	RRCR- 32	30.003	
20	RRCR- 19	30.000	
21	RRCR- 9	30.000	
22	RRCR- 2	30.009	
23	RRCR- 13	30.006	
24	RRCR- 49	30.003	
25	RRCR- 7	30.000	
26	RRCR- 34	30.009	
27	RRCR- 53	30.000	
28	RRCR- 62	30.000	
29	RRCR- 36	30.001	
30	RRCR- 8	30.000	
31	* V22100689 *	30.010	
32	RRCR- 63	30.005	
33	RRCR- 26	30.004	
34	RRCR- 14	30.000	

[illegible]	RRCR-	37	.....30.005	
36	RRCR-	59	.....30.000	
37	RRCR-	52	.....30.000	
38	RRCR-	65	.....30.001	
39	RRCR-	69	.....30.008	
40	RRCR-	46	.....30.003	
41	RRCR-	54	.....30.014	
42	RRCR-	64	.....30.010	
43	RRCR-	40	.....30.002	
44	RRCR-	25	.....30.006	
45	RRCR-	43	.....30.003	
46	RRCR-	72	.....30.000	**STANDARD: V27022093
47	RRCR-	17	.....30.005	
48	RRCR-	38	.....30.003	
49	RRCR-	30	.....30.001	
50	RRCR-	24	.....30.009	
51	RRCR-	51	.....30.000	
52	RRCR-	31	.....30.003	
53	RRCR-	15	.....30.000	
54	RRCR-	41	.....30.003	
55	RRCR-	6	.....30.002	
56	RRCR-	28	.....30.006	
57	RRCR-	70	.....30.000	**REPLICATE: (26) RRCR-34
58	RRCR-	48	.....30.005	
[illegible]	RRCR-	44	.....30.000	
[illegible]	RRCR-	29	.....30.006	
61	* V22100689	*	.....30.000	
62	RRCR-	22	.....30.008	
63	RRCR-	27	.....30.004	
64	RRCR-	47	.....30.000	
65	RRCR-	11	.....30.002	
66	RRCR-	35	.....30.011	
67	RRCR-	10	.....30.002	
68	RRCR-	42	.....30.002	
69	RRCR-	57	.....30.002	
70	RRCR-	56	.....30.007	
71	RRCR-	39	.....30.006	
72	RRCR-	61	.....30.002	
73	RRCR-	16	.....30.005	
74	RRCR-	55	.....30.003	
75	RRCR-	60	.....30.003	
76	RRCR-	3	.....30.007	
77	RRCR-	74	.....30.000	**STANDARD: V27022093

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 77 Plant Samples

ITEM	SAMPLE NO.	Au (ppb)	Ag+ (ppb)	As (ppb)	Sb (ppb)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)
1	V22100689	1.6		220.	34.	11.0	.3	26.0	.8
2	RRCR-21	.5		425.	30.	13.0	.3	8.7	1.2
3	RRCR-67	< .2		305.	26.	12.0	.5	10.0	.7
4	RRCR-4	.3		200.	13.	16.0	.2	7.5	.7
5	RRCR-73	< .2		210.	14.	12.0	.2	8.8	.8
6	RRCR-12	.3		300.	22.	12.0	.2	13.0	1.0
7	RRCR-68	.2		435.	34.	27.0	.3	7.3	.8
8	RRCR-23	.2		305.	22.	10.0	.3	5.7	.7
9	RRCR-5	< .2		325.	28.	8.8	.3	8.2	.7
10	RRCR-20	< .2		375.	32.	11.0	.3	8.5	.9
11	RRCR-66	.3		570.	50.	20.0	.5	14.0	.4
12	RRCR-33	.7		425.	40.	11.0	.3	7.5	1.0
13	RRCR-18	< .2		305.	26.	7.5	.3	11.0	1.1
14	RRCR-45	.4		590.	48.	12.0	.5	7.7	.9
15	RRCR-71	.3		280.	19.	13.0	.2	9.0	1.0
16	RRCR-58	< .2		310.	24.	14.0	.3	9.3	.8
17	RRCR-50	< .2		620.	50.	14.0	.5	12.0	1.0
18	RRCR-1	< .2		245.	18.	11.0	.2	17.0	.8
19	RRCR-32	.3		315.	32.	27.0	.2	12.0	.9
20	RRCR-19	< .2		235.	24.	12.0	.3	11.0	.8
21	RRCR-9	< .2		275.	24.	13.0	.3	17.0	.5
22	RRCR-2	1.2		300.	22.	8.8	.3	5.2	.6
23	RRCR-13	< .2		245.	18.	10.0	.3	16.0	.8
24	RRCR-49	< .2		405.	24.	16.0	.3	7.7	.8
25	RRCR-7	.8		195.	13.	15.0	.3	13.0	.4

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 77 Plant Samples

ITEM	SAMPLE NO.	Bi (ppb)	Co (ppm)	Ni (ppm)	Te (ppb)	Se (ppb)
1	V22100609	2.	< .2	.8	< 1.	18.
2	RRCR-21	7.	< .2	.8	1.	25.
3	RRCR-67	7.	.2	1.2	1.	25.
4	RRCR-4	6.	.2	1.7	< 1.	32.
5	RRCR-73	5.	.2	2.0	< 1.	30.
6	RRCR-12	5.	< .2	.8	< 1.	20.
7	RRCR-68	6.	< .2	.7	< 1.	30.
8	RRCR-23	7.	< .2	1.3	1.	28.
9	RRCR-5	7.	< .2	.7	1.	30.
10	RRCR-20	5.	.2	.8	1.	24.
11	RRCR-66	12.	.2	1.3	2.	24.
12	RRCR-33	9.	.2	1.7	1.	34.
13	RRCR-18	6.	.2	1.0	< 1.	24.
14	RRCR-45	6.	.2	.8	2.	30.
15	RRCR-71	4.	.2	1.7	< 1.	22.
16	RRCR-58	7.	.2	1.3	< 1.	38.
17	RRCR-50	10.	< .2	1.3	1.	36.
18	RRCR-1	4.	< .2	1.5	< 1.	20.
19	RRCR-32	7.	.2	1.8	< 1.	22.
20	RRCR-19	2.	< .2	.7	< 1.	24.
21	RRCR-9	2.	< .2	.3	1.	30.
22	RRCR-2	4.	< .2	.8	1.	24.
23	RRCR-13	5.	< .2	1.7	< 1.	20.
24	RRCR-49	3.	< .2	1.3	< 1.	11.
25	RRCR-7	3.	< .2	1.3	< 1.	18.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 77 Plant Samples

ITEM	SAMPLE NO.	Au (ppb)	Ag+ (ppb)	As (ppb)	Sb (ppb)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)
26	RRCR-34	< .2		290.	20.	10.0	.3	9.7	.7
27	RRCR-53	.2		270.	19.	21.0	.2	27.0	.3
28	RRCR-62	.2		325.	26.	10.0	.2	11.0	.9
29	RRCR-36	< .2		255.	14.	9.8	.3	13.0	.8
30	RRCR-8	< .2		250.	20.	9.7	.3	6.7	.6
31	V22100689	2.1		215.	30.	11.0	.3	26.0	.8
32	RRCR-63	< .2		230.	13.	11.0	.3	10.0	.6
33	RRCR-26	< .2		290.	19.	9.8	.2	11.0	.8
34	RRCR-14	< .2		260.	15.	10.0	.2	12.0	.6
35	RRCR-37	< .2		200.	11.	15.0	.2	7.3	.5
36	RRCR-59	.5		245.	14.	13.0	.2	9.2	.9
37	RRCR-52	.9		530.	55.	16.0	.8	65.0	.5
38	RRCR-65	1.0		500.	38.	14.0	.2	10.0	.7
39	RRCR-69	.4		520.	42.	16.0	.3	9.3	.5
40	RRCR-46	.4		395.	32.	9.0	.2	15.0	.6
41	RRCR-54	.9		390.	32.	17.0	.2	8.2	.6
42	RRCR-64	.8		340.	26.	19.0	.2	8.8	[illegible]
43	RRCR-40	1.1		320.	22.	9.8	.2	11.0	.8
44	RRCR-25	< .2		190.	12.	7.2	.2	17.0	.8
45	RRCR-43	< .2		510.	36.	20.0	.3	12.0	.7
46	RRCR-72	6.0		260.	55.	6.0	.2	9.2	.4
47	RRCR-17	< .2		285.	19.	6.5	.3	8.8	.9
48	RRCR-38	< .2		345.	26.	13.0	.3	9.5	1.0
49	RRCR-30	< .2		240.	18.	13.0	.2	14.0	.5
50	RRCR-24 ++								

SKYLINE LABS, INC.
1775 W. Saguaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 77 Plant Samples

ITEM	SAMPLE NO.	Bi (ppb)	Co (ppm)	Ni (ppm)	Te (ppb)	Se (ppb)
26	RRCR-34	5.	<.2	1.8	<1.	22.
27	RRCR-53	<1.	<.2	.7	<1.	28.
28	RRCR-62	5.	.2	1.7	<1.	22.
29	RRCR-36	4.	<.2	1.8	<1.	20.
30	RRCR-8	4.	<.2	1.5	<1.	22.
31	V22100689	1.	<.2	.8	<1.	12.
32	RRCR-63	13.	.2	2.2	<1.	16.
33	RRCR-26	18.	.2	2.0	<1.	9.
34	RRCR-14	15.	.2	.8	<1.	11.
35	RRCR-37	8.	<.2	2.8	<1.	10.
36	RRCR-59	10.	.2	1.8	<1.	28.
37	RRCR-52	28.	.2	.5	3.	13.
38	RRCR-65	22.	<.2	1.2	1.	34.
39	RRCR-69	28.	.2	.8	3.	14.
40	RRCR-46	20.	<.2	1.0	2.	15.
41	RRCR-54	22.	.2	2.0	2.	20.
42	RRCR-64	14.	.2	2.8	<1.	19.
43	RRCR-40	15.	.3	1.7	1.	18.
44	RRCR-25	8.	.2	1.8	<1.	11.
45	RRCR-43	20.	.2	1.3	<1.	30.
46	RRCR-72	6.	.2	.3	<1.	5.
47	RRCR-17	16.	.2	1.0	<1.	11.
48	RRCR-38	16.	.2	2.3	<1.	11.
49	RRCR-30	10.	.2	.8	<1.	12.
50	RRCR-24 ++					

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 77 Plant Samples

ITEM	SAMPLE NO.	Au (ppb)	Ag (ppb)	As (ppb)	Sb (ppb)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)
51	RRCR-51	< .2	11.	380.	26.	18.0	.2	18.0	.5
52	RRCR-31	< .2	18.	220.	14.	8.3	.2	13.0	.7
53	RRCR-15	< .2	15.	330.	28.	10.0	.3	13.0	.6
54	RRCR-41	1.1	15.	330.	30.	14.0	.3	12.0	.6
55	RRCR-6	.2	12.	345.	28.	12.0	.2	8.7	.7
56	RRCR-28	< .2	12.	225.	17.	7.8	.3	9.5	1.0
57	RRCR-70	.9	30.	340.	26.	10.0	.3	9.5	1.0
58	RRCR-48	< .2	15.	275.	19.	11.0	.2	11.0	.5
59	RRCR-44	.6	1.	430.	34.	11.0	.2	12.0	1.0
60	RRCR-29	< .2	20.	260.	20.	7.3	.2	8.7	.7
61	V22100689	1.4	17.	240.	46.	10.0	.5	25.0	.8
62	RRCR-22	.2	7.	300.	26.	6.5	.3	6.8	.5
63	RRCR-27	< .2	<1.	345.	30.	11.0	.2	13.0	1.0
64	RRCR-47	< .2	24.	365.	32.	12.0	.3	12.0	.8
65	RRCR-11	< .2	16.	275.	24.	7.3	.3	8.5	.6
66	RRCR-35	< .2	28.	275.	34.	11.0	.3	11.0	.7
67	RRCR-10	1.0	20.	220.	20.	6.2	.2	12.0	.4
68	RRCR-42	.3	28.	475.	55.	19.0	.7	23.0	.5
69	RRCR-57	< .2	7.	315.	28.	11.0	.2	8.7	.8
70	RRCR-56	.5	22.	385.	34.	13.0	.3	8.0	.6
71	RRCR-39	.6	24.	270.	24.	12.0	.3	9.5	1.0
72	RRCR-61	< .2	22.	360.	40.	18.0	.3	14.0	.2
73	RRCR-16	.5	<1.	315.	28.	9.5	.3	10.0	.7
74	RRCR-55	.7	<1.	270.	18.	11.0	.3	9.3	.6
75	RRCR-60	< .2	<1.	265.	16.	9.2	.2	11.0	.6

Charles E. Thompson William I. Lehmbeck James A. Martin

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 77 Plant Samples

ITEM	SAMPLE NO.	Bi (ppb)	Co (ppm)	Ni (ppm)	Te (ppb)	Se (ppb)
51	RRCR-51	20.	<.2	.7	1.	19.
52	RRCR-31	11.	.2	1.3	<1.	8.
53	RRCR-15	20.	.2	.8	1.	22.
54	RRCR-41	18.	.2	1.0	2.	24.
55	RRCR-6	24.	.2	.8	2.	22.
56	RRCR-28	14.	.3	2.0	1.	11.
57	RRCR-70	20.	.2	2.0	<1.	26.
58	RRCR-48	15.	.2	1.0	<1.	20.
59	RRCR-44	26.	.2	1.7	2.	20.
60	RRCR-29	18.	<.2	.8	<1.	24.
61	V22100689	2.	<.2	.8	1.	24.
62	RRCR-22	6.	<.2	1.2	<1.	22.
63	RRCR-27	12.	.2	2.2	<1.	32.
64	RRCR-47	10.	.2	1.2	1.	34.
65	RRCR-11	9.	.2	.8	<1.	28.
66	RRCR-35	5.	<.2	2.8	1.	20.
67	RRCR-10	3.	.2	.7	<1.	22.
68	RRCR-42	9.	<.2	.7	2.	32.
69	RRCR-57	9.	.2	2.5	<1.	42.
70	RRCR-56	13.	.2	1.7	2.	34.
71	RRCR-39	9.	.2	1.7	<1.	26.
72	RRCR-61	7.	.2	1.7	2.	32.
73	RRCR-16	16.	<.2	1.0	<1.	24.
74	RRCR-55	8.	<.2	2.0	<1.	24.
75	RRCR-60	4.	.2	1.5	1.	15.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 77 Plant Samples.

ITEM	SAMPLE NO.	Au (ppb)	Ag (ppb)	As (ppb)	Sb (ppb)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)
76	RRCR-3	.9	13.	355.	28.	9.2	.3	7.2	.7
77	RRCR-74	3.8	7.	195.	40.	6.0	.3	9.7	.4

William J. Lehmbeck

James A. Martin

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

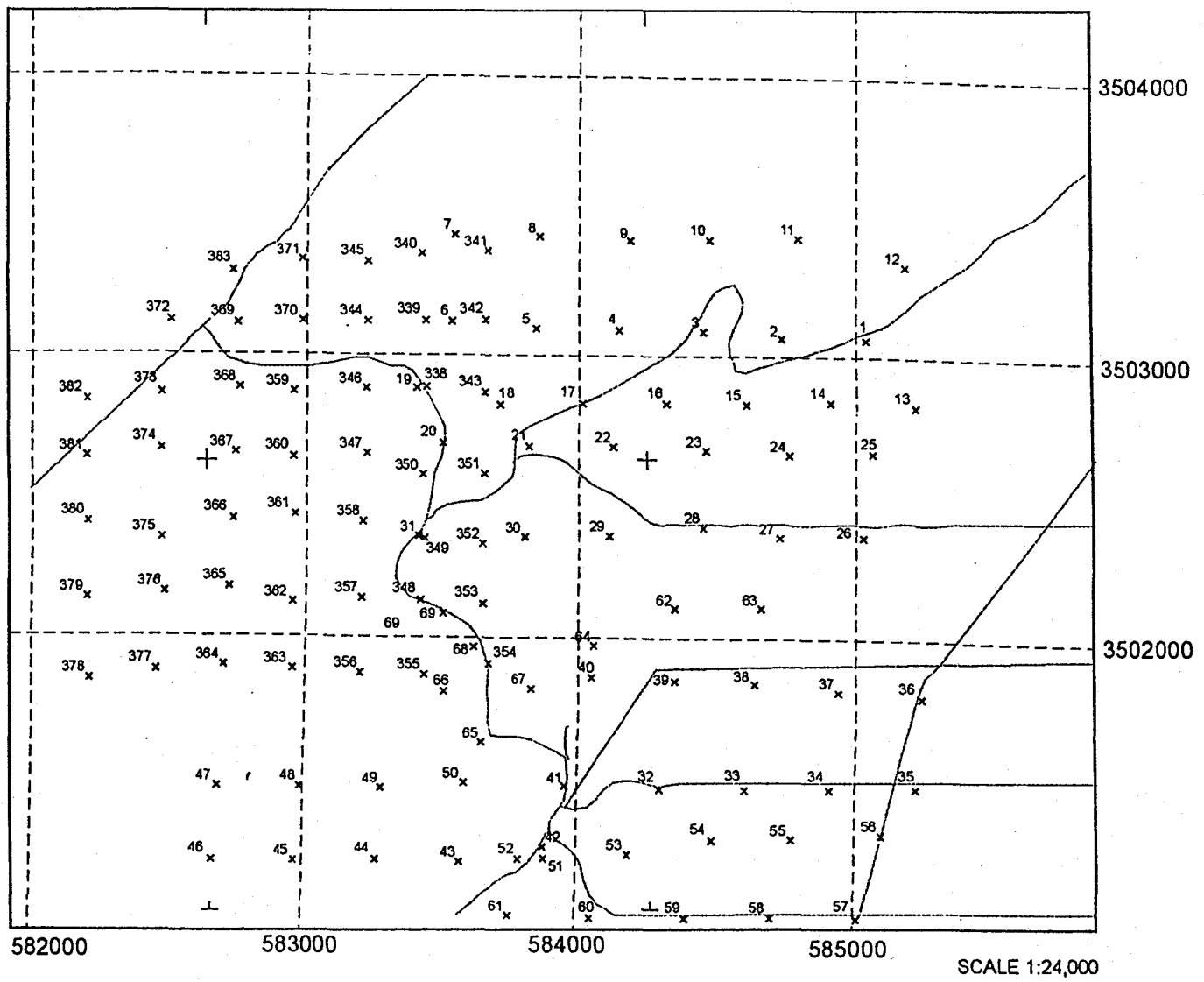
REPORT OF ANALYSIS

Analysis of 77 Plant Samples

ITEM	SAMPLE NO.	Bi (ppb)	Co (ppm)	Ni (ppm)	Te (ppb)	Se (ppb)
76	RRCR-3	12.	.2	.7	1.	22.
77	RRCR-74	<1.	<.2	.3	<1.	14.

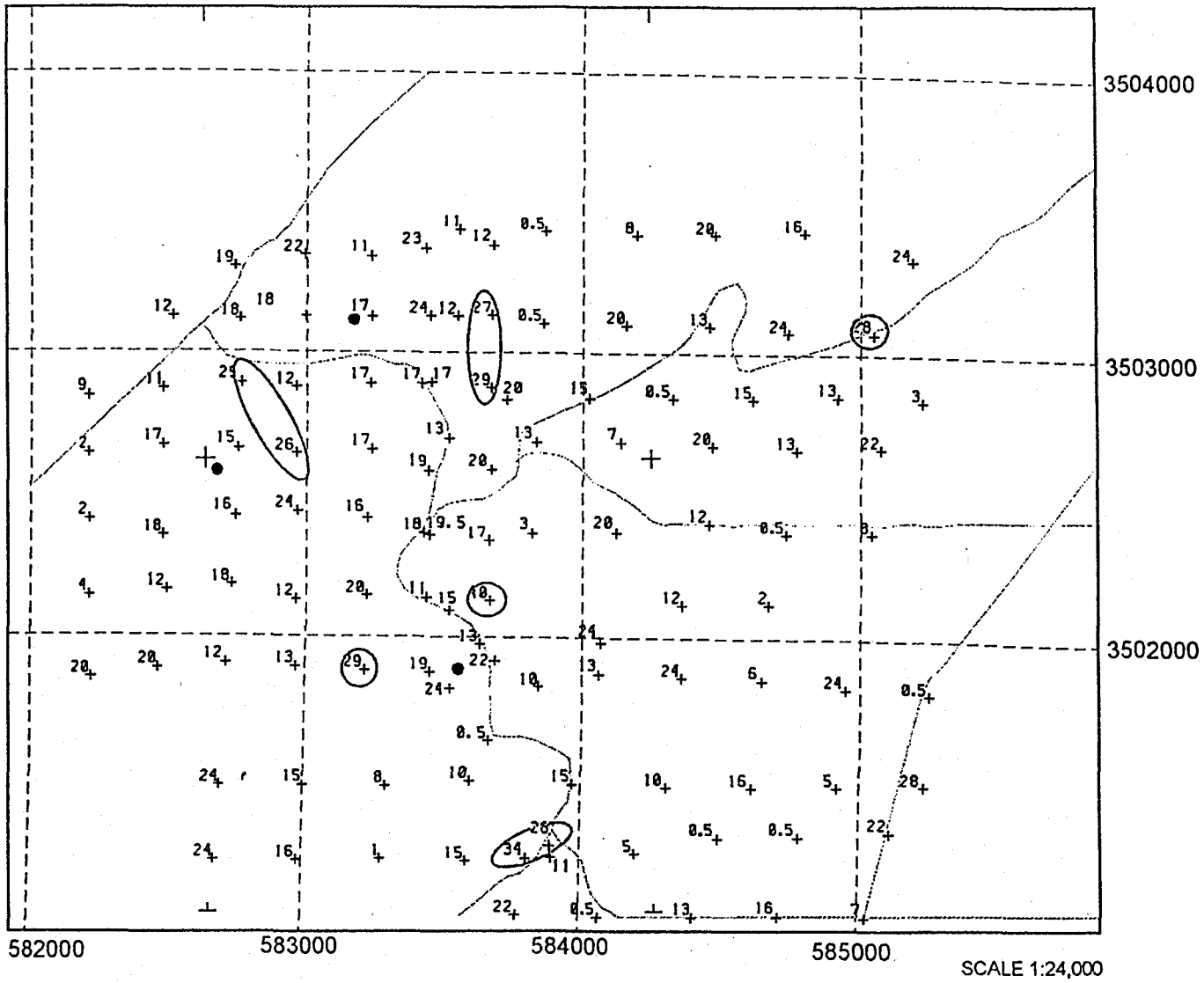
William L. Lehmbeck
Manager

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)



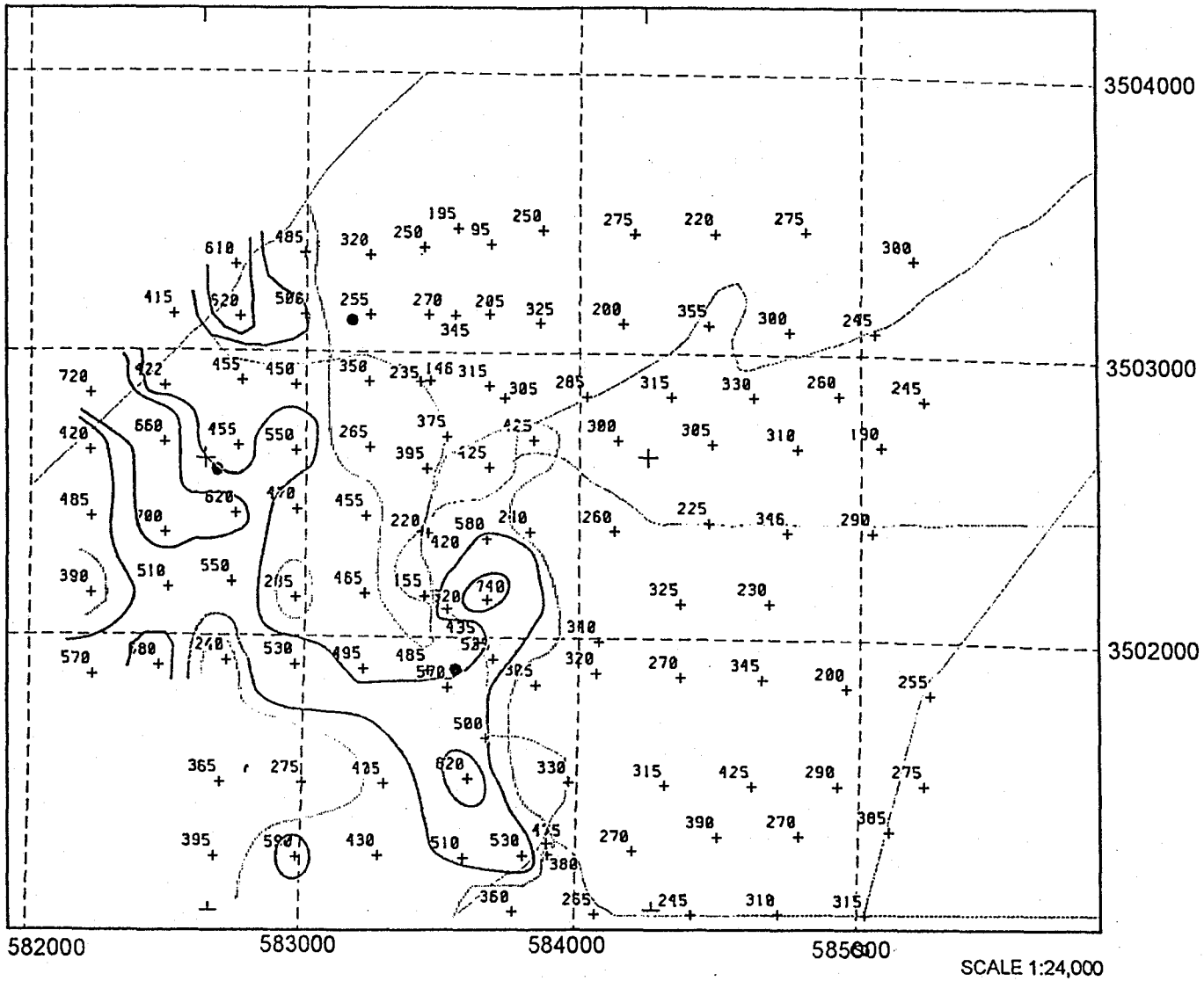
SILVER (Ag)

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)



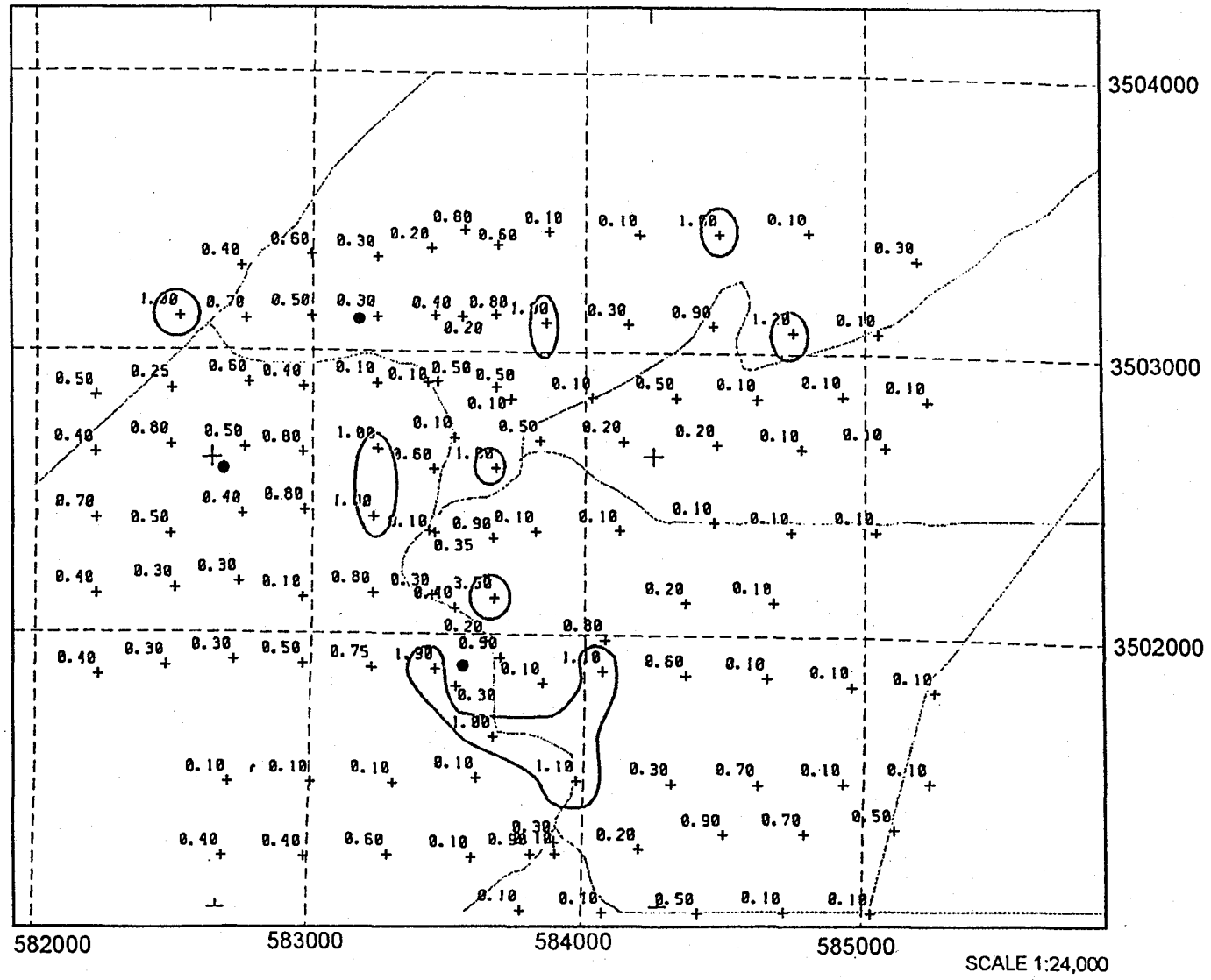
ARSENIC (As)

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)



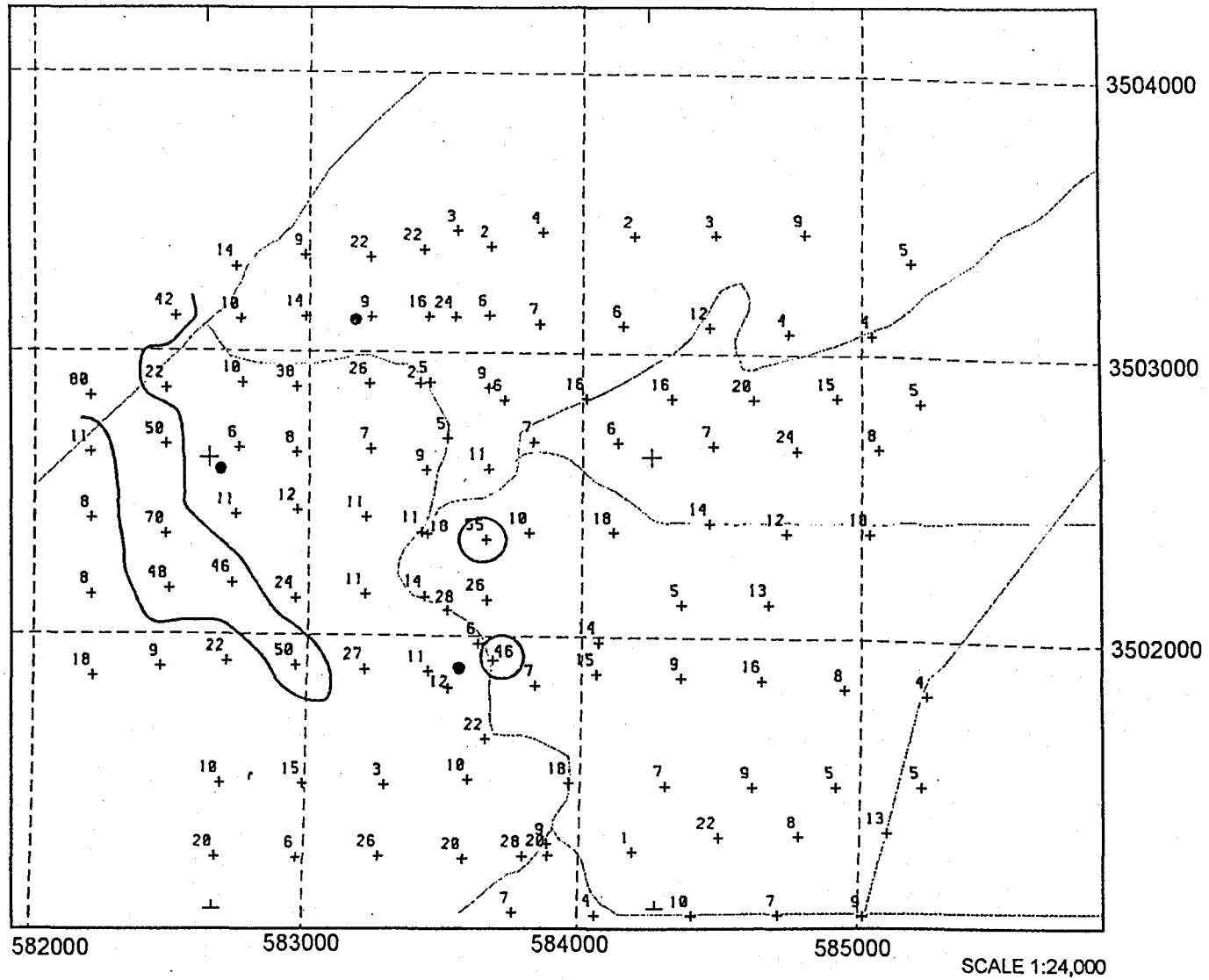
GOLD (Au)

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)



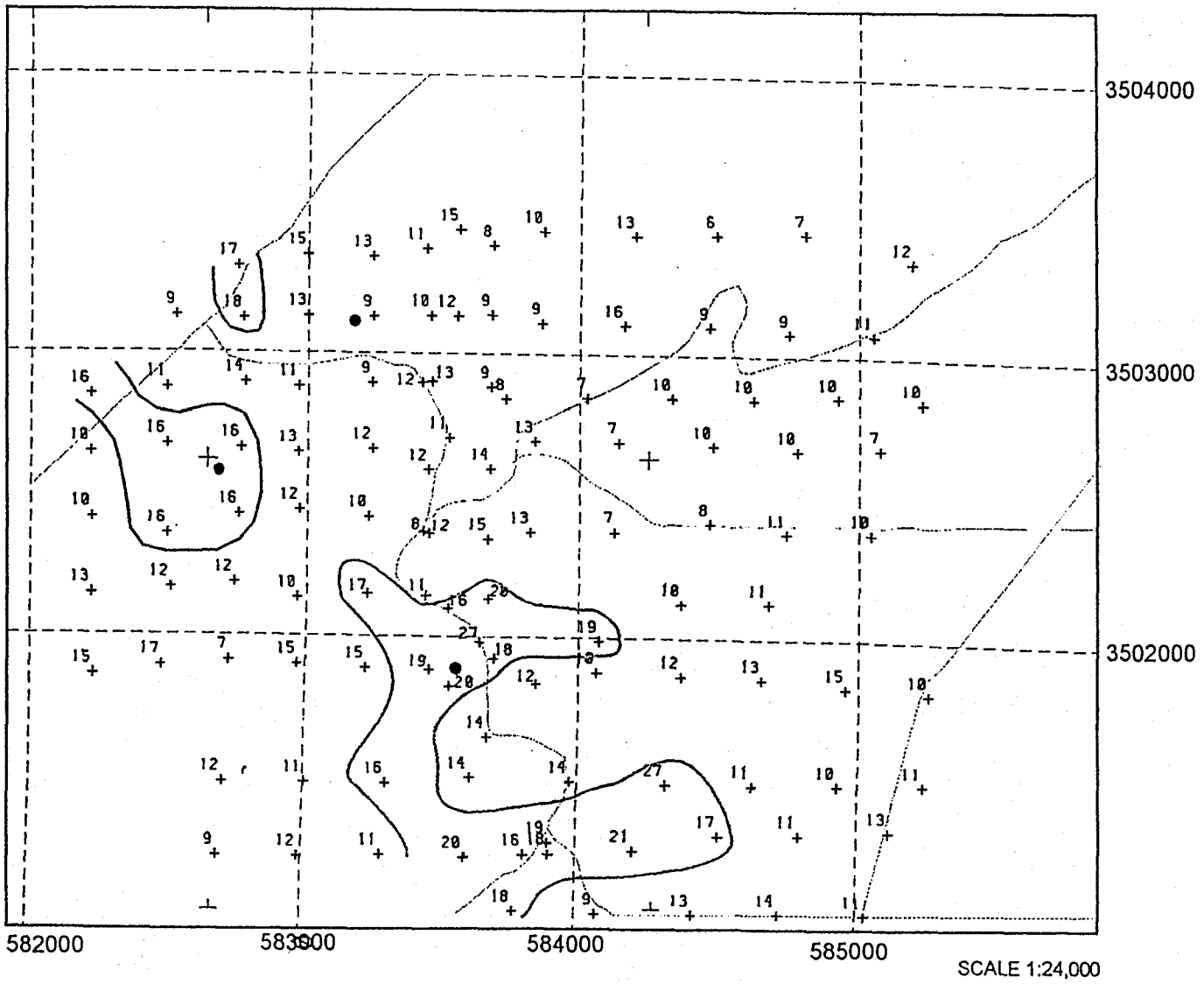
BISMUTH (Bi)

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)



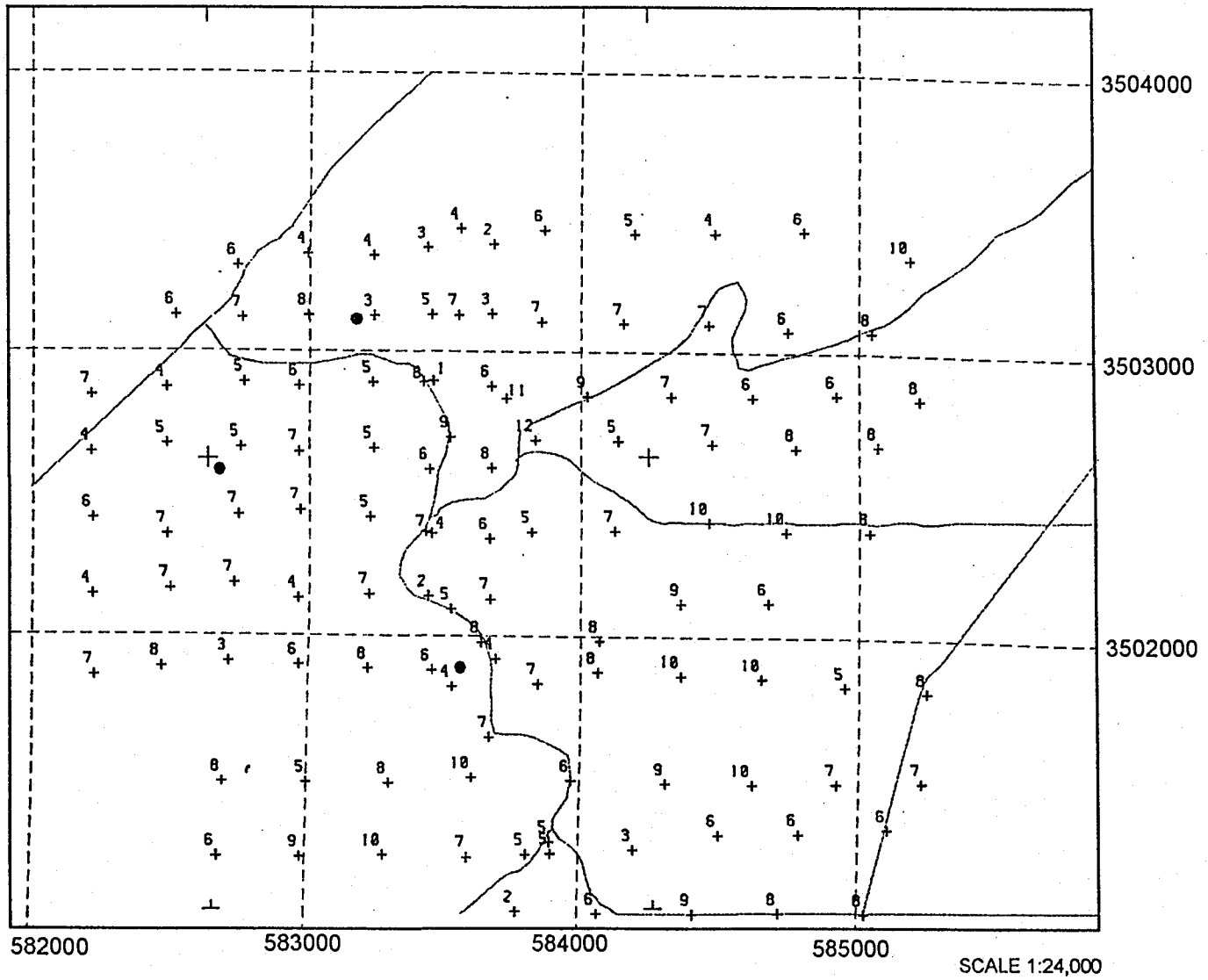
COPPER (Cu)

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)



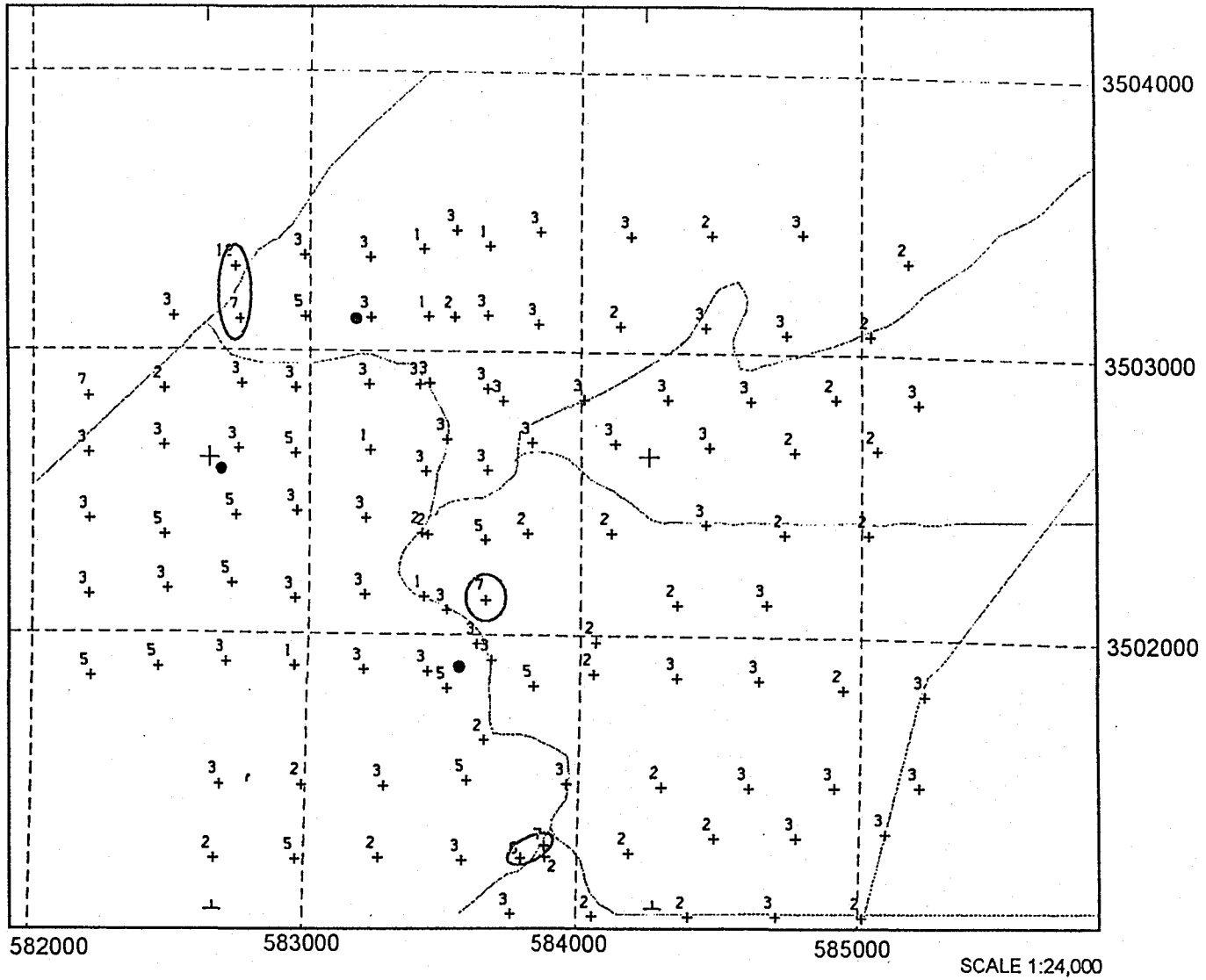
MOLYBDENUM (Mo)

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)



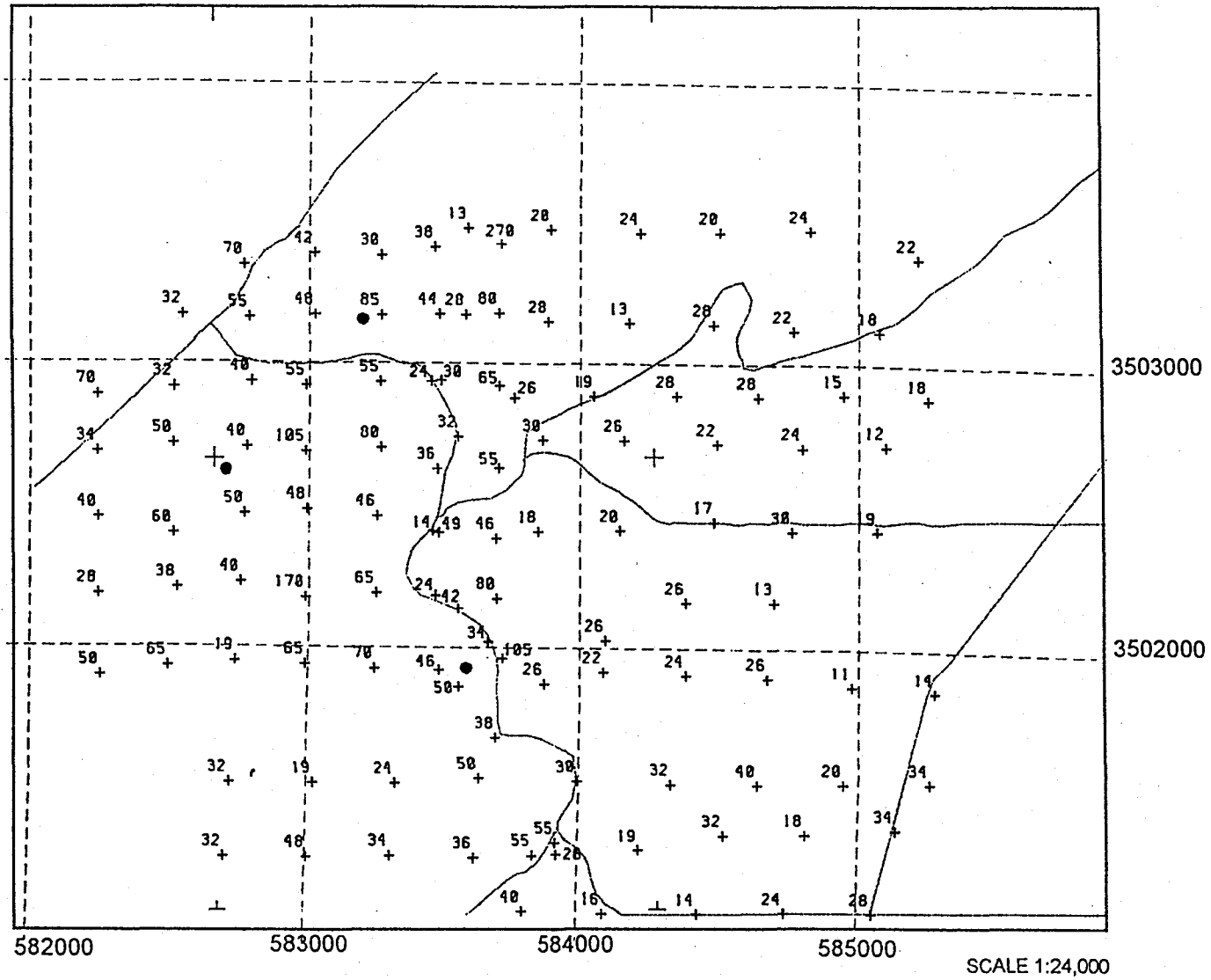
LEAD (Pb)

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)



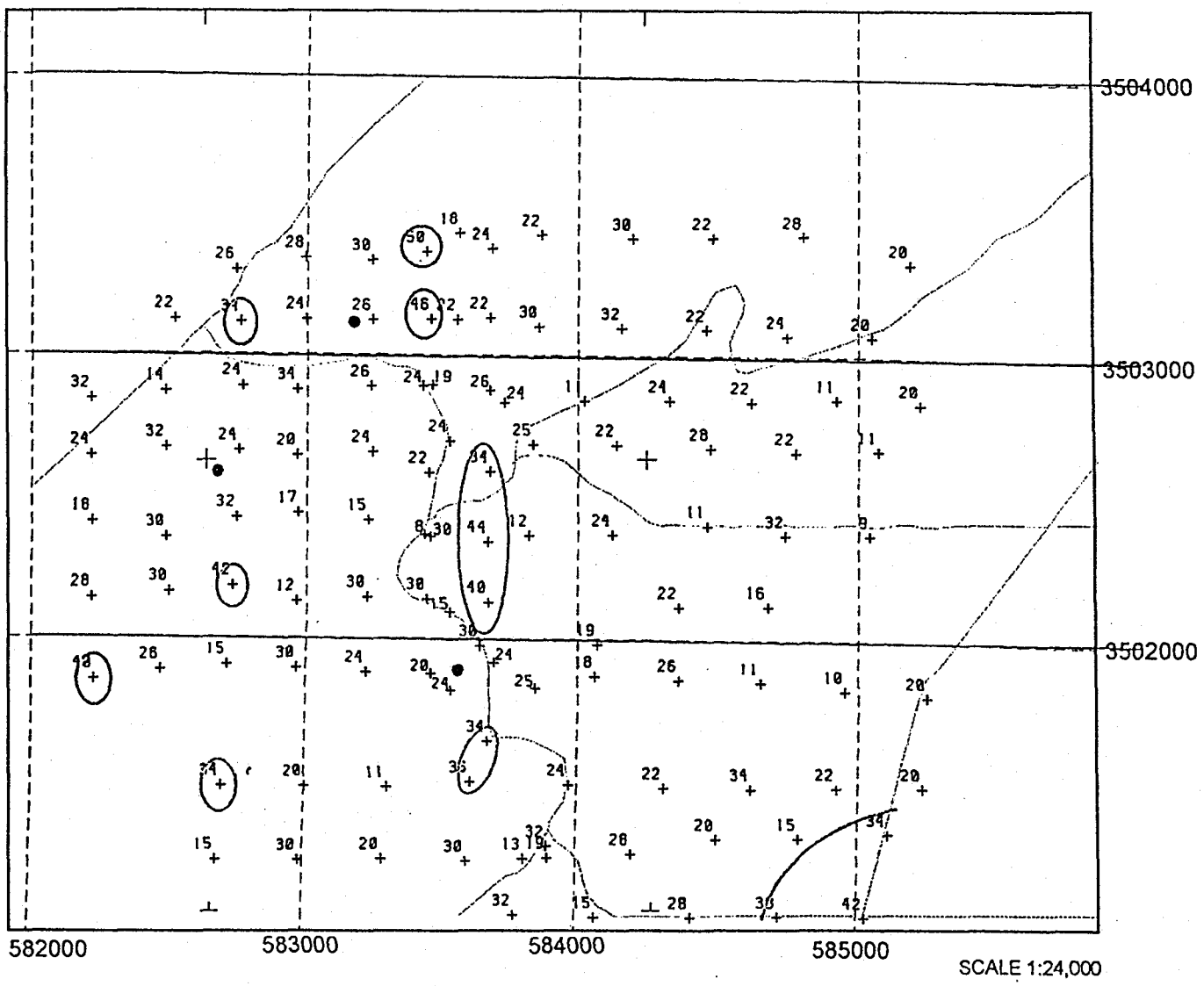
ANTIMONY (Sb)

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)



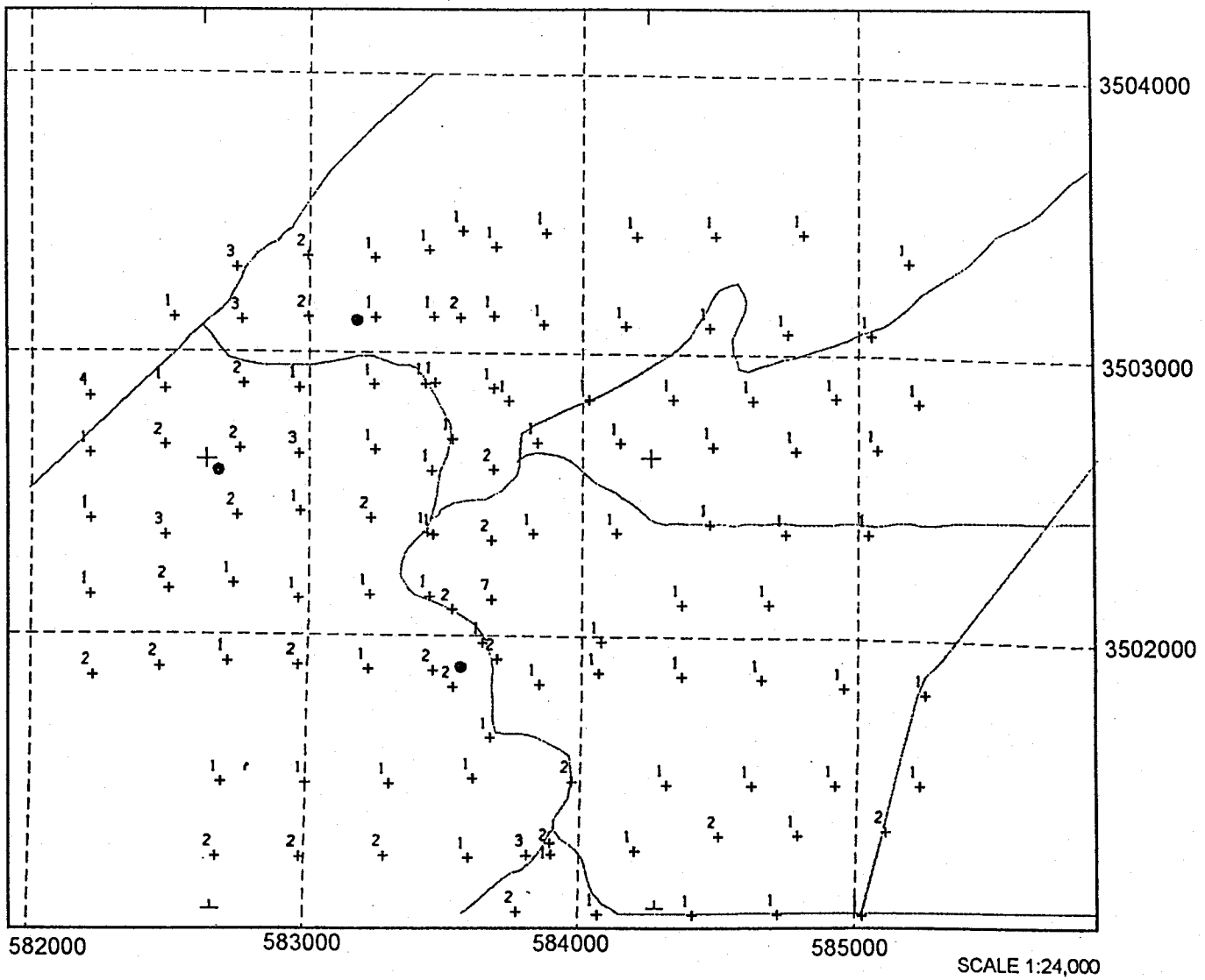
SELENIUM (Se)

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)



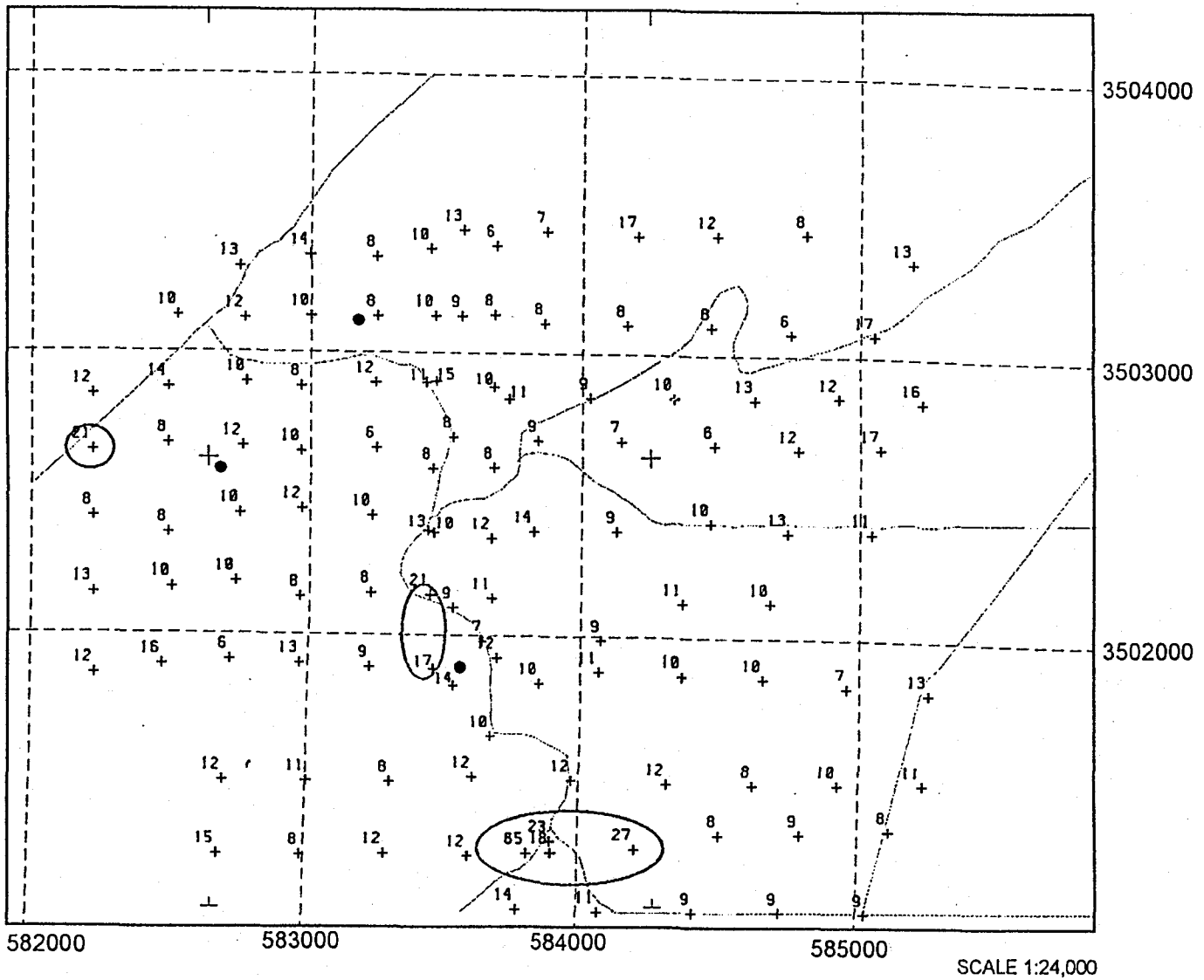
TELLURIUM (Te)

ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)

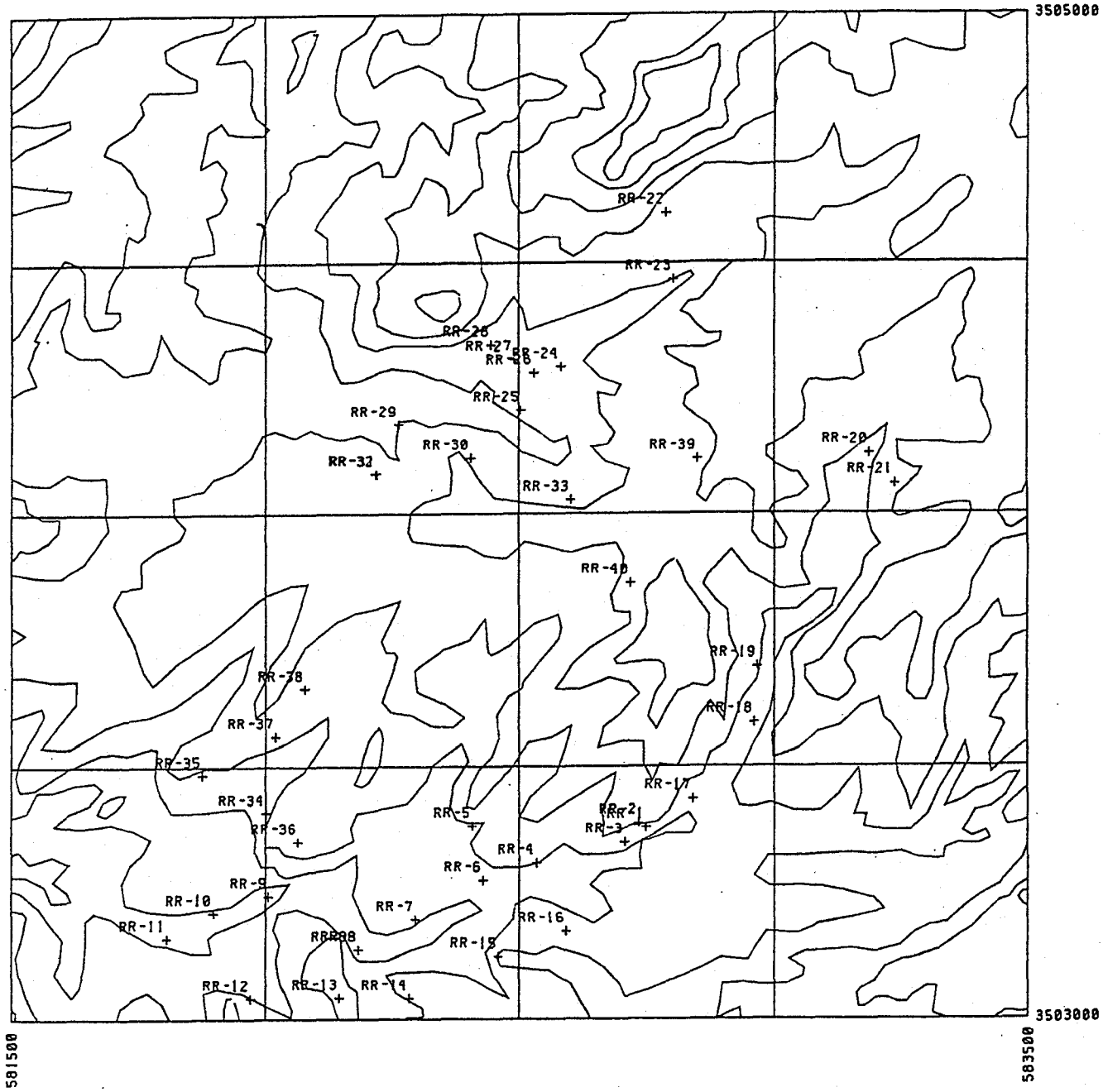


ZINC (Zn)

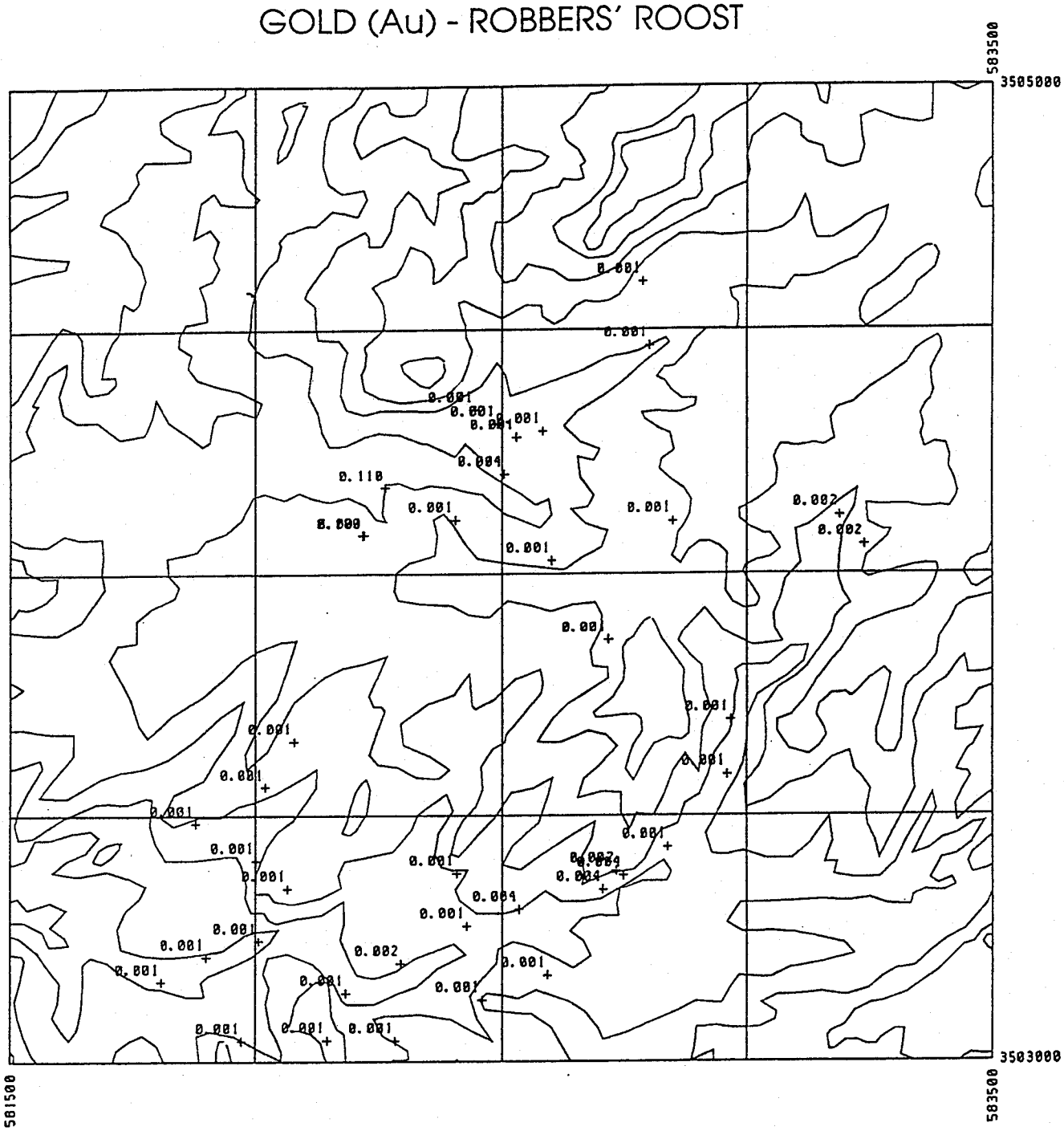
ROBBERS' ROOST BIOGEOCHEMICASAL SURVEY (CREOSOTE)



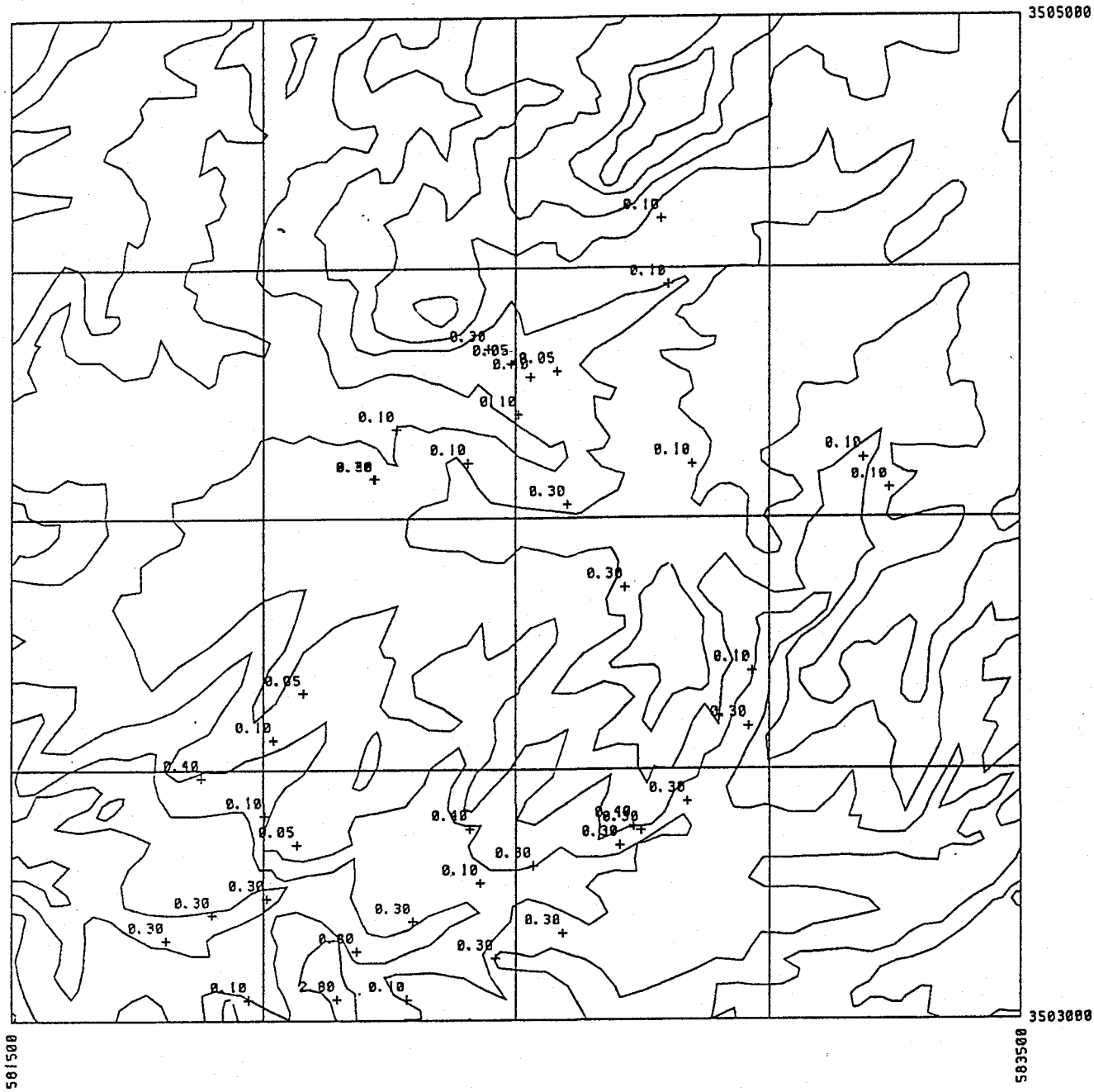
SAMPLE LOCATIONS - ROBBERS' ROOST



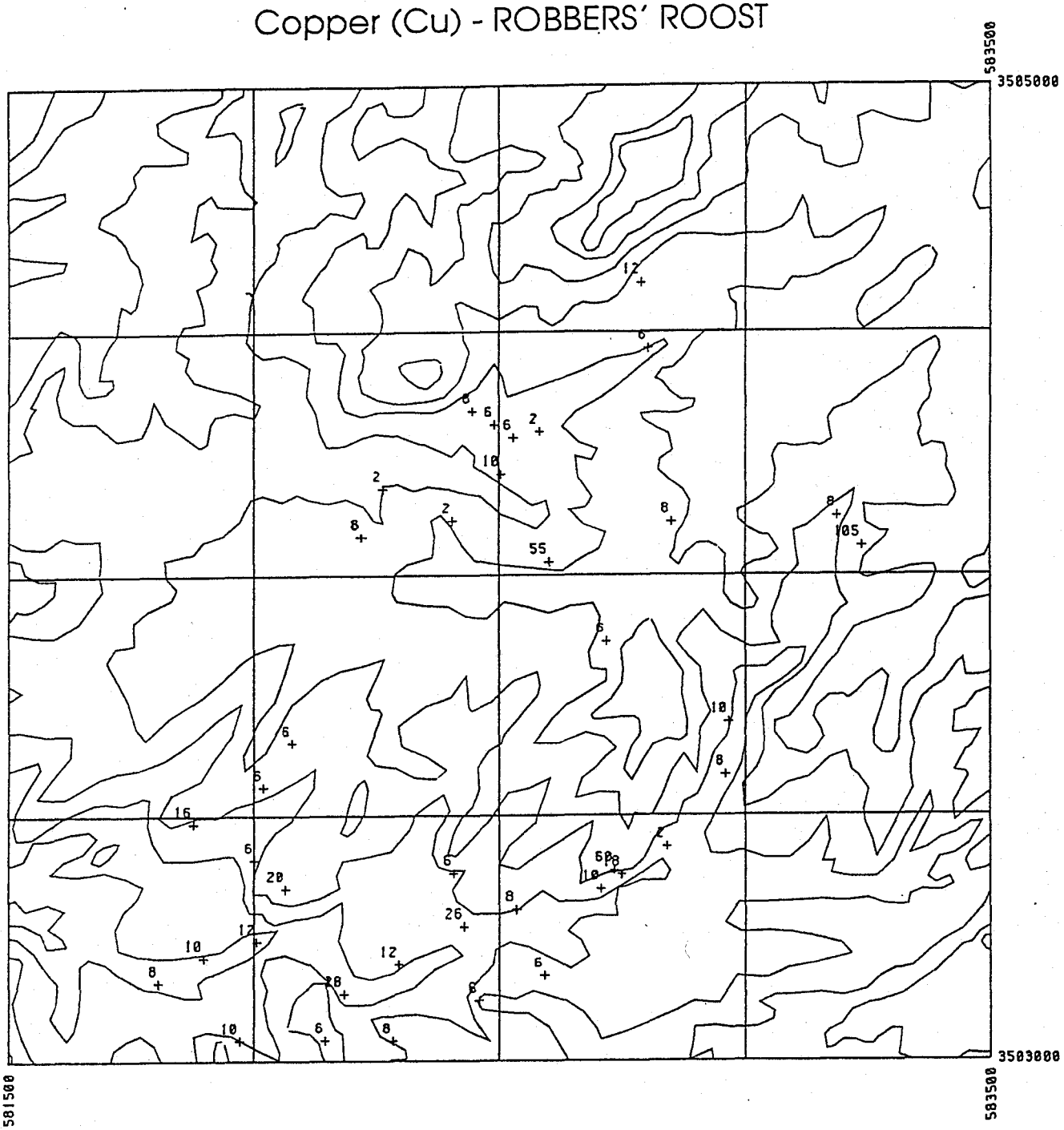
GOLD (Au) - ROBBERS' ROOST



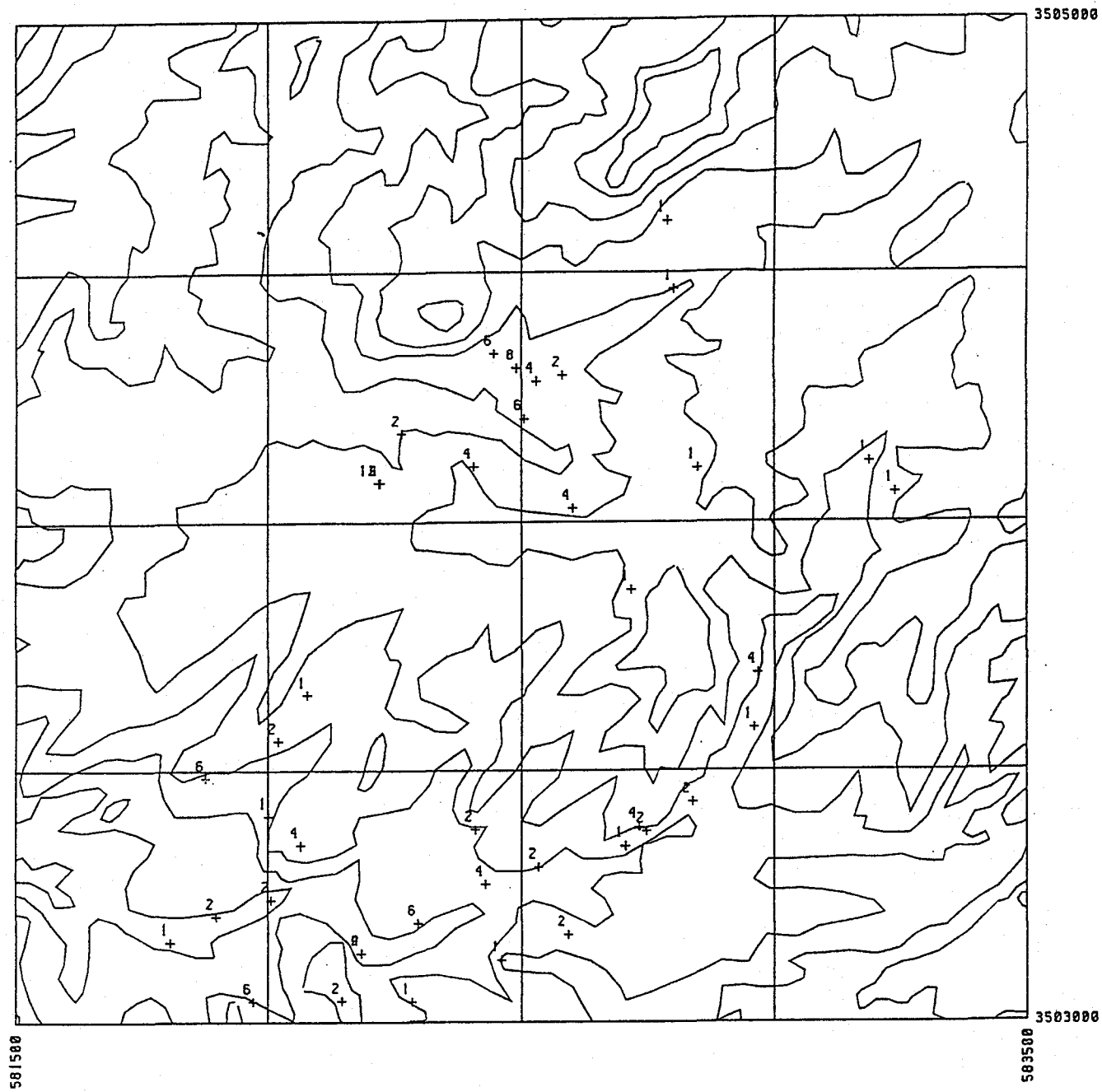
SILVER (Ag) - ROBBERS' ROOST



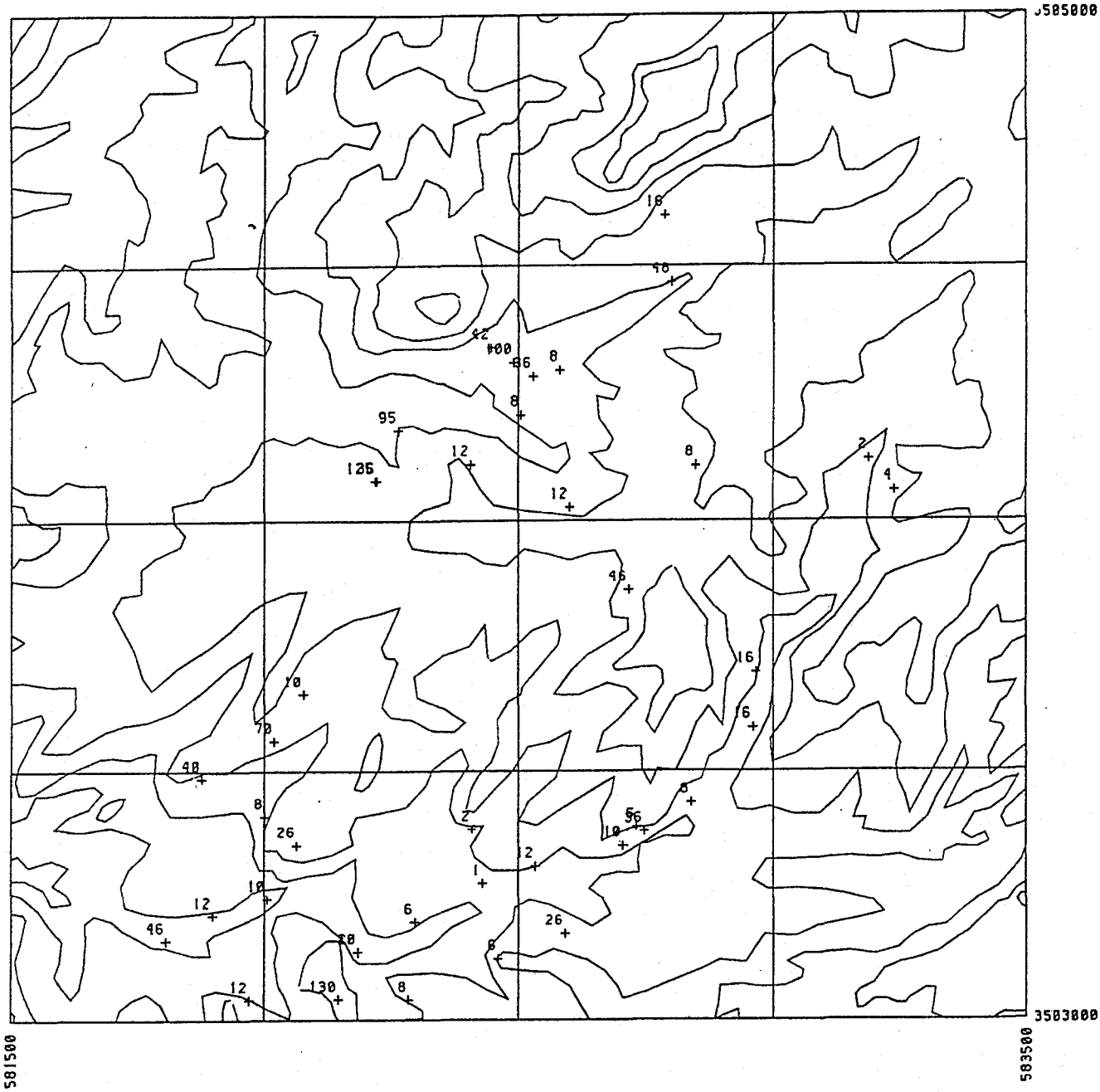
Copper (Cu) - ROBBERS' ROOST



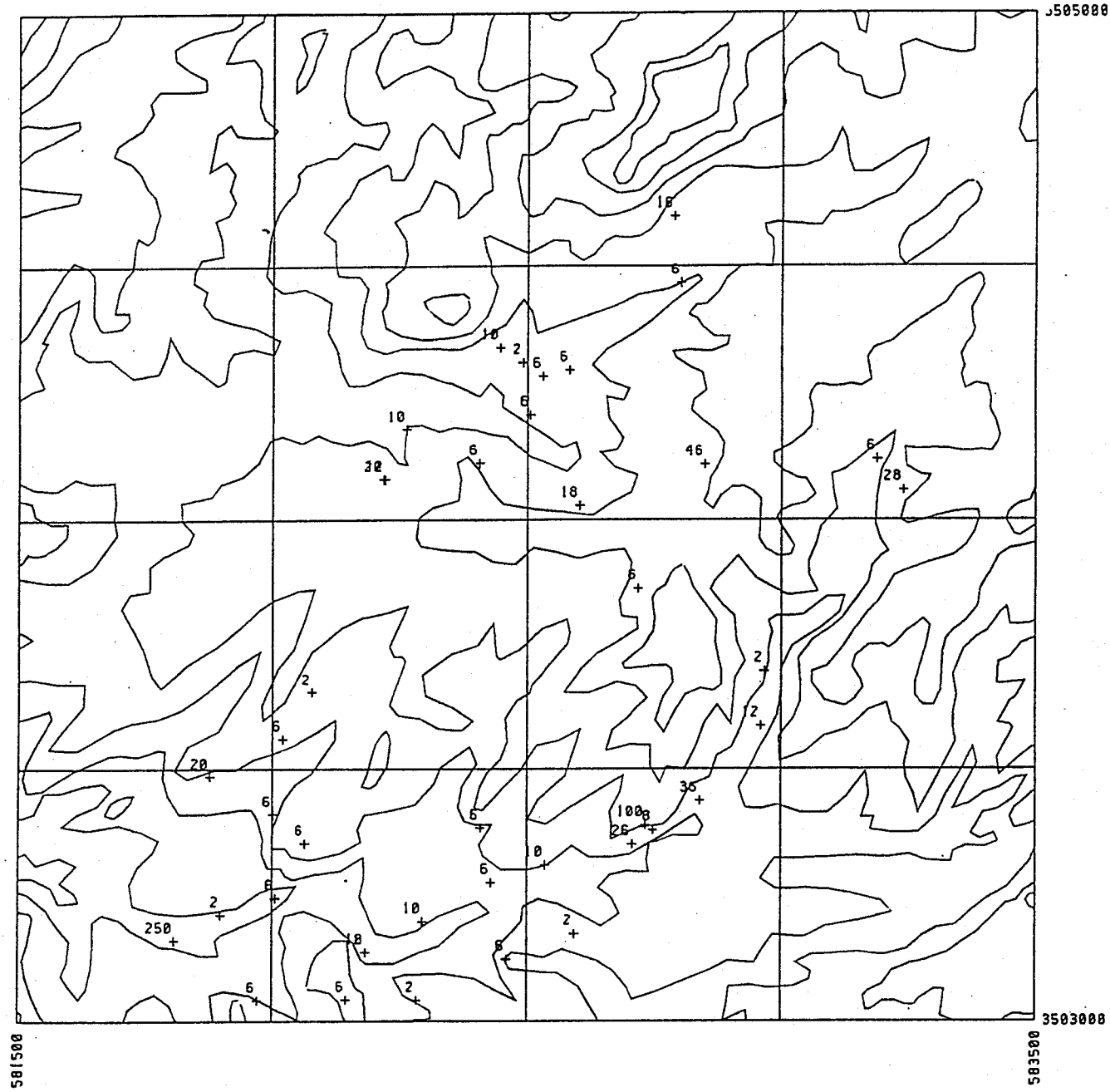
MOLYBDENUM (Mo) - ROBBERS' ROOST



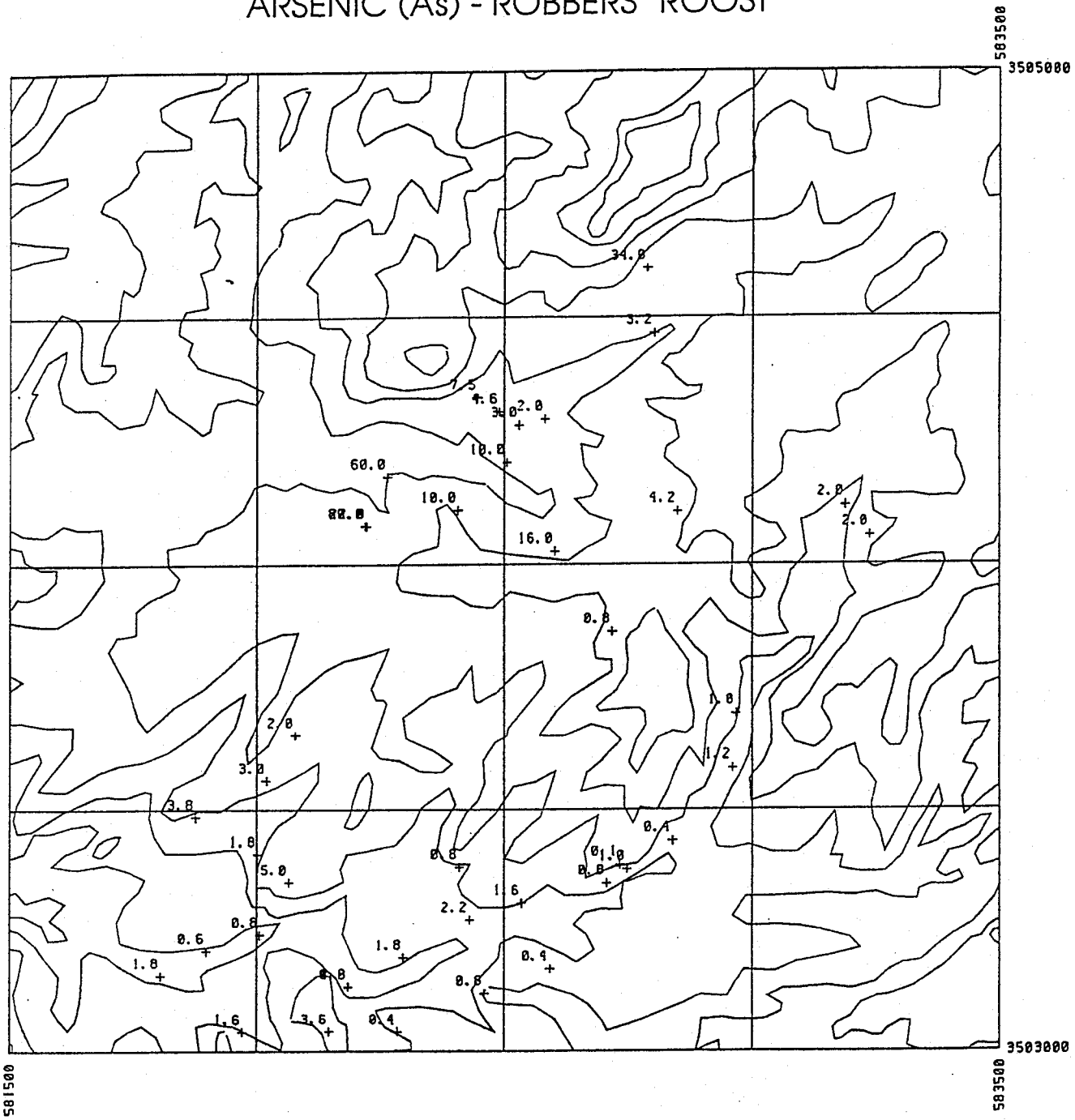
LEAD (Pb) - ROBBERS' ROOST



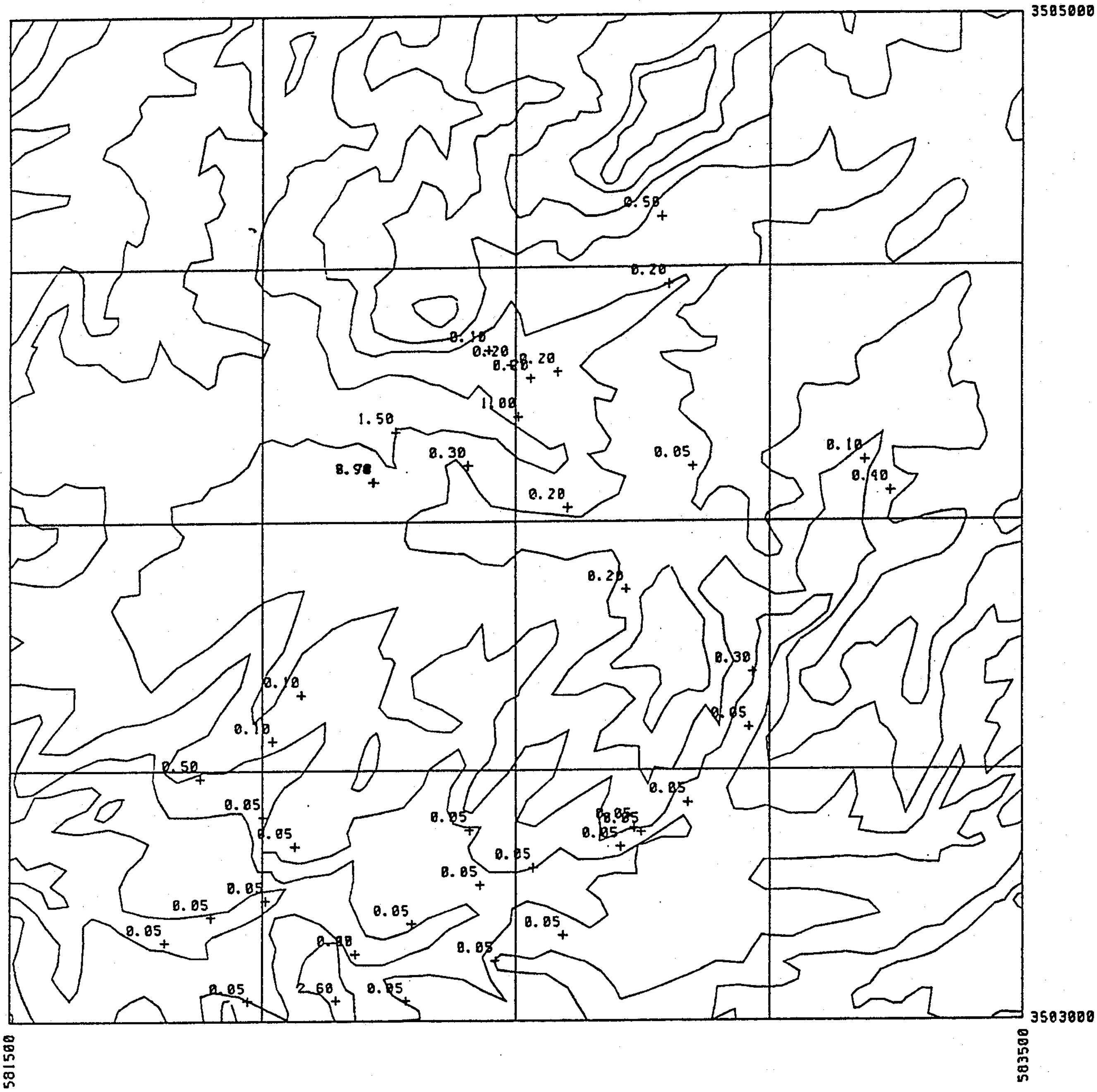
ZINC (Zn) - ROBBERS' ROOST



ARSENIC (As) - ROBBERS' ROOST

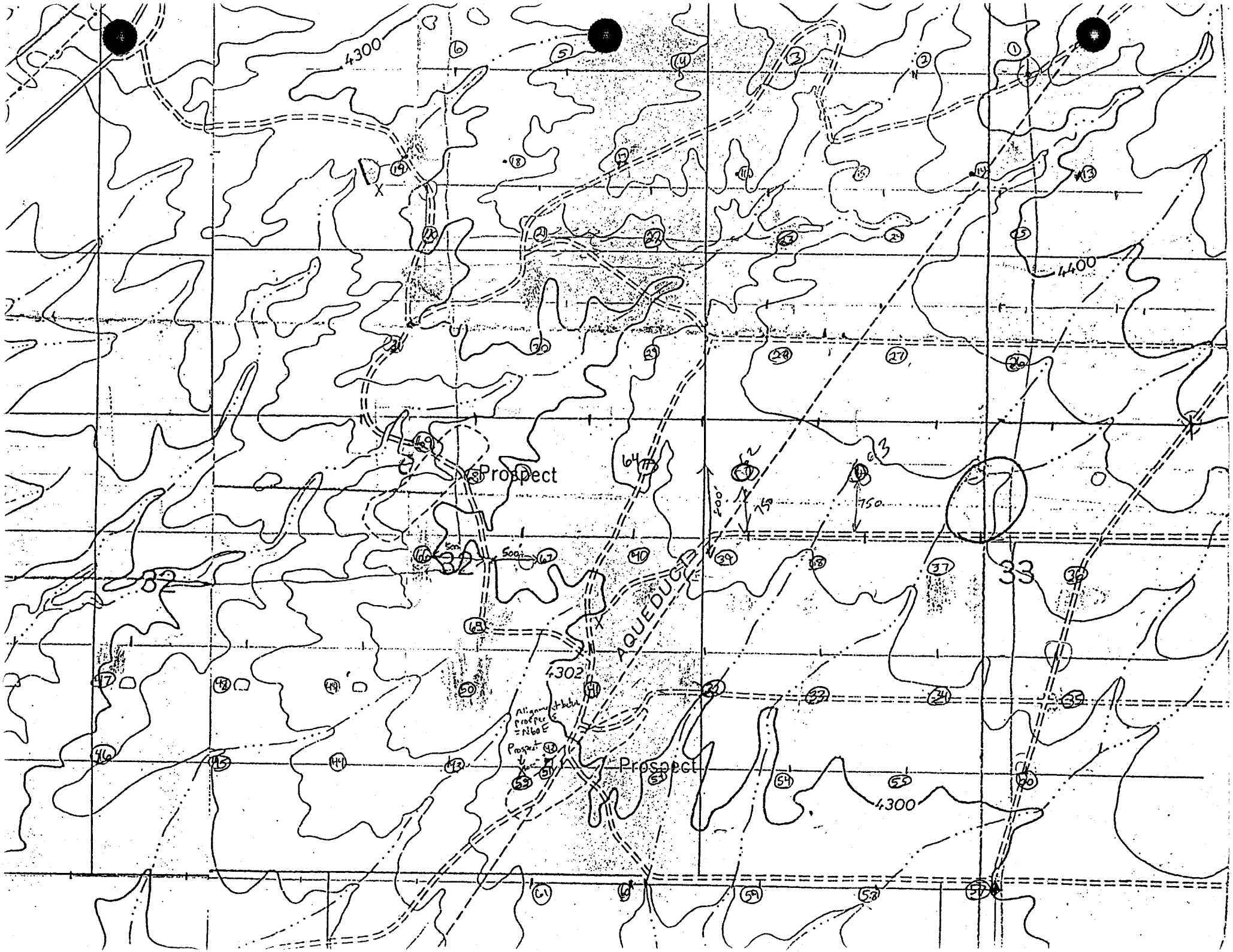


ANTIMONY (Sb)) - ROBBERS' ROOST



WIE073	EASTING	NORTHING	Au(ppm)	Ag(ppm)	As(ppm)	Sb(ppm)	Cu(ppm)	Pb(ppm)	Zn(ppm)
RR-1	582746.7	3503378	0.004	0.3	1	0.05	18	36	8
RR-2	582732	3503387	0.002	0.4	0.1	0.05	60	6	100
RR-3	582705.5	3503349	0.004	0.3	0.8	0.05	10	10	26
RR-4	582534.4	3503308	0.004	0.3	1.6	0.05	8	12	10
RR-5	582408.7	3503382	0.001	0.4	0.8	0.05	6	2	6
RR-6	582429.2	3503274	0.001	0.1	2.2	0.05	26	1	6
RR-7	582296.4	3503197	0.002	0.3	1.8	0.05	12	6	10
RR-8	582184.8	3503137	0.001	0.4	0.8	0.05	18	16	8
RR-8A	582184.8	3503137	0.001	0.3	4.2	0.4	22	20	12
RR-9	582006.2	3503244	0.001	0.3	0.8	0.05	12	10	6
RR-10	581898.3	3503211	0.001	0.3	0.6	0.05	10	12	2
RR-11	581806.5	3503160	0.001	0.3	1.8	0.05	8	46	250
RR-12	581971.1	3503041	0.001	0.1	1.6	0.05	10	12	6
RR-13	582147	3503042	0.001	2.8	3.6	2.6	6	130	6
RR-14	582284.7	3503041	0.001	0.1	0.4	0.05	8	8	2
RR-15	582459.7	3503123	0.001	0.3	0.8	0.05	6	6	6
RR-16	582592.4	3503173	0.001	0.3	0.4	0.05	6	26	2
RR-17	582838.6	3503436	0.001	0.3	0.4	0.05	2	8	36
RR-18	582959.7	3503585	0.001	0.3	1.2	0.05	8	16	12
RR-19	582966.4	3503696	0.001	0.1	1	0.3	10	16	2
RR-20	583188.7	3504119	0.002	0.1	2	0.1	8	2	6
RR-21	583239.4	3504058	0.002	0.1	2	0.4	105	4	28
RR-22	582787	3504599	0.001	0.1	34	0.5	12	16	16
RR-23	582801	3504467	0.001	0.1	3.2	0.2	6	48	6
RR-24	582582.3	3504294	0.001	0.05	2	0.2	2	8	6
RR-25	582504.9	3504207	0.004	0.1	10	1	10	8	6
RR-26	582529.5	3504282	0.001	0.4	3	0.2	6	36	6
RR-27	582490.5	3504309	0.001	0.05	4.6	0.2	6	100	2
RR-28	582446.1	3504338	0.001	0.3	7.5	0.1	8	42	10
RR-29	582264.6	3504178	0.11	0.1	60	1.5	2	95	10
RR-30	582406.3	3504111	0.001	0.1	10	0.3	2	12	6
RR-31	582222.3	3504079	0.001	0.4	22	0.7	6	36	12
RR-32	582219.6	3504079	0.18	0.3	80	3.9	8	125	20
RR-33	582602.1	3504027	0.001	0.3	16	0.2	55	12	18
RR-34	582001.4	3503409	0.001	0.1	1.8	0.05	6	8	6
RR-35	581876.9	3503485	0.001	0.4	3.8	0.5	16	40	20
RR-36	582065.6	3503351	0.001	0.05	5	0.05	20	26	6
RR-37	582020.2	3503560	0.001	0.1	3	0.1	6	70	6
RR-38	582078.6	3503653	0.001	0.05	2	0.1	6	10	2
RR-39	582848.4	3504108	0.001	0.1	4.2	0.05	8	8	46
RR-40	582716.6	3503862	0.001	0.3	0.8	0.2	6	46	6

Mo(ppm)
2
4
1
2
2
4
6
4
2
2
2
1
6
2
1
1
2
2
1
4
1
1
1
1
2
6
4
8
6
2
4
4
12
4
1
6
4
2
1
1
1


4300
4400
Prospect
Prospect
AQUEDUCT
4302
4300
32
33
82
500
750
400

Tombstone Sp.

CHEMICAL & MINERALOGICAL SERVICES · 445 WEST 2700 SOUTH · SALT LAKE CITY, UTAH 84115 · (801) 485-0711

ANALYTICAL REPORT FOR:

BHP UTAH INTERNATIONAL
D. SPATZ
5330 SOUTH 900 EAST
SALT LAKE CITY, UTAH 84117

Invoice # 23727
Date 10/11/91
Customer #

Sample #	Au ppb	Ag ppm	As ppm	Sb ppm	Ba ppb	Cu ppm	Pb ppm	Zn ppm	Mo ppm
SBA-1	15	.6	8.2	.5	70	412.1	37.9	3.3	75.4
SBA-2	5	.7	20.9	1.0	< 20	103.8	130.6	5.2	34.4
SBA-3	4	.3	5.3	.3	< 20	238.1	70.0	321.7	2.7
SBA-4	2	< .1	1.6	.1	< 20	1134.7	10.5	959.9	1.3
SBA-5	5	1.0	9.5	.3	20	76.8	55.0	30.0	217.9
SBA-6	35	1.5	11.7	.4	25	183.5	25.3	12,5	390.9
SBA-7	< 2	< .1	2.0	.1	< 20	46.4	17.5	40.4	5.2
SLO- 1	75	.2	24.8	46.5	3250	16.6	145.0	29.8	16.9
SLO- 2	12	2.6	47.9	2.9	210	148.9	109.6	236.9	28.7
SLO- 3	12	.1	201.7	22.3	650	42.7	1192.9	6.8	6.4
SLO- 4	2	5.6	91.9	27.1	19750	35.6	601.1	7.9	52.7
SLO- 5	4	3.5	26.1	15.5	2130	35.8	185.9	11.7	9.0
SLO- 6	< 2	1.6	21.2	15.1	820	287.5	713.6	140.6	6.2
SLO- 7	990	135.0	109.4	13.0	420	8360.0	2290.5	112.1	54.8
SLO- 8	220	16.0	10.8	3.5	570	2061.4	15410.0	14500.0	28.3
SLO- 9	4	< .1	3.7	1.1	170	50.3	119.2	97.5	3.4
SLO-10	5	.1	3.0	.3	60	55.9	120.5	95.8	2.8
STO-1	60	113.0	376.8	418.1	1140	1270.8	7663.5	13390.0	10.9
STO-2	20	10.1	148.4	19.5	120	163.9	260.5	938.5	27.2
SRI-1	< 2	< .1	5.8	.7	110	23.1	13.2	948.0	1.6
SRI-2	6	.4	2.9	.6	60	65.9	5.3	101.3	2.8

Your Consulting Chemist

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

Robber's Roost
Tombstone

JOB NUMBER WIE 040
July 23, 1993
PROJECT NO: 3014
RR 1-15

BHP MINERALS
Attn: Dr. David Spatz
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 15 Rock Chip Samples

ITEM	SAMPLE NO.	Au (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)
1	RR-1	< .005	.1	4.0	.2	.06	10.	28.	8.
2	RR-2	< .005	.1	55.0	1.6	.06	26.	115.	6.
3	RR-3	< .005	< .1	3.0	.4	.06	8.	12.	6.
4	RR-4	.010	< .1	3.2	< .1	.03	32.	16.	6.
5	RR-5	< .005	< .1	1.2	< .1	.02	8.	28.	8.
6	RR-6	< .005	< .1	1.4	< .1	.02	6.	40.	6.
7	RR-7	< .005	< .1	2.2	< .1	.02	8.	90.	10.
8	RR-8	< .005	.1	1.2	< .1	.06	16.	28.	10.
9	RR-9	< .005	.1	1.0	< .1	.02	28.	16.	10.
10	RR-10	.020	110.0	90.0	265.0	.10	620.	2750.	1050.
11	RR-11	< .005	.5	30.0	19.0	.10	28.	1100.	130.
12	RR-12	.300	19.0	355.0	115.0	.36	1100.	14500.	23500.
13	RR-13	.085	155.0	200.0	290.0	.20	570.	7300.	9850.
14	RR-14	.035	12.0	125.0	46.0	.09	145.	3800.	1100.
15	RR-15	2.500	68.0	290.0	390.0	.29	2900.	21500.	21500.

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE 040
July 23, 1993
RR 1-15

BHP MINERALS
Attn: Dr. David Spatz
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 15 Rock Chip Samples

ITEM	SAMPLE NO.	Mo (ppm)	Bi (ppm)	Ni (ppm)	Te (ppm)	Se (ppm)	Mn (ppm)	Cr (ppm)	Ba (ppm)
1	RR-1	< 2.	1.1	< 2.	1.0	.8	190.	90.	1100.
2	RR-2	8.	4.4	< 2.	3.8	1.4	190.	80.	1050.
3	RR-3	4.	.1	< 2.	.1	.1	70.	200.	2300.
4	RR-4	4.	.6	< 2.	.1	1.0	110.	150.	1950.
5	RR-5	4.	.1	< 2.	< .1	.3	130.	230.	1250.
6	RR-6	2.	< .1	< 2.	< .1	.5	130.	240.	1150.
7	RR-7	2.	.1	< 2.	.1	.1	110.	200.	1050.
8	RR-8	6.	.3	< 2.	.1	.6	60.	220.	490.
9	RR-9	6.	.2	< 2.	.1	.4	340.	200.	820.
10	RR-10	1400.	9.5	2.	3.6	2.6	210.	230.	1100.
11	RR-11	32.	2.4	< 2.	1.4	1.1	150.	290.	410.
12	RR-12	6.	2.3	< 2.	1.9	1.6	410.	190.	190.
13	RR-13	16.	< .1	8.	4.6	3.7	49500.	130.	50.
14	RR-14	14.	.1	6.	1.0	2.0	580.	320.	5550.
15	RR-15	170.	< .1	16.	3.8	.6	2600.	250.	1750.

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

ACTLABS ACTIVATION LABORATORIES LTD

Invoice No.: 5270
Work Order: 5337
Invoice Date: 30-JUL-93
Date Submitted: 16-JUL-93
Your Reference: LETTER
Account Number: 722

P MINERALS
41 E, FORT LOWELL RD
21
CSON, ARIZONA
712 USA
TENTION: DAVID SPATZ

CERTIFICATE OF ANALYSIS

AA package, elements and detection limits:

J	2.	PPB	AG	5.	PPM	AS	0.5	PPM	BA	50.	PPM
R	0.5	PPM	CA	1.	%	CO	1.	PPM	CR	5.	PPM
S	1.	PPM	FE	0.01	%	HF	1.	PPM	HG	1.	PPM
R	5.	PPB	MO	1.	PPM	NA	0.01	%	NI	20.	PPM
B	5.	PPM	SB	0.1	PPM	SC	0.1	PPM	SE	5.	PPM
N	100.	PPM	SR	500.	PPM	TA	0.5	PPM	TH	0.2	PPM
	0.5	PPM	W	1.	PPM	ZN	50.	PPM	LA	0.5	PPM
E	3.	PPM	ND	5.	PPM	SM	0.1	PPM	EU	0.2	PPM
B	0.5	PPM	YB	0.2	PPM	LU	0.05	PPM			

EPORT 5270B -TOTAL DIGESTION -ICP

CERTIFIED BY :

per DR. ERIC L. HOFFMAN

1336 SANDHILL DRIVE, ANCASTER, ONTARIO, CANADA L9G 4V5 • TEL: 416-648-9611 • FAX: 416-648-9613

Activation Laboratories Ltd. Work Order: 5337 Report: 5270

Sample description	AU PPB	AG PPM	AS PPM	BA PPM	BR PPM	CA %	CO PPM	CR PPM	CS PPM	FE %	HF PPM	HG PPM	IR PPB	MO PPM	NA %	NI PPM	RB PPM	SB PPM	SC PPM	SE PPM	SN PPM	SR PPM	TA PPM	TH PPM
RRDC-390	15	<5	1.4	1500	<0.5	<1	8	55	2	4.56	4	<1	<5	5	1.92	<28	120	<0.1	15	<3	<100	<500	<0.5	6.5
RRDC-1560	16	<5	1.5	610	1.4	3	4	32	2	6.10	4	<1	<5	9	2.39	<28	66	<0.1	7.9	<3	<100	<500	<0.5	7.3
RRDC-2140	13	<5	1.4	930	1.8	2	7	28	2	3.28	4	<1	<5	4	1.91	<26	89	<0.1	4.9	<3	<100	1500	2.4	9.7
RRDC-2159	16	<5	0.6	1000	0.9	3	19	29	<1	6.62	4	<1	<5	5	0.45	<20	98	0.1	6.2	3	<100	<500	<0.5	5.0
RRDC-3358	21	<5	1.9	880	<0.5	4	7	49	3	2.76	4	<1	<5	6	2.72	<32	130	<0.1	6.6	<3	<100	<500	<0.5	10
RRDC-2-2981	<2	<5	1.4	810	<0.5	3	10	18	6	3.32	5	<1	<5	2	2.78	<29	100	<0.1	6.0	<3	<100	<500	<0.5	8.7
RRDC-3-1020	28	<5	<0.5	1100	<0.5	2	22	25	3	7.11	5	<1	<5	14	0.32	<20	110	0.1	7.3	<3	<100	<500	<0.5	7.7

Activation Laboratories Ltd. Work Order: 5337 Report: 5270

Sample description	U PPM	W PPM	ZN PPM	LA PPM	CE PPM	ND PPM	SM PPM	EU PPM	TB PPM	YB PPM	LU PPM	Mass g
RRDC-390	1.5	<1	135	24	46	19	3.3	1.2	<0.5	1.4	0.16	31.86
RRDC-1560	2.9	<1	<50	27	42	22	3.4	1.1	<0.5	1.4	0.18	34.26
RRDC-2140	1.8	<1	74	26	44	17	3.1	1.0	<0.5	1.0	0.19	30.82
RRDC-2159	1.0	2	<50	21	40	17	3.1	1.0	<0.5	1.0	0.17	38.69
RRDC-3358	<0.5	<1	97	31	52	16	3.3	1.0	<0.5	0.9	0.13	27.29
RRDC-2-2981	1.6	<1	80	26	49	22	3.8	1.0	0.7	1.2	0.20	34.50
RRDC-3-1020	2.2	3	82	40	67	25	4.4	1.4	<0.5	1.3	0.21	30.20

Activation Laboratories Ltd. Work Order: 5337 Report: 5270B

Sample description	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	MN PPM	SR PPM	CD PPM	BI PPM	V PPM	CA %	P %	MG %	TI %	AL %	K %	Y PPM	BE PPM
RRDC-390	413.	38.	102.	<0.4	21.	428.	55.	<0.5	<5.	90.	0.25	0.088	2.13	0.16	8.04	2.54	8.	<2.
RRDC-1560	589.	<5.	49.	<0.4	19.	230.	390.	<0.5	<5.	68.	3.22	0.077	1.71	0.14	7.39	1.67	8.	<2.
RRDC-2140	1245.	<5.	15.	<0.4	13.	41.	438.	<0.5	<5.	49.	2.83	0.061	1.06	0.10	7.08	2.42	7.	<2.
RRDC-2159	552.	<5.	8.	<0.4	18.	28.	530.	<0.5	<5.	66.	3.12	0.067	0.99	0.09	6.99	3.13	8.	<2.
RRDC-3358	1029.	15.	39.	<0.4	16.	169.	472.	0.5	<5.	49.	2.61	0.066	1.06	0.20	7.17	3.11	8.	<2.
RRDC-2-2981	10.	32.	31.	<0.4	10.	219.	472.	<0.5	<5.	58.	3.28	0.098	1.24	0.28	7.04	2.26	11.	<2.
RRDC-3-1020	125.	16.	69.	<0.4	14.	680.	81.	<0.5	<5.	56.	1.30	0.085	0.85	0.07	7.59	3.10	12.	<2.

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE 073A
June 3, 1994
RR 1-40, UNMARKED BAG

BHP MINERALS
Attn: Mr. Jim Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 41 Rock Chip Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Br (ppm)
1	RR-1	.004	.3	1.0	< .1	18.	36.	8.	2.	< 2.
2	RR-2	.002	.4	< .2	< .1	60.	6.	100.	4.	< 2.
3	RR-3	.004	.3	.8	< .1	10.	10.	26.	< 2.	< 2.
4	RR-4	.004	.3	1.6	< .1	8.	12.	10.	2.	< 2.
5	RR-5	< .002	.4	.8	< .1	6.	2.	6.	2.	< 2.
6	RR-6	< .002	.1	2.2	< .1	26.	< 2.	6.	4.	< 2.
7	RR-7	.002	.3	1.8	< .1	12.	6.	10.	6.	< 2.
8	RR-8	< .002	.4	.8	< .1	18.	16.	8.	4.	< 2.
9	RR-8A	< .002	.3	4.2	.4	22.	20.	12.	2.	< 2.
10	RR-9	< .002	.3	.8	< .1	12.	10.	6.	2.	< 2.
11	RR-10	< .002	.3	.6	< .1	10.	12.	2.	2.	< 2.
12	RR-11	< .002	.3	1.8	< .1	8.	46.	250.	< 2.	< 2.
13	RR-12	< .002	.1	1.6	< .1	10.	12.	6.	6.	< 2.
14	RR-13	< .002	2.8	3.6	2.6	6.	130.	6.	2.	< 2.
15	RR-14	< .002	.1	.4	< .1	8.	8.	2.	< 2.	< 2.
16	RR-15	< .002	.3	.8	< .1	6.	6.	6.	< 2.	< 2.
17	RR-16	< .002	.3	.4	< .1	6.	26.	2.	2.	< 2.
18	RR-17	< .002	.3	.4	< .1	2.	8.	36.	2.	< 2.
19	RR-18	< .002	.3	1.2	< .1	8.	16.	12.	< 2.	< 2.
20	RR-19	< .002	.1	1.0	.3	10.	16.	2.	4.	< 2.
21	RR-20	.002	.1	2.0	.1	8.	2.	6.	< 2.	< 2.
22	RR-21 **	.000	.0	0.0	.0	0.	0.	0.	0.	0.
23	RR-22	< .002	.1	34.0	.5	12.	16.	16.	< 2.	2.
24	RR-23	< .002	.1	3.2	.2	6.	48.	6.	< 2.	< 2.
25	RR-24	< .002	< .1	2.0	.2	2.	8.	6.	2.	< 2.

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

ORTELINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. Jim Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 41 Rock Chip Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Br (ppm)
26	RR-25	.004	.1	10.0	1.0	10.	8.	6.	6.	2.
27	RR-26	< .002	.4	3.0	.2	6.	36.	6.	4.	< 2.
28	RR-27	< .002	< .1	4.6	.2	6.	100.	2.	8.	< 2.
29	RR-28	< .002	.3	7.5	.1	8.	42.	10.	6.	< 2.
30	RR-29	.110	.1	60.0	1.5	2.	95.	10.	2.	< 2.
31	RR-30	< .002	.1	10.0	.3	2.	12.	6.	4.	< 2.
32	RR-31	.002	.4	22.0	.7	6.	36.	12.	4.	< 2.
33	RR-32	.180	.3	80.0	3.9	8.	125.	20.	12.	< 2.
34	RR-33	< .002	.3	16.0	.2	55.	12.	18.	4.	< 2.
35	RR-34	< .002	.1	1.8	< .1	6.	8.	6.	< 2.	< 2.
36	RR-35	< .002	.4	3.8	.5	16.	40.	20.	6.	< 2.
37	RR-36	< .002	< .1	5.0	< .1	20.	26.	6.	4.	2.
38	RR-37	< .002	.1	3.0	.1	6.	70.	6.	2.	< 2.
39	RR-38	< .002	< .1	2.0	.1	6.	10.	2.	< 2.	< 2.
40	RR-39	< .002	.1	4.2	< .1	8.	8.	46.	< 2.	< 2.
41	RR-40	< .002	.3	.8	.2	6.	46.	6.	< 2.	< 2.
42	UNMARKED BAG	.002	.1	2.0	.4	105.	4.	28.	< 2.	< 2.

*NOTE: Method of analysis by combination fire assay and atomic absorption.

**NOTE: Sample not received.

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A9621019

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9621019

(MTU) - KENNECOTT EXPLORATION

Project: 645-5515-P3133
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 26-JUN-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	18	Geochem ring to approx 150 mesh
226	18	0-3 Kg crush and split
3204	18	Save 1 Kg reject for 90 days
229	18	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	18	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	18	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	18	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	18	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	18	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	18	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	18	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	18	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	18	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	18	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	18	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	18	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	18	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	18	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	18	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	18	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	18	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	18	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	18	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	18	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	18	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	18	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	18	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	18	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	18	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	18	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	18	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	18	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	18	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	18	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	18	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	18	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	18	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3133
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1-A
Total Pages :1
Certificate Date: 26-JUN-96
Invoice No. :19621019
P.O. Number :
Account :MTU

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9621019

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
SL 54689C	205	226	40	3.4	0.74	350	140	< 0.5	< 2	2.42	0.5	1	31	38	2.63	< 10	< 1	0.37	10	0.14	4040
SL 54690C	205	226	< 5	0.2	1.66	6	120	< 0.5	< 2	7.15	< 0.5	7	19	30	1.78	< 10	< 1	0.09	< 10	1.25	735
SL 54691C	205	226	90	187.0	0.16	1085	130	0.5	Intf*	0.27	55.5	7	149	>10000	1.87	< 10	1	0.10	< 10	0.03	7660
SL 54692C	205	226	< 5	0.6	2.20	6	110	< 0.5	< 2	1.79	< 0.5	13	8	64	3.83	< 10	< 1	0.16	10	1.25	690
SL 54693C	205	226	1710	40.0	0.11	180	1990	< 0.5	4	3.64	>100.0	9	23	588	2.54	< 10	< 1	0.04	< 10	0.04	>10000
SL 54694C	205	226	< 5	1.0	1.01	6	220	< 0.5	< 2	6.44	0.5	4	24	37	1.70	< 10	< 1	0.10	20	0.37	895
SL 54695C	205	226	< 5	0.2	2.96	2	560	< 0.5	< 2	2.21	0.5	16	10	35	4.67	< 10	< 1	0.09	10	2.02	910
SL 54696C	205	226	160	184.5	0.34	208	460	< 0.5	< 2	0.76	17.0	1	138	242	1.99	< 10	1	0.16	< 10	0.07	250
SL 56156C	205	226	< 5	0.4	0.28	< 2	270	< 0.5	< 2	0.40	< 0.5	2	30	13	4.43	< 10	< 1	0.09	< 10	0.04	155
SL 56157C	205	226	< 5	0.8	0.51	< 2	350	< 0.5	< 2	0.10	< 0.5	< 1	126	28	1.39	< 10	< 1	0.04	< 10	0.02	40
SL 56158C	205	226	< 5	0.2	1.83	2	90	< 0.5	< 2	6.61	< 0.5	4	26	16	1.76	< 10	< 1	0.12	10	1.18	750
SL 56159C	205	226	90	0.2	0.97	1540	170	0.5	< 2	0.59	< 0.5	3	11	17	4.49	< 10	< 1	0.41	30	0.07	585
SL 56160C	205	226	15	24.8	0.23	16	30	< 0.5	14	5.45	24.5	2	15	62	2.86	< 10	< 1	0.13	< 10	0.05	>10000
SL 56161C	205	226	20	27.6	1.14	134	400	1.5	< 2	1.48	5.5	13	8	88	3.59	< 10	< 1	0.55	10	0.15	>10000
SL 56162C	205	226	10	0.4	0.41	28	320	< 0.5	< 2	0.28	< 0.5	< 1	12	30	1.06	< 10	< 1	0.18	20	0.04	410
SL 56163C	205	226	120	0.2	1.34	270	100	0.5	< 2	0.31	< 0.5	3	22	17	1.25	< 10	< 1	0.23	10	0.52	380
SL 56164C	205	226	< 5	< 0.2	2.52	< 2	230	< 0.5	< 2	0.53	< 0.5	8	8	6	2.55	< 10	< 1	0.13	20	1.92	200
SL 56165C	205	226	< 5	1.0	0.34	8	130	< 0.5	< 2	0.23	< 0.5	5	128	19	1.29	< 10	< 1	0.16	10	0.10	1220

CERTIFICATION: Hart Bichler

* INTERFERENCE: Cu on Bi

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3133
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1-B
Total Pages :1
Certificate Date: 26-JUN-96
Invoice No. :I9621019
P.O. Number :
Account :MTU

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9621019

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
SL 54689C	205	226	1	0.01	2	180	348	20	2	78	< 0.01	< 10	< 10	48	< 10	110
SL 54690C	205	226	< 1	0.01	8	190	8	< 2	3	109	0.04	< 10	< 10	23	< 10	44
SL 54691C	205	226	16	0.01	5	100	>10000	4620	< 1	123	< 0.01	< 10	< 10	84	< 10	2060
SL 54692C	205	226	< 1	0.04	5	830	30	8	5	36	0.01	< 10	< 10	70	< 10	68
SL 54693C	205	226	157	< 0.01	3	130	>10000	54	1	56	< 0.01	< 10	< 10	24	< 10	>10000
SL 54694C	205	226	< 1	< 0.01	5	270	58	8	2	62	< 0.01	< 10	< 10	24	< 10	134
SL 54695C	205	226	< 1	0.05	7	1020	98	< 2	6	54	0.14	< 10	< 10	104	< 10	442
SL 54696C	205	226	47	< 0.01	3	310	2500	628	< 1	115	< 0.01	< 10	< 10	12	< 10	174
SL 56156C	205	226	2	0.01	1	70	46	< 2	< 1	30	< 0.01	< 10	< 10	16	< 10	104
SL 56157C	205	226	1	0.01	2	40	38	< 2	< 1	32	< 0.01	< 10	< 10	4	< 10	18
SL 56158C	205	226	3	< 0.01	4	150	18	< 2	3	79	< 0.01	< 10	< 10	17	< 10	64
SL 56159C	205	226	3	< 0.01	< 1	1640	10	10	1	212	< 0.01	< 10	< 10	72	< 10	160
SL 56160C	205	226	58	0.03	< 1	100	2190	26	< 1	440	< 0.01	< 10	< 10	1	< 10	3270
SL 56161C	205	226	7	0.02	8	240	390	14	4	506	< 0.01	< 10	< 10	29	< 10	1045
SL 56162C	205	226	< 1	0.02	1	510	22	< 2	< 1	19	< 0.01	< 10	< 10	7	< 10	36
SL 56163C	205	226	< 1	< 0.01	4	220	38	2	3	15	< 0.01	< 10	< 10	55	< 10	128
SL 56164C	205	226	< 1	< 0.01	3	170	4	< 2	3	18	< 0.01	< 10	< 10	14	< 10	50
SL 56165C	205	226	3	< 0.01	9	290	40	2	< 1	37	< 0.01	< 10	< 10	12	< 10	142

CERTIFICATION: Stuart Bichler

* INTERFERENCE: Cu on Bi

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A9621166

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9621166

(MTU) - KENNECOTT EXPLORATION

Project: 645-5515-P3144
P.O.# : 645-5515-P3144

Samples submitted to our lab in Tucson, AZ
This report was printed on 27-JUN-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	4	Geochem ring to approx 150 mesh
226	4	0-3 Kg crush and split
3204	4	Save 1 Kg reject for 90 days
229	4	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	4	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	4	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	4	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	4	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	4	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	4	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	4	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	4	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	4	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	4	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	4	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	4	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	4	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	4	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	4	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	4	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	4	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	4	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	4	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	4	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	4	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	4	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	4	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	4	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	4	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	4	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	4	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	4	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	4	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	4	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	4	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	4	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	4	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000
20	1	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3144
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Certificate Date: 27-JUN-96
Invoice No. :I9621166
P.O. Number :645-5515-P3
Account :MTU

CERTIFICATE OF ANALYSIS A9621166

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
54697C	205	226	< 5	< 0.2	1.01	8	510	0.5	< 2	0.21	< 0.5	2	66	8	1.63	< 10	< 1	0.46	30	0.11	625
54698C	205	226	< 5	< 0.2	0.81	22	310	< 0.5	< 2	0.21	< 0.5	< 1	59	10	1.38	< 10	< 1	0.39	30	0.06	25
54699C	205	226	< 5	< 0.2	0.71	30	240	< 0.5	< 2	0.18	< 0.5	1	103	5	1.90	< 10	< 1	0.38	10	0.05	80
54700C	205	226	30	1.6	0.18	6	370	< 0.5	< 2	0.02	< 0.5	< 1	169	10	2.09	< 10	< 1	0.06	< 10	0.01	25

CERTIFICATION: Stewart Buchler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3144
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1-B
Total Pages :1
Certificate Date: 27-JUN-96
Invoice No. :19621166
P.O. Number :645-5515-P
Account :MTU

CERTIFICATE OF ANALYSIS A9621166

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Hg ppb
54697C	205	226	< 1	0.08	2	570	16	< 2	1	30	< 0.01	< 10	< 10	12	< 10	96	-----
54698C	205	226	7	0.02	1	480	12	< 2	< 1	62	< 0.01	< 10	< 10	5	< 10	26	-----
54699C	205	226	19	< 0.01	2	330	14	< 2	< 1	69	< 0.01	< 10	< 10	15	< 10	34	-----
54700C	205	226	24	< 0.01	3	120	138	< 2	< 1	22	< 0.01	< 10	< 10	8	< 10	8	140

CERTIFICATION: Stuart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A9621668

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9621668

(MTU) - KENNECOTT EXPLORATION

Project: 645-5515-P3133
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 25-JUN-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
312	1	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3133
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1
Total Pages :1
Certificate Date: 25-JUN-96
Invoice No. : I9621668
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9621668

SAMPLE	PREP CODE		Pb %	Zn %								
SL 56681C	244	--	5.92	1.85								

CERTIFICATION: Stuart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A9620137

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9620137

MTU) - KENNECOTT EXPLORATION

Project: TS
P.O. # : 615-1-5515-TS

Samples submitted to our lab in Tucson, AZ
This report was printed on 11-JUN-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	5	Geochem ring to approx 150 mesh
295	5	RUSH crush and split (0-3 Kg)
3204	5	Save 1 Kg reject for 90 days
229	5	ICP - AQ Digestion charge

NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	5	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	5	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	5	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	5	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	5	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	5	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	5	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	5	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	5	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	5	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	5	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	5	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	5	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	5	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	5	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	5	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	5	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	5	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	5	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	5	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	5	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	5	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	5	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	5	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	5	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	5	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	5	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	5	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	5	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	5	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	5	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	5	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	5	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : TS
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1-A
Total Pages :1
Certificate Date: 11-JUN-96
Invoice No. :I9620137
P.O. Number :615-1-5515-T
Account :MTU

CERTIFICATE OF ANALYSIS A9620137

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
54674C	205	295	< 5	0.6	0.95	32	220	0.5	< 2	0.96	< 0.5	5	68	8	1.77	< 10	< 1	0.43	30	0.11	1970
54675C	205	295	< 5	< 0.2	1.86	6	190	0.5	< 2	1.98	< 0.5	8	90	20	1.79	< 10	< 1	0.12	10	0.86	555
54676C	205	295	< 5	< 0.2	1.49	2	230	< 0.5	< 2	0.92	< 0.5	1	104	9	1.04	< 10	< 1	0.32	10	0.33	520
54677C	205	295	< 5	< 0.2	3.13	< 2	520	< 0.5	< 2	1.72	< 0.5	15	32	26	4.39	10	< 1	0.11	10	1.47	835
54678C	205	295	< 5	< 0.2	3.54	< 2	150	0.5	< 2	2.17	< 0.5	7	99	5	3.62	10	1	0.41	20	0.57	280

CERTIFICATION: Stuart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Page Number :1-B
Total Pages :1
Certificate Date: 11-JUN-96
Invoice :19620137
P.O. Number :615-1-5515-T
Account :MTU

Project : TS
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE OF ANALYSIS A9620137

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
54674C	205	295	5	0.04	1	590	14	< 2	1	36	< 0.01	< 10	< 10	14	< 10	52
54675C	205	295	1	0.02	12	570	18	< 2	4	98	0.17	< 10	< 10	45	< 10	64
54676C	205	295	1	0.14	1	590	14	< 2	< 1	60	0.03	< 10	< 10	5	< 10	52
54677C	205	295	< 1	0.29	3	1220	12	< 2	6	124	0.26	< 10	< 10	119	< 10	60
54678C	205	295	1	0.63	11	650	12	2	4	147	0.22	< 10	< 10	70	< 10	36

CERTIFICATION: Bart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A9622277

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9622277

(MTU) - KENNECOTT EXPLORATION

Project: 645-5515-P3133
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 2-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	1	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
312	2	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3133
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1
Total Pages :1
Certificate Date: 02-JUL-96
Invoice No. :19622277
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9622277

SAMPLE	PREP CODE	Cu %	Pb %	Zn %
SL 54691C	244 --	1.53	1.36	-----
SL 54693C	244 --	-----	2.68	11.60

CERTIFICATION: Hart Bichler

Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number 1
Total Pages 1
Certificate Date 09-JUL-96
Invoice No. I-9623083
P.O. Number :
Account :

CERTIFICATE OF ANALYSIS A9623083

SAMPLE DESCRIPTION	PREP CODE		MnO %									
63604 C	244	--	2.10									
56167 C	244	--	2.95									

CERTIFICATION: _____

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A962

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9623292

(MTU) - KENNECOTT EXPLORATION

Project: 615-1-5515-P3131
P.O.# :

Samples submitted to our lab in Tucson, AZ
This report was printed on 17-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	2	Assay ring to approx 150 mesh
226	2	0-3 Kg crush and split
3204	2	Save 1 Kg reject for 90 days
229	2	ICP - AQ Digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	2	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	2	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	2	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	2	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	2	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	2	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	2	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	2	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	2	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	2	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	2	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	2	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	2	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	2	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	2	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	2	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	2	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	2	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	2	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	2	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	2	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	2	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	2	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	2	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	2	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	2	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	2	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	2	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	2	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	2	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	2	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	2	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	2	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 615-1-5515-P3131
Comments: Attn/FAX; Joey Wilkins CC: Brian Corrigan

Page Number :1-A
Total Pages :1
Certificate Date: 17-JUL-9
Invoice No. :1962329
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9623292

	SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
22	63613C	208	226	< 5	< 0.2	1.46	< 2	90	0.5	< 2	0.29	< 0.5	8	78	10	2.59	< 10	< 1	0.42	20	0.79	435
16	63616C	208	226	40	187.5	0.46	282	140	< 0.5	2	0.04	2.5	1	167	45	1.18	< 10	< 1	0.27	< 10	0.03	205

CERTIFICATION: Stuart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 615-1-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Number :1-B
Total Pages :1
Certificate Date: 17-JUL-
Invoice No. :I96232
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9623292

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
63613C	208	226	1	0.07	13	260	10	< 2	7	11	0.11	< 10	< 10	47	< 10	60
63616C	208	226	19	< 0.01	3	70	1495	522	< 1	11	< 0.01	< 10	10	12	< 10	80

CERTIFICATION: Stuart Bichlmeier

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A962

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan and Nick Van Wyck

CERTIFICATE A9623293

(MTU) - KENNECOTT EXPLORATION

Project: 615-1-5515-P3131
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 17-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	7	Geochem ring to approx 150 mesh
226	7	0-3 Kg crush and split
3204	7	Save 1 Kg reject for 90 days
229	7	ICP - AQ Digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	7	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	7	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	7	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	7	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	7	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	7	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	7	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	7	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	7	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	7	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	7	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	7	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	7	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	7	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	7	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	7	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	7	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	7	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	7	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	7	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	7	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	7	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	7	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	7	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	7	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	7	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	7	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	7	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	7	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	7	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	7	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	7	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	7	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Page Number :1-A
Total Pages :1
Certificate Date: 17-JUL-96
Invoice No. :I9623293
P.O. Number :
Account :MTU

Project : 615-1-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan and Nick Van Wyck

CERTIFICATE OF ANALYSIS A9623293

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
56180C	205	226	685	87.0	0.04	266	230	< 0.5	< 2	2.52	84.0	7	154	1195	2.71	< 10	3	0.07	< 10	0.02	>10000
56181C	205	226	280	139.0	0.18	238	90	< 0.5	< 2	0.91	27.0	8	225	815	0.99	< 10	2	0.09	< 10	0.01	>10000
56182C	205	226	< 5	< 0.2	1.30	8	260	< 0.5	< 2	0.53	< 0.5	3	19	18	2.17	< 10	< 1	0.11	10	0.30	425
56183C	205	226	< 5	< 0.2	0.32	2	370	< 0.5	2	0.08	< 0.5	< 1	116	7	0.19	< 10	< 1	0.03	< 10	< 0.01	70
56184C	205	226	< 5	< 0.2	0.11	< 2	70	< 0.5	< 2	0.04	< 0.5	1	277	14	0.35	< 10	< 1	0.02	< 10	0.02	70
56185C	205	226	< 5	< 0.2	0.10	12	50	< 0.5	< 2	0.04	< 0.5	< 1	235	7	1.37	< 10	< 1	0.02	< 10	< 0.01	35
63620C	205	226	< 5	< 0.2	2.14	< 2	60	0.5	< 2	9.66	0.5	7	48	20	1.32	< 10	< 1	0.08	10	1.54	1225

CERTIFICATION: Ivan Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Page Number :1-B
Total Pages :1
Certificate Date: 17-JUL-
Invoice No. :196232
P.O. Number :
Account :MTU

Project : 615-1-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan and Nick Van Wyck

CERTIFICATE OF ANALYSIS A9623293

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
56180C	205	226	8	0.10	4	100	>10000	180	< 1	71	< 0.01	< 10	< 10	889	< 10	>10000
56181C	205	226	7	0.07	3	140	>10000	636	< 1	21	< 0.01	< 10	< 10	2430	< 10	8180
56182C	205	226	1	0.05	1	720	80	< 2	3	133	0.04	< 10	< 10	55	< 10	68
56183C	205	226	30	0.01	1	710	48	< 2	< 1	110	< 0.01	< 10	< 10	8	< 10	16
56184C	205	226	6	< 0.01	6	170	14	< 2	< 1	5	0.05	< 10	< 10	6	< 10	8
56185C	205	226	32	< 0.01	4	140	10	< 2	< 1	21	< 0.01	< 10	< 10	11	< 10	2
63620C	205	226	< 1	< 0.01	9	210	14	< 2	4	224	0.15	< 10	< 10	34	< 10	50

CERTIFICATION: Hart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A962

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9623295

(MTU) - KENNECOTT EXPLORATION

Project: 615-1-5515-P3131
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 17-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	11	Geochem ring to approx 150 mesh
226	11	0-3 Kg crush and split
3204	11	Save 1 Kg reject for 90 days
229	11	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	11	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	11	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	11	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	11	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	11	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	11	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	11	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	11	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	11	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	11	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	11	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	11	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	11	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	11	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	11	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	11	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	11	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	11	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	11	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	11	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	11	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	11	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	11	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	11	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	11	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	11	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	11	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	11	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	11	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	11	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	11	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	11	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	11	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 615-1-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Number :1-A
Total Pages :1
Certificate Date: 17-JUL-
Invoice No. :196232
P.O. Number :
Account :MTU

* PLEASE NOTE *

CERTIFICATE OF ANALYSIS A9623295

	SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
21	56172C	205	226	< 5	< 0.2	1.65	< 2	110	< 0.5	< 2	1.00	< 0.5	5	79	11	2.52	< 10	1	0.14	10	0.47	495
22	56174C	205	226	< 5	< 0.2	1.16	4	460	4.5	Intf*	0.25	5.5	54	67	>10000	3.16	< 10	< 1	0.23	10	0.31	7490
27	56176C	205	226	< 5	< 0.2	1.28	< 2	90	< 0.5	< 2	>15.00	0.5	3	12	67	0.54	< 10	1	0.10	< 10	1.03	905
27	56177C	205	226	< 5	< 0.2	1.68	< 2	630	0.5	< 2	6.54	< 0.5	3	27	68	0.58	< 10	1	0.42	10	0.85	360
21	63610C	205	226	< 5	< 0.2	0.06	< 2	< 10	< 0.5	< 2	0.15	< 0.5	< 1	344	69	0.39	< 10	< 1	0.01	< 10	0.01	25
28	63611C	205	226	< 5	< 0.2	1.88	30	230	< 0.5	< 2	1.06	< 0.5	8	63	22	2.41	< 10	< 1	0.19	10	0.98	795
29	63612C	205	226	< 5	< 0.2	0.25	< 2	60	< 0.5	< 2	0.03	< 0.5	< 1	155	6	0.63	< 10	< 1	0.13	10	0.01	60
22	63614C	205	226	< 5	< 0.2	0.47	22	140	1.0	< 2	0.19	< 0.5	2	163	114	7.92	< 10	< 1	0.17	< 10	0.05	230
22	63615C	205	226	15	4.6	0.67	162	450	0.5	< 2	2.98	1.5	3	99	37	1.50	< 10	< 1	0.31	20	0.17	1730
16	63617C	205	226	< 5	< 0.2	1.73	4	250	0.5	< 2	2.95	< 0.5	4	116	12	2.18	< 10	< 1	0.09	10	0.45	570
15	63618C	205	226	< 5	< 0.2	1.23	40	50	< 0.5	< 2	12.75	0.5	4	61	4	3.79	< 10	< 1	0.01	< 10	0.10	820

CERTIFICATION: Hans Bichler

* INTERFERENCE: Cu on Bi and P

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 615-1-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Number :1-B
Pages :1
Certificate Date: 17-JUL-9
Invoice No. :I962329
P.O. Number :
Account :MTU

* PLEASE NOTE

CERTIFICATE OF ANALYSIS A9623295

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
56172C	205	226	3	0.05	1	1050	12	< 2	3	44	0.03	< 10	< 10	25	< 10	62
56174C	205	226	3	0.01	24	Intf*	12	< 2	5	24	< 0.01	< 10	10	23	< 10	1290
56176C	205	226	< 1	< 0.01	4	200	12	< 2	1	172	< 0.01	< 10	< 10	4	< 10	36
56177C	205	226	1	< 0.01	8	930	6	< 2	3	61	< 0.01	< 10	< 10	9	< 10	36
63610C	205	226	< 1	< 0.01	5	20	< 2	< 2	< 1	2	< 0.01	< 10	< 10	1	< 10	4
63611C	205	226	2	0.05	3	1160	8	< 2	3	46	0.09	< 10	< 10	24	< 10	76
63612C	205	226	3	0.04	1	120	10	< 2	< 1	7	< 0.01	< 10	< 10	< 1	< 10	8
63614C	205	226	10	< 0.01	5	440	74	2	1	46	< 0.01	< 10	< 10	45	< 10	170
63615C	205	226	4	< 0.01	4	570	1035	8	1	30	< 0.01	< 10	< 10	7	< 10	404
63617C	205	226	4	0.05	7	370	18	< 2	3	40	0.04	< 10	< 10	31	< 10	38
63618C	205	226	< 1	< 0.01	4	100	8	< 2	1	14	0.03	< 10	< 10	11	10	26

CERTIFICATION: Bart Bichler

* INTERFERENCE: Cu on Bi and P

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A96232

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan and Nick Van Wyck

CERTIFICATE A9623294

(MTU) - KENNECOTT EXPLORATION

Project: 615-1-5515-P3131
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 17-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	3	Assay ring to approx 150 mesh
226	3	0-3 Kg crush and split
3204	3	Save 1 Kg reject for 90 days
229	3	ICP - AQ Digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	3	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	3	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	3	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	3	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	3	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	3	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	3	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	3	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	3	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	3	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	3	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	3	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	3	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	3	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	3	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	3	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	3	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	3	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	3	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	3	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	3	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	3	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	3	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	3	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	3	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	3	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	3	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	3	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	3	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	3	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	3	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	3	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	3	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 615-1-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan and Nick Van Wyck

Number :1-A
Total Pages :1
Certificate Date: 17-JUL-9
Invoice No. :1962329
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9623294

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
63619C	208	226	460	182.5	0.93	114	920	< 0.5	< 2	0.88	31.5	1	153	1415	1.63	< 10	< 1	0.29	20	0.16	3370
63621C	208	226	< 5	< 0.2	1.48	64	40	< 0.5	< 2	5.17	0.5	5	191	77	3.93	< 10	1	0.02	< 10	0.32	1320
63622C	208	226	35	3.2	0.83	20	190	< 0.5	2	0.45	1.0	6	129	21	2.95	< 10	< 1	0.42	< 10	0.06	1055

CERTIFICATION: Stuart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 615-1-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan and Nick Van Wyck

Number :1-B
Total Pages :1
Certificate Date: 17-JUL-9
Invoice No. :1962329
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9623294

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
63619C	208	226	3	0.07	3	780	2470	1335	1	64	< 0.01	< 10	< 10	194	< 10	940
63621C	208	226	3	0.01	4	170	10	4	2	150	0.08	< 10	< 10	23	< 10	20
63622C	208	226	15	0.01	10	290	252	2	1	43	< 0.01	< 10	< 10	22	< 10	254

CERTIFICATION: Stewart Richlen

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

n: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A9624874

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9624874

(MTU) - KENNECOTT EXPLORATION

Project: 615-1-5515-P3131
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 24-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	1	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
301	1	Cu %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 615-1-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1
Total Pages :1
Certificate Date: 24-JUL-96
Invoice No. :19624874
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9624874

SAMPLE	PREP CODE		Cu %
56174C	244	--	3.19

CERTIFICATION: Stewart Bichler

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

85745

A9624875

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan and Nick Van Wyck

CERTIFICATE A9624875

(MTU) - KENNECOTT EXPLORATION

Project: 615-1-5515-P3131
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 24-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
312	2	Pb %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0
316	1	Zn %: Conc. Nitric-HCL dig'n	AAS	0.01	100.0

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION
1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Page Number :1
Total :1
Certificate Date: 24-JUL-96
Invoice No. :19624875
P.O. Number :
Account :MTU

Project : 615-1-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan and Nick Van Wyck

CERTIFICATE OF ANALYSIS A9624875

SAMPLE	PREP CODE	Pb %	Zn %
56180C	244 --	1.76	1.48
56181C	244 --	2.03	-----

CERTIFICATION: Stuart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

TO: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A9621998

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9621998

(MTU) - KENNECOTT EXPLORATION

Project: 645-5515-P3131
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 8-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	12	Geochem ring to approx 150 mesh
226	12	0-3 Kg crush and split
3204	12	Save 1 Kg reject for 90 days
229	12	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	12	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	12	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	12	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	12	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	12	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	12	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	12	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	12	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	12	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	12	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	12	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	12	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	12	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	12	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	12	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	12	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	12	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	12	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	12	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	12	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	12	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	12	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	12	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	12	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	12	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	12	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	12	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	12	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	12	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	12	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	12	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	12	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	12	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000
21	3	F ppm: Carbonate-nitrate fusion	SPECIFIC ION	20	10000

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

TO: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1-A
Total Pages :1
Certificate Date: 08-JUL-96
Invoice No. :I9621998
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9621998

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
63601 C	205	226	< 5	< 0.2	0.71	< 2	210	0.5	2	2.86	< 0.5	11	37	20	4.86	< 10	< 1	0.25	10	0.12	955
63602 C	205	226	< 5	< 0.2	1.58	2	430	< 0.5	4	2.05	< 0.5	14	120	39	2.83	< 10	< 1	0.14	10	1.59	560
63603 C	205	226	10	0.4	0.49	184	140	< 0.5	< 2	0.07	< 0.5	3	157	5	1.43	< 10	< 1	0.32	20	0.03	2420
63604 C	205	226	115	44.4	0.42	482	190	0.5	< 2	0.36	3.5	4	147	36	2.27	< 10	< 1	0.29	20	0.04	>10000
63605 C	205	226	10	5.2	0.36	12	440	1.5	2	1.45	1.5	8	181	106	3.99	< 10	< 1	0.11	< 10	0.03	1980
63606 C	205	226	< 5	0.2	0.61	18	50	< 0.5	2	0.20	< 0.5	< 1	155	10	7.77	< 10	< 1	1.38	10	0.05	40
63607 C	205	226	< 5	0.2	1.42	4	130	0.5	< 2	4.60	< 0.5	5	73	12	2.66	< 10	< 1	0.08	10	1.23	880
63608 C	205	226	< 5	< 0.2	0.50	2	370	< 0.5	< 2	0.14	< 0.5	< 1	111	8	2.24	< 10	< 1	0.23	< 10	0.03	65
63609 C	205	226	< 5	< 0.2	1.04	4	710	< 0.5	2	0.24	< 0.5	< 1	126	11	3.38	< 10	< 1	0.05	< 10	0.05	135
56167 C	205	226	170	6.8	0.92	2440	810	2.0	2	0.32	4.5	16	102	14	5.92	< 10	< 1	0.49	20	0.05	>10000
56168 C	205	226	40	1.2	0.94	216	180	0.5	< 2	0.49	0.5	5	69	5	1.69	< 10	< 1	0.21	20	0.06	3820
56169 C	205	226	< 5	0.2	1.03	10	50	< 0.5	< 2	0.56	< 0.5	2	123	4	1.55	< 10	< 1	0.20	20	0.32	495

CERTIFICATION: Hart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1-B
Total Pages :1
Certificate Date: 08-JUL-96
Invoice No. :I9621998
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9621998

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	F ppm
63601 C	205	226	6	0.04	5	810	8	< 2	3	74	< 0.01	< 10	< 10	43	< 10	84	-----
63602 C	205	226	< 1	0.06	30	620	8	< 2	4	71	0.02	< 10	< 10	60	< 10	156	-----
63603 C	205	226	7	< 0.01	2	200	26	2	< 1	60	< 0.01	< 10	< 10	13	< 10	30	-----
63604 C	205	226	28	0.01	1	610	86	6	< 1	161	< 0.01	< 10	< 10	15	< 10	470	-----
63605 C	205	226	50	< 0.01	8	130	130	8	< 1	40	< 0.01	< 10	< 10	24	< 10	590	-----
63606 C	205	226	37	0.44	1	840	94	< 2	< 1	93	< 0.01	< 10	< 10	8	< 10	< 2	-----
63607 C	205	226	< 1	0.06	6	700	8	< 2	9	52	0.15	< 10	< 10	55	< 10	44	310
63608 C	205	226	< 1	0.01	1	240	12	< 2	< 1	31	< 0.01	< 10	< 10	9	< 10	6	490
63609 C	205	226	3	0.04	2	1050	20	< 2	< 1	98	< 0.01	< 10	< 10	26	< 10	8	260
56167 C	205	226	11	0.01	< 1	890	710	30	1	436	< 0.01	< 10	< 10	50	< 10	436	-----
56168 C	205	226	1	< 0.01	1	690	12	< 2	2	96	< 0.01	< 10	< 10	28	< 10	184	-----
56169 C	205	226	< 1	0.06	1	580	6	< 2	1	20	< 0.01	< 10	< 10	16	< 10	40	-----

CERTIFICATION: Stuart Bichlen

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A96219

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9621999

(MTU) - KENNECOTT EXPLORATION

Project: 645-5515-P3131
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 9-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	2	Geochem ring to approx 150 mesh
226	2	0-3 Kg crush and split
3204	2	Save 1 Kg reject for 90 days

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
902	2	Al2O3 %: XRF	XRF	0.01	100.00
906	2	CaO %: XRF	XRF	0.01	100.00
2590	2	Cr2O3 %: XRF	XRF	0.01	100.00
903	2	Fe2O3 %: XRF	XRF	0.01	100.00
908	2	K2O %: XRF	XRF	0.01	100.00
905	2	MgO %: XRF	XRF	0.01	100.00
1989	2	MnO %: XRF	XRF	0.01	100.00
907	2	Na2O %: XRF	XRF	0.01	100.00
909	2	P2O5 %: XRF	XRF	0.01	100.00
901	2	SiO2 %: XRF	XRF	0.01	100.00
904	2	TiO2 %: XRF	XRF	0.01	100.00
910	2	LOI %: XRF	XRF	0.01	100.00
2540	2	Total %	CALCULATION	0.01	105.00
2891	2	Ba ppm: XRF	XRF	5	50000
2067	2	Rb ppm: XRF	XRF	2	50000
2898	2	Sr ppm: XRF	XRF	2	50000
2973	2	Nb ppm: XRF	XRF	2	50000
2978	2	Zr ppm: XRF	XRF	3	50000
2974	2	Y ppm: XRF	XRF	2	50000

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1
Total Pages :1
Certificate Date: 09-JUL-96
Invoice No. :I9621999
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9621999

SAMPLE	PREP CODE		Al2O3 % XRF	CaO % XRF	Cr2O3 % XRF	Fe2O3 % XRF	K2O % XRF	MgO % XRF	MnO % XRF	Na2O % XRF	P2O5 % XRF	SiO2 % XRF	TiO2 % XRF	LOI % XRF	TOTAL %	Ba ppm	Rb ppm	Sr ppm	Nb ppm	Zr ppm	Y ppm
56170 JV	205	226	15.70	4.18	0.03	4.42	3.50	1.92	0.08	3.94	0.20	63.16	0.58	1.65	99.36	1400	104	582	10	150	18
56171 JV	205	226	16.00	3.47	0.02	5.54	3.15	2.45	0.11	3.91	0.24	60.59	0.72	3.03	99.23	1160	84	532	10	174	22

CERTIFICATION: Hart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A9623083

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9623083

(MTU) - KENNECOTT EXPLORATION

Project: 645-5515-P3131
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 9-JUL-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	2	Pulp; prev. prepared at Chemex

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
328	2	MnO %: HClO4-HNO3-HF digestion	AAS	0.01	100.0

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3131
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1
Total Pages :1
Certificate Date: 09-JUL-96
Invoice No. :19623083
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9623083

SAMPLE	PREP CODE	MnO %
63604 C JV	244 --	2.10
56167 C JV	244 --	2.95

17
17

CERTIFICATION: Hart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

A9620621

Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

CERTIFICATE A9620621

(MTU) - KENNECOTT EXPLORATION

Project: 645-5515-P3133
P.O. # :

Samples submitted to our lab in Tucson, AZ
This report was printed on 22-JUN-96.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	15	Geochem ring to approx 150 mesh
226	15	0-3 Kg crush and split
3204	15	Save 1 Kg reject for 90 days
229	15	ICP - AQ Digestion charge
* NOTE	1:	

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

RECEIVED

JUL 0 8 1996

KENNECOTT EXPLORATION
TUCSON, ARIZONA

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	15	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	15	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
2119	15	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	15	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	15	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	15	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	15	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	15	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	15	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2126	15	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	15	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	15	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	15	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	15	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	15	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	15	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	15	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	15	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	15	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	15	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	15	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
2138	15	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	15	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	15	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	15	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	15	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	15	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	15	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
2145	15	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	15	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	15	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	15	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	15	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers

994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3133
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

P[illegible]mber :1-A
To[illegible]ges :1
Certificate Date: 22-JUN-96
Invoice No. :19620621
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9620621

SAMPLE	PREP CODE		Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
SL 56151C	205	226	< 5	< 0.2	1.13	8	240	< 0.5	< 2	1.37	< 0.5	6	70	5	0.94	< 10	< 1	0.07	10	0.37	740
SL 56152C	205	226	< 5	< 0.2	0.91	< 2	140	< 0.5	< 2	1.58	< 0.5	4	75	4	2.05	< 10	< 1	0.24	30	0.51	710
SL 56153C	205	226	< 5	0.2	1.69	< 2	250	< 0.5	2	0.77	1.5	29	70	66	3.71	< 10	< 1	0.15	10	1.23	1310
SL 56154C	205	226	< 5	0.2	0.12	< 2	230	< 0.5	< 2	0.02	< 0.5	1	271	6	0.27	< 10	< 1	0.04	< 10	< 0.01	40
SL 56155C	205	226	< 5	< 0.2	0.49	< 2	950	< 0.5	< 2	0.10	< 0.5	< 1	86	23	1.66	< 10	< 1	0.27	< 10	0.06	10
SL 56679C	205	226	< 5	< 0.2	0.27	< 2	1350	< 0.5	< 2	1.60	< 0.5	1	95	4	1.95	< 10	< 1	0.02	10	0.05	190
SL 56680C	205	226	< 5	< 0.2	0.28	< 2	30	< 0.5	< 2	0.21	< 0.5	< 1	200	4	0.57	< 10	< 1	0.13	10	0.04	135
SL 56681C	205	226	25	172.0	0.69	28	10	< 0.5	626	0.25	7.5	17	191	2100	2.49	< 10	< 1	0.16	30	0.25	1170
SL 56682C	205	226	< 5	0.2	1.40	< 2	50	< 0.5	2	14.20	2.0	6	68	21	2.32	< 10	< 1	0.16	10	0.64	1015
SL 56683C	205	226	< 5	< 0.2	2.02	< 2	120	< 0.5	< 2	6.76	< 0.5	12	13	10	2.93	< 10	< 1	0.18	10	1.61	960
SL 56684C	205	226	< 5	< 0.2	0.46	8	210	< 0.5	< 2	0.22	< 0.5	1	81	6	0.52	< 10	< 1	0.24	10	0.04	125
SL 56685C	205	226	< 5	0.8	0.35	< 2	330	< 0.5	< 2	0.13	< 0.5	< 1	153	15	0.53	< 10	< 1	0.16	< 10	0.02	95
SL 56686C	205	226	10	2.0	0.39	32	90	< 0.5	< 2	1.95	< 0.5	3	122	65	1.32	< 10	< 1	0.19	10	0.06	1000
SL 56687C	205	226	< 5	< 0.2	1.04	< 2	330	< 0.5	< 2	0.31	0.5	5	58	15	2.56	< 10	< 1	0.24	20	0.18	250
SL 56688C	205	226	< 5	0.2	0.42	4	1230	< 0.5	< 2	0.12	< 0.5	< 1	132	15	2.38	< 10	< 1	0.19	< 10	0.01	20

CERTIFICATION: Hart Bichler

Chemex Labs, Inc.

Analytical Chemists * Geochemists * Registered Assayers
994 Glendale Ave., Unit 3, Sparks
Nevada, U.S.A. 89431
PHONE: 702-356-5395 FAX: 702-355-0179

To: KENNECOTT EXPLORATION

1802 W. GRANT RD., #119
TUCSON, ARIZONA
85745

Project : 645-5515-P3133
Comments: Attn/FAX: Joey Wilkins CC: Brian Corrigan

Page Number :1-B
Total Pages :1
Certificate Date: 22-JUN-96
Invoice No. :I9620621
P.O. Number :
Account :MTU

CERTIFICATE OF ANALYSIS A9620621

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
SL 56151C	205	226	< 1	0.03	4	1210	6	2	1	100	0.13	< 10	< 10	18	< 10	36
SL 56152C	205	226	< 1	0.05	1	700	8	< 2	1	23	< 0.01	< 10	< 10	20	< 10	50
SL 56153C	205	226	1	0.04	31	1010	40	< 2	4	57	0.05	< 10	< 10	82	< 10	782
SL 56154C	205	226	2	< 0.01	3	280	58	< 2	< 1	20	< 0.01	< 10	< 10	2	< 10	2
SL 56155C	205	226	2	0.04	1	100	14	< 2	< 1	100	< 0.01	< 10	< 10	12	< 10	2
SL 56679C	205	226	< 1	0.08	1	40	6	< 2	< 1	44	< 0.01	< 10	< 10	5	< 10	14
SL 56680C	205	226	< 1	0.05	2	70	14	< 2	< 1	5	< 0.01	< 10	< 10	4	< 10	26
SL 56681C	205	226	15	< 0.01	7	690	>10000	< 2	1	205	< 0.01	< 10	< 10	15	10	>10000
SL 56682C	205	226	3	< 0.01	6	1550	92	< 2	2	68	0.09	< 10	< 10	20	< 10	170
SL 56683C	205	226	< 1	0.34	2	1350	52	2	2	111	0.08	< 10	< 10	32	< 10	84
SL 56684C	205	226	1	0.03	1	170	30	2	< 1	18	< 0.01	< 10	< 10	3	< 10	72
SL 56685C	205	226	< 1	< 0.01	2	280	126	< 2	< 1	20	< 0.01	< 10	< 10	3	< 10	24
SL 56686C	205	226	7	0.01	1	230	1085	36	< 1	19	< 0.01	< 10	< 10	33	< 10	252
SL 56687C	205	226	< 1	0.04	5	790	22	< 2	1	42	0.01	< 10	< 10	33	< 10	48
SL 56688C	205	226	1	0.01	1	200	12	< 2	< 1	48	< 0.01	< 10	< 10	11	< 10	4

CERTIFICATION: Stuart Bichler

63 586493.437500, 3496074.250000;

Rx 1,585180.000000, 3504700.000000;
585776.500000, 3504109.500000;

Tx 2,583254.250000, 3504459.500000;
584039.187500, 3505050.500000;

Tx 3,581757.625000, 3504142.500000;
580836.625000, 3504098.500000;

Tx 4,584238.062500, 3499361.500000;
584886.937500, 3500007.000000;

Tx 5,583672.875000, 3501604.500000;
583505.375000, 3502490.500000;

Tx 6,583259.500000, 3496501.000000;
583269.937500, 3497441.750000;

ZONGE
TOMBSTONE RIP
GPS LOCATIONS
&
TX 3 DATA

LOGISTICS REPORT
VECTOR-INDUCED POLARIZATION
TOMBSTONE PROJECT
Tombstone, Arizona
for Kennecott Exploration Company

Issue date: April 10, 1996
Zonge Job# 9607

Zonge Engineering & Research Organization, Inc.
3322 East Fort Lowell Road, Tucson, AZ 85716 USA
Tel (520) 327-5501 Fax (520) 325-1588 Email zonge@zonge.com

LIST OF PLATES

Note: Included in the this report are the black and white spestral plots for each station.

LOGISTICS REPORT

VECTOR INDUCED POLARIZATION

TOMBSTONE PROJECT

for

Kennecott Exploration Company

PROJECT INFORMATION

Project contact:	**Joey Wilkins**
Company:	**Kennecott Exploration Company**
Location:	**Tombstone, Arizona**

CREW INFORMATION

Crew Chief:	**Tim Nordstrom**
Crew Members:	**Scott Williams** **Scott Hughes** **Scott Malone** **Jon McKeig** **A.D. Buck** **Ken Hauser**

PROJECT LOGISTICS

SURVEY PARAMETERS

Type of survey: **Vector Induced Polarization**
a=500 ft (152m); transmitting electrodes were 3000 ft. apart

Notes: Problems in locating and accessing to stations occurred because the client-provided map did not show changes in the location of roads and fences. Many of the roads either no longer exist or are cut off by BLM fences. The three day delay in production is due to inadequate land permits.

Number of stations: 71

The following coordinates are GPS locations:

Transmitter: 1
Tx1N: 5-85-119E 12-35-04-762N
Tx1S: 5-85-740E 12-35-04-098N

Transmitter: 2
Tx2N: 5-83-977E 12-35-05-068N
Tx2S: 5-83-187E 12-35-04-455N

Transmitter: 3
Tx3E: + 5-81-635E 12-35-04-261N
Tx3W: - 5-80-653E 12-35-04-096N

Transmitter: 4
Tx4E: + 5-84-916E 12-35-00-112N
Tx4W: - 5-84-236E 12-34-99-415N

Transmitter: 5
Tx5N: 5-83-592E 12-35-02-520N
Tx5S: 5-83-822E 12-35-01-475N

Transmitter: 6
Tx6N: + 5-83-360E 12-34-97-359N
Tx6S: - 5-83-280E 12-34-96-291N

Lines located by: Tx and Rx locations were plotted on the map by the client. Some stations were moved due to availability of access.

FIELD EQUIPMENT
List of equipment:
GDP - 16 and 32
GGT - 30
XMT - 16
ZMG - 30
WIRE SIZE: RX: 14 gauge TX: 14 gauge

Two GDP receivers were used to speed up data acquisition.

SEE ATTACHED SHEETS FOR EQUIPMENT SPECS.

PRODUCTION SUMMARY

Mobe from: **Tucson, AZ** To: **Sierra Vista, AZ**

Arrival date on job site: **02/26/96**

Begin work on: **02/27/96**

Date job completed: **03/06/96**

Date crew left job site: **03/06/96**

Demobe from job site to: **Tucson, AZ**

Note: On the morning of March 2, locked gates and "No Trespassing" signs prohibited crew access to Tx 4 and Tx 6. The crew returned to Tucson to try and arrange for permission to cross private land. Tim Nordstrom reached the owner of the Keller Ranch late on March 4 and arranged to get a key from the caretakers of the ranch, Rick and Moni Knuckles.

Date	Production summary
02/27	Tx 1, read stations 18, 19, 20, 31, 12, 11, 21, 27
02/28	Tx 5, read stations 32, 33, 28, 48, 26, 29, 30, 35, 34
02/29	Tx 2, read stations 13, 5, 8, 27, 17, 16, 10; Tx 3 stations 16, 15
03/01	Tx 3, read stations 48, 24, 25, 6, 7, 3, 1, 4, 2, 9, 23, 14, 22
03/02	Returned to Tucson because of locked gates
03/03	Waiting in Tucson
03/04	Got permission and keys from ranch owner
03/05	Tx4, read stations 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 51, 53
03/06	Tx6, read stations 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 49

Data sent to office via: **modem**

Total number of:

Production days:	**6**
Weather days:	**0**
Days off:	**0**
Standby days:	**3**
Down days:	**0**

DISCUSSION OF THE DATA

DATA QUALITY: Data quality is excellent to good.

CULTURAL CONTAMINATION: The following is the location of objects that may cause cultural contamination in the project area.

Rx 5: test trench in middle of Ex dipole

Rx 10: rotated to avoid Tx current wires

Rx 17: power line ~ 250 ft north of Ey pot
Rx 17: power line ~ 300 ft west of Rx

Rx 24: grounded fence 200 ft north of Ey pot

Rx 25: non-grounded fence 200 ft north of Rx

Rx 35.1: rotated to avoid section line fence

Rx 36.1: rotated to avoid section line fence

Rx 37: rotated to avoid section line fence

Rx 38: rotated to avoid section line fence to the north

Rx 46: non-grounded fence about 100 ft north of Ey pot

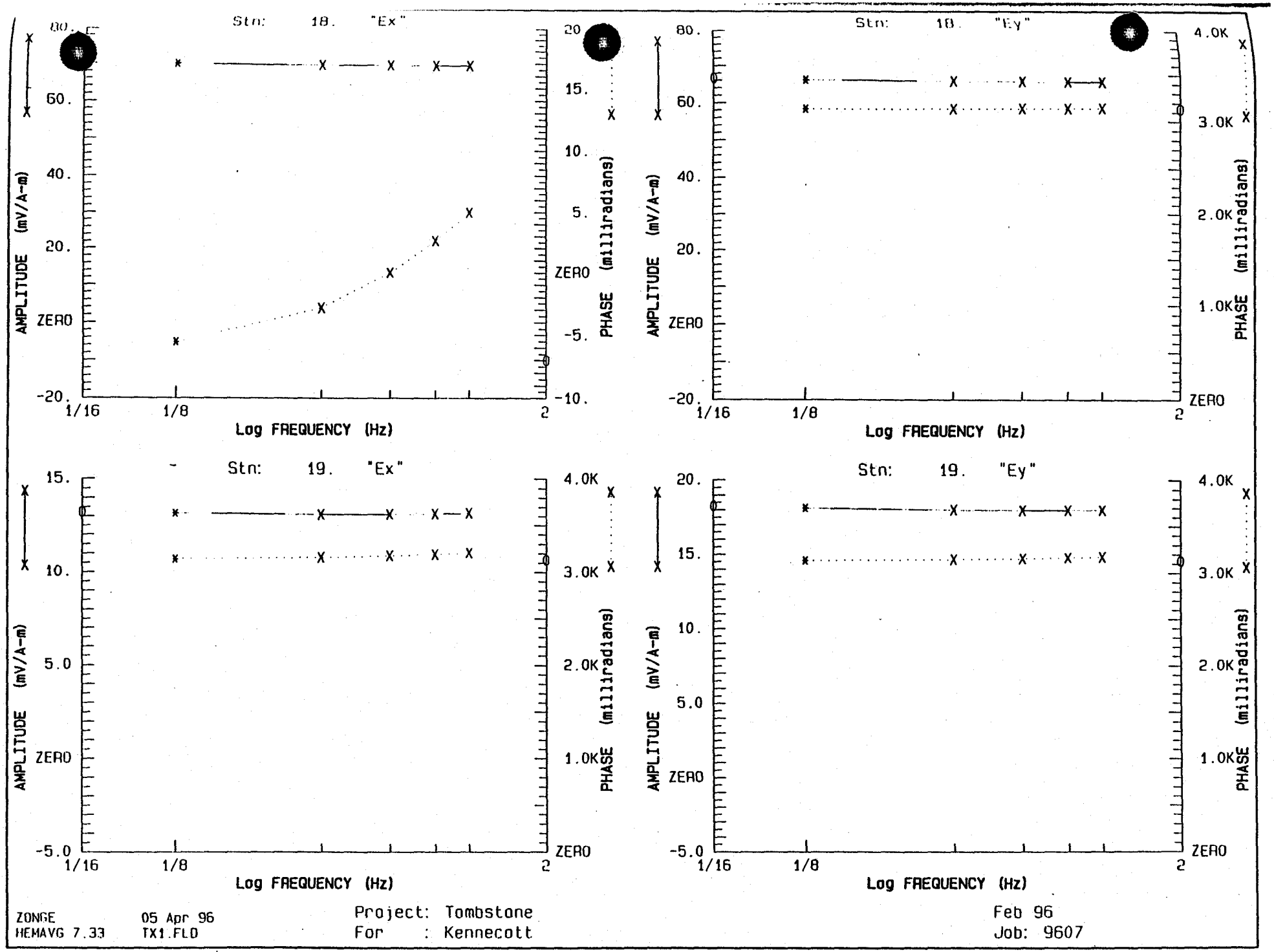
Rx 48: power line (rotate Rx 90 degrees)

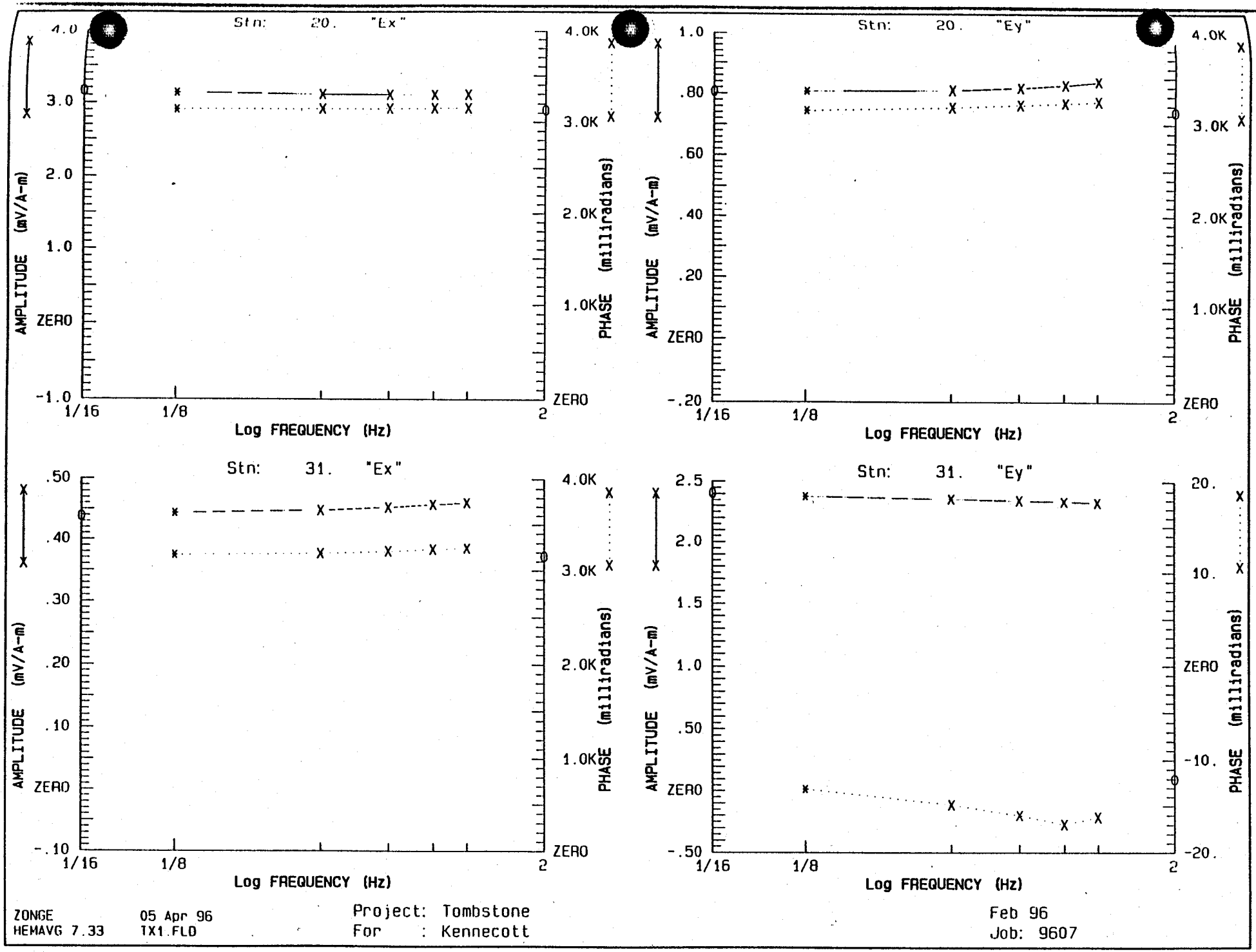
Rx 51: power lines 200 ft north of Rx
Rx 51: power lines 500 ft south of Rx
Rx 51: Keller Ranch house 600 ft east of Rx

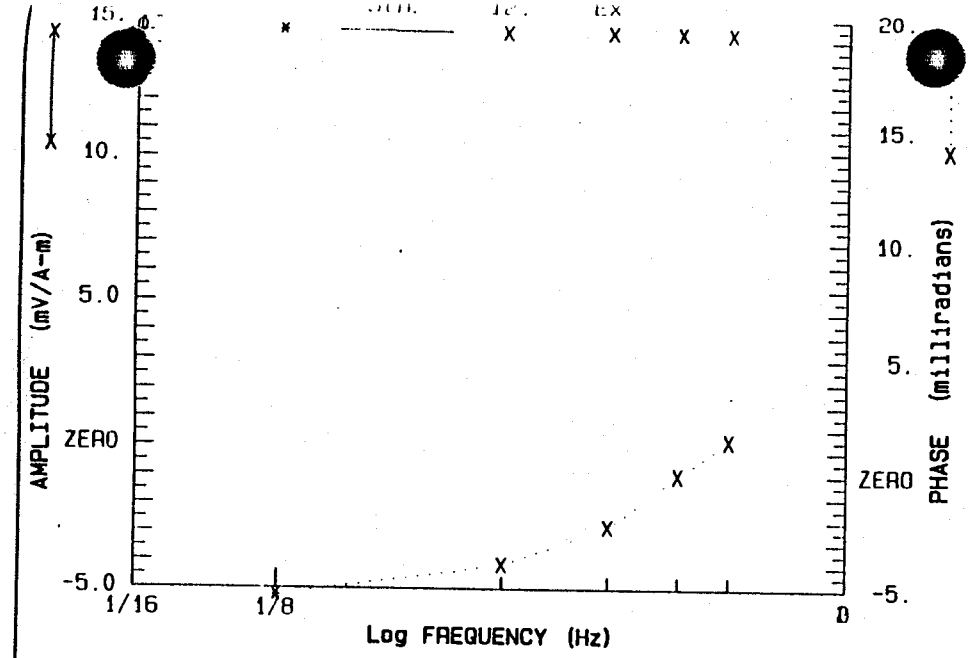
Rx 55: rotated to avoid paralleling Tx wires
Rx 55: power line ~ 200 ft east of Rx

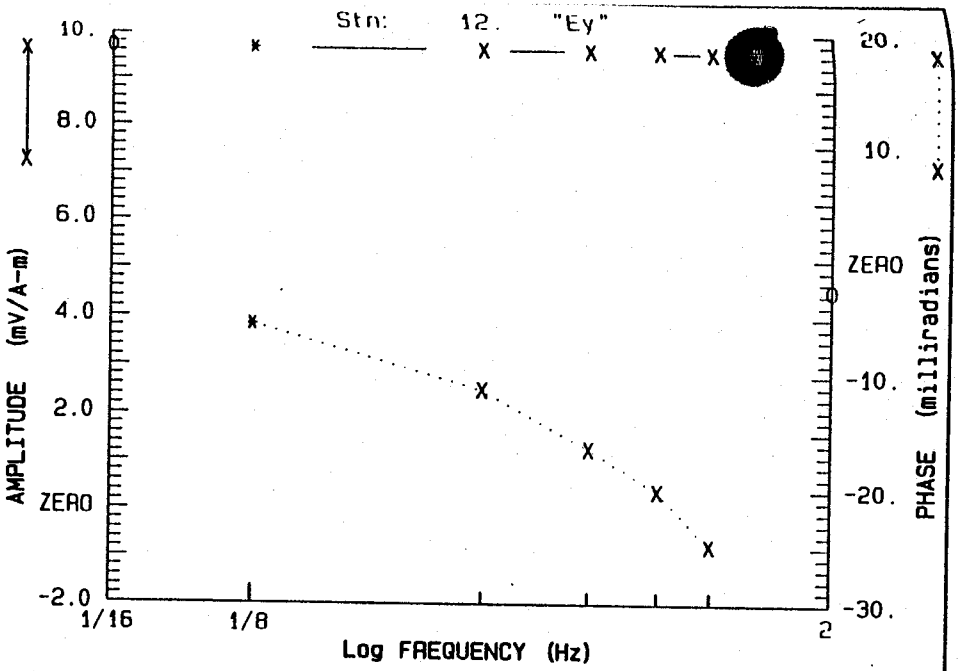
Cris Mauldin
Geophysicist

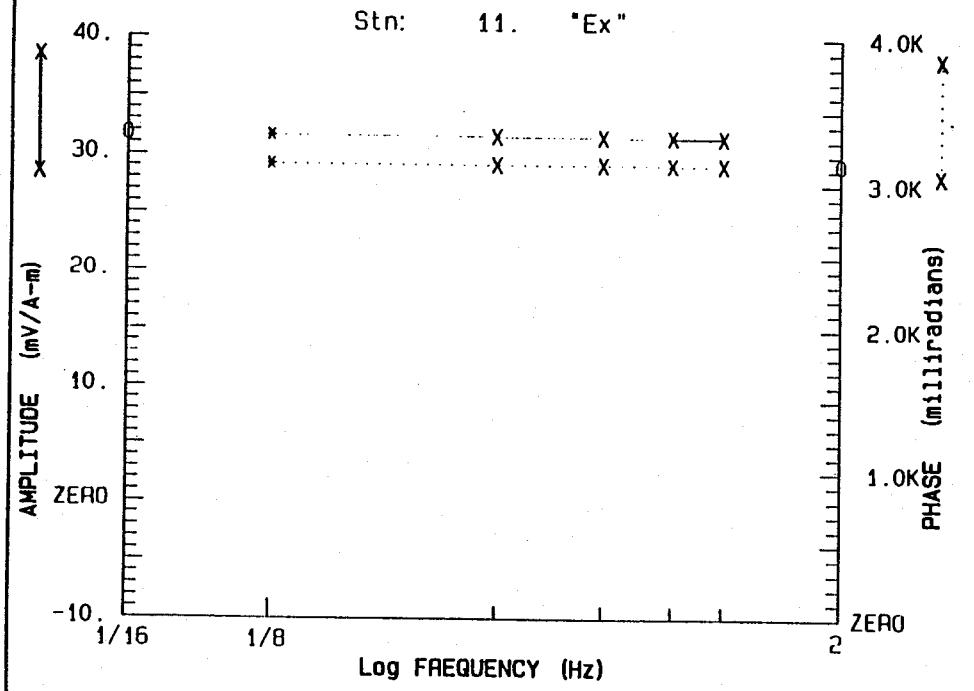
Emmitt Van Reed
Geophysicist

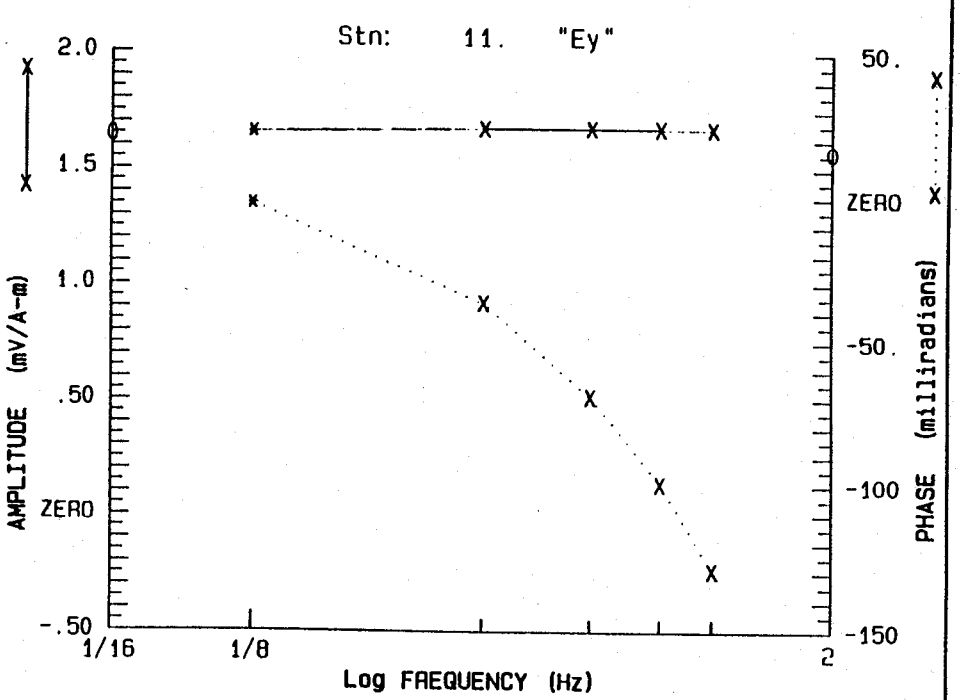

Stn: 18. "Ex"
Stn: 18. "Ey"
Stn: 19. "Ex"
Stn: 19. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
1/16
1/8
2
ZERO
ZONGE
HEMAVG 7.33
05 Apr 96
TX1.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 20. "Ex"
AMPLITUDE (mV/A-m)
4.0
3.0
2.0
1.0
ZERO
-1.0
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 20. "Ey"
AMPLITUDE (mV/A-m)
1.0
.80
.60
.40
.20
ZERO
-.20
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 31. "Ex"
AMPLITUDE (mV/A-m)
.50
.40
.30
.20
.10
ZERO
-.10
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 31. "Ey"
AMPLITUDE (mV/A-m)
2.5
2.0
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
20.
10.
ZERO
-10.
-20.
1/16
1/8
2
Log FREQUENCY (Hz)
ZONGE
HEMAVG 7.33
05 Apr 96
TX1.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607







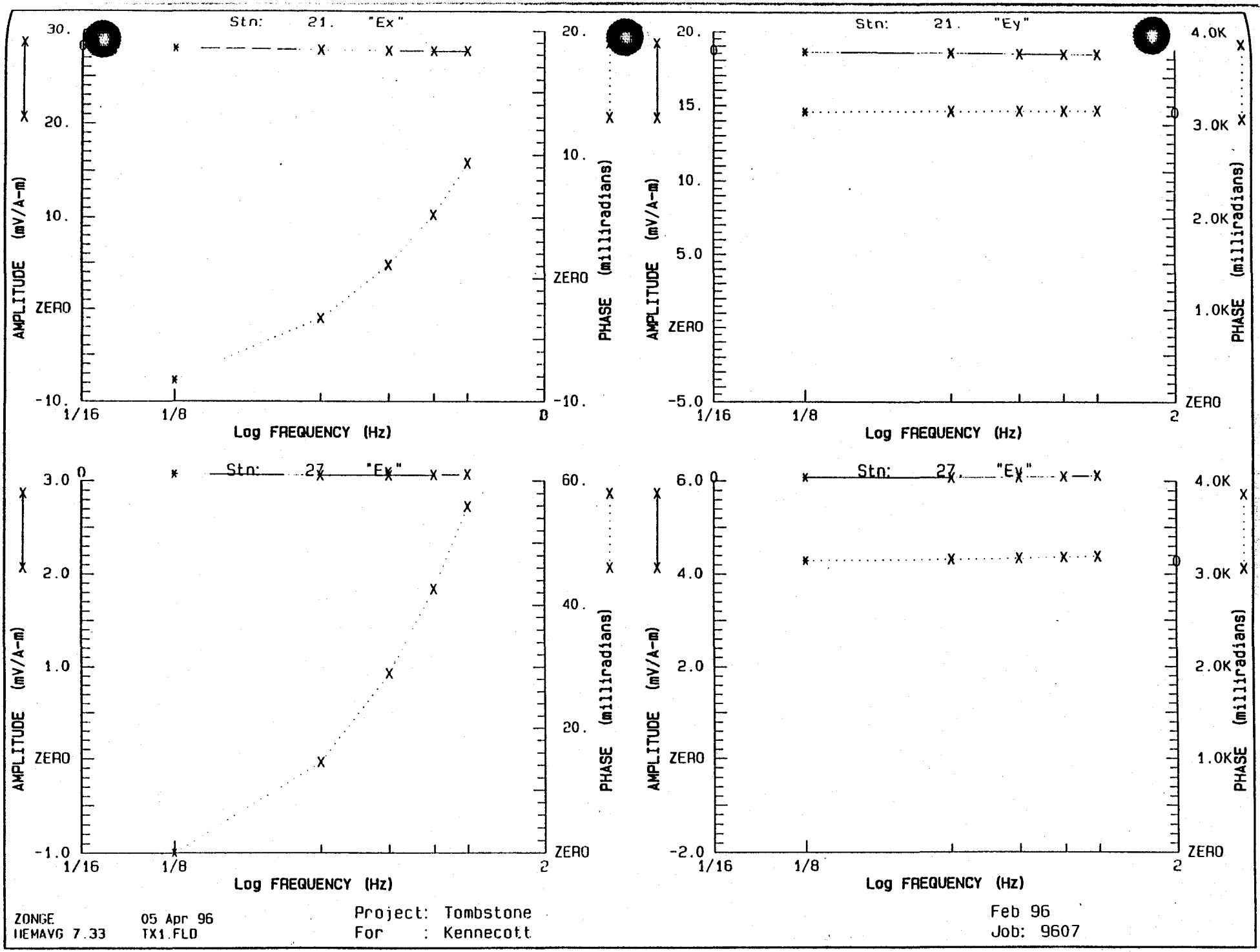


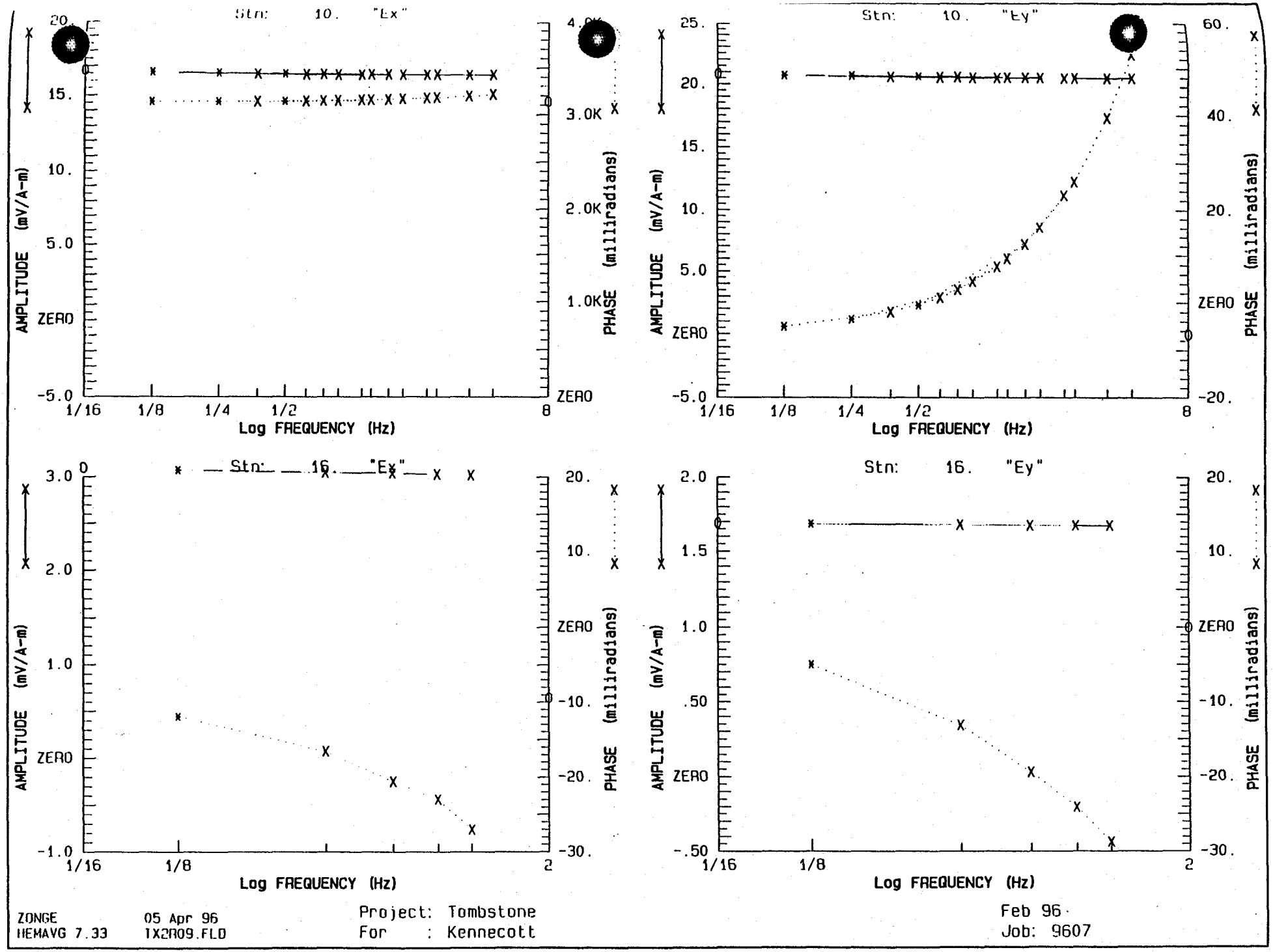
ZONGE
HEMAVG 7.33

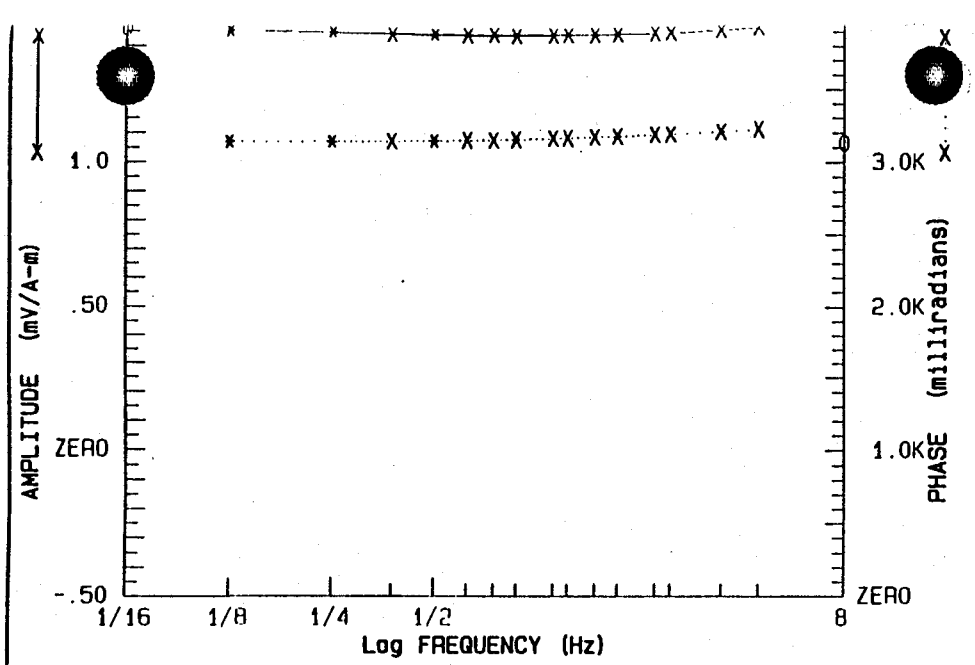
05 Apr 96
TX1.FLD

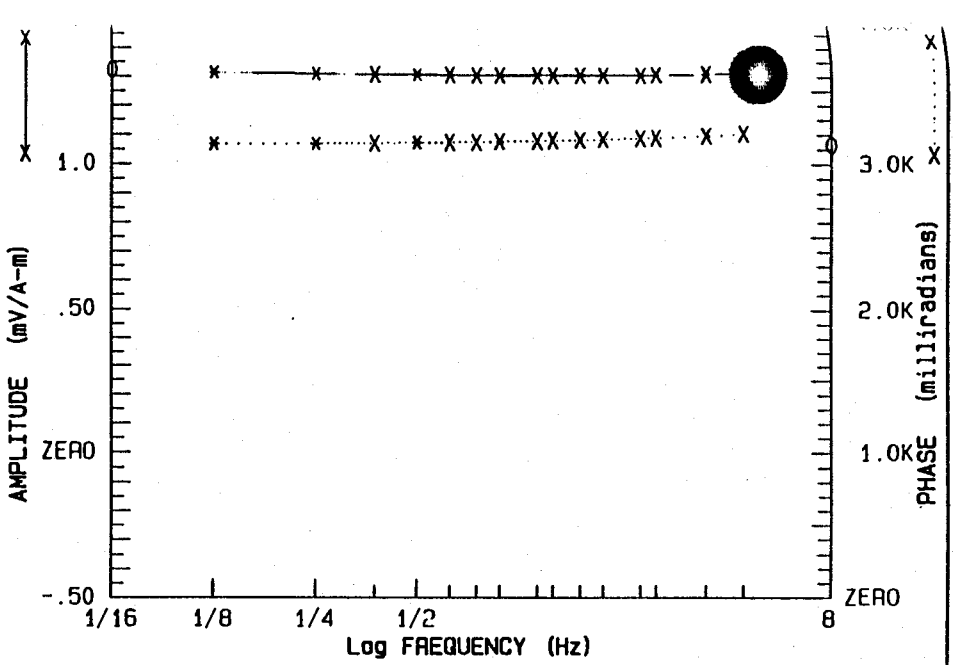
Project: Tombstone
For : Kennecott

Feb 96
Job: 9607

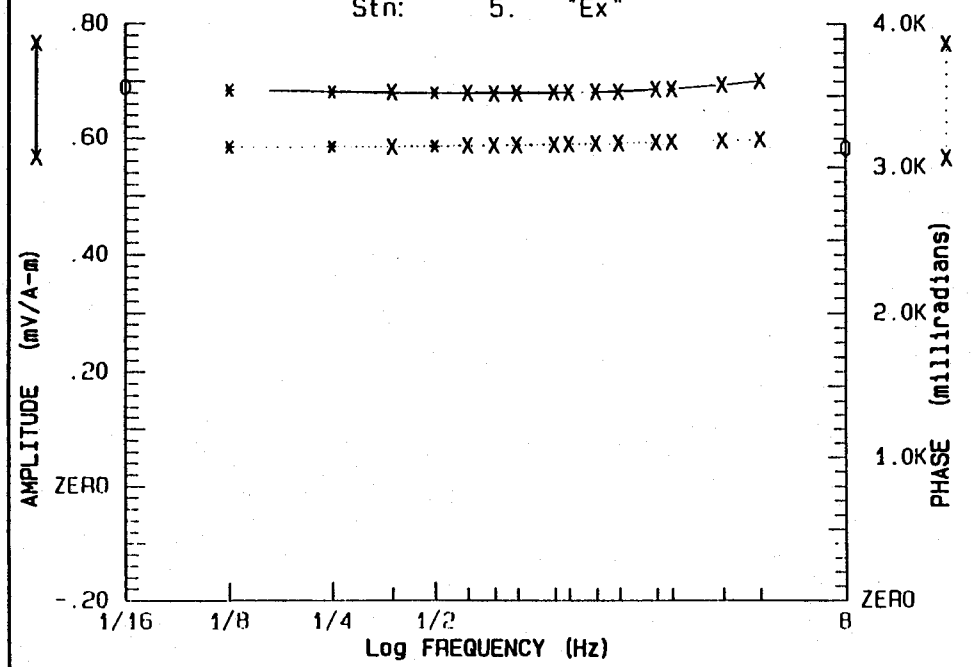

Stn: 21. "Ex"
AMPLITUDE (mV/A-m)
30.
20.
10.
ZERO
-10.
PHASE (milliradians)
20.
10.
ZERO
-10.
1/16
1/8
Log FREQUENCY (Hz)
Stn: 21. "Ey"
AMPLITUDE (mV/A-m)
20.
15.
10.
5.0
ZERO
-5.0
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 27. "Ex"
AMPLITUDE (mV/A-m)
3.0
2.0
1.0
ZERO
-1.0
PHASE (milliradians)
60.
40.
20.
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 27. "Ey"
AMPLITUDE (mV/A-m)
6.0
4.0
2.0
ZERO
-2.0
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
ZONGE
IIEMAVG 7.33
05 Apr 96
TX1.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 10. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 10. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 16. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 16. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
ZONGE
HEMAVG 7.33
05 Apr 96
TX2R09.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607

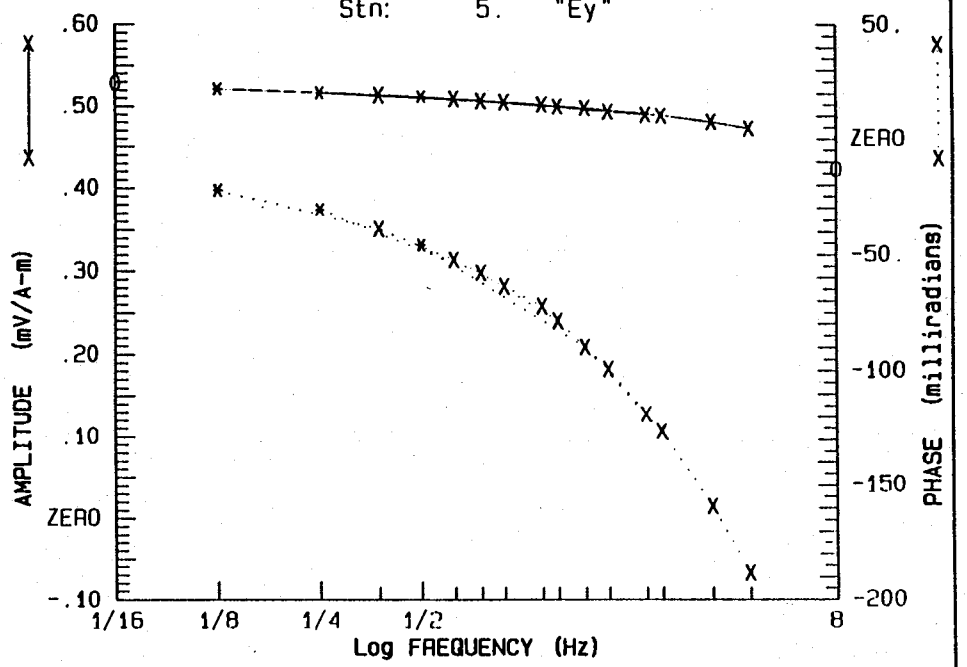




Stn: 5. "Ex"



Stn: 5. "Ey"

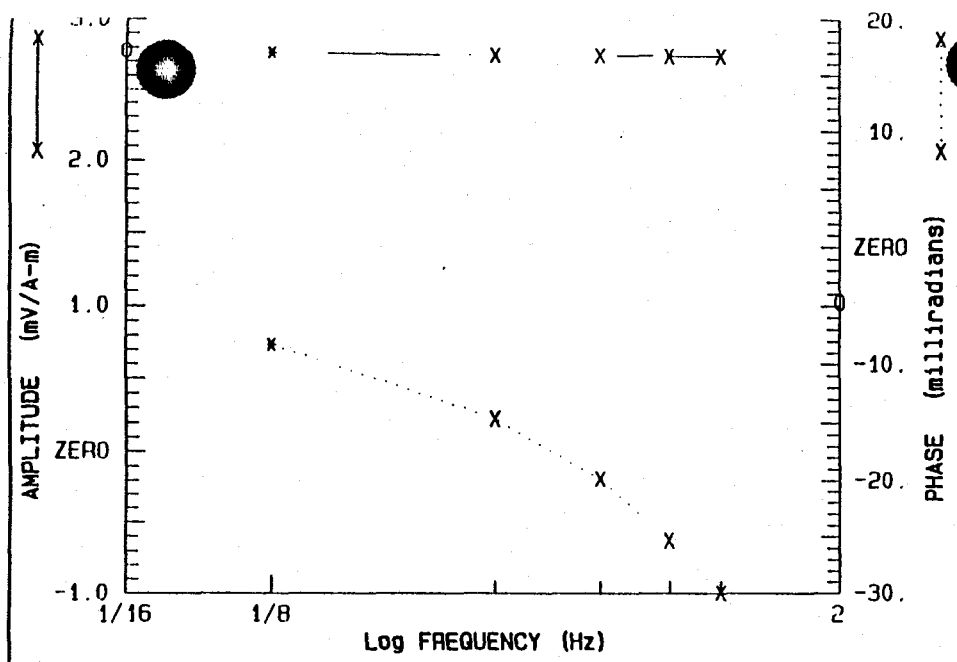


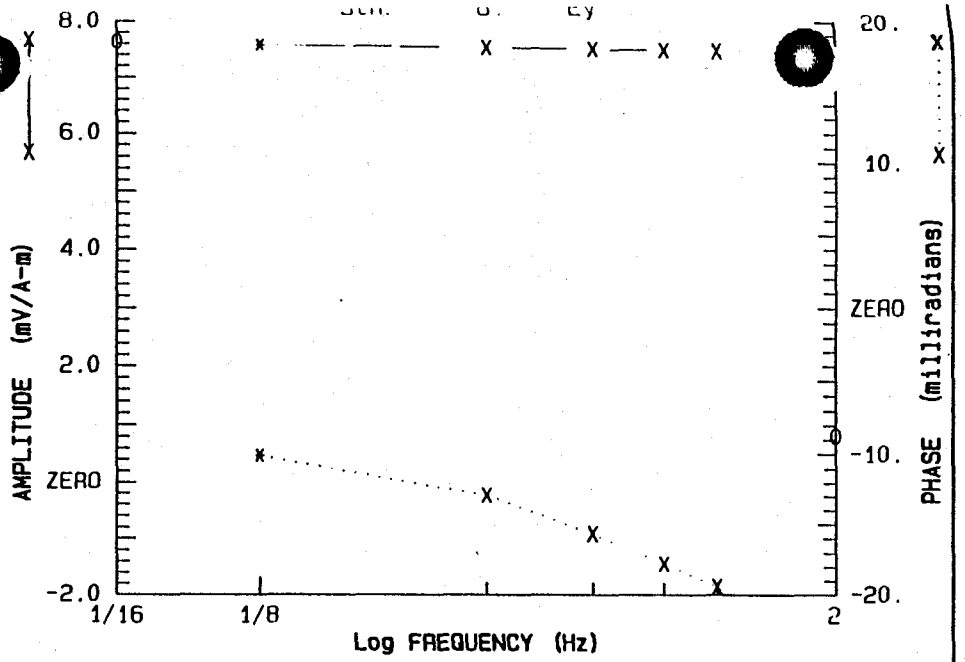
ZONGE
HEMAVG 7.33

05 Apr 96
TX2R26.FLD

Project: Tombstone
For : Kennecott

Feb 96
Job: 9607



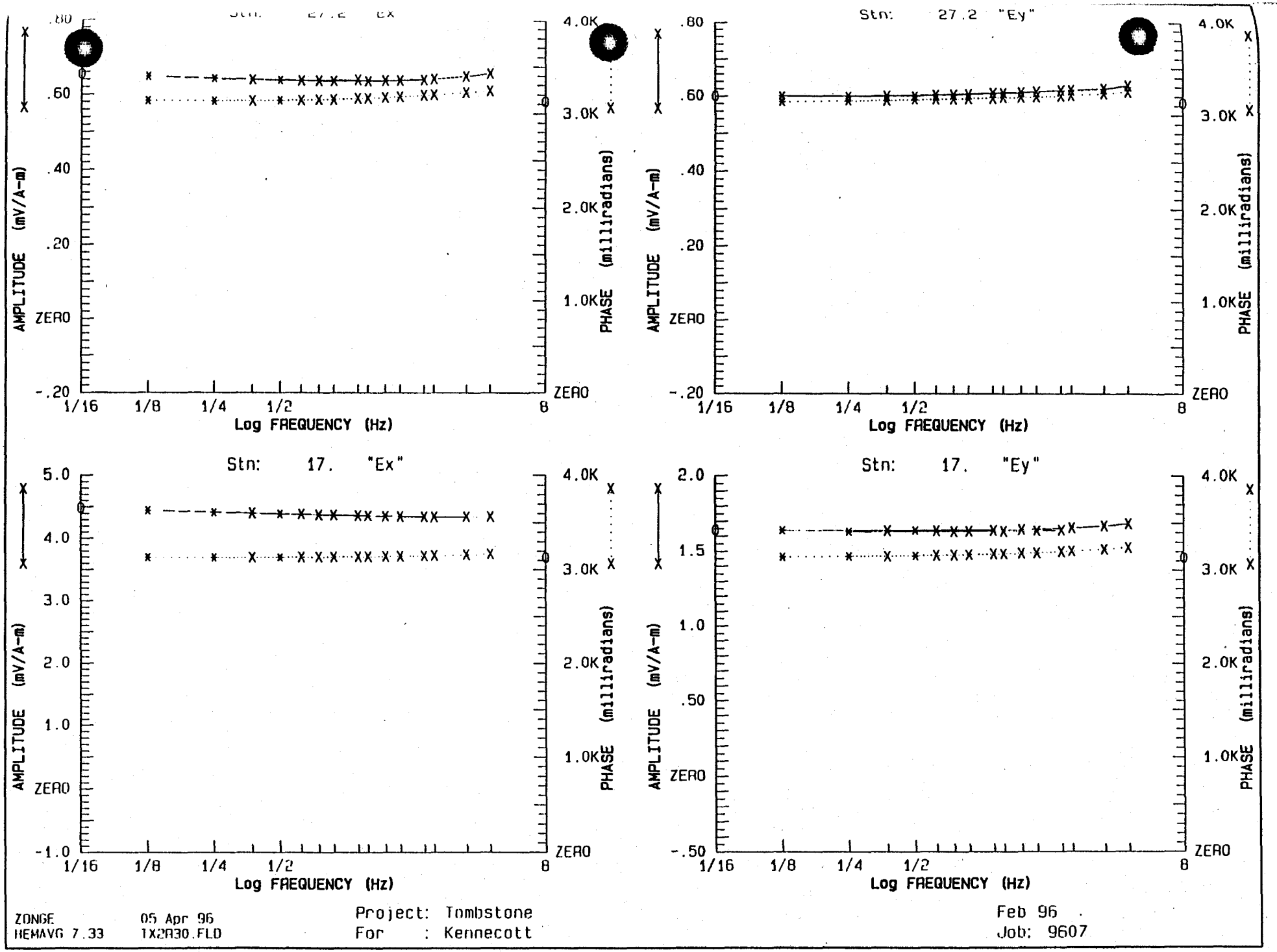


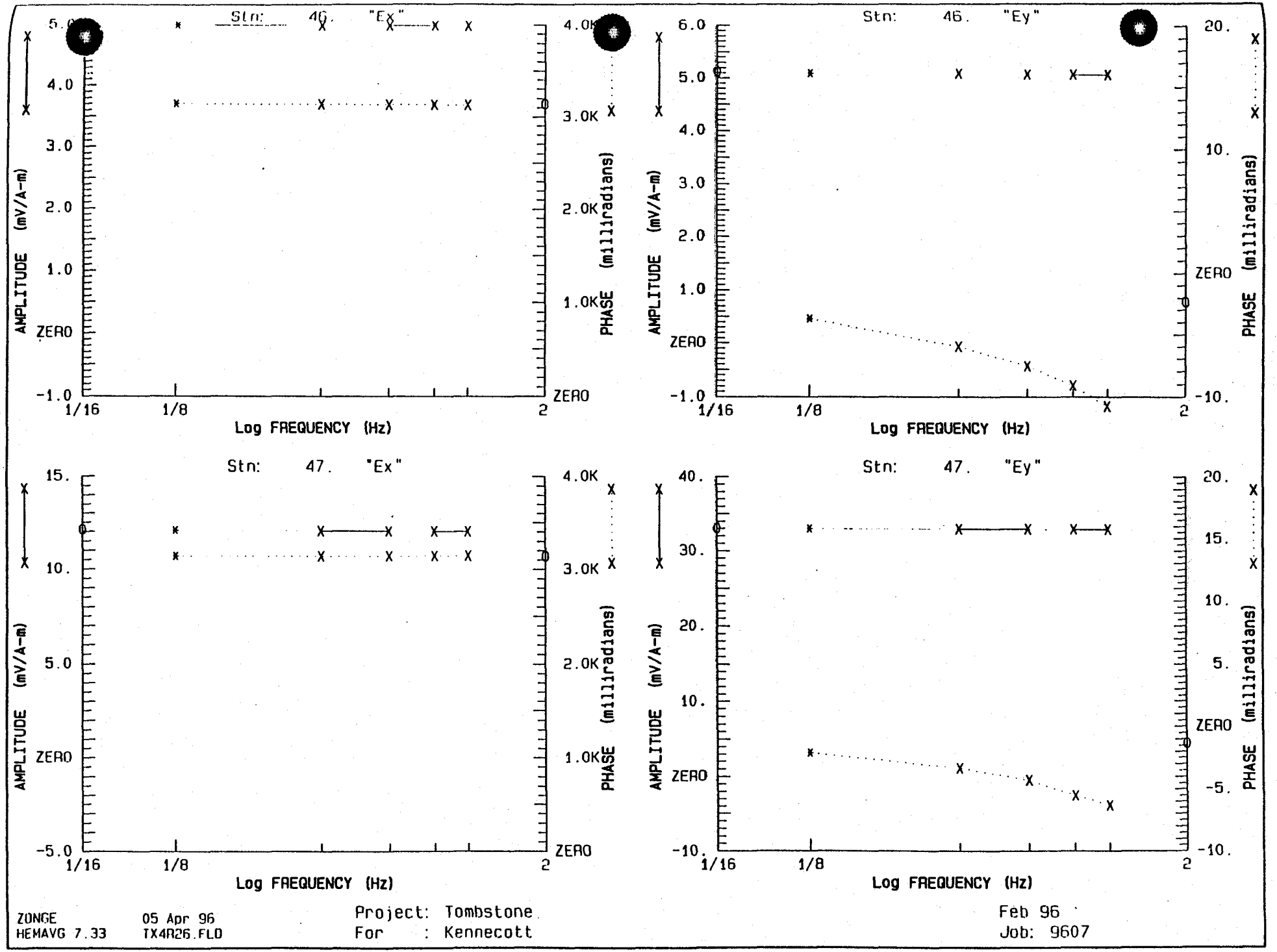
ZONGE
HEMAVG 7.33

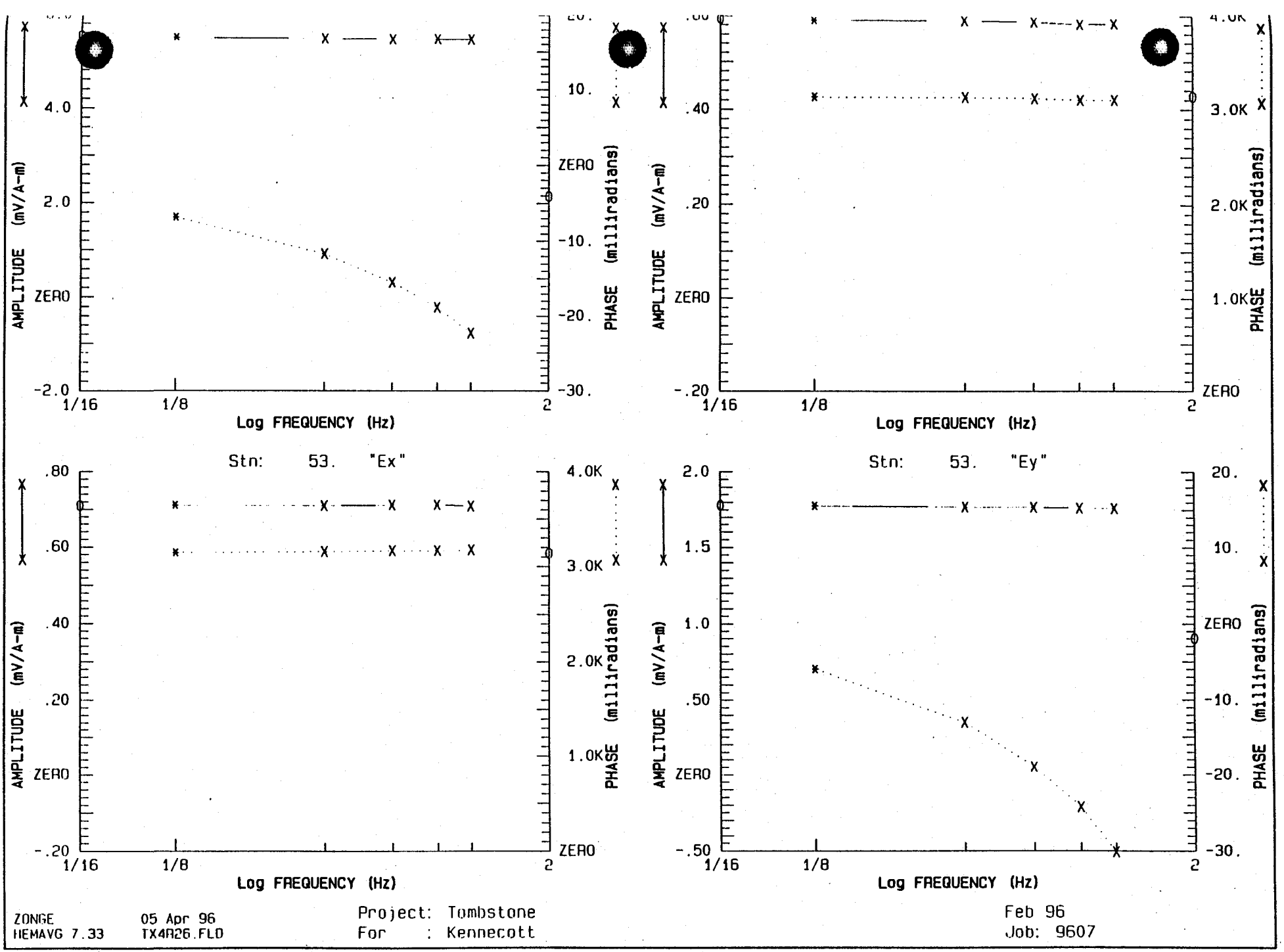
05 Apr 96
TX2R26.FLD

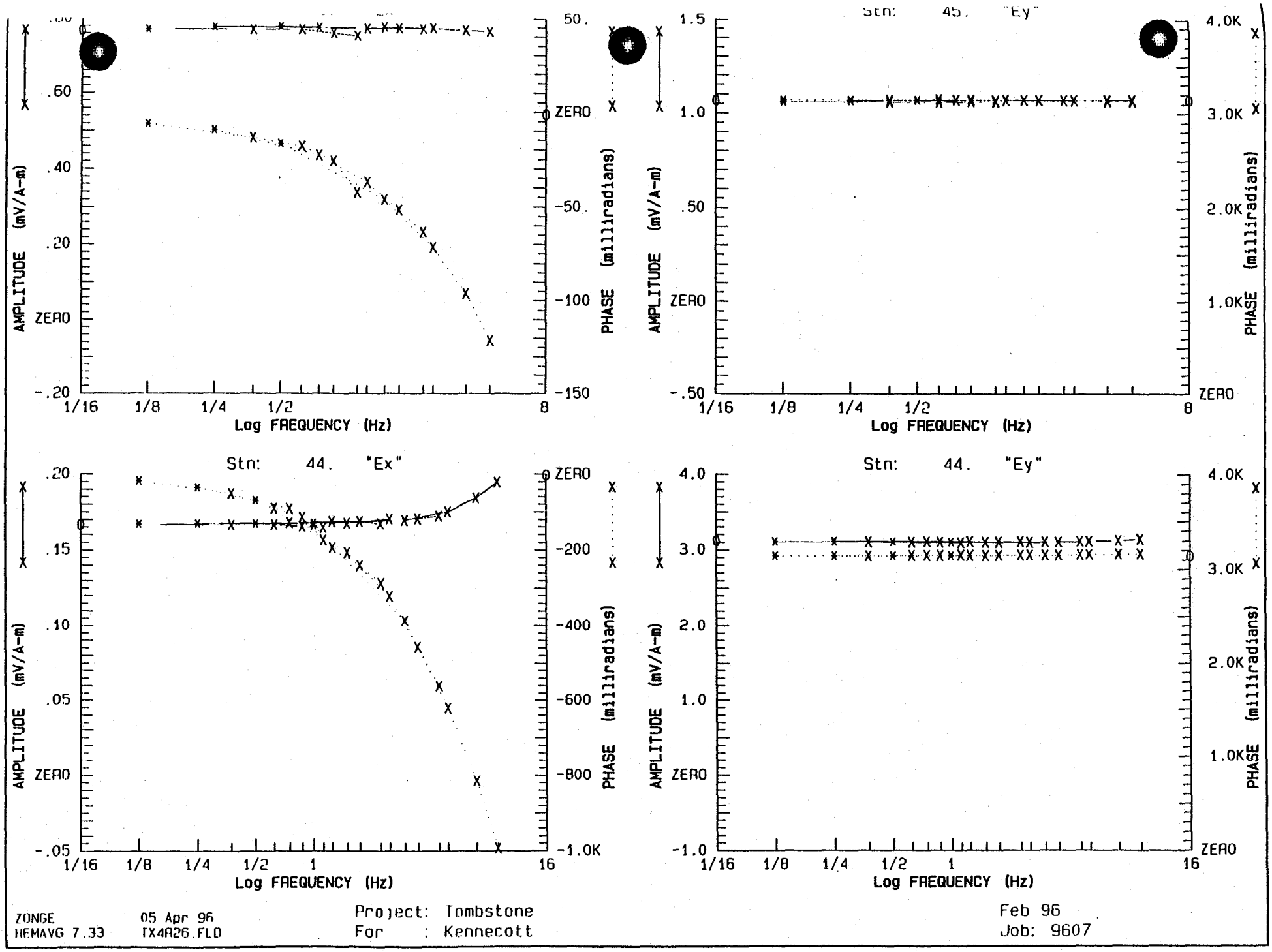
Project: Tombstone
For : Kennecott

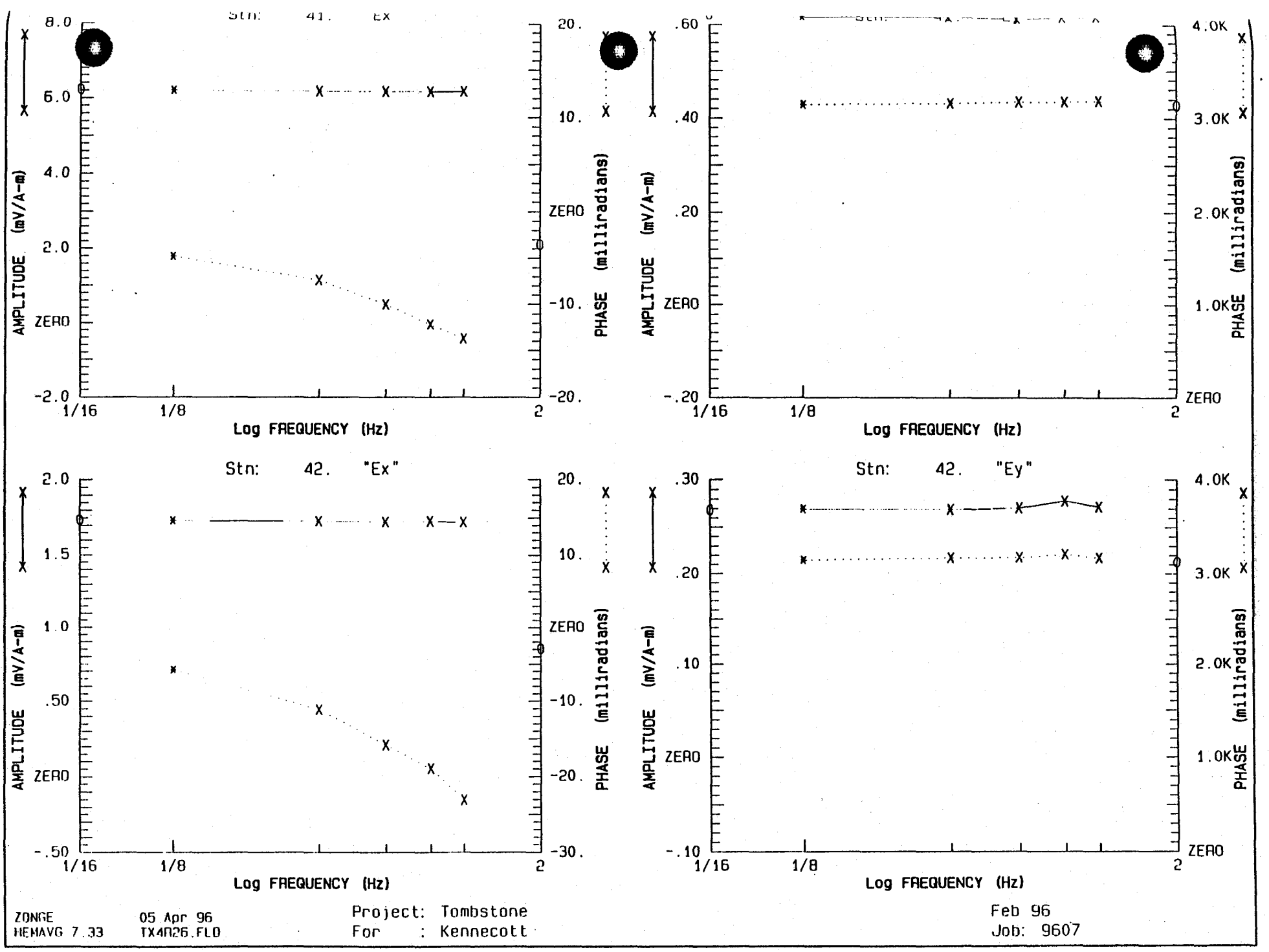
Feb 96
Job: 9607

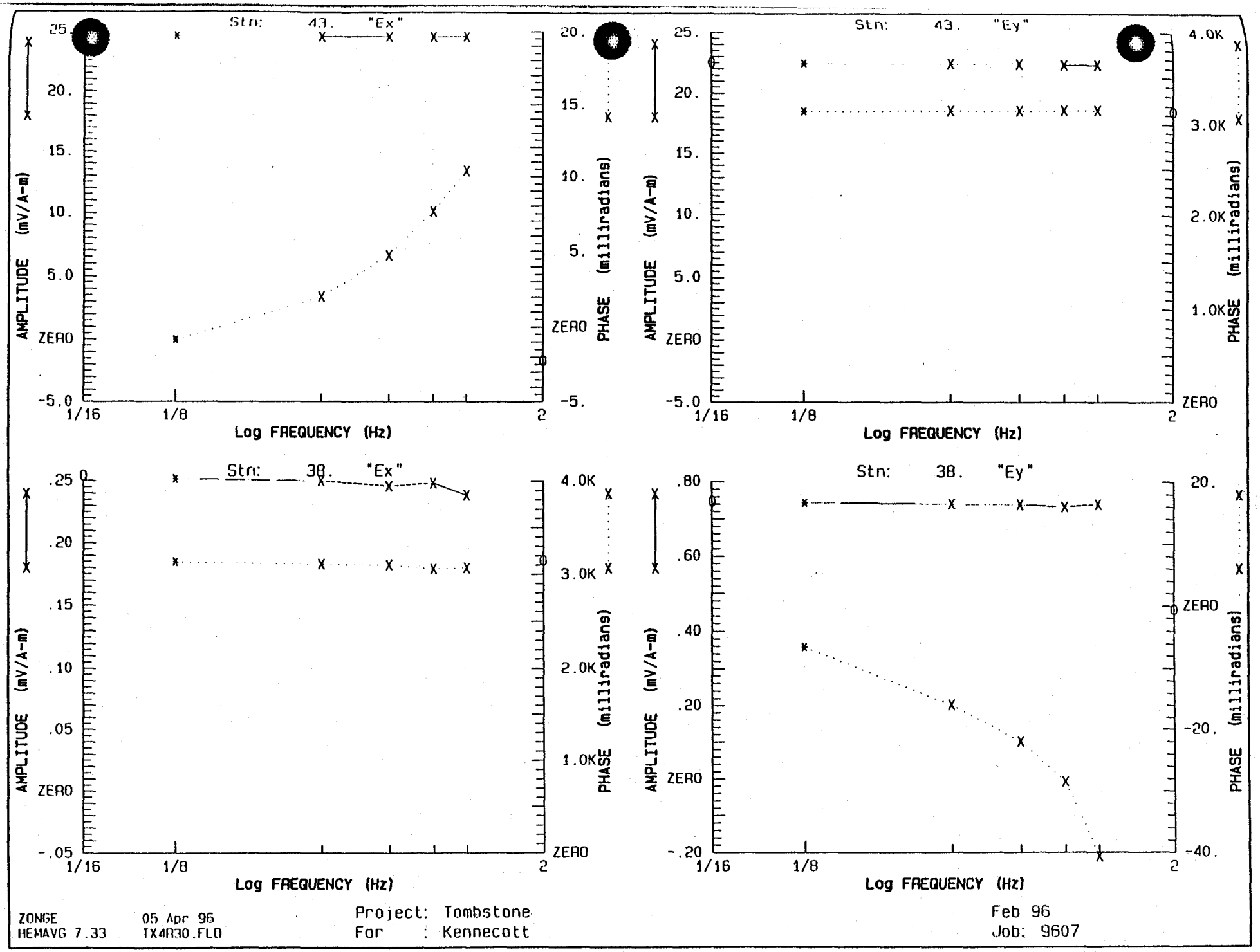

Stn: 27.2 "Ex"
Stn: 27.2 "Ey"
Stn: 17. "Ex"
Stn: 17. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
1/16
1/8
1/4
1/2
8
ZERO
4.0K
3.0K
2.0K
1.0K
.80
.60
.40
.20
-.20
5.0
4.0
3.0
2.0
1.0
-1.0
1.5
.50
-.50
ZONGE
NEMAVG 7.33
05 Apr 96
1X2A30.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607

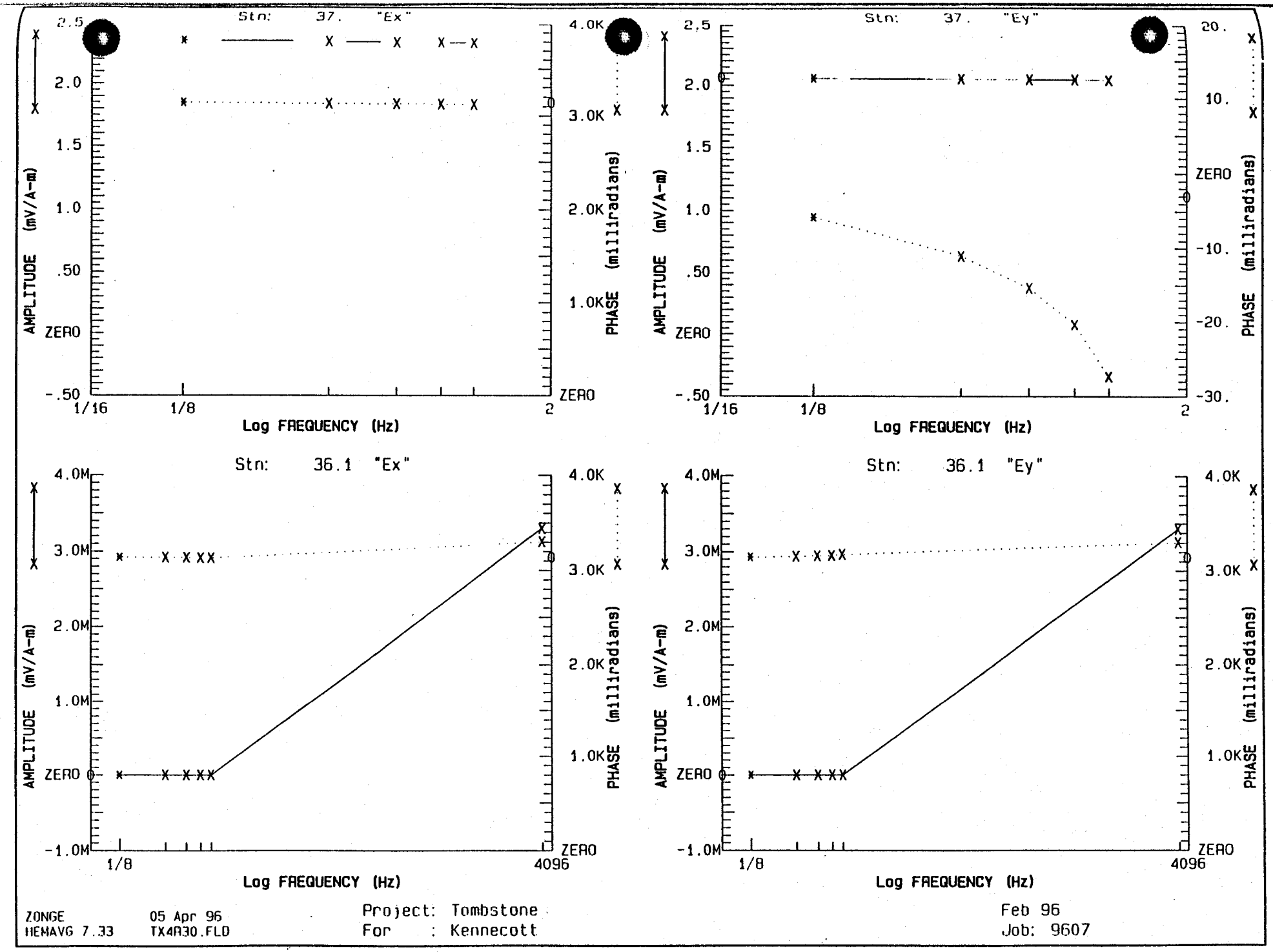

Stn: 46. "Ex"
Stn: 46. "Ey"
Stn: 47. "Ex"
Stn: 47. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
1/16
1/8
2
ZERO
ZONGE
HEMAVG 7.33
05 Apr 96
TX4R26.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607

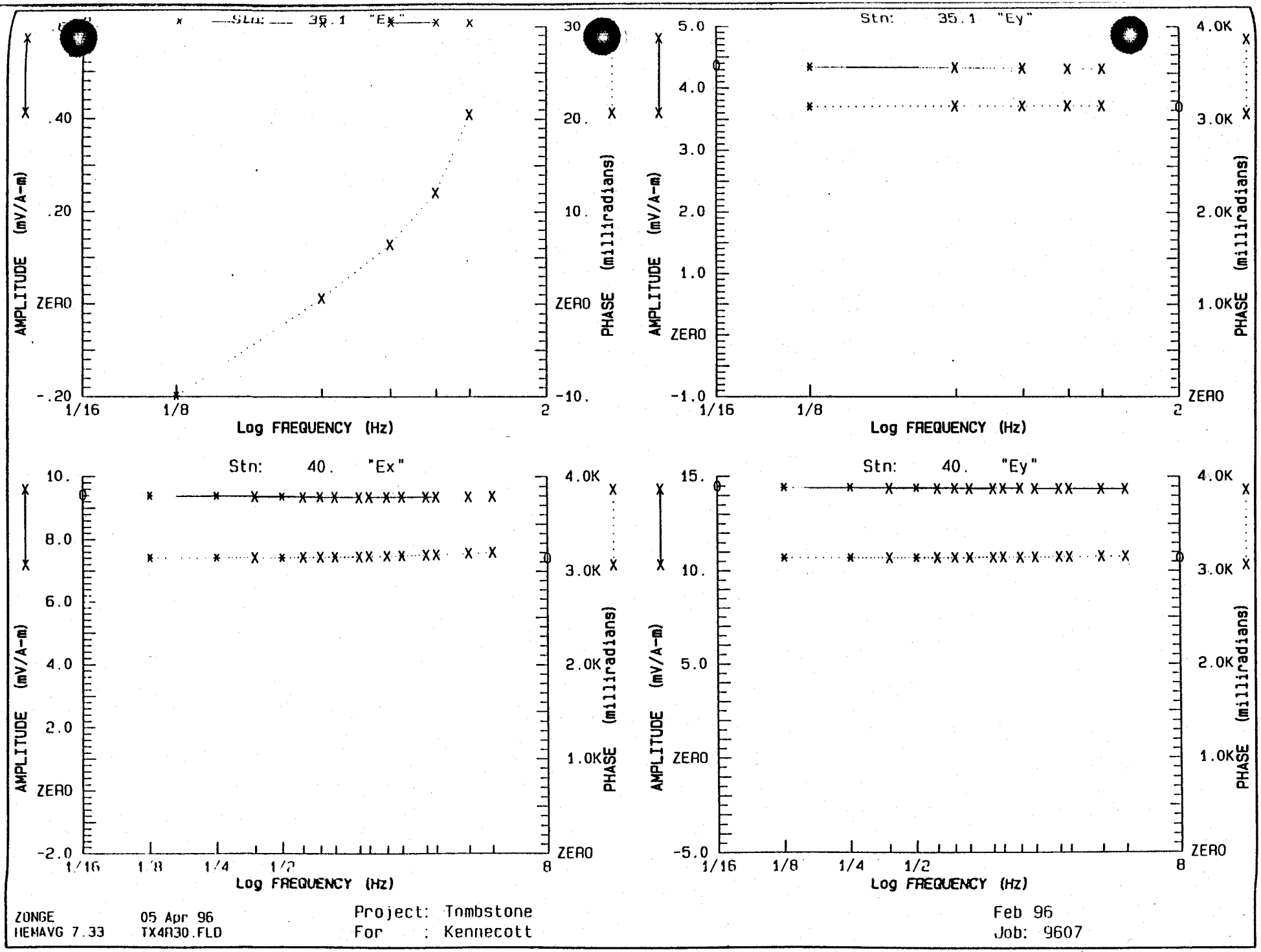

AMPLITUDE (mV/A-m)
4.0
2.0
ZERO
-2.0
PHASE (milliradians)
10.
ZERO
-10.
-20.
-30.
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 53. "Ex"
.80
.60
.40
.20
ZERO
-.20
4.0K
3.0K
2.0K
1.0K
ZERO
Stn: 53. "Ey"
2.0
1.5
1.0
.50
-.50
20.
-30.
ZONGE
NEMAVG 7.33
05 Apr 96
TX4R26.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607

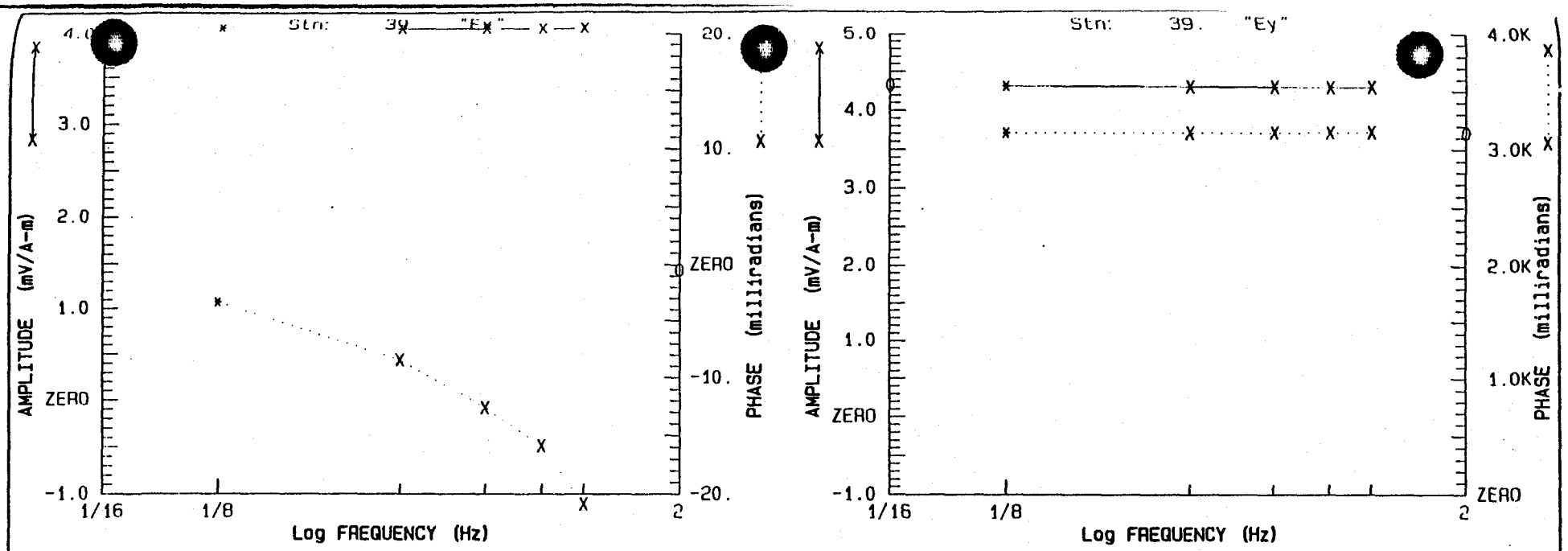

Stn: 45. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
1/16
1/8
1/4
1/2
1
8
16
ZERO
Stn: 44. "Ex"
Stn: 44. "Ey"
ZONGE
NEMAVG 7.33
05 Apr 96
TX4A26.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 41. Ex
8.0
6.0
4.0
2.0
ZERO
-2.0
AMPLITUDE (mV/A-m)
20.
10.
ZERO
-10.
-20.
PHASE (milliradians)
1/16
1/8
2
Log FREQUENCY (Hz)
.60
.40
.20
ZERO
-.20
4.0K
3.0K
2.0K
1.0K
Stn: 42. "Ex"
2.0
1.5
1.0
.50
-.50
-30.
Stn: 42. "Ey"
.30
.10
-.10
ZONGE
HEMAVG 7.33
05 Apr 96
TX4D26.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 43. "Ex"
AMPLITUDE (mV/A-m)
25.
20.
15.
10.
5.0
ZERO
-5.0
PHASE (milliradians)
20.
15.
10.
5.
ZERO
-5.
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 43. "Ey"
AMPLITUDE (mV/A-m)
25.
20.
15.
10.
5.0
ZERO
-5.0
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 38. "Ex"
AMPLITUDE (mV/A-m)
.25
.20
.15
.10
.05
ZERO
-.05
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 38. "Ey"
AMPLITUDE (mV/A-m)
.80
.60
.40
.20
ZERO
-.20
PHASE (milliradians)
20.
ZERO
-20.
-40.
1/16
1/8
2
Log FREQUENCY (Hz)
ZONGE
HEMAVG 7.33
05 Apr 96
TX4R30.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 37. "Ex"
AMPLITUDE (mV/A-m)
2.5
2.0
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 37. "Ey"
AMPLITUDE (mV/A-m)
2.5
2.0
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
20.
10.
ZERO
-10.
-20.
-30.
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 36.1 "Ex"
AMPLITUDE (mV/A-m)
4.0M
3.0M
2.0M
1.0M
ZERO
-1.0M
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/8
4096
Log FREQUENCY (Hz)
Stn: 36.1 "Ey"
AMPLITUDE (mV/A-m)
4.0M
3.0M
2.0M
1.0M
ZERO
-1.0M
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/8
4096
Log FREQUENCY (Hz)
ZONGE
MEMAVG 7.33
05 Apr 96
TX4A30.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607

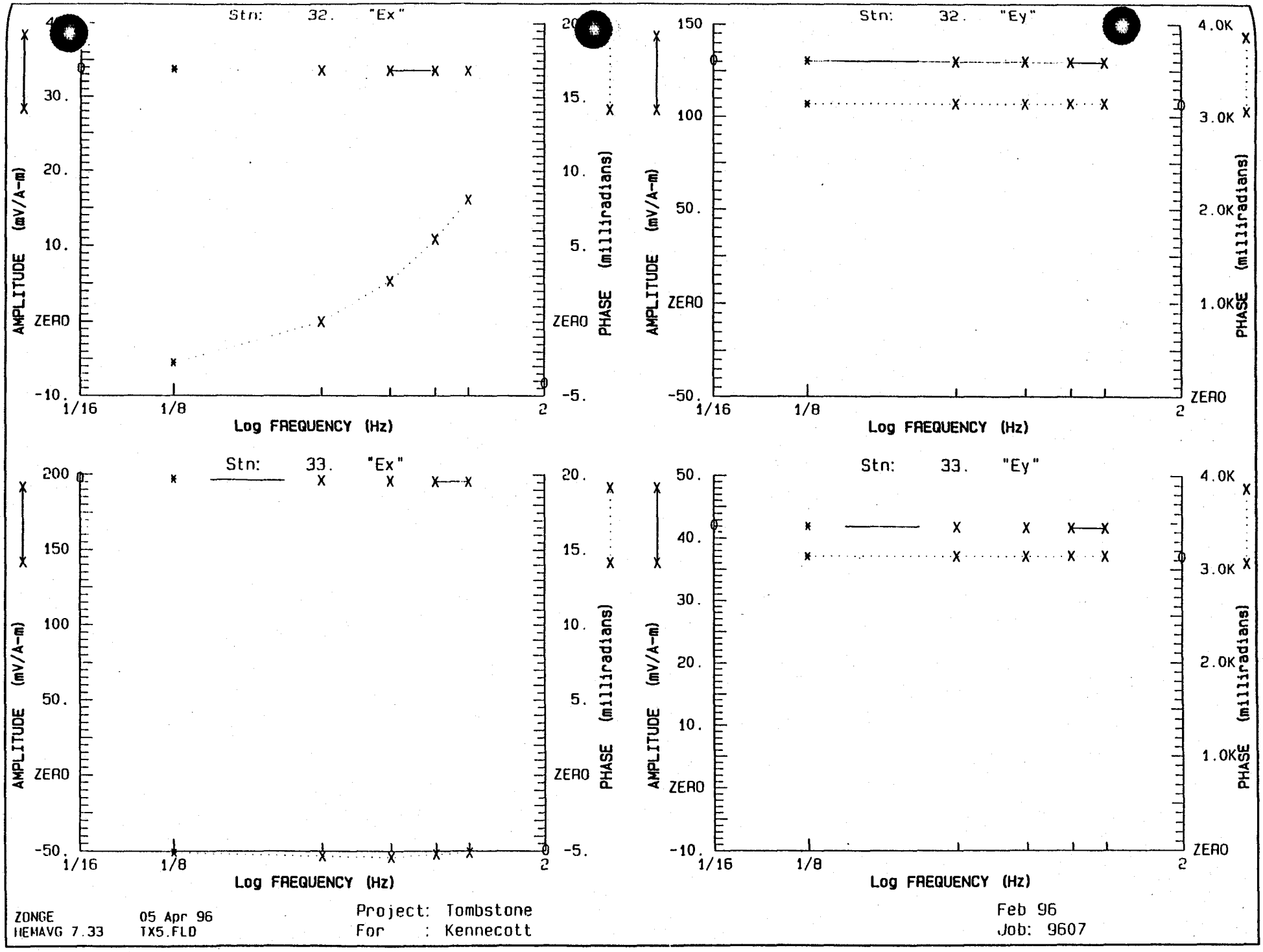

Stn: 35.1 "Ex"
AMPLITUDE (mV/A-m)
.40
.20
ZERO
-.20
PHASE (milliradians)
30
20.
10.
ZERO
-10.
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 35.1 "Ey"
AMPLITUDE (mV/A-m)
5.0
4.0
3.0
2.0
1.0
ZERO
-1.0
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 40. "Ex"
AMPLITUDE (mV/A-m)
10.
8.0
6.0
4.0
2.0
ZERO
-2.0
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
1/4
1/2
8
Log FREQUENCY (Hz)
Stn: 40. "Ey"
AMPLITUDE (mV/A-m)
15.
10.
5.0
ZERO
-5.0
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
1/4
1/2
8
Log FREQUENCY (Hz)
ZONGE
NEMAVG 7.33
05 Apr 96
TX4R30.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607

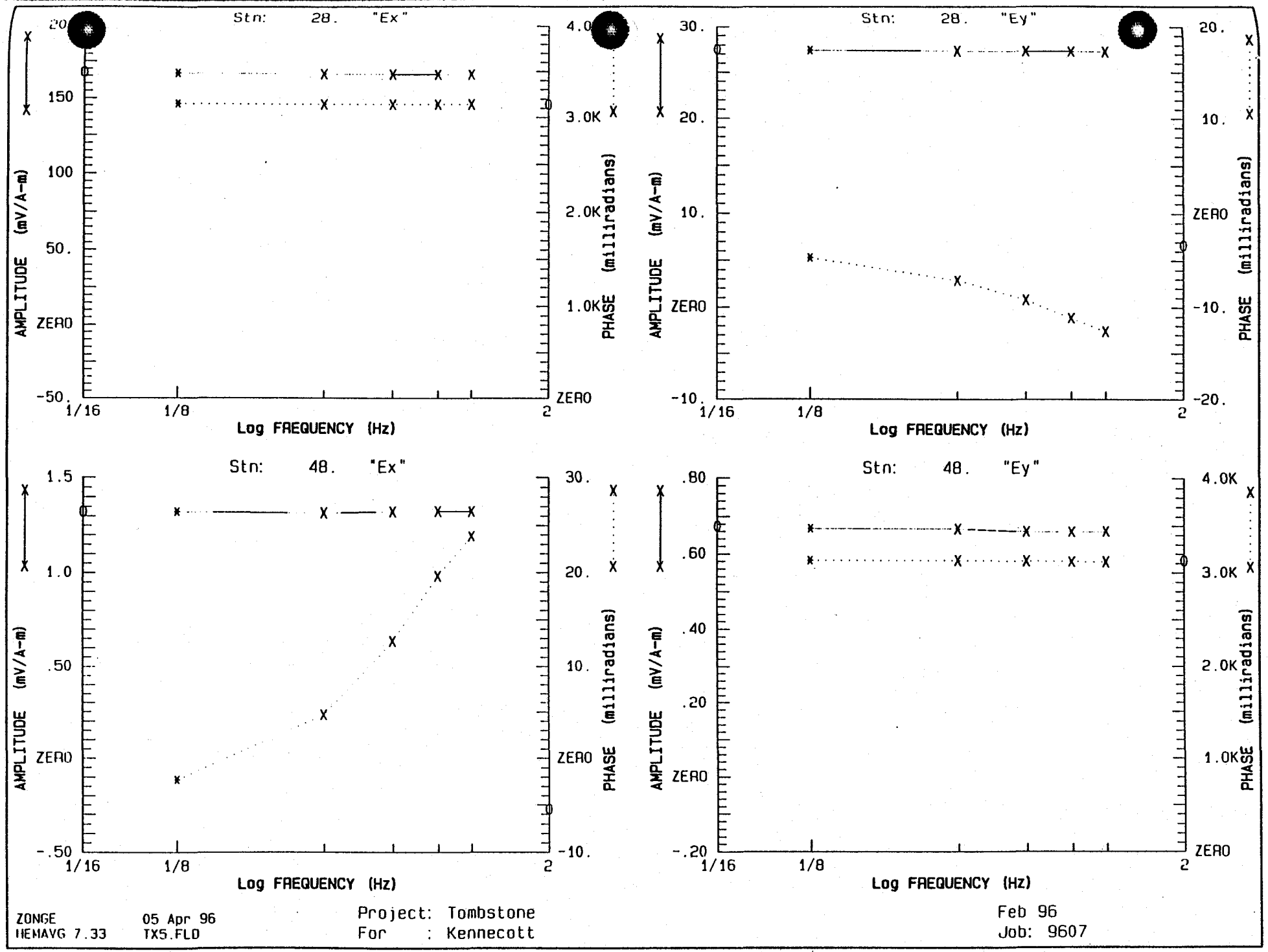


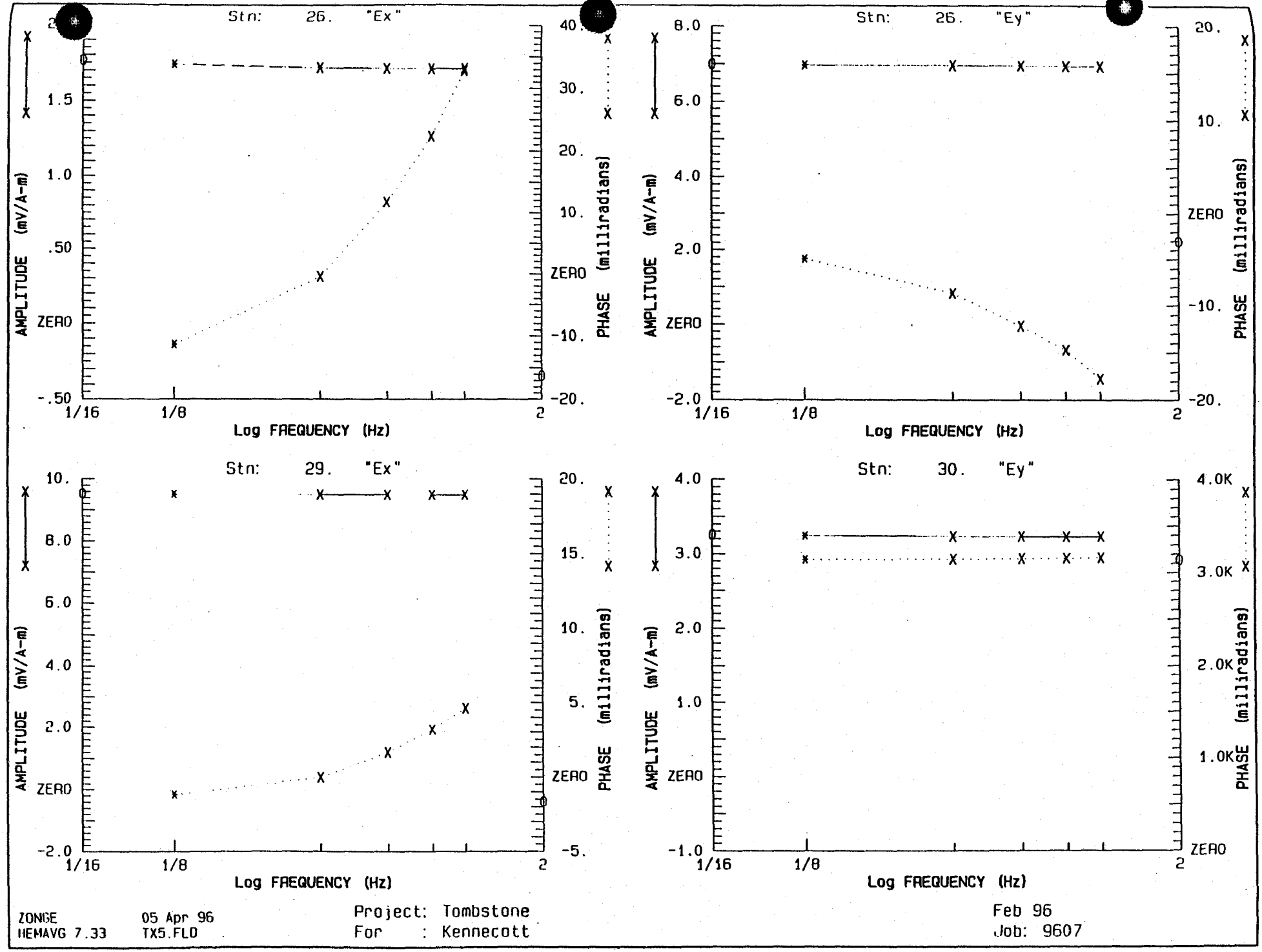
ZONGE 05 Apr 96
HEMAVG 7.33 TX4A30.FLD

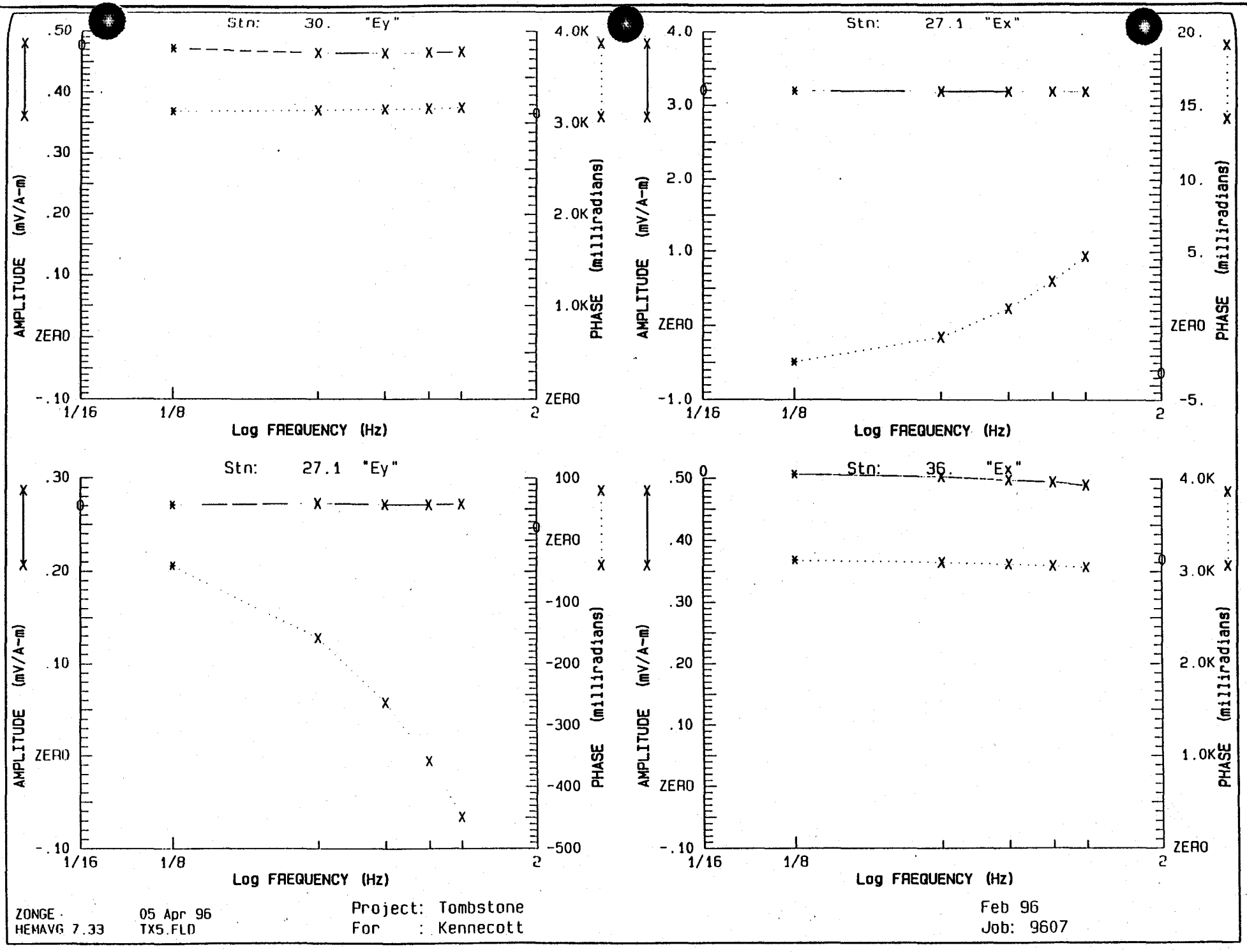
Project: Tombstone
For : Kennecott

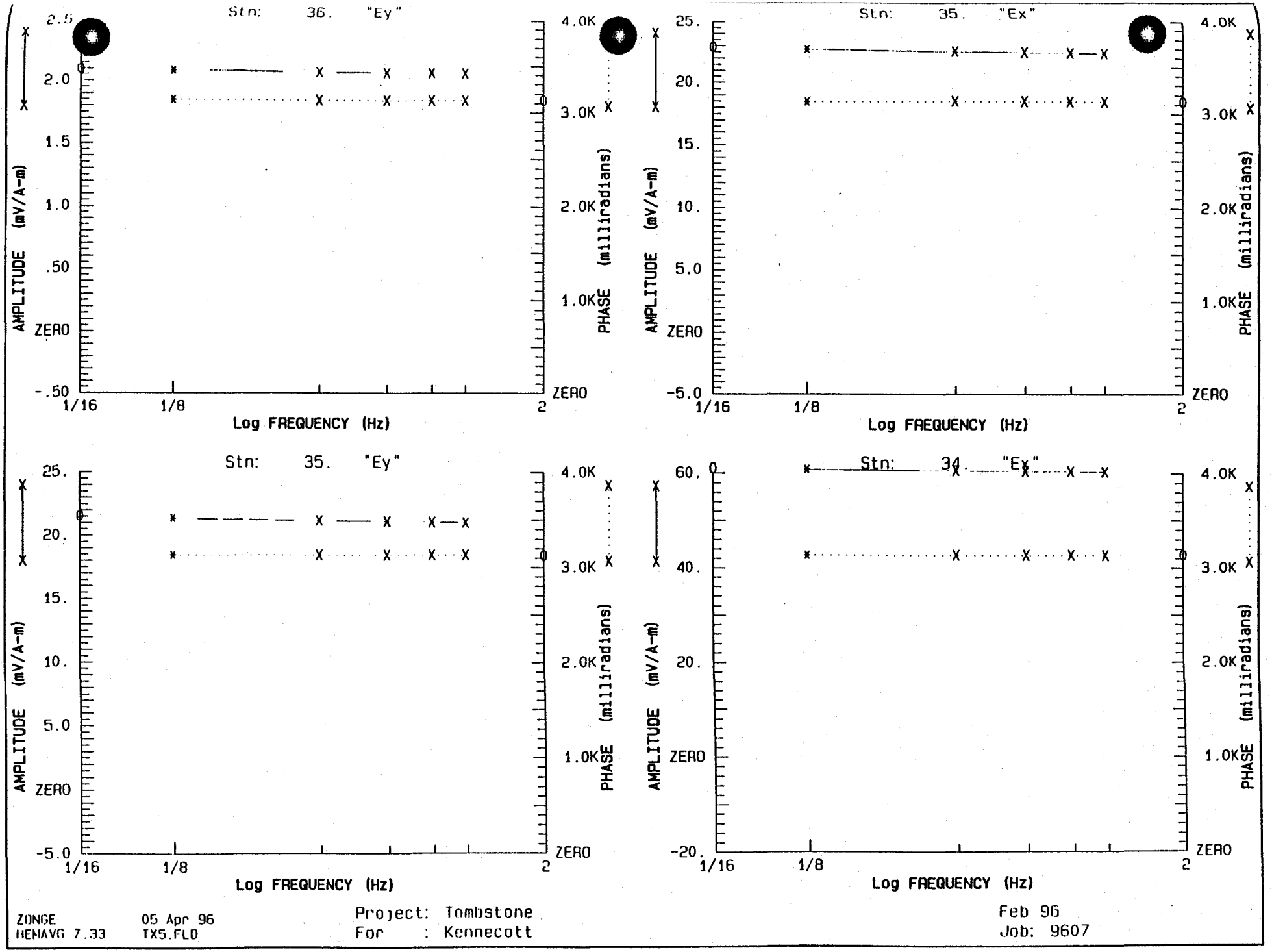
Feb 96
Job: 9607


Stn: 32. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
1/16
1/8
2
ZERO
Stn: 32. "Ey"
Stn: 33. "Ex"
Stn: 33. "Ey"
ZONGE
NEMAVG 7.33
05 Apr 96
TX5.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 28. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 28. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 48. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 48. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
ZONGE
NEMAVG 7.33
05 Apr 96
TX5.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 26. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
1/16
1/8
2
ZERO
Stn: 26. "Ey"
Stn: 29. "Ex"
Stn: 30. "Ey"
ZONGE
HEMAVG 7.33
05 Apr 96
TX5.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 30. "Ey"
AMPLITUDE (mV/A-m)
.50
.40
.30
.20
.10
ZERO
-.10
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 27.1 "Ex"
AMPLITUDE (mV/A-m)
4.0
3.0
2.0
1.0
ZERO
-1.0
PHASE (milliradians)
20.
15.
10.
5.
ZERO
-5.
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 27.1 "Ey"
AMPLITUDE (mV/A-m)
.30
.20
.10
ZERO
-.10
PHASE (milliradians)
100
ZERO
-100
-200
-300
-400
-500
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 36. "Ex"
AMPLITUDE (mV/A-m)
.50
.40
.30
.20
.10
ZERO
-.10
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
ZONGE
HEMAVG 7.33
05 Apr 96
TX5.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607

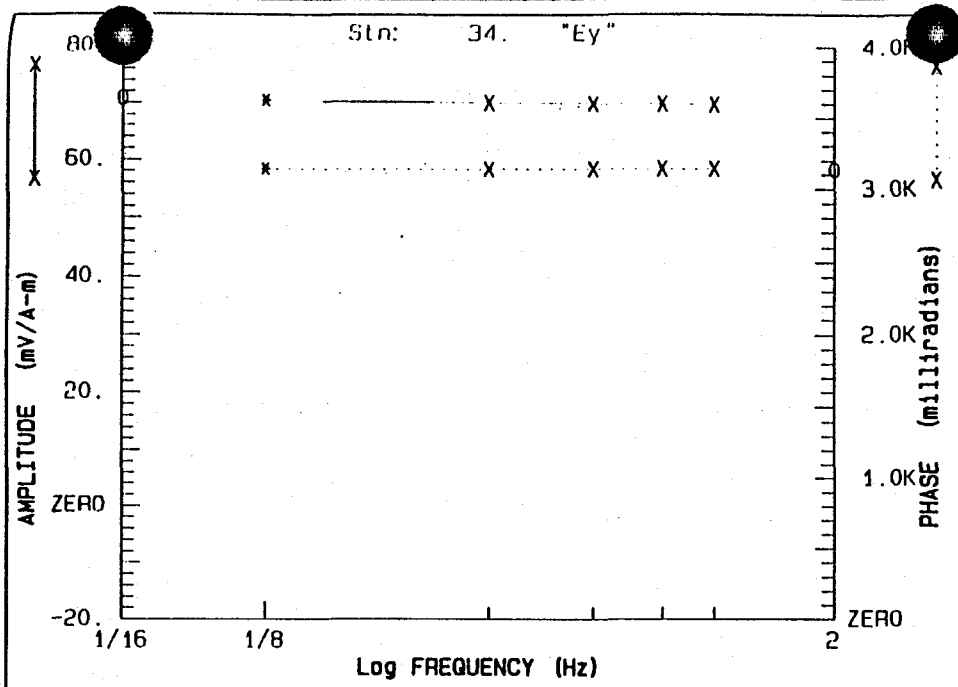


ZONGE
NEMAVG 7.33

05 Apr 96
TX5.FLD

Project: Tombstone
For : Kennecott

Feb 96
Job: 9607

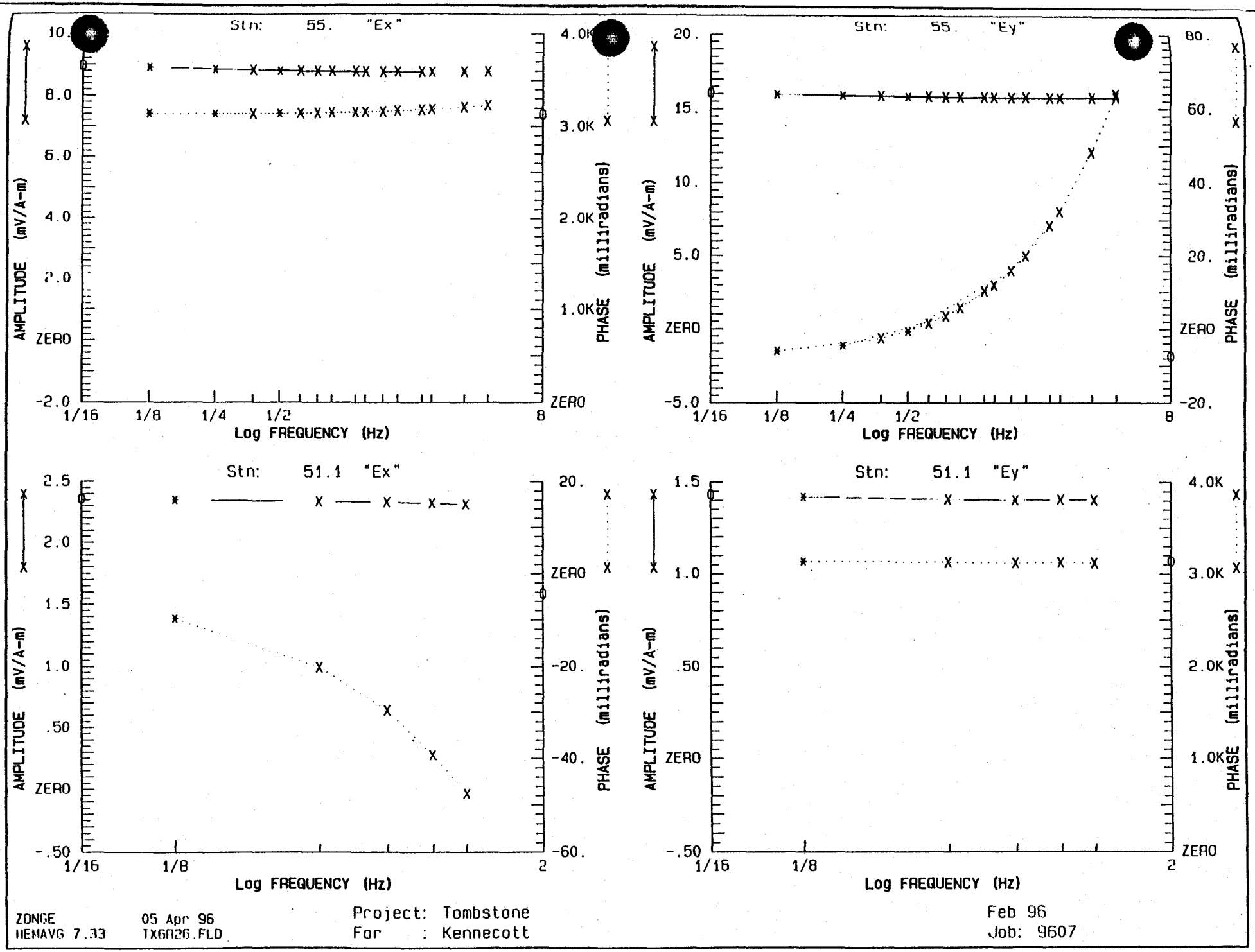


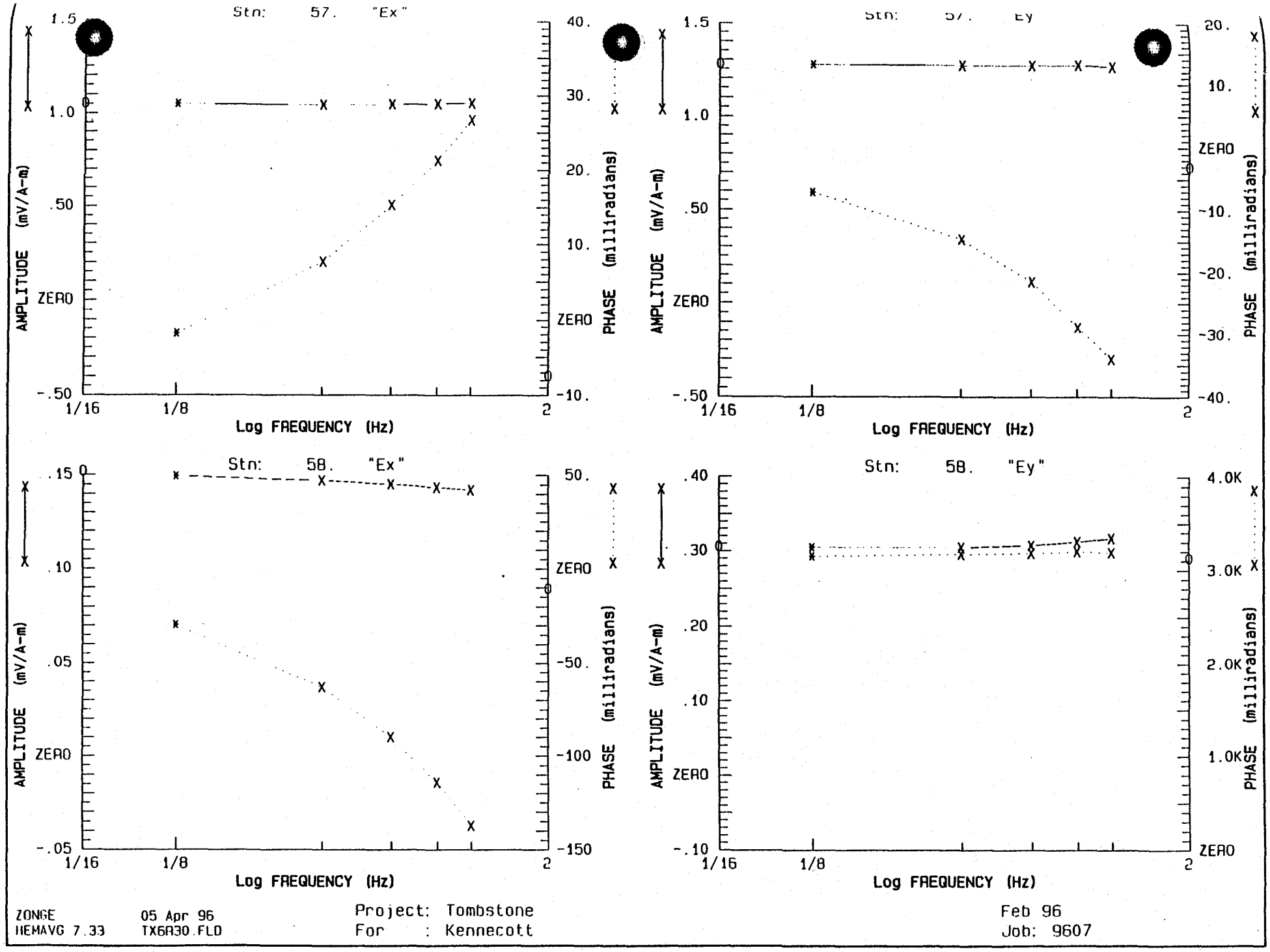
ZONGE
HEMAVG 7.33

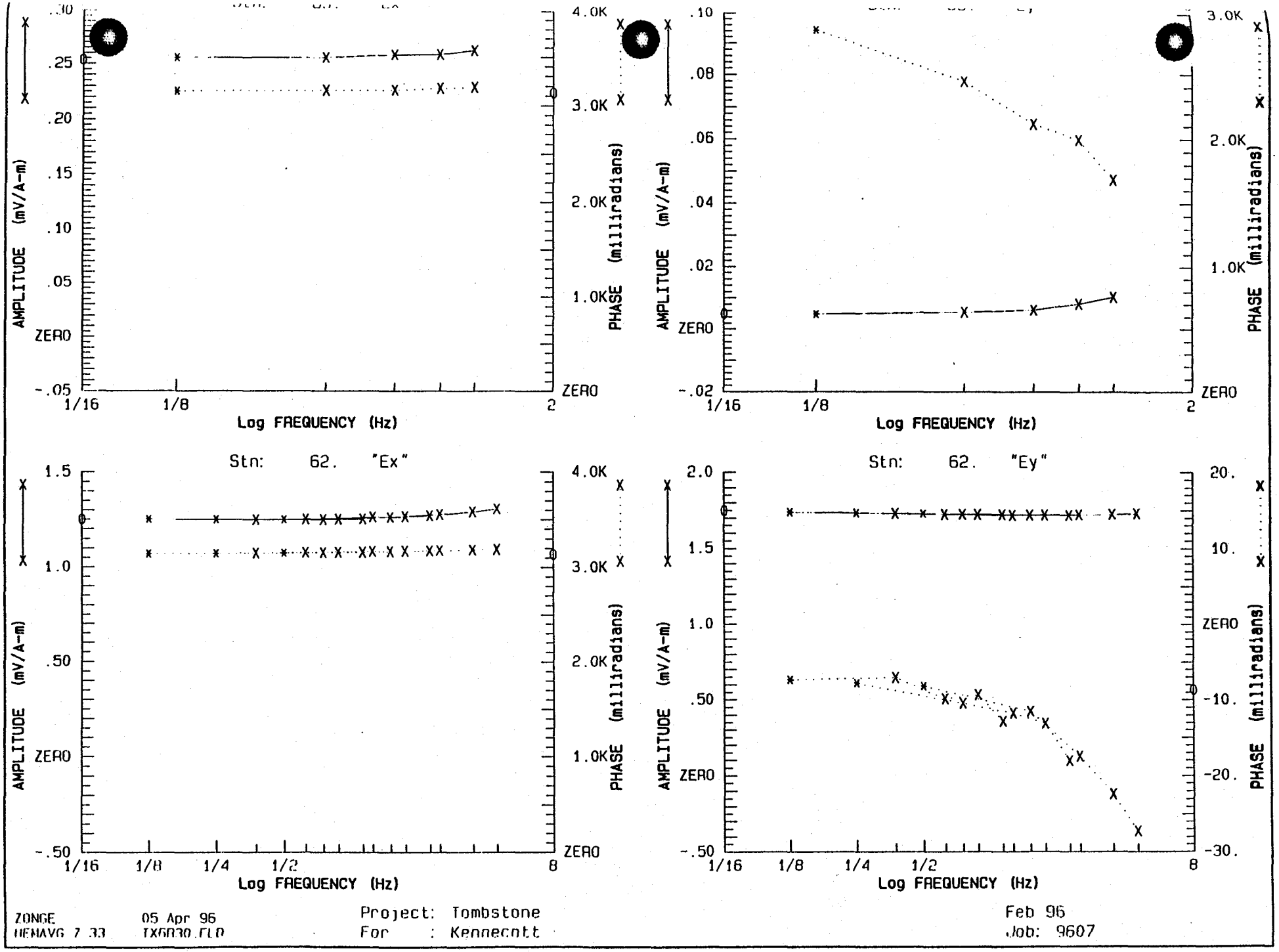
05 Apr 96
TX5.FLD

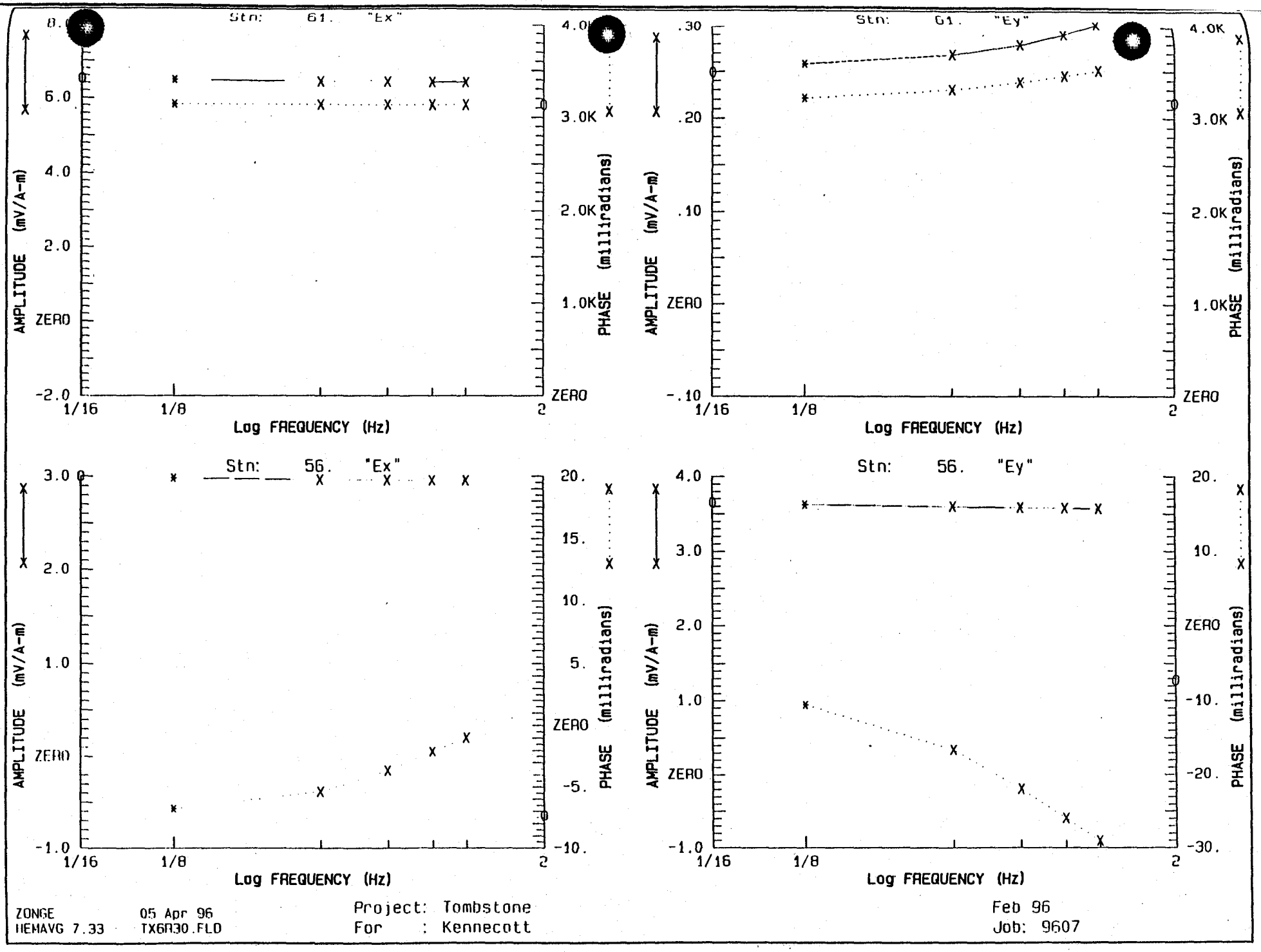
Project: Tombstone
For : Kennecott

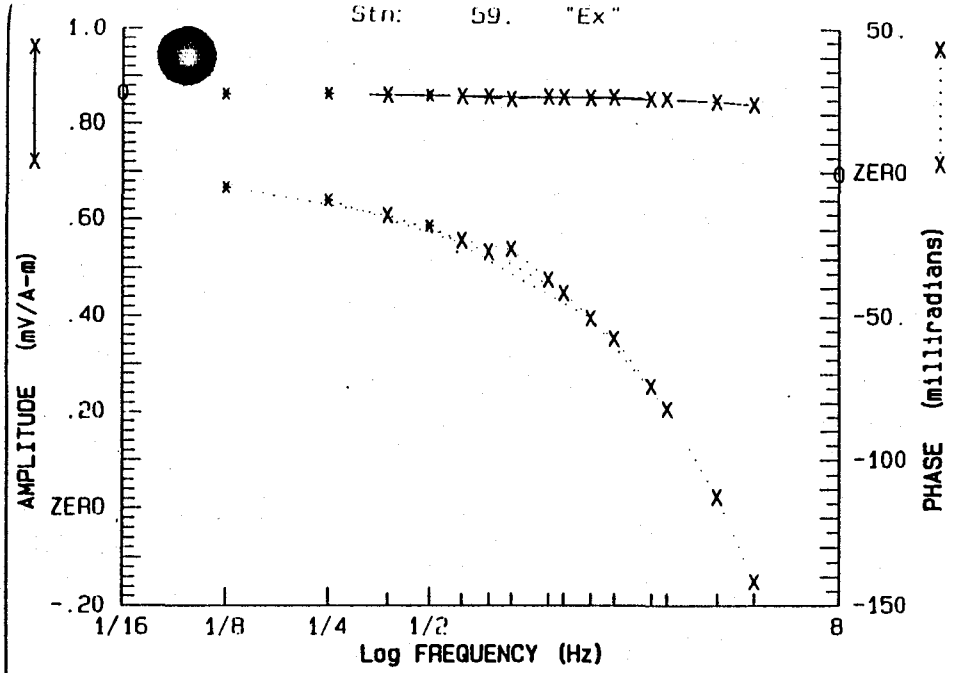
Feb 96
Job: 9607

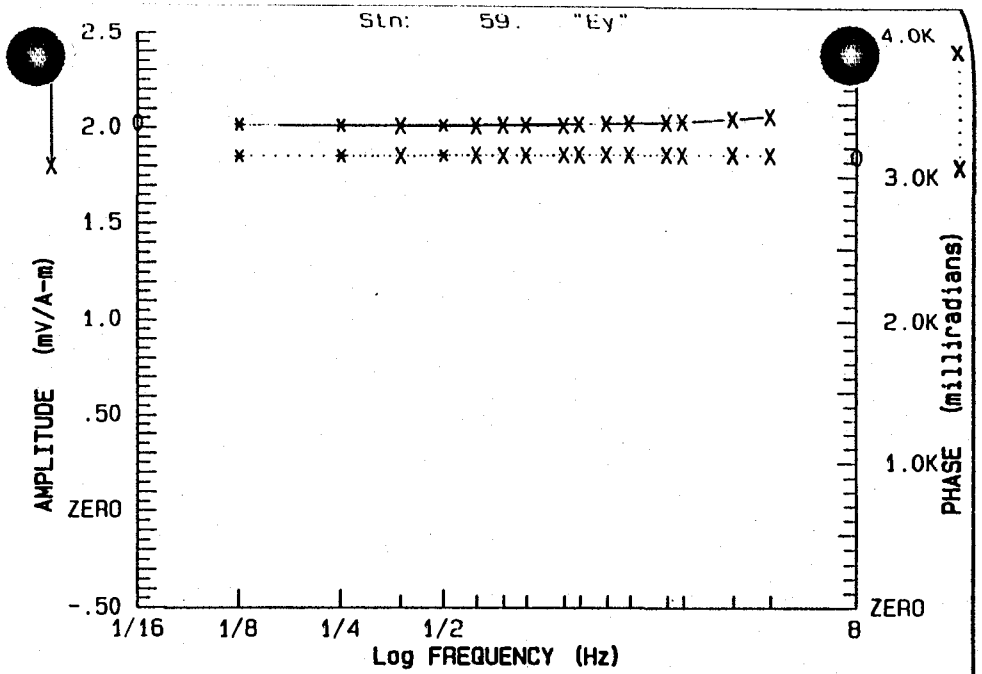

Stn: 55. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 55. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 51.1 "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 51.1 "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
ZONGE
NEMAVG 7.33
05 Apr 96
TX6026.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 57. "Ex"
AMPLITUDE (mV/A-m)
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
40.
30.
20.
10.
ZERO
-10.
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 57. "Ey"
AMPLITUDE (mV/A-m)
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
20.
10.
ZERO
-10.
-20.
-30.
-40.
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 58. "Ex"
AMPLITUDE (mV/A-m)
.15
.10
.05
ZERO
-.05
PHASE (milliradians)
50.
ZERO
-50.
-100
-150
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 58. "Ey"
AMPLITUDE (mV/A-m)
.40
.30
.20
.10
ZERO
-.10
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
ZONGE
HEMAVG 7.33
05 Apr 96
TX6R30.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


AMPLITUDE (mV/A-m)
.30
.25
.20
.15
.10
.05
ZERO
-.05
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
AMPLITUDE (mV/A-m)
.10
.08
.06
.04
.02
ZERO
-.02
PHASE (milliradians)
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 62. "Ex"
AMPLITUDE (mV/A-m)
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
1/4
1/2
8
Log FREQUENCY (Hz)
Stn: 62. "Ey"
AMPLITUDE (mV/A-m)
2.0
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
20.
10.
ZERO
-10.
-20.
-30.
1/16
1/8
1/4
1/2
8
Log FREQUENCY (Hz)
ZONGE
NEMAVG 7.33
05 Apr 96
TX0030.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 61. "Ex"
AMPLITUDE (mV/A-m)
6.0
4.0
2.0
ZERO
-2.0
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 61. "Ey"
AMPLITUDE (mV/A-m)
.30
.20
.10
ZERO
-.10
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 56. "Ex"
AMPLITUDE (mV/A-m)
3.0
2.0
1.0
ZERO
-1.0
PHASE (milliradians)
20.
15.
10.
5.
ZERO
-5.
-10.
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 56. "Ey"
AMPLITUDE (mV/A-m)
4.0
3.0
2.0
1.0
ZERO
-1.0
PHASE (milliradians)
20.
10.
ZERO
-10.
-20.
-30.
1/16
1/8
2
Log FREQUENCY (Hz)
ZONGE
NEMAVG 7.33
05 Apr 96
TX6R30.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607

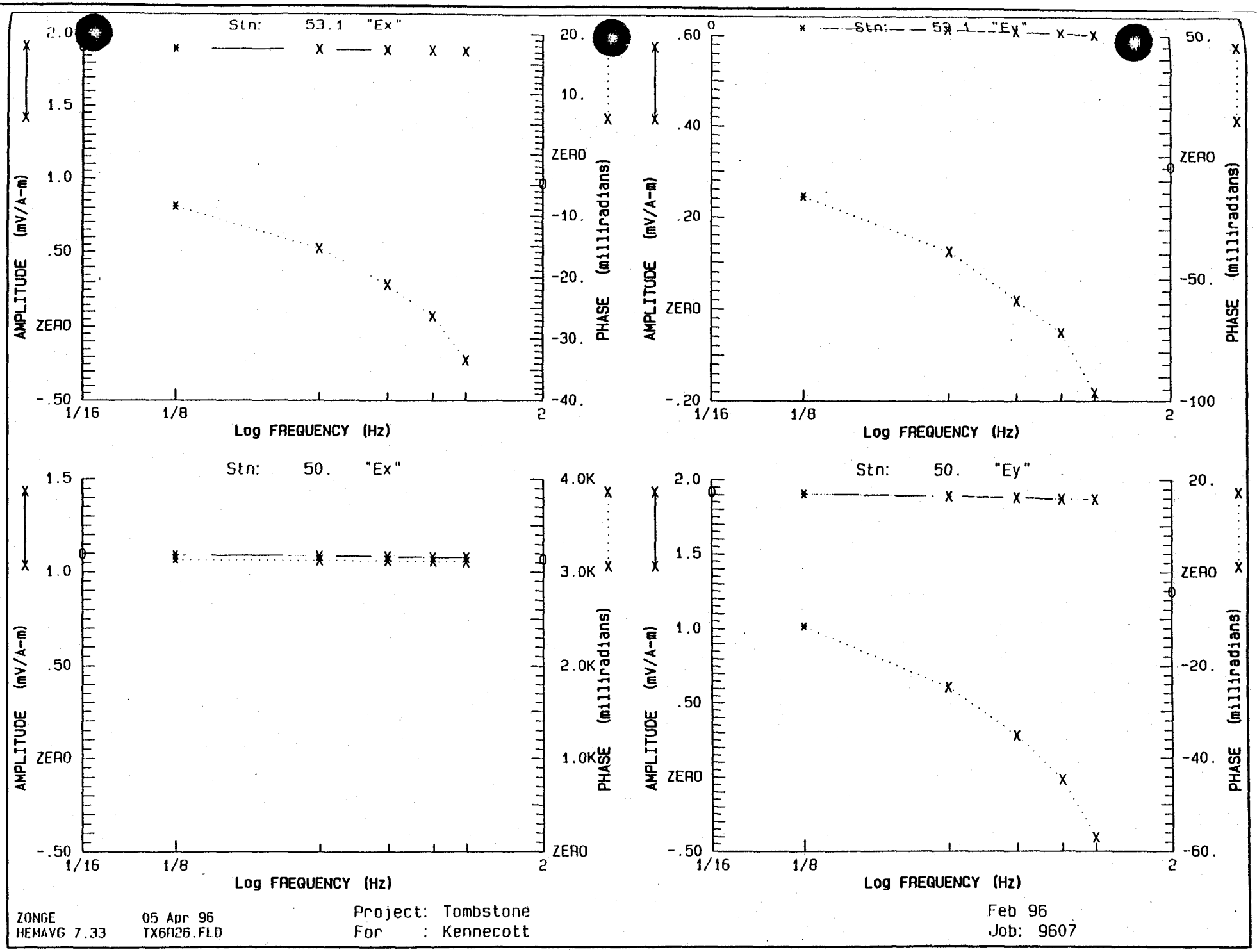


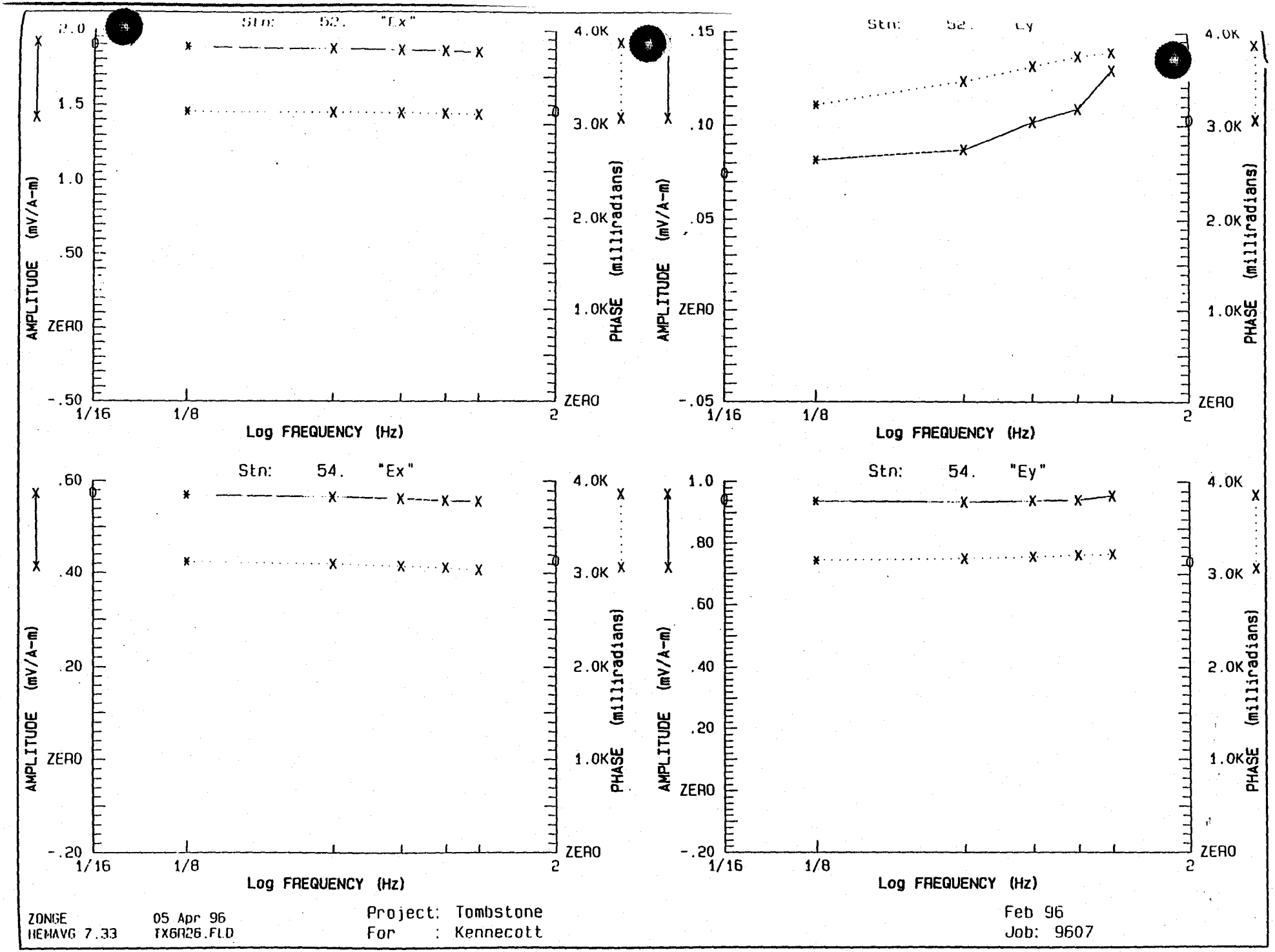


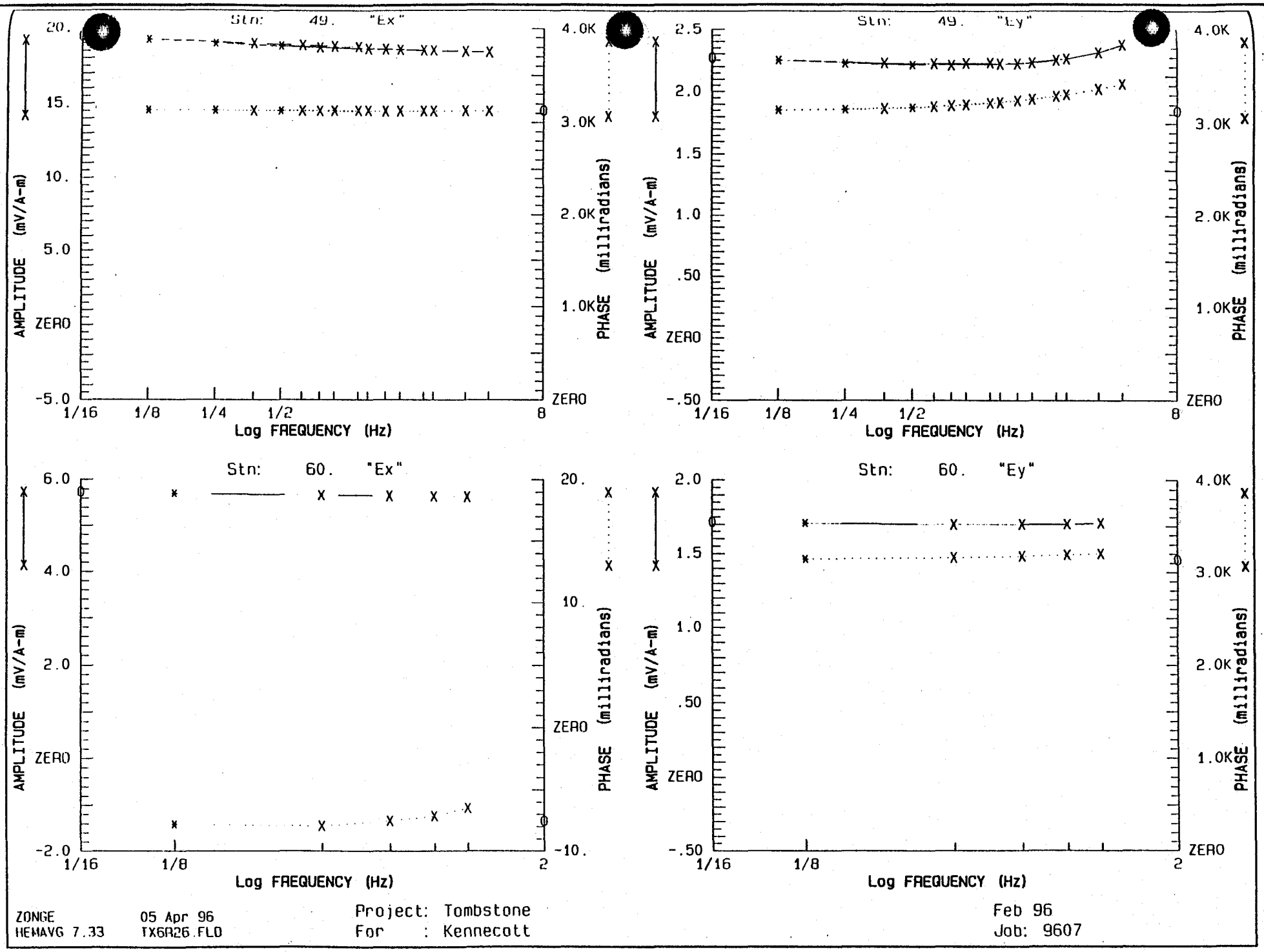
ZONGE 05 Apr 96
HENAVG 7.33 TX6030.FLD

Project: Tombstone
For : Kennecott

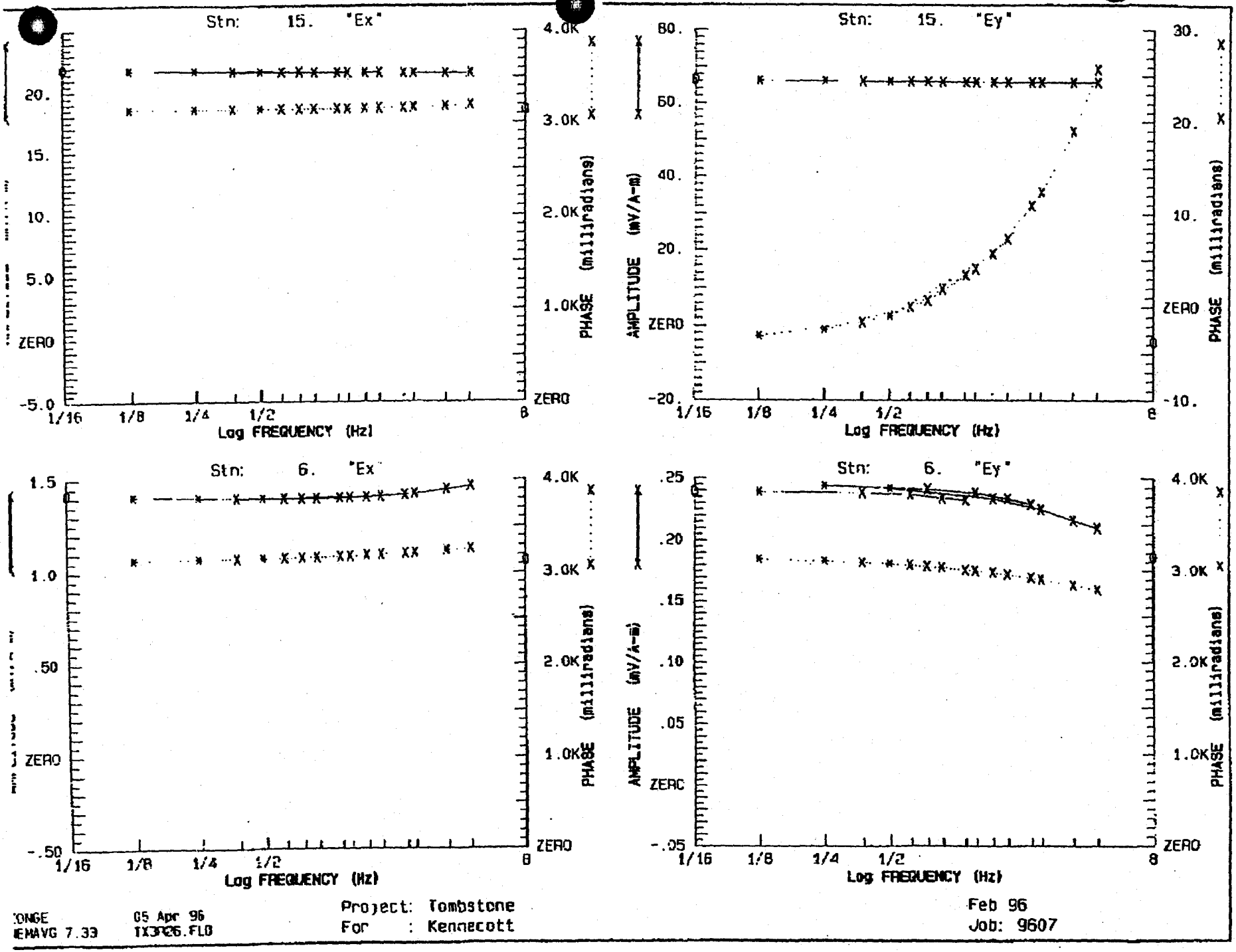
Feb 96
Job: 9607

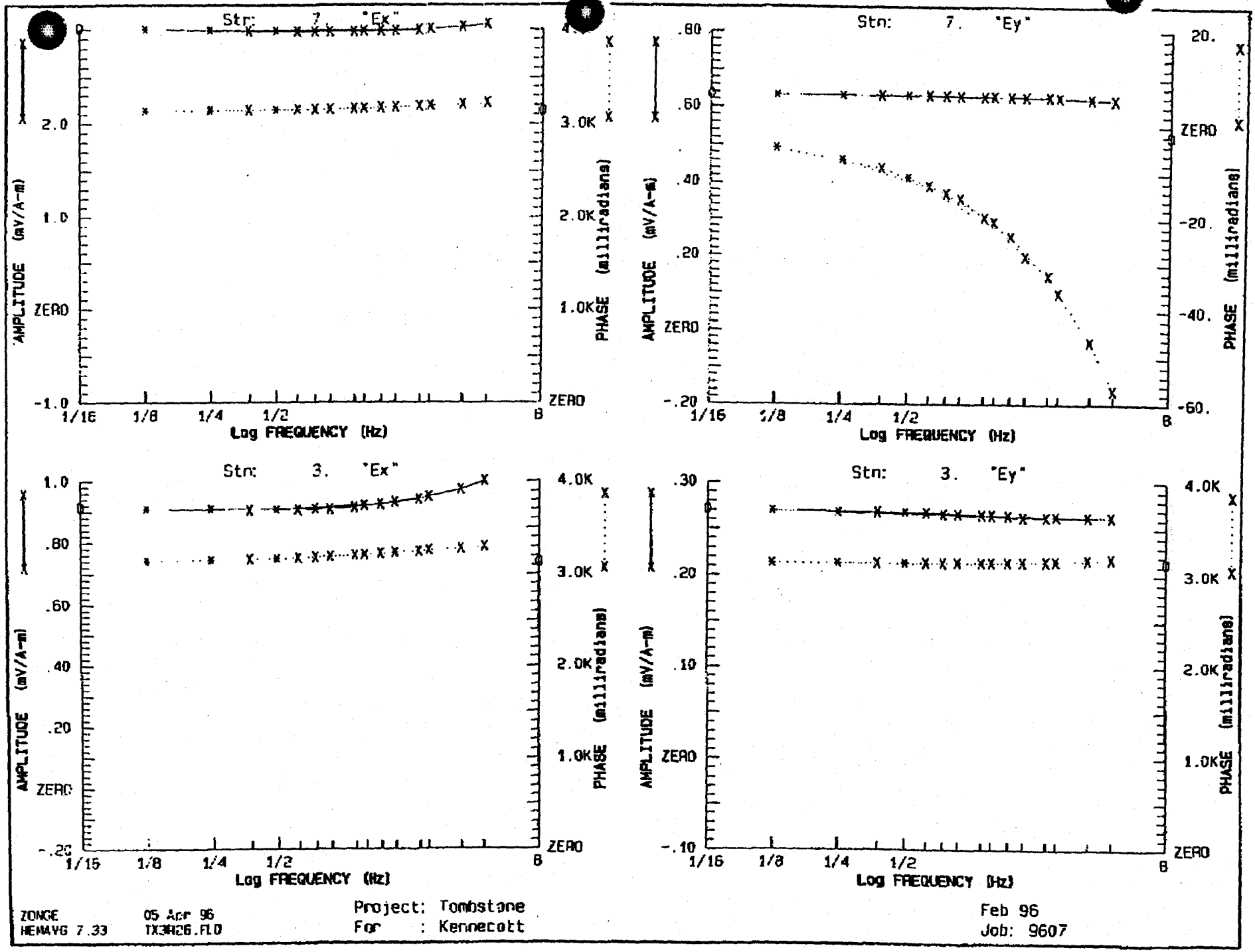

Stn: 53.1 "Ex"
AMPLITUDE (mV/A-m)
2.0
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
20.
10.
ZERO
-10.
-20.
-30.
-40.
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 53.1 "Ey"
AMPLITUDE (mV/A-m)
.60
.40
.20
ZERO
-.20
PHASE (milliradians)
50.
ZERO
-50.
-100
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 50. "Ex"
AMPLITUDE (mV/A-m)
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 50. "Ey"
AMPLITUDE (mV/A-m)
2.0
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
20.
ZERO
-20.
-40.
-60.
1/16
1/8
2
Log FREQUENCY (Hz)
ZONGE
HEMAVG 7.33
05 Apr 96
TX6A26.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607

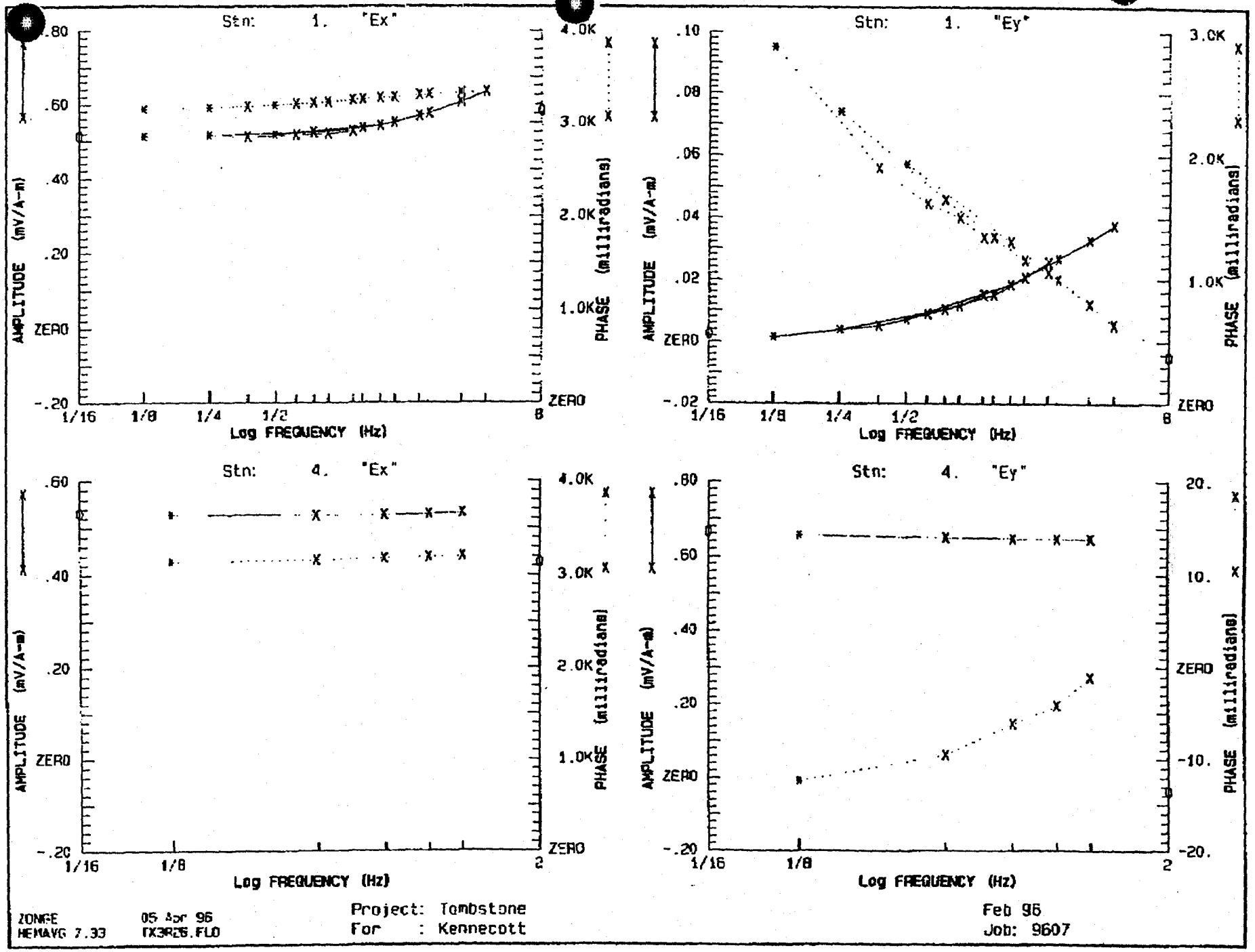

Stn: 52. "Ex"
2.0
1.5
1.0
.50
ZERO
-.50
AMPLITUDE (mV/A-m)
4.0K
3.0K
2.0K
1.0K
ZERO
PHASE (milliradians)
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 52. "Ey"
.15
.10
.05
ZERO
-.05
Stn: 54. "Ex"
.60
.40
.20
ZERO
-.20
Stn: 54. "Ey"
1.0
.80
.60
.40
.20
ZERO
-.20
ZONGE
NEMAVG 7.33
05 Apr 96
TX6R26.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607

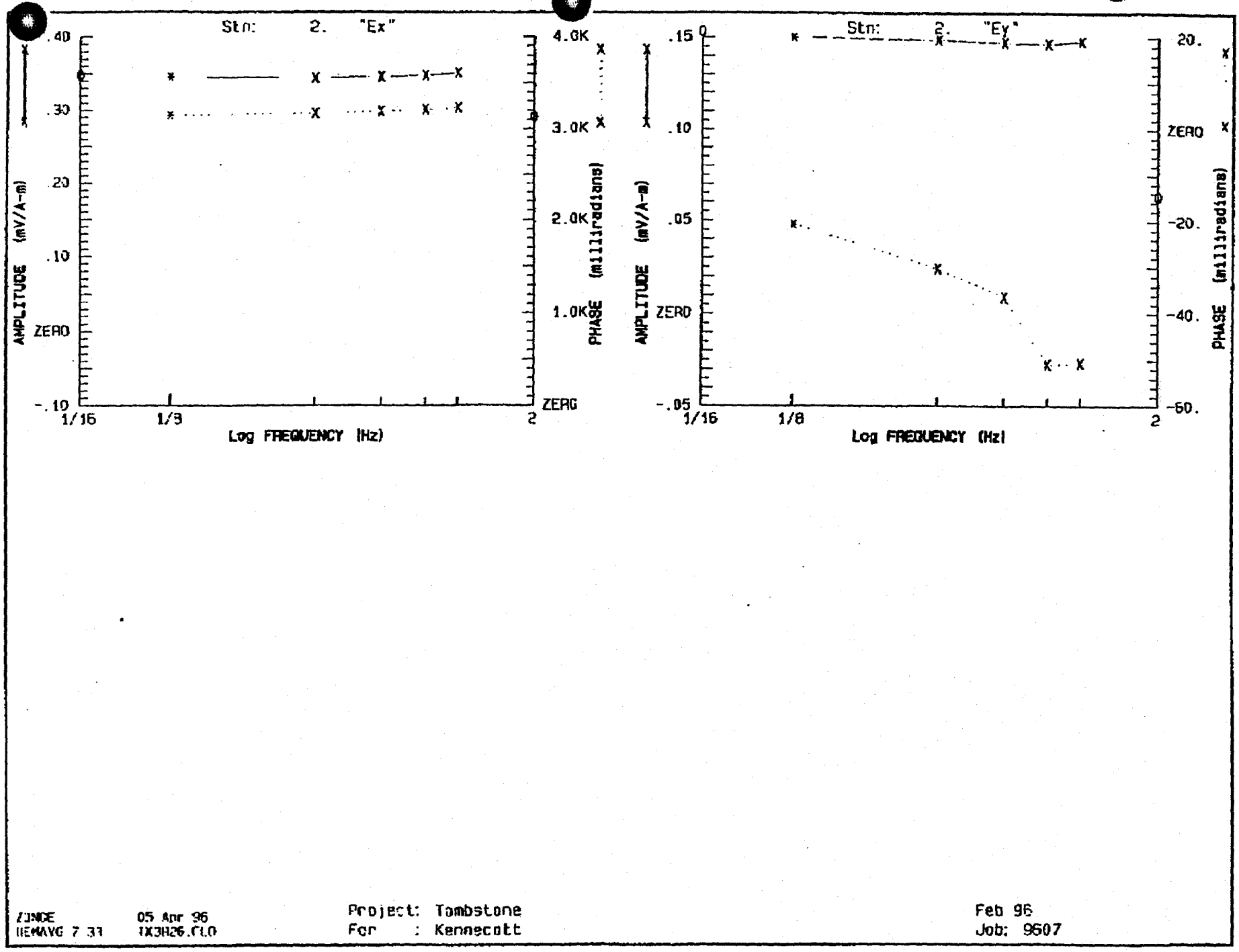

Stn: 49. "Ex"
AMPLITUDE (mV/A-m)
20.
15.
10.
5.0
ZERO
-5.0
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
1/4
1/2
8
Log FREQUENCY (Hz)
Stn: 49. "Ey"
AMPLITUDE (mV/A-m)
2.5
2.0
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
1/4
1/2
8
Log FREQUENCY (Hz)
Stn: 60. "Ex"
AMPLITUDE (mV/A-m)
6.0
4.0
2.0
ZERO
-2.0
PHASE (milliradians)
20.
10.
ZERO
-10.
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 60. "Ey"
AMPLITUDE (mV/A-m)
2.0
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
ZONGE
HEMAVG 7.33
05 Apr 96
TX6R26.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607

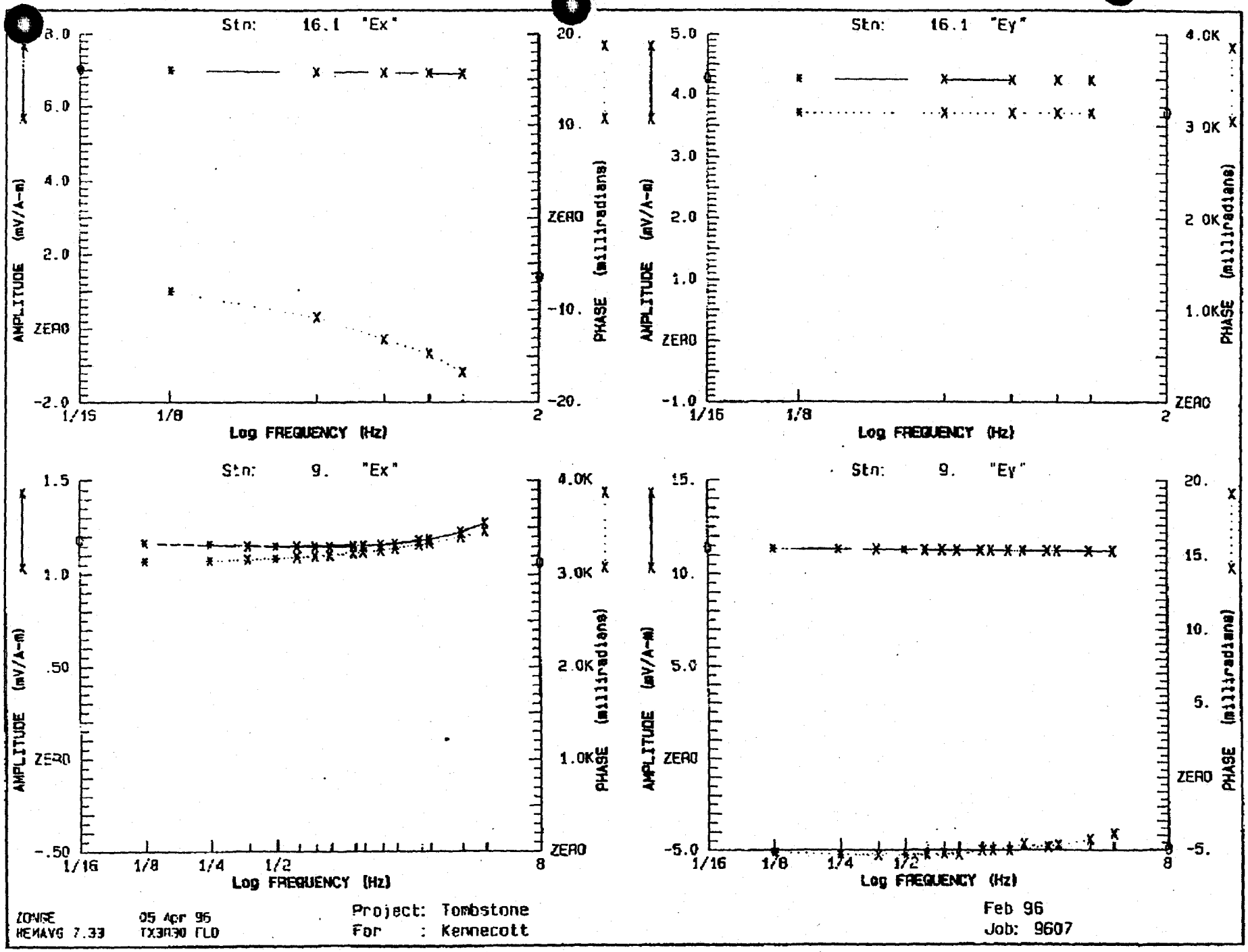
```
581166.250000,  3507309.250000;
582176.250000,  3507380.250000;
581229.062500,  3506641.750000;
582181.437500,  3506691.500000;
583097.250000,  3506975.500000;
581129.625000,  3505963.500000;
581862.250000,  3505865.250000;
584122.875000,  3505679.500000;
581893.625000,  3505104.750000;
583589.125000,  3504842.250000;
584688.000000,  3504525.250000;
585677.125000,  3505230.750000;
582767.562500,  3505756.000000;
579334.750000,  3504093.000000;
581344.250000,  3504345.000000;
582328.000000,  3503961.750000;
583960.687500,  3503951.000000;
585593.375000,  3504476.250000;
586252.750000,  3504541.500000;
587069.062500,  3503633.750000;
584996.812500,  3503983.500000;
579575.437500,  3503020.750000;
580883.687500,  3502955.500000;
581501.187500,  3502627.000000;
582526.875000,  3503261.750000;
583709.500000,  3503272.750000;
584546.750000,  3503272.750000;
583228.062500,  3502474.250000;
584159.562500,  3502463.250000;
585405.000000,  3502693.000000;
586158.562500,  3502769.250000;
583625.812500,  3502080.000000;
583249.000000,  3501686.250000;
583897.875000,  3501817.500000;
584122.937500,  3500969.750000;
584939.250000,  3500980.750000;
585650.937500,  3500860.500000;
586435.875000,  3500827.500000;
583400.750000,  3499952.500000;
584143.875000,  3500007.000000;
585567.250000,  3499985.500000;
586341.687500,  3499963.500000;
584609.562500,  3499772.000000;
585703.250000,  3499176.000000;
586446.312500,  3499285.250000;
583735.687500,  3499022.750000;
584342.687500,  3498967.750000;
581778.562500,  3502107.750000;
583029.187500,  3497321.500000;
582694.312500,  3498470.000000;
583929.250000,  3498415.500000;
581898.875000,  3497726.250000;
584410.687500,  3497966.750000;
581857.062500,  3497015.000000;
583228.062500,  3496971.500000;
584023.437500,  3497419.750000;
585017.750000,  3497474.750000;
585907.312500,  3497408.750000;
584557.187500,  3496851.250000;
582631.500000,  3496107.250000;
583720.000000,  3496118.250000;
```

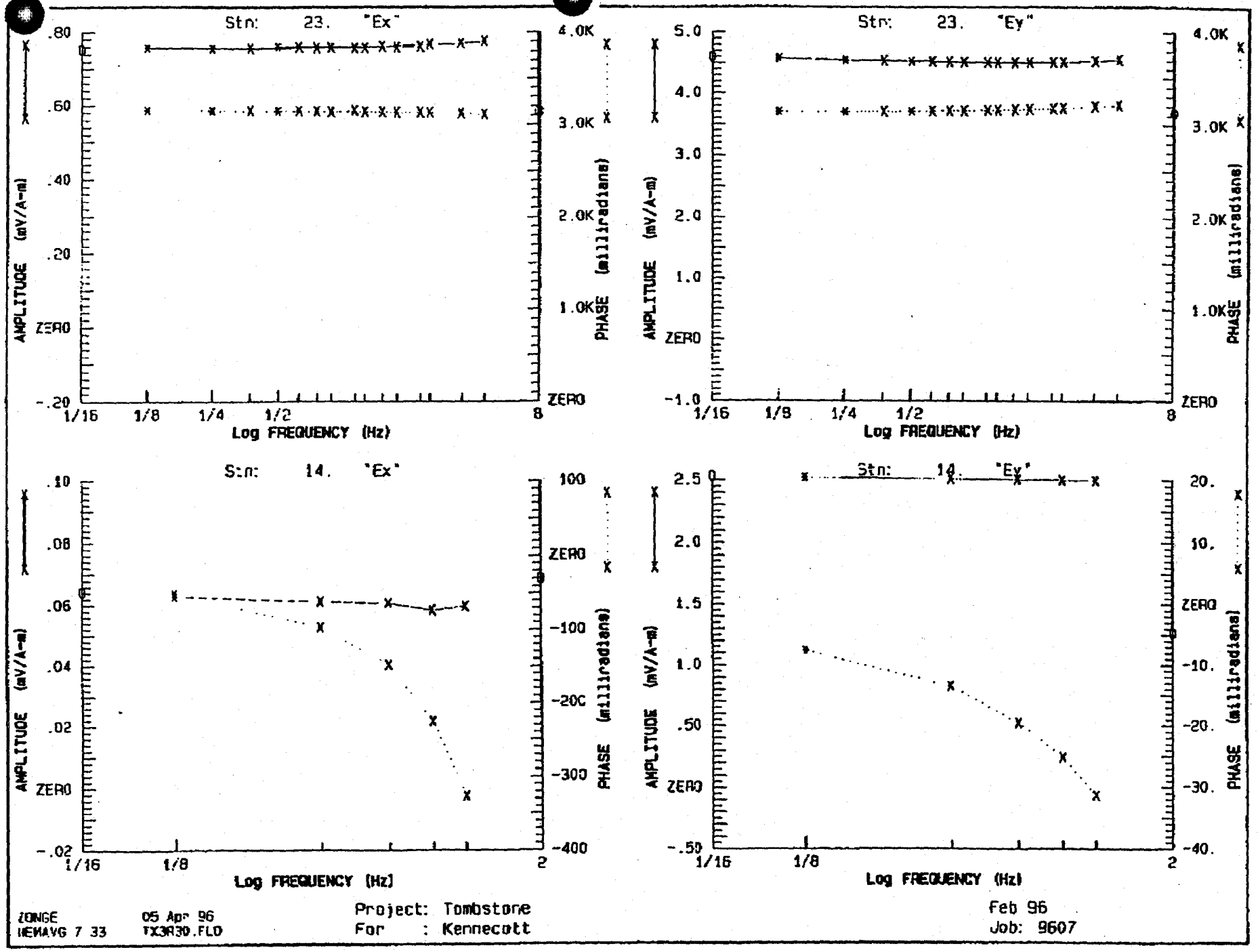


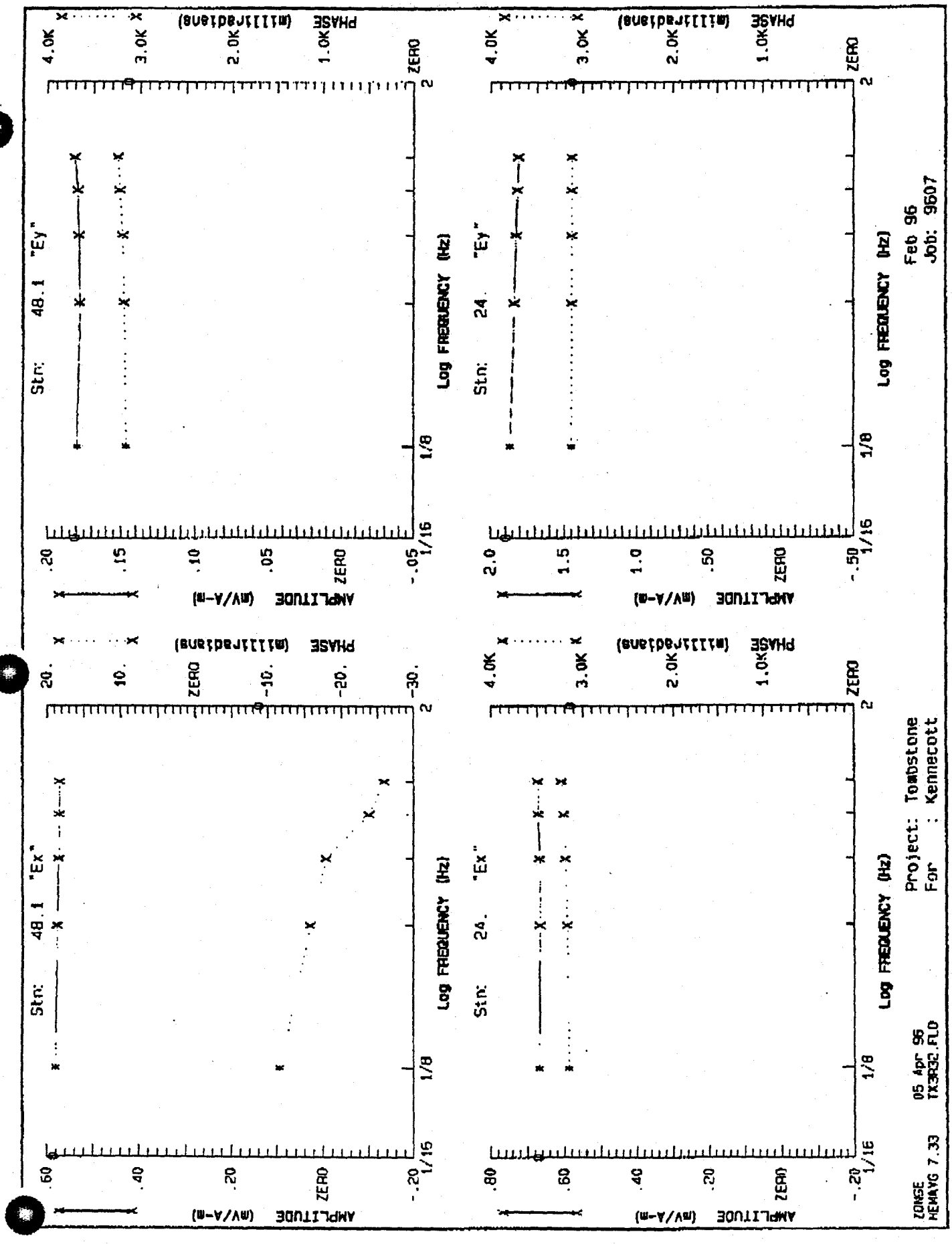

Stn: 7. "Ex"
AMPLITUDE (mV/A-m)
2.0
1.0
ZERO
-1.0
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
1/4
1/2
1
2
4
8
Log FREQUENCY (Hz)
Stn: 7. "Ey"
AMPLITUDE (mV/A-m)
.80
.60
.40
.20
ZERO
-.20
PHASE (milliradians)
20.
ZERO
-20.
-40.
-60.
Log FREQUENCY (Hz)
Stn: 3. "Ex"
AMPLITUDE (mV/A-m)
1.0
.80
.60
.40
.20
ZERO
-.20
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
1/4
1/2
1
2
4
8
Log FREQUENCY (Hz)
Stn: 3. "Ey"
AMPLITUDE (mV/A-m)
.30
.20
.10
ZERO
-.10
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
Log FREQUENCY (Hz)
ZONGE
HEMAVG 7.33
05 Apr 96
TX3R26.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607










Stn: 48.1 "Ey"
Stn: 24. "Ey"
Stn: 48.1 "Ex"
Stn: 24. "Ex"
Log FREQUENCY (Hz)
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607
ZONGE
MEMAVG 7.33
05 Apr 96
TX3R32.FLD

581166.250000, 3507309.250000;
582176.250000, 3507380.250000;
581229.062500, 3506641.750000;
582181.437500, 3506691.500000;
583097.250000, 3506975.500000;
581129.625000, 3505963.500000;
581862.250000, 3505865.250000;
584122.875000, 3505679.500000;
581893.625000, 3505104.750000;
583589.125000, 3504842.250000;
584688.000000, 3504525.250000;
585677.125000, 3505230.750000;
582767.562500, 3505756.000000;
579334.750000, 3504093.000000;
581344.250000, 3504345.000000;
582328.000000, 3503961.750000;
583960.687500, 3503951.000000;
585593.375000, 3504476.250000;
586252.750000, 3504541.500000;
587069.062500, 3503633.750000;
584996.812500, 3503983.500000;
579575.437500, 3503020.750000;
580883.687500, 3502955.500000;
581501.187500, 3502627.000000;
582526.875000, 3503261.750000;
583709.500000, 3503272.750000;
584546.750000, 3503272.750000;
583228.062500, 3502474.250000;
584159.562500, 3502463.250000;
585405.000000, 3502693.000000;
586158.562500, 3502769.250000;
583625.812500, 3502080.000000;
583249.000000, 3501686.250000;
583897.875000, 3501817.500000;
584122.937500, 3500969.750000;
584939.250000, 3500980.750000;
585650.937500, 3500860.500000;
586435.875000, 3500827.500000;
583400.750000, 3499952.500000;
584143.875000, 3500007.000000;
585567.250000, 3499985.500000;
586341.687500, 3499963.500000;
584609.562500, 3499772.000000;
585703.250000, 3499176.000000;
586446.312500, 3499285.250000;
583735.687500, 3499022.750000;
584342.687500, 3498967.750000;
581778.562500, 3502107.750000;
583029.187500, 3497321.500000;
582694.312500, 3498470.000000;
583929.250000, 3498415.500000;
581898.875000, 3497726.250000;
584410.687500, 3497966.750000;
581857.062500, 3497015.000000;
583228.062500, 3496971.500000;
584023.437500, 3497419.750000;
585017.750000, 3497474.750000;
585907.312500, 3497408.750000;
584557.187500, 3496851.250000;
582631.500000, 3496107.250000;
583720.000000, 3496118.250000;

Points 1 thru 61
see prev. sheet.

3 586493.437500, 3496074.250000;

1 585180.000000, 3504700.000000;
585776.500000, 3504109.500000;

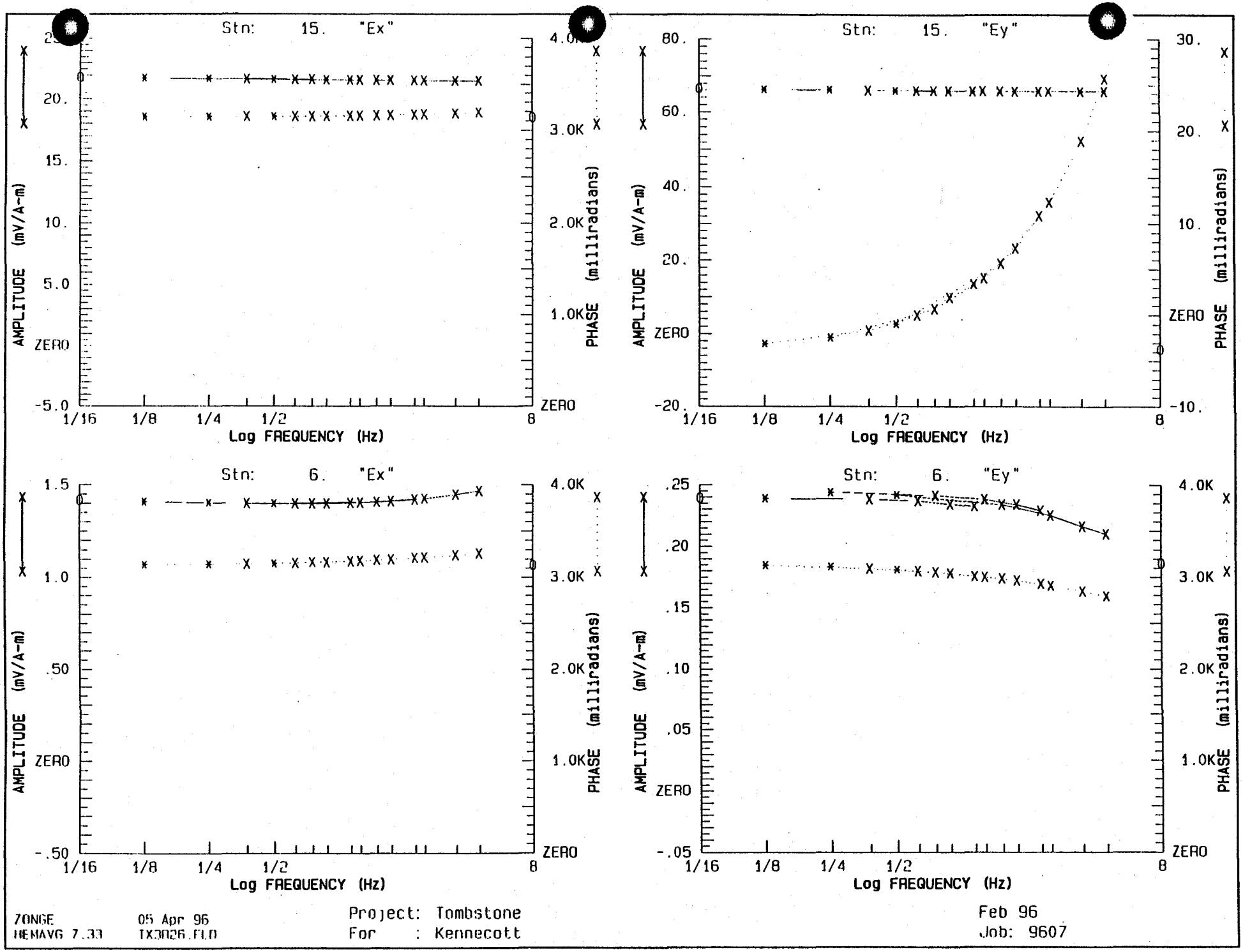
2,583254.250000, 3504459.500000;
584039.187500, 3505050.500000;

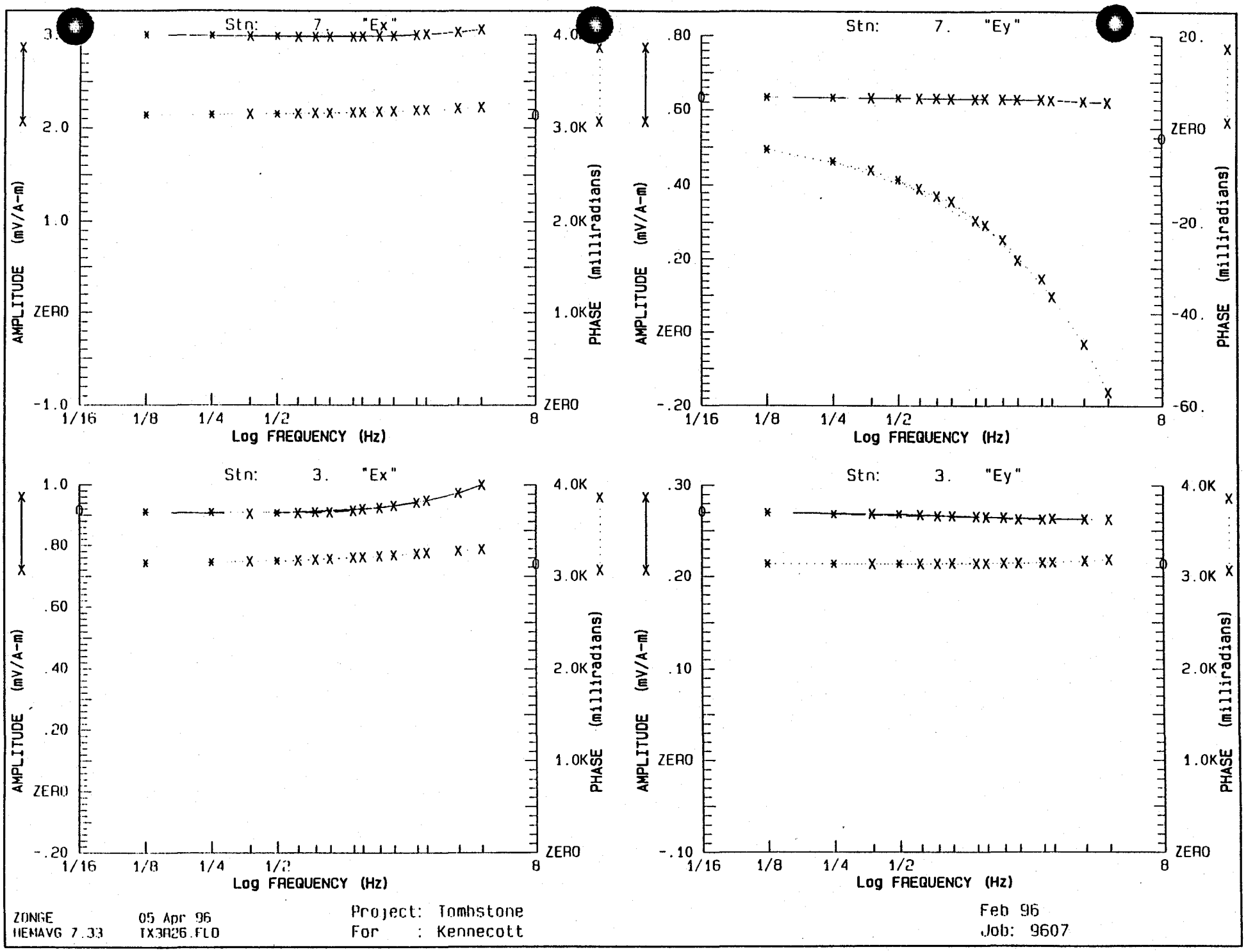
3,581757.625000, 3504142.500000;
580836.625000, 3504098.500000;

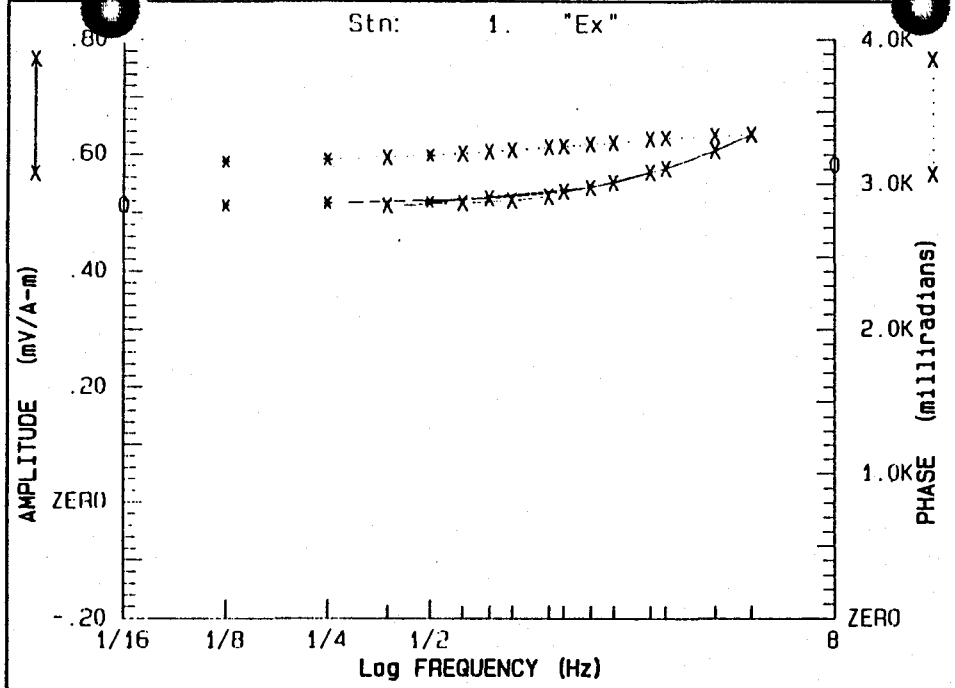
4,584238.062500, 3499361.500000;
584886.937500, 3500007.000000;

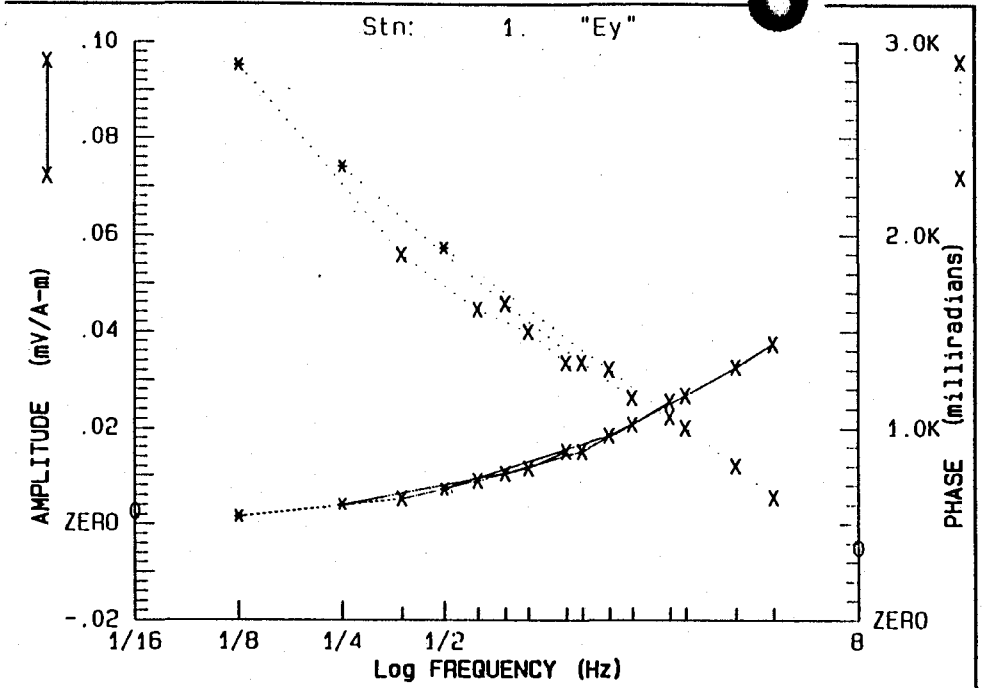
5,583672.875000, 3501604.500000;
583505.375000, 3502490.500000;

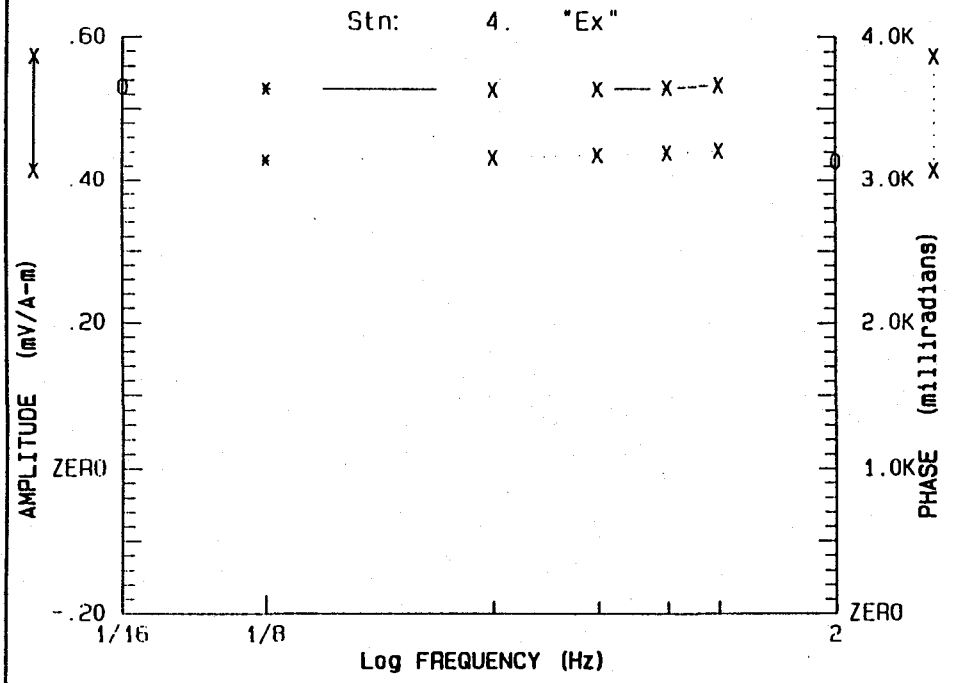
6,583259.500000, 3496501.000000;
583269.937500, 3497441.750000;

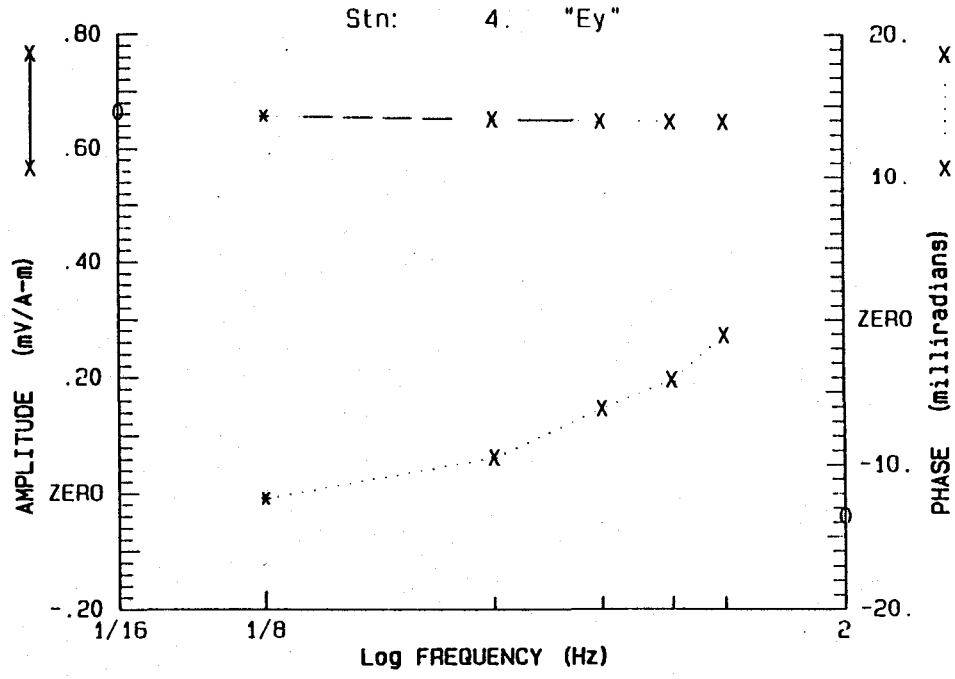

Stn: 15. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 15. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 6. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 6. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
ZONGE
NEMAVG 7.33
05 Apr 96
TX3026.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 7. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 7. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 3. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 3. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
ZONGE
NEMAVG 7.33
05 Apr 96
TX3A26.FLO
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607





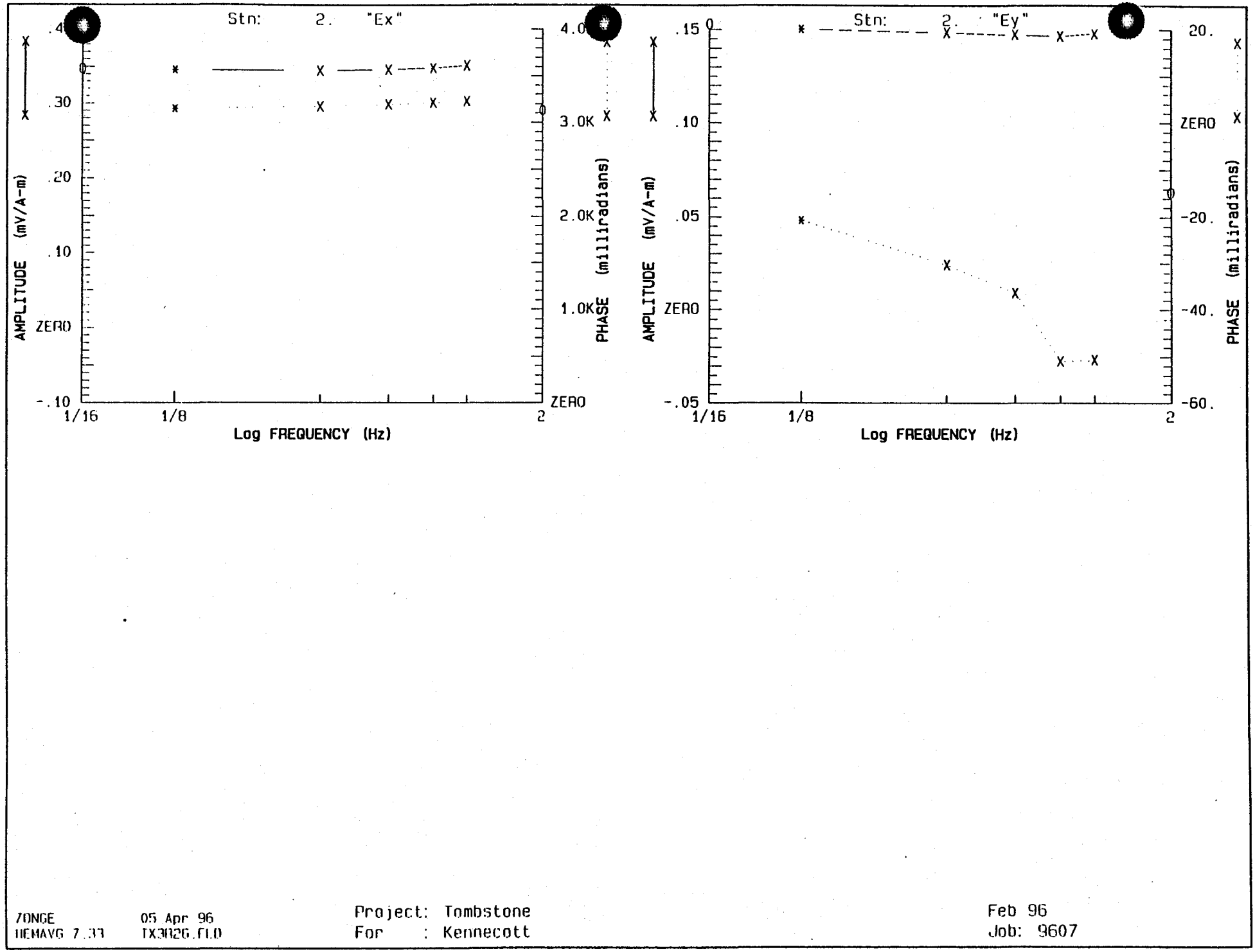




ZONGE 05 Apr 96
NEWAVG 7.33 TX0026.FLD

Project: Tombstone
For : Kennecott

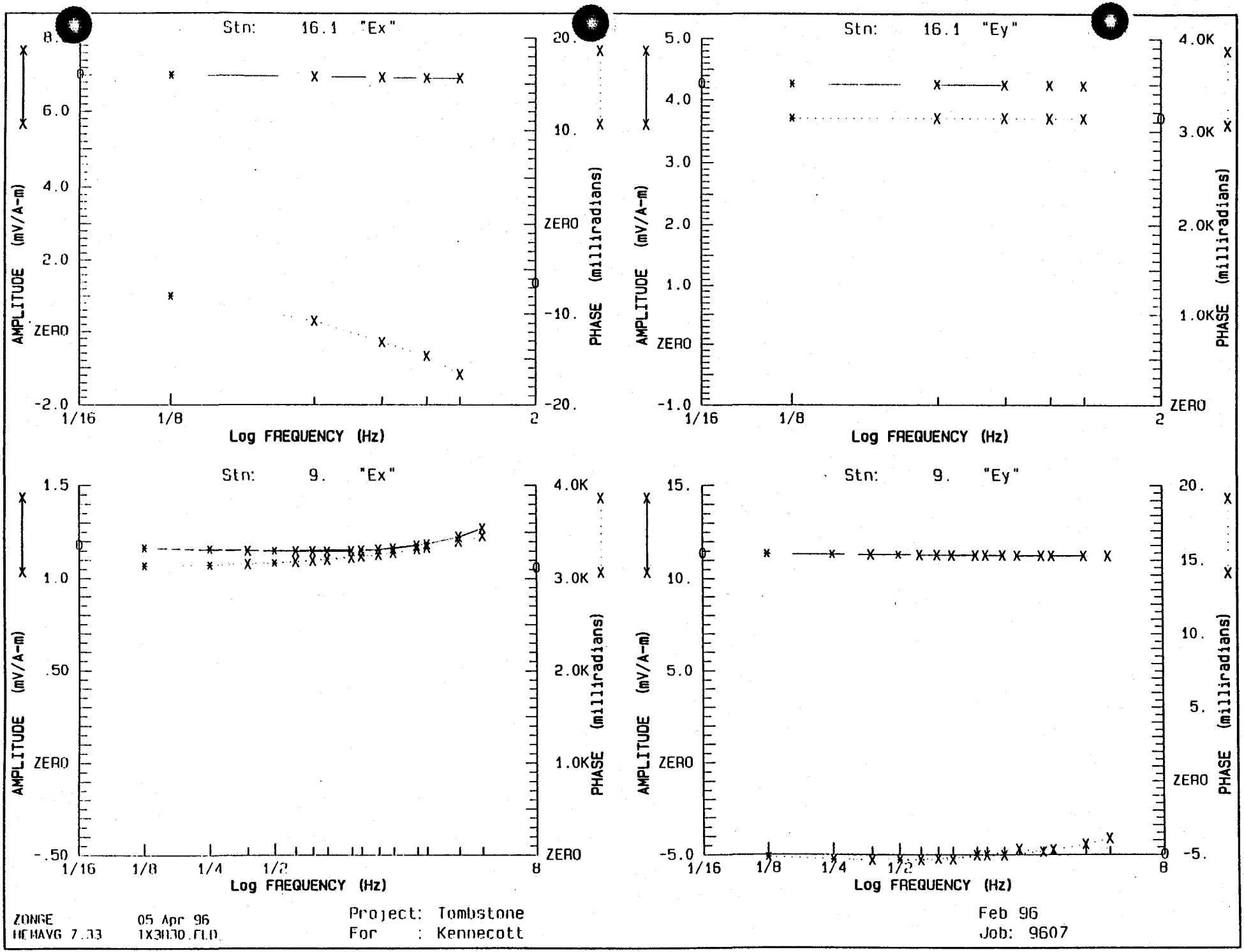
Feb 96
Job: 9607

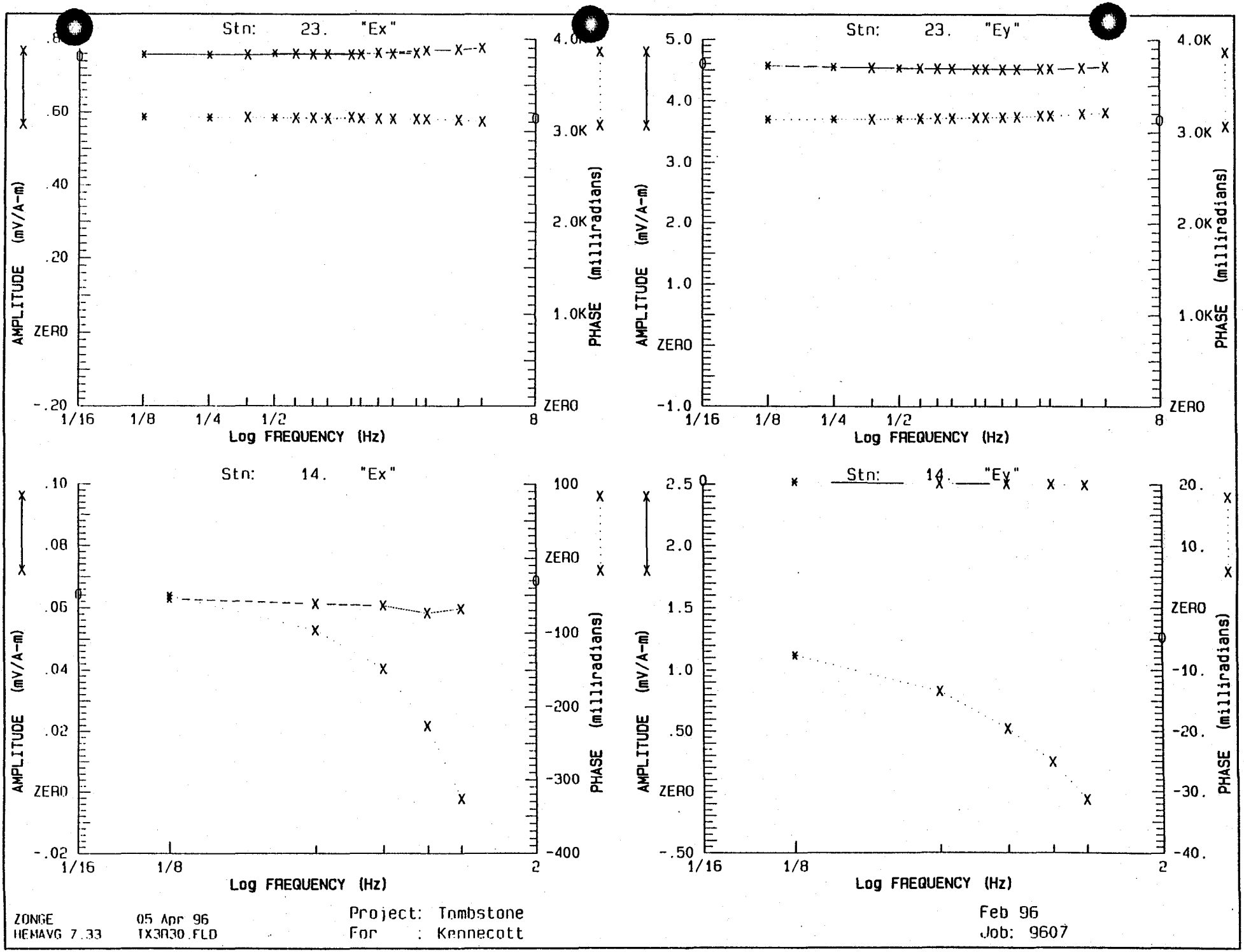


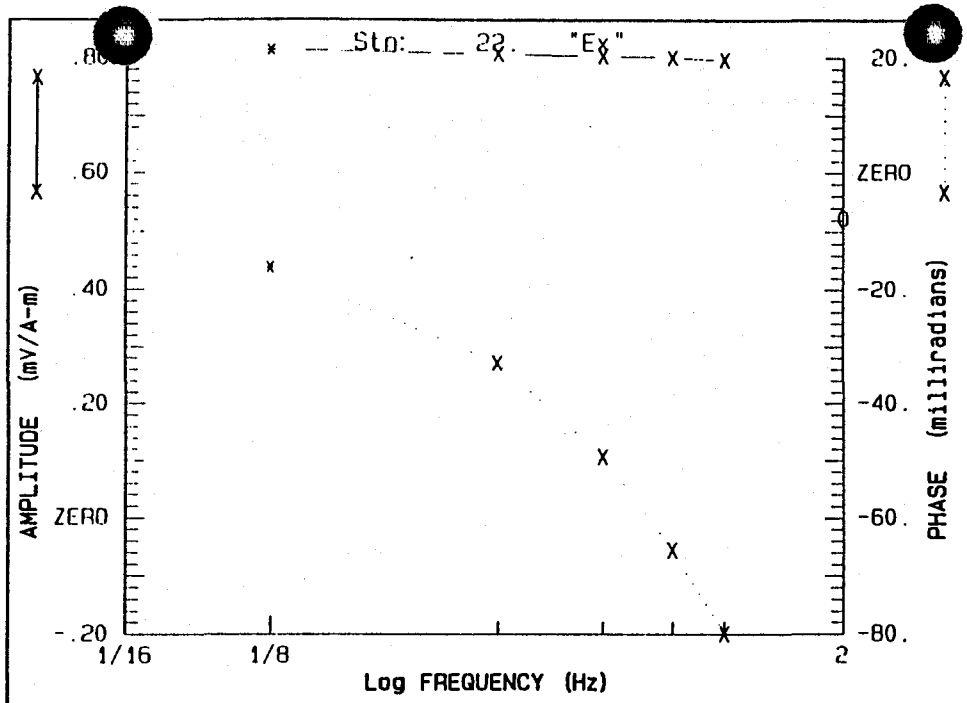
ZONGE 05 Apr 96
HEMAVG 7.33 TX3026.FLD

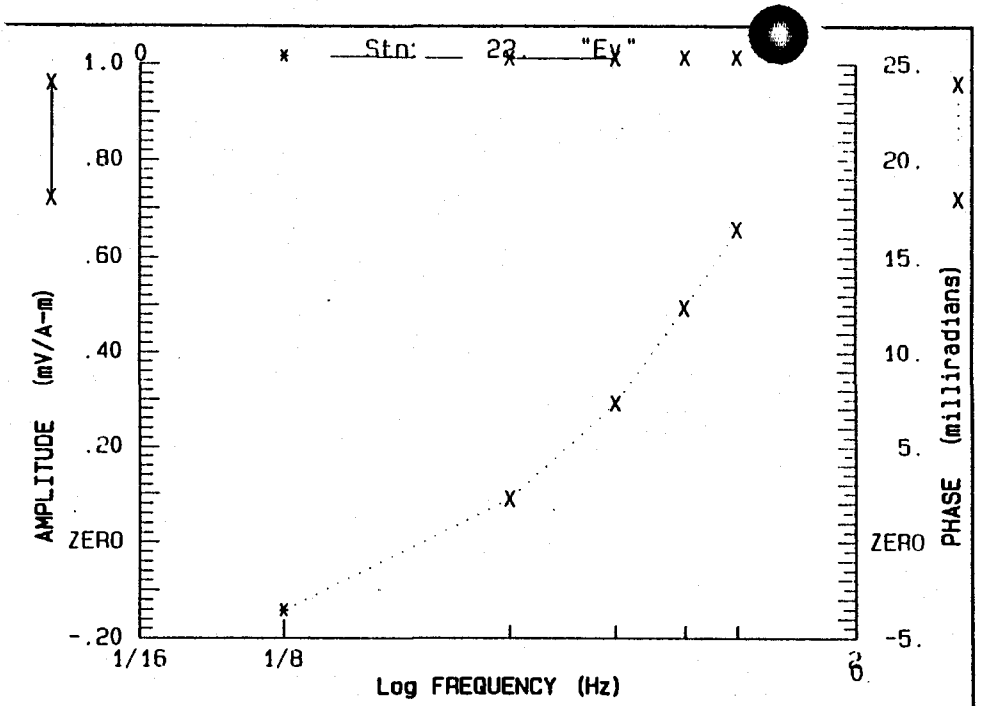
Project: Tombstone
For : Kennecott

Feb 96
Job: 9607


Stn: 16.1 "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 16.1 "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 9. "Ex"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
Stn: 9. "Ey"
AMPLITUDE (mV/A-m)
PHASE (milliradians)
Log FREQUENCY (Hz)
ZONGE
HCHAVG 7.33
05 Apr 96
1X3030.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607


Stn: 23. "Ex"
AMPLITUDE (mV/A-m)
.60
.40
.20
ZERO
-.20
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
1/4
1/2
8
Log FREQUENCY (Hz)
Stn: 23. "Ey"
AMPLITUDE (mV/A-m)
5.0
4.0
3.0
2.0
1.0
ZERO
-1.0
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
1/4
1/2
8
Log FREQUENCY (Hz)
Stn: 14. "Ex"
AMPLITUDE (mV/A-m)
.10
.08
.06
.04
.02
ZERO
-.02
PHASE (milliradians)
100
ZERO
-100
-200
-300
-400
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 14. "Ey"
AMPLITUDE (mV/A-m)
2.5
2.0
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
20.
10.
ZERO
-10.
-20.
-30.
-40.
1/16
1/8
2
Log FREQUENCY (Hz)
ZONGE
HEMAVG 7.33
05 Apr 96
TX3R30.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607



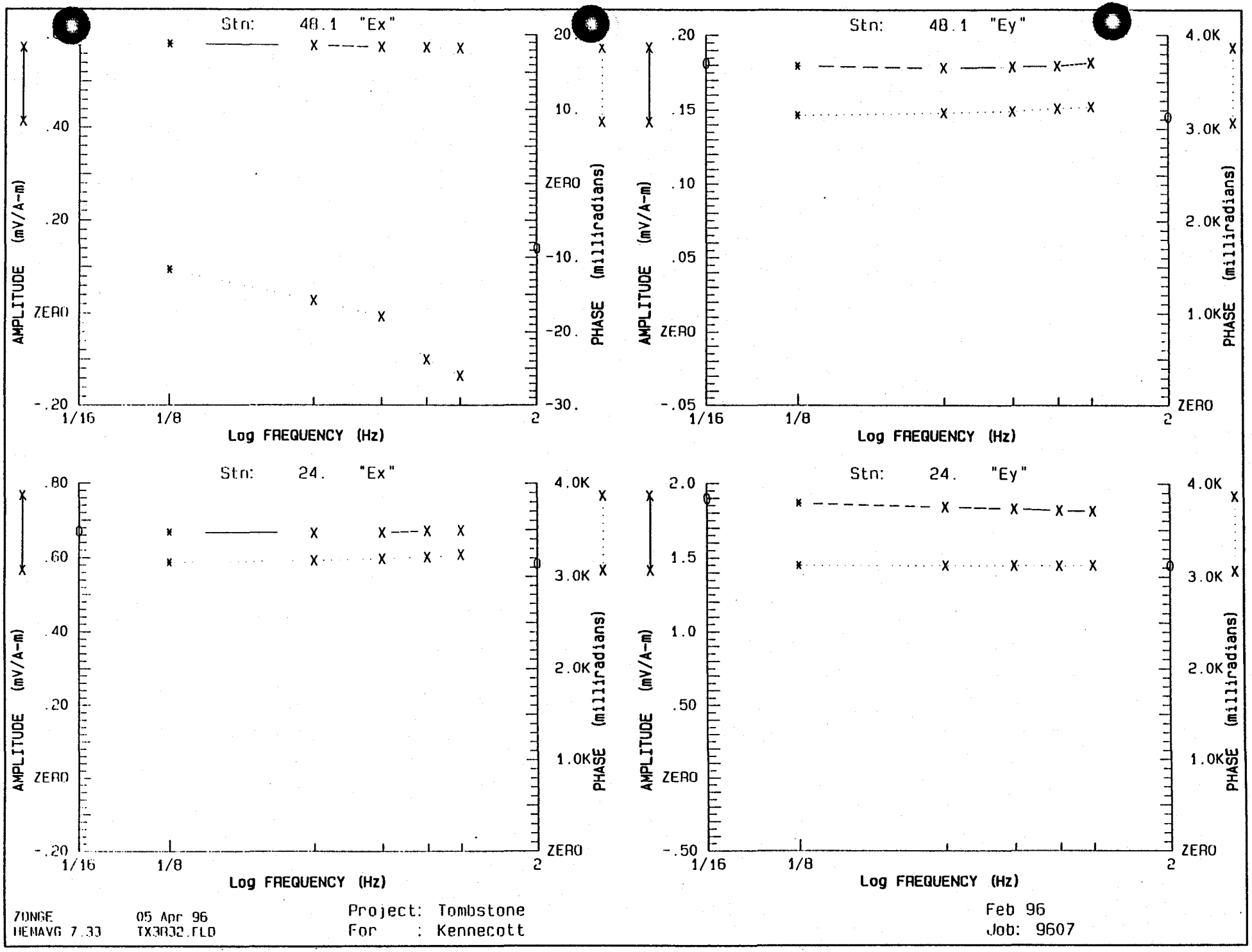


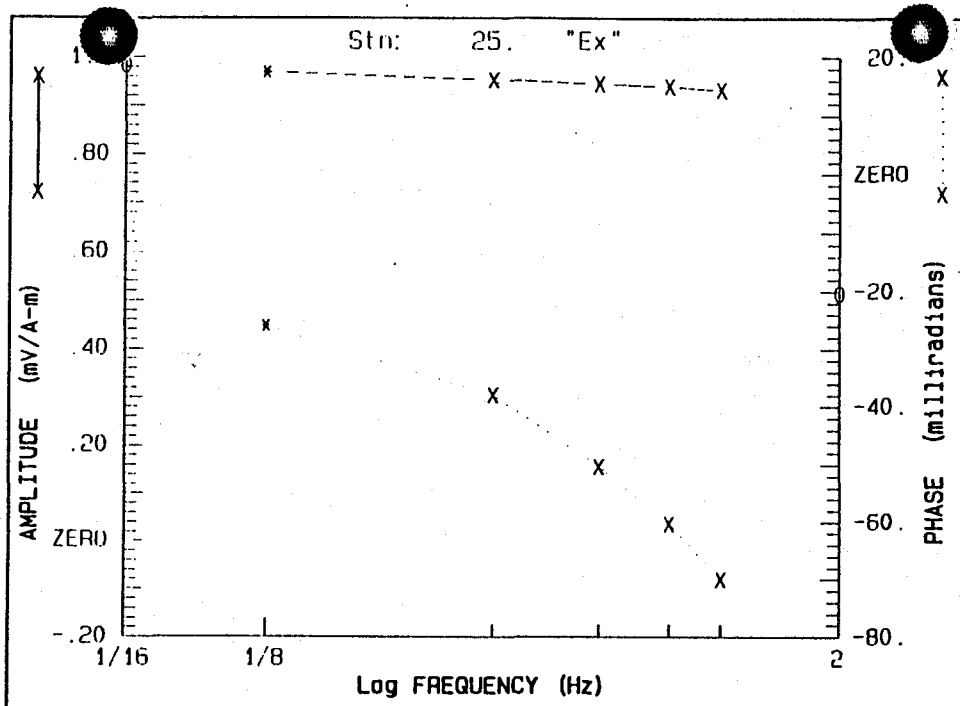
ZONGE
HEMAVG 7.33

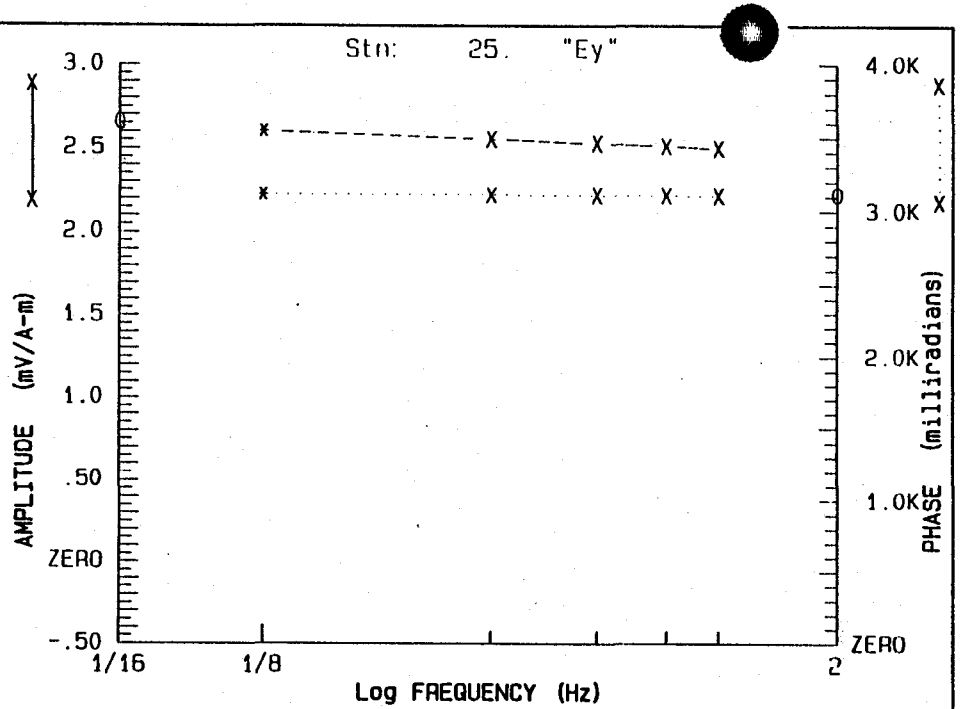
05 Apr 96
TX3R30.FLD

Project: Tombstone
For : Kennecott

Feb 96
Job: 9607


Stn: 48.1 "Ex"
AMPLITUDE (mV/A-m)
.40
.20
ZERO
-.20
PHASE (milliradians)
20.
10.
ZERO
-10.
-20.
-30.
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 48.1 "Ey"
AMPLITUDE (mV/A-m)
.20
.15
.10
.05
ZERO
-.05
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 24. "Ex"
AMPLITUDE (mV/A-m)
.80
.60
.40
.20
ZERO
-.20
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
Stn: 24. "Ey"
AMPLITUDE (mV/A-m)
2.0
1.5
1.0
.50
ZERO
-.50
PHASE (milliradians)
4.0K
3.0K
2.0K
1.0K
ZERO
1/16
1/8
2
Log FREQUENCY (Hz)
ZONGE
NEWAVG 7.33
05 Apr 96
TX3D32.FLD
Project: Tombstone
For : Kennecott
Feb 96
Job: 9607





ZONGE
HEMAVG 7.33

05 Apr 96
TX3032.FLD

Project: Tombstone
For : Kennecott

Feb 96
Job: 9607

ZONGE ENGINEERING
322 East Fort Lowell Road
ucson, Arizona 85716

FAX: (520) 325-1588
Telephone: (520) 327-5501
Telex: 165532 CEERHO TUC

RIORITY: NORMAL ☐ URGENT ☐ CONFIDENTIAL ☐

CKNOWLEDGEMENT REQUESTED ☐

O:Linus Keating

TTENTION:

AXCIMILE NO.: 670-1311 (670-9775)
ELEPHONE NO.: ↓ REF: Tombstone

ROM: Cris Mauldin

DATE: 06 June 1996

AGES (INCLUDING THIS PAGE):
ear Linus Keating

The following is the transmitter 3 plots. I apologize for these being left out of the report.

I have also been informed that a problem occurred in the processing to create the plan maps. Hans has three copies of the new plan maps.

in erely,

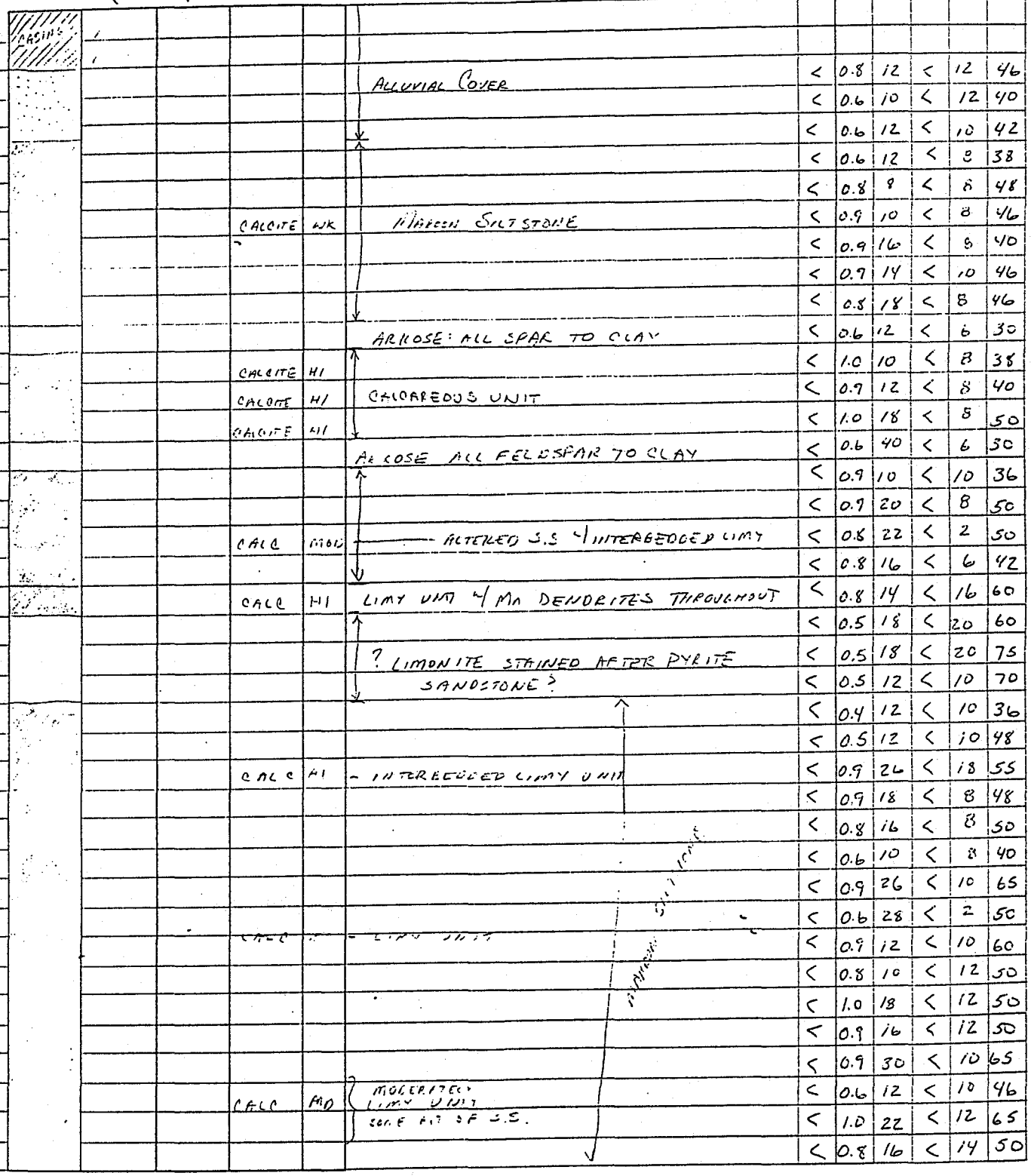
Cris

ris Mauldin
eophysicist

Drill Hole: BHP-95-01
Collar Elev:
TD: 1000'

ROBBERS' ROOST, AZ

Drilling Co: BOYLES
Start: 6-12-95
Finish: 6-18-95
Method: RC
Hole Diam: 6"
Water Table:



Au	Ag	Cu	Mo	Pb	Zn
<	0.8	12	<	12	46
<	0.6	10	<	12	40
<	0.6	12	<	10	42
<	0.6	12	<	8	38
<	0.8	8	<	8	48
<	0.9	10	<	8	46
<	0.9	16	<	8	40
<	0.9	14	<	10	46
<	0.8	18	<	8	46
<	0.6	12	<	6	30
<	1.0	10	<	8	38
<	0.9	12	<	8	40
<	1.0	18	<	8	50
<	0.6	40	<	6	30
<	0.9	10	<	10	36
<	0.9	20	<	8	50
<	0.8	22	<	2	50
<	0.8	16	<	6	42
<	0.8	14	<	16	60
<	0.5	18	<	20	60
<	0.5	18	<	20	75
<	0.5	12	<	10	70
<	0.4	12	<	10	36
<	0.5	12	<	10	48
<	0.9	26	<	18	55
<	0.9	18	<	8	48
<	0.8	16	<	8	50
<	0.6	10	<	8	40
<	0.9	26	<	10	65
<	0.6	28	<	2	50
<	0.9	12	<	10	60
<	0.8	10	<	12	50
<	1.0	18	<	12	50
<	0.9	16	<	12	50
<	0.9	30	<	10	65
<	0.6	12	<	10	46
<	1.0	22	<	12	65
<	0.8	16	<	14	50

Prev.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T 20 S R 22 E S 32 _____ N _____ E (utm) Logged By: JB NELSON

BHP

Drill Hole: BHP-95-02
Collar Elev:
TD:

ROBBERS' ROOST, AZ

Drilling Co:
Start:
Finish:
Method:
Hole Diam:
Water Table:

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au	Ag	Cu	Mo	Pb	Zn
400						<	1.0	12	2	12	55
			PYR	1-2		<	0.4	8	2	6	22
			PYR	1	FRAGMENT OF BRECCIATED L.S.	<	0.9	8	<	6	28
			PYR	1-2		<	0.9	12	<	10	50
			PYR	1-2		<	0.6	12	<	12	36
			PYR	1-2	LIMONITE STAINED ALT ARKOSIC UNIT	<	0.4	10	<	12	36
			PYR	1-2	W/TR OF MnOx THROUGHOUT,	<	0.4	8	<	6	22
			PYR	1-2	AND MOD CALCITE-CEMENT(?)	<	<	6	<	2	12
			PYR	1-2		5.4	0.4	12	<	16	28
			PYR	1-2		<	0.1	10	<	10	28
500						<	1.2	90	<	8	36
			PYR	1-2		<	0.8	20	<	16	36
			PYR	1-2		<	0.9	10	<	8	28
			PYR	1-2		<	0.9	10	<	12	36
			PYR	1-2		<	0.5	10	<	8	30
			PYR	1-2		<	0.4	8	<	6	30
			PYR	1-2		<	1.0	10	<	10	40
			PYR	1-3		<	0.9	10	<	12	42
					MOTTLED SILTSTONE W/CLAY & SANDY BEDS, AND OCASSIONAL LIMY UNITS	<	0.6	8	<	6	40
						<	1.1	12	<	12	50
						<	0.6	12	<	14	48
						<	0.5	8	<	12	50
						<	0.4	10	<	10	50
						<	0.3	10	<	6	38
						<	0.5	20	<	8	48
650						<	0.6	18	<	8	55
						<	0.4	10	<	8	46
						<	0.6	10	<	10	50
						<	0.4	8	<	6	38
						<	0.8	6	<	12	40
700					POSSIBLE FAULT ZONE - HVY LIM STAINING, ARKOSE?	<	10	8	2	10	30
						<	0.8	8	<	12	40
					MOD LIMY UNIT	<	0.6	8	<	8	38
						<	0.8	10	<	10	48
						<	0.8	10	<	10	50
750						<	0.9	20	<	10	70
			PYR	1		<	0.6	10	<	38	120
			PYR	1	PINK SANDSTONE/ARKOSE W/MnOx (Tr)	<	1.0	16	<	12	60
			PYR	1	MOD CALCITE	<	0.9	8	2	12	60
					SILTSTONE W/LIMY UNITS	<	0.9	8	<	10	50
800			CARB	TR							

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S32 _____N _____E (utm) Logged By: J&NELSON

BHP

Drill Hole: BHP-95-01 ROBBERS' ROOST, AZ

Collar Elev:

TD: 1000'

Drilling Co:
Start:
Finish:
Method:
Hole Diam:
Water Table:

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au	Ag	Cu	Mo	Pb	Zn
800						<	1.0	12	<	10	65
						<	0.9	12	2	10	75
			PYR	1	} B INCREASING DISS PYR IN	<	0.8	12	<	6	55
			PYR	1		<	0.9	10	<	8	50
			PYR	1-7		<	0.5	12	<	8	100
850			SERC PYR	mod 3-4	— X-CUTTING VNLTS W/DISS SULF.	<	1.6	65	6	210	345
			PYR	1	MOTTLED SILTSTONE	<	0.6	18	<	20	105
			PYR	1-2	ARKOSE?	<	0.3	12	2	16	65
					SILTSTONE	<	0.6	12	2	10	50
					INTRUSIVE DIKE (?)	<	0.8	8	<	80	60
900						<	0.5	10	2	8	55
						<	0.8	10	<	10	65
						<	0.6	10	4	12	55
			PYR	1-2	} ARKOSE	<	0.6	12	<	28	70
						<	0.9	10	2	20	55
					SILTSTONE w/LIMY UNITS	<	0.6	8	<	8	40
						<	0.8	10	<	8	40
			PYR	1		<	0.8	10	<	8	38
						<	0.8	12	2	10	42
						<	0.6	10	<	12	60

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T__S R__E S__ _____N _____E (utm) Logged By:

BHP

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 98 Rock Chip Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
1	RR95-1 0-10 **									
2	RR95-1 10-20 **									
3	RR95-1 20-30	< .005	.8	5.0	< .1	12.	12.	46.	< 2.	510.
4	RR95-1 30-40	< .005	.6	4.4	< .1	10.	12.	40.	< 2.	550.
5	RR95-1 40-50	< .005	.6	4.8	< .1	12.	10.	42.	< 2.	580.
6	RR95-1 50-60	< .005	.6	2.0	< .1	12.	8.	38.	< 2.	430.
7	RR95-1 60-70	< .005	.8	1.2	< .1	8.	8.	48.	< 2.	440.
8	RR95-1 70-80	< .005	.9	1.2	< .1	10.	8.	46.	< 2.	770.
9	RR95-1 80-90	< .005	.9	1.8	< .1	16.	8.	40.	< 2.	770.
10	RR95-1 90-100	< .005	.9	1.2	< .1	14.	10.	46.	< 2.	530.
11	RR95-1 100-110	< .005	.8	1.2	< .1	18.	8.	46.	2.	380.
12	RR95-1 110-120	< .005	.6	2.6	< .1	12.	6.	30.	< 2.	380.
13	RR95-1 120-130	< .005	1.0	.8	< .1	10.	8.	38.	< 2.	1100.
14	RR95-1 130-140	< .005	.9	6.0	< .1	12.	8.	40.	< 2.	1100.
15	RR95-1 140-150	< .005	1.0	3.2	< .1	18.	8.	50.	< 2.	860.
16	RR95-1 150-160	< .005	.6	3.8	< .1	40.	6.	30.	< 2.	440.
17	RR95-1 160-170	< .005	.9	2.0	< .1	10.	10.	36.	< 2.	910.
18	RR95-1 170-180	< .005	.9	1.2	< .1	20.	8.	50.	< 2.	430.
19	RR95-1 180-190	< .005	.8	.4	< .1	22.	2.	50.	< 2.	290.
20	RR95-1 190-200	< .005	.8	.4	< .1	16.	6.	42.	< 2.	290.
21	RR95-1 200-210	< .005	.8	1.4	< .1	14.	16.	60.	< 2.	630.
22	RR95-1 210-220	< .005	.5	2.6	.6	18.	20.	60.	< 2.	350.
23	RR95-1 220-230	< .005	.5	2.8	1.2	18.	20.	75.	< 2.	330.
24	RR95-1 230-240	< .005	.5	.8	< .1	12.	10.	70.	< 2.	400.
25	RR95-1 240-250	< .005	.4	.8	< .1	12.	10.	36.	< 2.	310.

Charles E. Thompson William L. Lehmbeck James A. Martin

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 98 Rock Chip Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
26	RR95-1 250-260	< .005	.5	1.6	< .1	12.	10.	48.	< 2.	170.
27	RR95-1 260-270	< .005	.9	17.0	< .1	26.	18.	55.	< 2.	990.
28	RR95-1 270-280	< .005	.9	.8	< .1	18.	8.	48.	< 2.	620.
29	RR95-1 280-290	< .005	.8	1.0	.1	16.	8.	50.	< 2.	570.
30	RR95-1 290-300	< .005	.6	.8	< .1	10.	8.	40.	< 2.	580.
31	RR95-1 300-310	< .005	.9	.8	< .1	26.	10.	65.	< 2.	1000.
32	RR95-1 310-320	< .005	.6	.6	< .1	28.	2.	50.	< 2.	400.
33	RR95-1 320-330	< .005	.9	.8	< .1	12.	10.	60.	< 2.	650.
34	RR95-1 330-340	< .005	.8	1.0	< .1	10.	12.	50.	< 2.	580.
35	RR95-1 340-350	< .005	1.0	1.2	< .1	18.	12.	50.	< 2.	820.
36	RR95-1 350-360	< .005	.9	1.2	< .1	16.	12.	50.	< 2.	440.
37	RR95-1 360-370	< .005	.9	1.2	< .1	30.	10.	65.	< 2.	720.
38	RR95-1 370-380	< .005	.6	1.2	< .1	12.	10.	46.	< 2.	520.
39	RR95-1 380-390	< .005	1.0	1.0	< .1	22.	12.	65.	< 2.	790.
40	RR95-1 390-400	< .005	.8	1.2	< .1	16.	14.	50.	< 2.	970.
41	RR95-1 400-410	< .005	1.0	.8	< .1	12.	12.	55.	2.	580.
42	RR95-1 410-420	< .005	.4	.8	< .1	8.	6.	22.	2.	250.
43	RR95-1 420-430	< .005	.9	1.0	< .1	8.	6.	28.	< 2.	1150.
44	RR95-1 430-440	< .005	.9	2.2	< .1	12.	10.	50.	< 2.	550.
45	RR95-1 440-450	< .005	.6	19.0	< .1	12.	12.	36.	< 2.	1050.
46	RR95-1 450-460	< .005	.4	1.2	< .1	10.	12.	36.	< 2.	470.
47	RR95-1 460-470	< .005	.4	2.0	< .1	8.	6.	22.	< 2.	460.
48	RR95-1 470-480	< .005	< .1	.6	< .1	6.	2.	12.	< 2.	170.
49	RR95-1 480-490	.005	.4	5.5	< .1	12.	16.	28.	< 2.	390.
50	RR95-1 490-500	< .005	.1	3.4	< .1	10.	10.	28.	< 2.	350.

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 98 Rock Chip Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
51	RR95-1 500-510	< .005	1.2	2.4	< .1	90.	8.	36.	< 2.	580.
52	RR95-1 510-520	< .005	.8	.8	< .1	20.	16.	36.	< 2.	560.
53	RR95-1 520-530	< .005	.9	.8	< .1	10.	8.	28.	< 2.	1550.
54	RR95-1 530-540	< .005	.9	5.5	< .1	10.	12.	36.	< 2.	690.
55	RR95-1 540-550	< .005	.5	5.0	< .1	10.	8.	30.	< 2.	370.
56	RR95-1 550-560	< .005	.4	3.0	< .1	8.	6.	30.	2.	410.
57	RR95-1 560-570	< .005	1.0	1.2	< .1	10.	10.	40.	2.	440.
58	RR95-1 570-580	< .005	.9	1.2	< .1	10.	12.	42.	< 2.	390.
59	RR95-1 580-590	< .005	.6	.4	< .1	8.	6.	40.	< 2.	230.
60	RR95-1 590-600	< .005	1.1	.4	< .1	12.	12.	50.	< 2.	280.
61	RR95-1 600-610	< .005	.6	1.2	< .1	12.	14.	48.	< 2.	240.
62	RR95-1 610-620	< .005	.5	.4	< .1	8.	12.	50.	< 2.	320.
63	RR95-1 620-630	< .005	.4	.8	< .1	10.	10.	50.	< 2.	140.
64	RR95-1 630-640	< .005	.3	1.0	< .1	10.	6.	38.	< 2.	620.
65	RR95-1 640-650	< .005	.5	.4	< .1	20.	8.	48.	< 2.	760.
66	RR95-1 650-660	< .005	.6	.6	< .1	18.	8.	55.	< 2.	1400.
67	RR95-1 660-670	< .005	.4	.4	< .1	10.	8.	46.	2.	670.
68	RR95-1 670-680	< .005	.6	1.2	< .1	10.	10.	50.	< 2.	620.
69	RR95-1 680-690	< .005	.4	.6	< .1	8.	6.	38.	< 2.	500.
70	RR95-1 690-700	< .005	.8	.6	< .1	6.	12.	40.	< 2.	470.
71	RR95-1 700-710	< .005	1.0	3.2	< .1	8.	10.	30.	2.	420.
72	RR95-1 710-720	< .005	.8	1.0	< .1	8.	12.	40.	< 2.	400.
73	RR95-1 720-730	< .005	.6	.8	< .1	8.	8.	38.	< 2.	410.
74	RR95-1 730-740	< .005	.8	.8	< .1	10.	10.	48.	< 2.	520.
75	RR95-1 740-750	< .005	.8	.8	< .1	10.	10.	50.	< 2.	490.

Charles E. Thompson William L. Lehmbeck James A. Martin

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 98 Rock Chip Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
76	RR95-1 750-760	< .005	.9	13.0	< .1	20.	10.	70.	< 2.	600.
77	RR95-1 760-770	< .005	.6	13.0	< .1	10.	38.	120.	< 2.	1200.
78	RR95-1 770-780	< .005	1.0	2.4	< .1	16.	12.	60.	< 2.	800.
79	RR95-1 780-790	< .005	.9	1.4	< .1	8.	12.	60.	2.	270.
80	RR95-1 790-800	< .005	.9	1.0	< .1	8.	10.	50.	< 2.	440.
81	RR95-1 800-810	< .005	1.0	2.8	.3	12.	10.	65.	< 2.	500.
82	RR95-1 810-820	< .005	.9	2.6	.1	12.	10.	75.	2.	860.
83	RR95-1 820-830	< .005	.8	.8	.1	12.	6.	55.	< 2.	730.
84	RR95-1 830-840	< .005	.9	1.0	< .1	10.	8.	50.	< 2.	860.
85	RR95-1 840-850	< .005	.5	10.0	.1	12.	8.	100.	< 2.	590.
86	RR95-1 850-860	< .005	1.6	34.0	1.6	65.	210.	345.	6.	3350.
87	RR95-1 860-870	< .005	.6	9.0	.1	18.	20.	100.	< 2.	850.
88	RR95-1 870-880	< .005	.3	34.0	.3	12.	16.	65.	4.	1200.
89	RR95-1 880-890	< .005	.6	3.4	.1	12.	10.	50.	2.	600.
90	RR95-1 890-900	< .005	.8	1.0	.1	8.	10.	60.	< 2.	580.
91	RR95-1 900-910	< .005	.5	.8	.1	10.	8.	55.	2.	420.
92	RR95-1 910-920	< .005	.8	1.0	< .1	10.	10.	65.	< 2.	770.
93	RR95-1 920-930	< .005	.6	1.0	.1	10.	12.	55.	4.	620.
94	RR95-1 930-940	< .005	.6	3.2	.2	12.	18.	70.	< 2.	510.
95	RR95-1 940-950	< .005	.9	2.4	.1	10.	20.	55.	2.	730.
96	RR95-1 950-960	< .005	.6	1.4	.1	8.	8.	40.	< 2.	710.
97	RR95-1 960-970	< .005	.8	1.8	.1	10.	8.	40.	< 2.	740.
98	RR95-1 970-980	< .005	.8	1.2	.1	10.	8.	38.	< 2.	630.
99	RR95-1 980-990	< .005	.8	1.0	< .1	12.	10.	42.	2.	700.
100	RR95-1 990-1000	< .005	.6	1.0	< .1	10.	12.	60.	< 2.	510.

Charles E. Thompson William L. Lehmbeck James A. Martin

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 98 Rock Chip Samples

*NOTE: Method of analysis by combination fire assay and atomic absorption.

**NOTE: Samples not received.

William L. Lehmbeck
Manager

Drill Hole: BHP-95-02
Collar Elev:
TD:

ROBBERS' ROOST, AZ

Drilling Co: Boyles
Start: 6/27/95
Finish: 6/29/95
Method: RC
Hole Diam: 5
Water Table: 750'

Interval	Rock Type	~~Alteration~~	Mineralogy	% - Intensity		Au	Ag	Cu	Mo	Pb	Zn
0	CASING										
						<	0.9	20	<	16	55
						<	0.9	20	4	16	50
						<	0.7	22	2	10	65
						<	0.8	18	4	6	65
						<	0.8	16	2	6	70
						<	1.0	18	2	12	95
			PYR	1-2		<	1.0	16	4	25	135
			PYR	1-2		<	1.0	18	4	115	255
100			PYR	1-2		<	1.7	16	2	170	425
			PYR	1-2		5	1.7	28	4	235	995
			PYR	1-2		25	5.2	60	8	540	780
			PYR	1-2	VERY CALCAREOUS MUDSTONE UNIT W/ ~~PYR~~ SULFIDES	40	2.5	46	6	100	230
			PYR	1-2		<	1.2	22	2	18	70
			PYR	1-2		20	2.0	18	6	22	50
			PYR	1-2		<	1.0	22	4	85	500
			PYR	1-2		<	0.7	10	2	40	245
			PYR	1-3		<	3.6	18	6	400	1400
			PYR	1-3		20	2.6	36	4	260	640
			PYR	2-4		10	4.0	30	8	180	430
			PYR	1-3		5	1.4	32	<	95	195
			PYR	1-3		35	6.1	36	16	245	475
			PYR	1-2		25	5.6	75	16	1100	2300
						5	0.7	12	<	12	65
			PYR	1-3	MAROON SILTSTONE / ALTERED	<	0.9	18	<	16	75
			PYR	1-3		40	2.1	20	4	260	425
			PYR	1-3	C.C.	<	1.4	10	4	35	290
			PYR	1-2		15	1.3	20	14	20	48
300			PYR	1		<	0.8	8	2	10	65
						<	0.7	8	<	6	65
			PYR	1-2		5	1.3	38	<	10	65
			PYR	1	MAROON SILTSTONE W/ ZONES OF ALTERATION	<	0.9	26	2	8	60
						<	0.8	12	<	2	60
						<	0.9	22	<	10	75
350					UNMINERALIZED C.S.	<	1.2	38	<	16	50
			PYR	1		<	1.3	20	2	6	50
						<	1.0	22	2	10	48
					MAROON SILTSTONE W/ ZONES OF ALT	<	1.2	46	<	12	55
400			PYR	1-2		<	0.8	32	<	8	65

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T 20 S R 22 E S 32 _____ N _____ E (utm) Logged By:

BHP

Drill Hole: BHP-95-02
Collar Elev:
TD:

ROBBERS' ROOST, AZ

Drilling Co:
Start:
Finish:
Method:
Hole Diam:
Water Table:

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au	Ag	Cu	Mo	Pb	Zn
400						<	0.9	20	<	2	60
						<	0.8	20	<	2	60
					SILTSTONE	<	0.9	40	<	8	65
						<	0.8	22	<	<	60
						<	0.8	20	<	6	60
						<	0.7	16	<	12	50
						<	0.8	20	<	6	50
		EPID	PYR	2-4		<	0.8	28	<	6	60
		EPID	PYR	2-4		<	1.3	36	2	18	50
			PYR	1-3		<	1.6	30	<	10	48
500			PYR	1-3	CALCAREOUS M.S. UNIT	15	2.2	30	2	150	415
			PYR	1-3		<	1.3	28	2	20	80
			PYR	1-2		<	1.6	20	2	10	55
		EPID	PYR	1-2		<	1.7	22	<	8	60
						<	1.6	18	<	10	55
					SILTSTONE	<	1.2	12	<	10	60
						<	1.0	8	<	6	55
			PYR	1		<	1.0	12	<	6	60
		EPID	PYR	1-2	CALC M.S.	<	1.6	20	4	20	75
600			PYR	1	INTERBEDD UNIT ~/↑ SULF	15	1.4	12	<	8	55
						<	1.2	16	2	8	48
						<	1.0	10	<	12	48
						<	1.0	16	<	10	75
						<	1.0	28	2	10	95
					SILTSTONE	<	1.0	18	<	20	90
						<	0.8	10	4	8	48
						<	0.8	16	<	10	48
						<	0.9	20	2	8	60
						<	0.8	12	2	8	55
					POSSIBLE FAULT - NO GRAINS - V. HIGH CARBONATE CONTENT.	<	1.0	16	2	18	65
700						<	1.8	12	2	30	60
		POD OF MASSIVE GALENA				80	115	420	380	67%	11%
			PYR	1-3	ARKOSE W/ DISS SULF (OXIDIZED)	10	4.4	32	30	2000	315
			PYR	Tr		<	3.4	22	8	1500	70
		EPID	PYR	Tr		<	2.6	16	4	880	60
		EPID	PYR	Tr		<	1.3	12	2	205	60
			PYR	1	HORNFELSIC, LIMY SILTSTONE W/	<	1.2	8	2	320	50
			PYR	Tr	OXIDATIONAL SULF ZONES	<	1.2	10	2	105	50
		EPID	PYR	Tr		<	1.3	4	2	245	50
800			PYR	1		<	0.9	12	<	95	48

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T__S R__E S__ _____N _____E (utm) Logged By:

BHP

95-02

Drill Hole: BHP-~~DDH~~-~~01~~ 02

Collar Elev:

TD:

ROBBERS' ROOST, AZ

Drilling Co:
Start:
Finish:
Method:
Hole Diam:
Water Table:

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au	Ag	Cu	Mo	Pb	Zn
800		EPID				<	1.5	20	2	405	60
						<	2.1	40	4	360	350
						<	1.0	12	<	95	70
						<	0.8	40	<	20	48
		EPID				<	1.3	16	<	240	80
		EPID				<	1.0	10	<	155	65
			PYR	1-2		<	0.8	16	<	90	80
			PYR	1-2		<	0.7	18	<	60	70
		EPID				<	0.3	12	<	65	60
		EPID				<	0.9	18	<	42	55
900			PYR	1-3		<	0.9	22	<	70	95
			PYR	1-2		<	1.2	40	<	390	950
					SILTSTONE W/ INTERBEDDED SANDY COMPONENT, LIMY UNITS AND MOD ALTERED.	<	1.2	18	<	90	130
						<	0.4	8	<	60	105
		EPID				<	1.2	18	<	220	65
		EPID				<	1.0	8	<	20	50
		EPID				<	0.4	8	<	50	42
						<	0.3	8	<	6	50
		EPID				<	0.8	16	<	32	65
1000		EPID				<	0.3	8	<	10	50

V.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T__S R__E S__ _____N _____E (utm) Logged By:

BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-1
Collar Elev: 4300ft
TD: 1380ft

Drilling Co: Boyles
Start: 8-03-94
Finish: 8-08-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~176'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
0	Breccia	sericite, pyrite, & clay; oxidized	Clay, Fe-ox, Ser	P	Breccia system w/fragments of Bisbee group sediments - quartzite, siltstone, and limestone and Uncle Sam volcanics.						
10	Breccia		Clay, Fe-ox, Ser	P	Limonite and hematite staining from oxidized pyrite throughout.						
20	Breccia		Clay, Fe-ox, Ser	P	Abundant clay (primarily mont) resulting from primary alteration and later leaching.	5	<.1	42	4	20	48
30	Breccia		Clay, Fe-ox, Ser	P		<5	<.1	105	2	28	415
40	Breccia		Clay, Fe-ox, Ser	P		5	<.1	50	2	36	145
50	Breccia		Clay, Fe-ox, Ser	P		<5	<.1	50	<2	16	110
60	Breccia		Clay, Fe-ox, Ser	P		<5	0.1	46	<2	10	70
70	Breccia		Clay, Fe-ox, Ser	P		<5	0.1	20	<2	30	22
80	Breccia		Clay, Fe-ox, Ser	P		<5	0.1	26	<2	26	38
90	Breccia		Clay, Fe-ox, Ser	P		<5	0.1	28	<2	42	150
100	Breccia		Clay, Fe-ox, Ser	P		<5	0.1	26	<2	38	100
110	Breccia		Clay, Fe-ox, Ser	P		<5	0.1	20	2	20	80
120	Breccia		Clay, Fe-ox, Ser	P		<5	0.3	65	<2	16	150
130	Breccia		Clay, Fe-ox, Ser	P		<5	<.1	12	<2	20	22
140	Breccia		Clay, Fe-ox, Ser	P		<5	<.1	16	<2	18	70
150	Breccia		Clay, Fe-ox, Ser	P		<5	<.1	16	<2	20	65
160	Breccia		Clay, Fe-ox, Ser	P		<5	0.1	26	<2	16	160
170	Breccia		Clay, Fe-ox, Ser	P	▼ Water Table	<5	<.1	12	<2	16	90
180	Breccia		Clay, Fe-ox, Ser	P		<5	0.3	28	<2	20	80
190	Breccia		Clay, Fe-ox, Ser	P		<5	0.4	22	<2	20	75
200											

Prev.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 3502800N 583000E (utm) Logged By: James B. Nelson

BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-1
Collar Elev: 4300ft
TD: 1380ft

Drilling Co: Boyles
Start: 8-03-94
Finish: 8-08-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~176'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
200	Breccia Mostly - Volcanic	sericite, pyrite, & clay; oxidized	Clay, Fe-ox, Ser	P	Breccia system w/fragments of Bisbee group sediments - quartzite, siltstone, and limestone and Uncle Sam volcanics.	<5	0.1	32	<2	18	75
210	Breccia Mostly - Volcanic		Clay, Fe-ox, Ser	P	Limonite and hematite staining from oxidized pyrite throughout.	<5	0.1	18	<2	10	28
220	Breccia Mostly - Volcanic		Clay, Fe-ox, Ser	P	Abundant clay (primarily mont) resulting from primary alteration and later leaching.	<5	<.1	16	<2	18	28
230	Breccia Mostly - Volcanic		Clay, Fe-ox, Ser	P		<5	<.1	16	<2	18	46
240	Breccia Mostly - Volcanic		Clay, Fe-ox, Ser	P		<5	<.1	16	<2	10	70
250	Breccia Mostly - Volcanic		Clay, Fe-ox, Ser	P		5	<.1	28	<2	12	120
260	Breccia		Clay, Fe-ox, Ser	P		<5	<.1	20	<2	12	155
270	Breccia		Clay, Fe-ox, Ser	P		<5	<.1	20	<2	16	165
280	Siltstone Frgment		Mn-ox	Tr	Large fragment of Bisbee group siltstone supported in breccia. Mn-oxide present on	5	<.1	18	<2	18	135
290	Siltstone Frgment		Mn-ox	Tr	fractures within fragment. No alteration is evident.	<5	0.3	16	<2	10	125
300	Breccia Mostly Sed Rx		Clay, Fe-ox, Ser	P		<5	0.3	26	<2	16	140
310	Breccia Mostly Sed Rx		Clay, Fe, Ser Mn-ox	P Tr		<5	0.3	28	<2	20	155
320	Siltstone Frgment		Clay, Fe-ox, Ser	M		<5	0.1	28	<2	10	155
330			Clay, Ser Mn-ox	M Tr		<5	0.3	32	<2	16	180
340	Breccia Mostly Sed Rx		Clay, Fe-ox, Ser	P		<5	0.3	22	<2	10	50
350	Breccia Mostly Sed Rx		Clay, Fe-ox, Ser	P		<5	0.3	16	<2	12	30
360	Breccia Mostly - Volcanic		Clay, Ser	P		<5	0.3	12	<2	10	16
370	Breccia		Clay, Hem, Ser	P	Approximately 30ft zone of increased hem staining. Possible fault zone within the breccia.	<5	0.1	26	2	12	38
380	Breccia		Clay, Hem, Ser	P		<5	0.1	16	2	20	18
390	Breccia		Clay, Hem, Ser	P		<5	0.3	18	<2	20	22
400											

rev.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 3502800N 583000E (utm) Logged By: James B. Nelson BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-1
Collar Elev: 4300ft
TD: 1380ft

Drilling Co: Boyles
Start: 8-03-94
Finish: 8-08-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~176'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
400	Breccia Mixed	oxidized	Clay, Fe-ox, Ser	P	Breccia system w/fragments of Bisbee group sediments - quartzite, siltstone, and limestone and Uncle Sam volcanics.	<5	0.3	28	2	26	46
410	Breccia Mostly - Volcanic	sericite, pyrite, & clay	Clay, Ser, Pyrite	P 1-3%	Abundant clay (primarily mont) resulting from primary alteration.	<5	0.1	46	<2	16	30
420	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 1-3%		<5	0.3	42	<2	12	36
430	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 1-3%		5	0.4	42	<2	6	20
440	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 1-3%		<5	0.1	95	<2	6	125
450	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 1-3%		<5	<.1	30	<2	12	16
460	Breccia Mostly - Volcanic		Clay Ser Pyrite	8% P 1-3%	Zone of particularly high clay content - probable fault/shear zone in breccia	<5	<.1	26	4	16	12
470	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 2-4%		<5	0.1	20	<2	22	12
480	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 2-4%		<5	0.1	18	4	10	10
490	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 2-4%		5	0.1	38	<2	32	12
500	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 1-3%		<5	0.1	28	2	42	12
510	Breccia Mixed		Clay, Ser, Pyrite	P 3-5%		<5	0.3	60	<2	42	55
520	Breccia Mixed		Clay, Ser, Pyrite	P 3-5%		<5	<.1	70	<2	42	30
530	Breccia Mixed		Clay, Ser, Pyrite	P 1-3%		<5	0.1	36	<2	36	80
540	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 1-3%		<5	<.1	10	<2	18	85
550	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 1-3%		<5	<.1	100	<2	10	80
560	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 1-3%		<5	0.1	28	<2	8	70
570	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 1-3%		<5	0.1	12	<2	18	70
580	Breccia Mostly - Volcanic	Chlorite	Clay&Ser Chlorite Pyrite	P M 2-4%		5	<.1	10	2	12	70
590	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P 1-3%		<5	0.3	10	<2	12	105
600											

rev. % - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 3502800N 583000E (utm) Logged By: James B. Nelson BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-1
Collar Elev: 4300ft
TD: 1380ft

Drilling Co: Boyles
Start: 8-03-94
Finish: 8-08-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~176'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag	Cu	Mo	Pb	Zn
600	Breccia Mostly - Volcanic	sericite, pyrite, & clay	Clay, Ser, Pyrite	P	3-5%	Breccia 600' through 670' has particularly large open spaces filled w/pyrite.	<5	0.3	75	<2	26	145
610	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	2-4%	Breccia system w/fragments of Bisbee group sediments - quartzite, siltstone, and limestone and Uncle Sam volcanics.	<5	0.1	90	38	190	105
620	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	3-5%	Abundant clay (primarily mont) resulting from primary alteration.	<5	<.1	22	4	55	38
630	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%		<5	<.1	50	4	55	28
640	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%		<5	<.1	28	12	26	18
650	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	2-4%		5	<.1	65	14	20	155
660	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%		<5	<.1	115	10	40	12
670	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%		<5	<.1	110	2	100	70
680	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	2-4%		<5	<.1	80	<2	55	12
690	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%		<5	<.1	38	<2	32	95
700	Breccia Mostly - Volcanic	Chlorite	Clay&Ser Chlorite Pyrite	P M	2-4%		<5	<.1	18	<2	26	65
710	Breccia Mostly - Volcanic		Clay&Ser Chlorite Pyrite	P M	2-4%		<5	<.1	12	2	18	70
720	Breccia Mostly - Volcanic		Clay&Ser Chlorite Pyrite	P M	2-4%		<5	<.1	10	<2	12	75
730	Breccia Mostly - Volcanic		Clay&Ser Chlorite Pyrite	P M	3-5%		5	<.1	16	<2	16	80
740	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	2-4%		<5	<.1	20	2	20	140
750	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%		<5	<.1	12	2	26	90
760	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%		<5	<.1	12	<2	22	90
770	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%		<5	<.1	60	2	70	48
780	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%		5	<.1	50	<2	60	40
790	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	2-4%		<5	<.1	18	<2	12	135
800												

brev. % - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 3502800N 583000E (utm) Logged By: James B. Nelson BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-1
Collar Elev: 4300ft
TD: 1380ft

Drilling Co: Boyles
Start: 8-03-94
Finish: 8-08-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~176'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
800	Breccia Mostly - Volcanic	sericite, pyrite, & clay	Clay, Ser, Pyrite	P	1-2%	<5	<.1	26	<2	26	110
810	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%	<5	0.1	16	<2	30	105
820	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	2-4%	5	0.3	70	<2	28	170
830	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	2-4%	<5	0.1	50	<2	36	50
840	Breccia Mixed		Clay, Ser, Pyrite	P	1-2%	<5	<.1	30	<2	38	90
850	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-2%	<5	<.1	60	<2	65	110
860	Breccia Mostly - Volcanic	Chlorite	Clay, Ser, Pyrite	P	1-3%	<5	<.1	16	<2	16	70
870	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%	<5	<.1	20	<2	20	90
880	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-3%	<5	<.1	10	<2	16	85
890	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-2%	<5	<.1	36	<2	48	60
900	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-2%	<5	<.1	18	<2	30	20
910	Breccia Mostly - Volcanic		Clay, Ser, Pyrite	P	1-2%	<5	0.1	48	<2	30	50
920	Breccia Mixed		Clay, Ser, Pyrite	P	Tr	<5	<.1	12	8	32	20
930	Breccia Mixed		Clay, Ser, Pyrite	P	ox	<5	<.1	18	2	20	20
940	Breccia Mixed		Clay, Ser, Pyrite	P	ox	<5	<.1	10	14	28	18
950	Breccia Mixed		Clay, Ser, Pyrite	P	ox	<5	0.4	50	32	30	36
960	Breccia Mixed		Clay, Ser, Pyrite	P	ox	<5	<.1	36	6	32	110
970	Breccia Mixed		Clay, Ser, Pyrite	P	ox	<5	<.1	40	<2	18	145
980	Breccia Bisbee Seds	Chlorite	Clay, Ser, Pyrite	P	1-3%	<5	<.1	30	<2	12	130
990	Breccia Andest Qtzite					<5	0.1	42	<2	10	110
1000											

Brecciated volcanics with occasional fragments of Bisbee sediments with the edge of the breccia system at ~980'

Fault zone at edge of breccia/fissure zone, marking the contact with bisbee group sediments.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

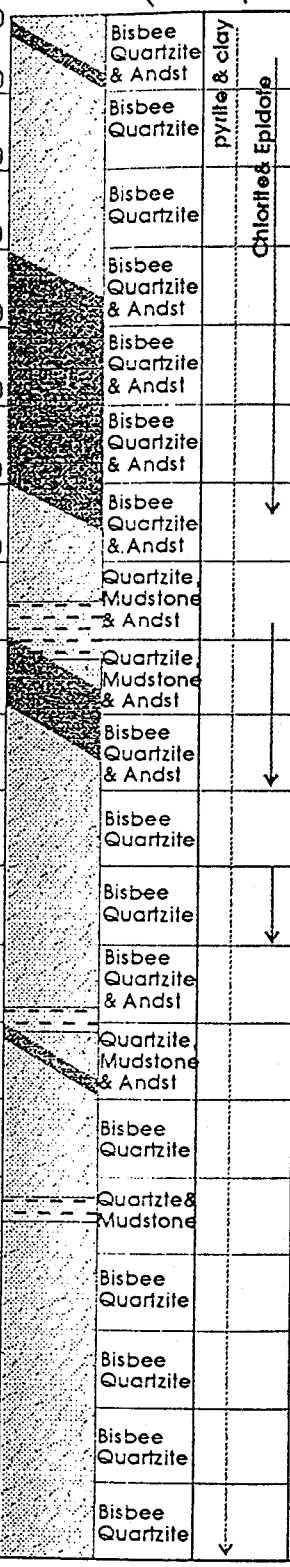
Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 3502800N 583000E (utm) Logged By: James B. Nelson BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-1
Collar Elev: 4300ft
TD: 1380ft

Drilling Co: Boyles
Start: 8-03-94
Finish: 8-08-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~176'



Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
1000-1010	Bisbee Quartzite & Andst	pyrite & clay	Clay Chl&Epi Pyrite	W M 1-2%	A sequence of Bisbee quartzite & mudstone crosscut by "andesite"dikes.	<5	<.1	30	<2	20	95
1010-1020	Bisbee Quartzite	pyrite & clay	Clay Chl&Epi Pyrite	W M 1-2%	Arkosic sandstone altered to white sugary quartzite with fine disseminated pyrite and clay after feldspar	<5	0.1	20	<2	20	65
1020-1030	Bisbee Quartzite	Chlorite& Epidote	Clay Chl&Epi Pyrite	W M 1-2%		<5	0.1	32	<2	26	65
1030-1040	Bisbee Quartzite & Andst		Clay Chl&Epi Pyrite	W M 1-2%		<5	0.1	46	<2	12	135
1040-1050	Bisbee Quartzite & Andst		Clay Chl&Epi Pyrite	W M 1-2%		<5	<.1	60	<2	32	115
1050-1060	Bisbee Quartzite & Andst		Clay Chl&Epi Pyrite	W M 1-2%		<5	<.1	50	4	26	110
1060-1070	Bisbee Quartzite &.Andst		Clay Chl&Epi Pyrite	W M 1-2%		<5	0.1	28	<2	22	90
1070-1080	Quartzite, Mudstone & Andst		Clay Chl&Epi Pyrite	W Tr 1-3%		<5	0.1	18	4	22	80
1080-1090	Quartzite, Mudstone & Andst		Clay Chl&Epi Pyrite	W M 1-2%		<5	<.1	65	2	18	90
1090-1100	Bisbee Quartzite & Andst		Clay Chl&Epi Pyrite	W M 1-2%		<5	<.1	48	2	22	85
1100-1110	Bisbee Quartzite		Clay Pyrite	W 1-2%		<5	0.3	50	2	46	65
1110-1120	Bisbee Quartzite		Clay Chl&Epi Pyrite	W Tr 1-3%		<5	0.1	32	2	46	55
1120-1130	Bisbee Quartzite & Andst		Clay Pyrite	W 2-4%		<5	0.1	28	<2	30	60
1130-1140	Quartzite, Mudstone & Andst		Clay Chl&Epi Pyrite	W Tr 1-2%		<5	0.1	50	<2	48	60
1140-1150	Bisbee Quartzite		Clay Pyrite	W 1-3%		<5	0.1	36	2	26	60
1150-1160	Quartzte& Mudstone		Clay Pyrite	W 2-4%		<5	0.1	26	<2	20	55
1160-1170	Bisbee Quartzite		Clay Pyrite	W 1-2%		<5	0.1	22	<2	28	50
1170-1180	Bisbee Quartzite		Clay Pyrite	W 1-3%		<5	<.1	38	2	40	60
1180-1190	Bisbee Quartzite		Clay Pyrite	W 1-3%		<5	0.3	80	<2	48	150
1190-1200	Bisbee Quartzite		Clay Pyrite	W 2-4%		<5	0.1	38	2	28	125

Abrev. % - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 3502800N 583000E (utm) Logged By: James B. Nelson BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-1
Collar Elev: 4300ft
TD: 1380ft

Drilling Co: Boyles
Start: 8-03-94
Finish: 8-08-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~176'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
1200	Bisbee Group Quartzite	pyrite & clay	Clay Pyrite	W 1-2%	Arkosic sandstone altered to white sugary quartzite with fine disseminated pyrite and clay after feldspar.	<5	0.1	30	<2	36	90
1210	Bisbee Group Quartzite	pyrite & clay	Clay Pyrite	W 1-2%		5	0.3	38	2	36	65
1220	Bisbee Group Quartzite		Clay Pyrite	W 1-2%		<5	0.3	125	2	80	105
1230	Bisbee Group Quartzite		Clay Pyrite	W 1-2%		<5	0.1	50	4	70	50
1240	Bisbee Group Quartzite		Clay Pyrite	W 1-2%		<5	<.1	36	2	42	65
1250	Bisbee Group Quartzite		Clay Pyrite	W 1-2%		<5	<.1	28	2	26	50
1260	Bisbee Group Quartzite		Clay Pyrite	W 1-3%		<5	<.1	22	2	28	46
1270	Bisbee Group Quartzite		Clay Pyrite	W 1-3%		<5	<.1	22	2	22	46
1280	Bisbee Group Quartzite		Clay Pyrite	W 2-4%		<5	0.3	155	2	18	90
1290	Bisbee Group Quartzite		Clay Pyrite	W 3-5%		<5	<.1	30	<2	18	36
1300	Bisbee Group Quartzite		Clay Pyrite	W 1-3%		<5	<.1	20	2	16	20
1310	Bisbee Group Quartzite		Clay Pyrite	W 1-3%		5	0.1	20	4	18	46
1320	Bisbee Calc Seds	Epidote	Clay Epidote Pyrite	Tr 5% 2-4%	Intercept of calcareous siltstone with alteration to epidote	<5	0.1	26	4	38	50
1330	Bisbee Group Quartzite	Epidote	Clay Epidote Pyrite	Tr Tr 1-3%		<5	0.1	22	2	20	48
1340	Bisbee Group Quartzite	Epidote	Clay,Ep Gypsum Pyrite	Tr Tr 1-2%							
1350	Bisbee Group Quartzite	Epidote	Clay Epidote Pyrite	Tr Tr 1-2%							
1360	Bisbee Calc Seds	Epidote	Clay Epidote Pyrite	Tr 15% 1-2%	Intercept of calcareous siltstone with alteration to epidote						
1370	Bisbee Group Quartzite	Epidote	Clay Epidote Pyrite	Tr Tr 1-2%							
1380											

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 3502800N 583000E (utm) Logged By: James B. Nelson BHP

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE078
August 22, 1994
PROJECT NO.: 3102
RR-1 (0010-1380)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 132 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
1	RR-1 0010-0020 **									
2	RR-1 0020-0030	.005	< .1	< 2.	< 2.	42.	20.	48.	4.	620.
3	RR-1 0030-0040	< .005	< .1	3.	< 2.	105.	28.	415.	2.	5850.
4	RR-1 0040-0050	.005	< .1	3.	< 2.	50.	36.	145.	2.	1200.
5	RR-1 0050-0060	< .005	< .1	4.	< 2.	50.	16.	110.	< 2.	1250.
6	RR-1 0060-0070	< .005	.1	< 2.	< 2.	46.	10.	70.	< 2.	230.
7	RR-1 0070-0080	< .005	.1	< 2.	< 2.	20.	30.	22.	< 2.	250.
8	RR-1 0080-0090	< .005	.1	4.	< 2.	26.	26.	38.	< 2.	280.
9	RR-1 0090-0100	< .005	.1	3.	< 2.	28.	42.	150.	< 2.	950.
10	RR-1 0100-0110	< .005	.1	6.	< 2.	26.	38.	100.	< 2.	520.
11	RR-1 0110-0120	< .005	.1	2.	< 2.	20.	20.	80.	2.	380.
12	RR-1 0120-0130	< .005	.3	2.	< 2.	65.	16.	150.	< 2.	1850.
13	RR-1 0130-0140	< .005	< .1	< 2.	< 2.	12.	20.	22.	< 2.	300.
14	RR-1 0140-0150	< .005	< .1	< 2.	< 2.	16.	18.	70.	< 2.	950.
15	RR-1 0150-0160	< .005	< .1	< 2.	< 2.	16.	20.	65.	< 2.	740.
16	RR-1 0160-0170	< .005	.1	< 2.	< 2.	26.	16.	160.	< 2.	1550.
17	RR-1 0170-0180	< .005	< .1	< 2.	< 2.	12.	16.	90.	< 2.	610.
18	RR-1 0180-0190	< .005	.3	< 2.	< 2.	28.	20.	80.	< 2.	770.
19	RR-1 0190-0200	< .005	.4	< 2.	< 2.	22.	20.	75.	< 2.	560.
20	RR-1 0200-0210	< .005	.1	< 2.	< 2.	32.	18.	75.	< 2.	270.
21	RR-1 0210-0220	< .005	.1	< 2.	< 2.	18.	10.	28.	< 2.	320.
22	RR-1 0220-0230	< .005	< .1	< 2.	< 2.	16.	18.	28.	< 2.	180.
23	RR-1 0230-0240	< .005	< .1	< 2.	< 2.	16.	18.	46.	< 2.	150.
24	RR-1 0240-0250	< .005	< .1	< 2.	< 2.	16.	10.	70.	< 2.	160.
25	RR-1 0250-0260	.005	< .1	< 2.	< 2.	28.	12.	120.	< 2.	200.

Charles E. Thompson

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE078
August 22, 1994
PROJECT NO.: 3102
RR-1 (0010-1380)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 132 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
26	RR-1 0260-0270	< .005	< .1	< 2.	< 2.	20.	12.	155.	< 2.	520.
27	RR-1 0270-0280	< .005	< .1	< 2.	< 2.	20.	16.	165.	< 2.	880.
28	RR-1 0280-0290	.005	< .1	2.	< 2.	18.	18.	135.	< 2.	810.
29	RR-1 0290-0300	< .005	.3	< 2.	< 2.	16.	10.	125.	< 2.	780.
30	RR-1 0300-0310	< .005	.3	2.	< 2.	26.	16.	140.	< 2.	1500.
31	RR-1 0310-0320	< .005	.3	3.	< 2.	28.	20.	155.	< 2.	600.
32	RR-1 0320-0330	< .005	.1	< 2.	< 2.	28.	10.	155.	< 2.	590.
33	RR-1 0330-0340	< .005	.3	< 2.	< 2.	32.	16.	180.	< 2.	880.
34	RR-1 0340-0350	< .005	.3	2.	< 2.	22.	10.	50.	< 2.	700.
35	RR-1 0350-0360	< .005	.3	< 2.	< 2.	16.	12.	30.	< 2.	560.
36	RR-1 0360-0370	< .005	.3	< 2.	< 2.	12.	10.	16.	< 2.	430.
37	RR-1 0370-0380	< .005	.1	2.	< 2.	26.	12.	38.	2.	610.
38	RR-1 0380-0390	< .005	.1	2.	< 2.	16.	20.	18.	2.	580.
39	RR-1 0390-0400	< .005	.3	3.	< 2.	18.	20.	22.	< 2.	820.
40	RR-1 0400-0410	< .005	.3	5.	< 2.	28.	26.	46.	2.	1000.
41	RR-1 0410-0420	.005	.1	2.	< 2.	46.	16.	30.	< 2.	330.
42	RR-1 0420-0430	< .005	.3	< 2.	< 2.	42.	12.	36.	< 2.	270.
43	RR-1 0430-0440	< .005	.4	< 2.	< 2.	42.	6.	20.	< 2.	270.
44	RR-1 0440-0450	< .005	.1	2.	< 2.	95.	6.	125.	< 2.	190.
45	RR-1 0450-0460	< .005	< .1	3.	< 2.	30.	12.	16.	< 2.	110.
46	RR-1 0460-0470	< .005	< .1	3.	< 2.	26.	16.	12.	4.	140.
47	RR-1 0470-0480	< .005	.1	2.	< 2.	20.	22.	12.	< 2.	180.
48	RR-1 0480-0490	< .005	.1	< 2.	< 2.	18.	10.	10.	4.	170.
49	RR-1 0490-0500	.005	.1	3.	< 2.	38.	32.	12.	< 2.	190.
50	RR-1 0500-0510	< .005	.1	< 2.	< 2.	28.	42.	12.	2.	170.

Charles E. Thompson — William L. Lehmbeck — James A. Martin

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE078
August 22, 1994
PROJECT NO.: 3102
RR-1 (0010-1380)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 132 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
51	RR-1 0510-0520	< .005	.3	< 2.	< 2.	60.	42.	55.	< 2.	550.
52	RR-1 0520-0530	< .005	< .1	2.	< 2.	70.	42.	30.	< 2.	220.
53	RR-1 0530-0540	< .005	.1	2.	< 2.	36.	36.	80.	< 2.	220.
54	RR-1 0540-0550	< .005	< .1	2.	< 2.	10.	18.	85.	< 2.	1400.
55	RR-1 0550-0560	< .005	< .1	8.	< 2.	100.	10.	80.	< 2.	500.
56	RR-1 0560-0570	< .005	.1	3.	< 2.	28.	8.	70.	< 2.	160.
57	RR-1 0570-0580	< .005	.1	2.	< 2.	12.	18.	70.	< 2.	940.
58	RR-1 0580-0590	.005	< .1	< 2.	< 2.	10.	12.	70.	2.	670.
59	RR-1 0590-0600	< .005	.3	2.	< 2.	10.	12.	105.	< 2.	1550.
60	RR-1 0600-0610	< .005	.3	13.	3.	75.	26.	145.	< 2.	150.
61	RR-1 0610-0620	< .005	.1	3.	< 2.	90.	190.	105.	38.	120.
62	RR-1 0620-0630	< .005	< .1	2.	< 2.	22.	55.	38.	4.	150.
63	RR-1 0630-0640	< .005	< .1	3.	< 2.	50.	55.	28.	4.	140.
64	RR-1 0640-0650	< .005	< .1	2.	< 2.	28.	26.	18.	12.	110.
65	RR-1 0650-0660	.005	< .1	6.	< 2.	65.	20.	155.	14.	170.
66	RR-1 0660-0670	< .005	< .1	4.	< 2.	115.	40.	12.	10.	120.
67	RR-1 0670-0680	< .005	< .1	5.	< 2.	110.	100.	70.	2.	830.
68	RR-1 0680-0690	< .005	< .1	5.	< 2.	80.	55.	12.	< 2.	110.
69	RR-1 0690-0700	< .005	< .1	3.	< 2.	38.	32.	95.	< 2.	390.
70	RR-1 0700-0710	< .005	< .1	< 2.	< 2.	18.	26.	65.	< 2.	650.
71	RR-1 0710-0720	< .005	< .1	< 2.	< 2.	12.	18.	70.	2.	720.
72	RR-1 0720-0730	< .005	< .1	< 2.	< 2.	10.	12.	75.	< 2.	760.
73	RR-1 0730-0740	.005	< .1	< 2.	< 2.	16.	16.	80.	< 2.	740.
74	RR-1 0740-0750	< .005	< .1	< 2.	< 2.	20.	20.	140.	2.	810.
75	RR-1 0750-0760	< .005	< .1	< 2.	< 2.	12.	26.	90.	2.	1700.

Charles E. Thompson William L. Lehmbeck James A. Martin

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 132 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
76	RR-1 0760-0770	< .005	< .1	< 2.	< 2.	12.	22.	90.	< 2.	950.
77	RR-1 0770-0780	< .005	< .1	2.	< 2.	60.	70.	48.	2.	120.
78	RR-1 0780-0790	< .005	< .1	< 2.	< 2.	50.	60.	40.	< 2.	130.
79	RR-1 0790-0800	< .005	< .1	< 2.	< 2.	18.	12.	135.	< 2.	510.
80	RR-1 0800-0810	< .005	< .1	< 2.	< 2.	26.	26.	110.	< 2.	790.
81	RR-1 0810-0820	< .005	.1	< 2.	< 2.	16.	30.	105.	< 2.	1250.
82	RR-1 0820-0830	.005	.3	3.	< 2.	70.	28.	170.	< 2.	170.
83	RR-1 0830-0840	< .005	.1	< 2.	< 2.	50.	36.	50.	< 2.	610.
84	RR-1 0840-0850	< .005	< .1	< 2.	< 2.	30.	38.	90.	< 2.	670.
85	RR-1 0850-0860	< .005	< .1	< 2.	< 2.	60.	65.	110.	< 2.	990.
86	RR-1 0860-0870	< .005	< .1	< 2.	< 2.	16.	16.	70.	< 2.	980.
87	RR-1 0870-0880	< .005	< .1	< 2.	< 2.	20.	20.	90.	< 2.	1000.
88	RR-1 0880-0890	< .005	< .1	< 2.	< 2.	10.	16.	85.	< 2.	800.
89	RR-1 0890-0900	< .005	< .1	< 2.	< 2.	36.	48.	60.	< 2.	180.
90	RR-1 0900-0910	< .005	.1	< 2.	< 2.	18.	30.	20.	< 2.	120.
91	RR-1 0910-0920	< .005	.1	< 2.	< 2.	48.	30.	50.	< 2.	150.
92	RR-1 0920-0930	< .005	< .1	< 2.	< 2.	12.	32.	20.	8.	70.
93	RR-1 0930-0940	< .005	< .1	< 2.	< 2.	18.	20.	20.	2.	100.
94	RR-1 0940-0950	< .005	< .1	< 2.	< 2.	10.	28.	18.	14.	100.
95	RR-1 0950-0960	< .005	.4	4.	< 2.	50.	30.	36.	32.	180.
96	RR-1 0960-0970	< .005	< .1	2.	< 2.	36.	32.	110.	6.	370.
97	RR-1 0970-0980	< .005	< .1	3.	< 2.	40.	18.	145.	< 2.	690.
98	RR-1 0980-0990	< .005	< .1	< 2.	< 2.	30.	12.	130.	< 2.	670.
99	RR-1 0990-1000	< .005	.1	< 2.	< 2.	42.	10.	110.	< 2.	800.
100	RR-1 1000-1010	< .005	< .1	< 2.	< 2.	30.	20.	95.	< 2.	690.

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE078
August 22, 1994
PROJECT NO.: 3102
RR-1 (0010-1380)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 132 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
101	RR-1 1010-1020	< .005	.1	< 2.	< 2.	20.	20.	65.	< 2.	390.
102	RR-1 1020-1030	< .005	.1	8.	< 2.	32.	26.	65.	< 2.	530.
103	RR-1 1030-1040	< .005	.1	< 2.	< 2.	46.	12.	135.	< 2.	1150.
104	RR-1 1040-1050	< .005	< .1	2.	< 2.	60.	32.	115.	< 2.	920.
105	RR-1 1050-1060	< .005	< .1	< 2.	< 2.	50.	26.	110.	4.	910.
106	RR-1 1060-1070	< .005	.1	< 2.	< 2.	28.	22.	90.	< 2.	900.
107	RR-1 1070-1080	< .005	.1	< 2.	< 2.	18.	22.	80.	4.	850.
108	RR-1 1080-1090	< .005	< .1	< 2.	< 2.	65.	18.	90.	2.	1300.
109	RR-1 1090-1100	< .005	< .1	< 2.	< 2.	48.	22.	85.	2.	1000.
110	RR-1 1100-1110	< .005	.3	< 2.	< 2.	50.	46.	65.	2.	720.
111	RR-1 1110-1120	< .005	.1	< 2.	< 2.	32.	46.	55.	2.	420.
112	RR-1 1120-1130	< .005	.1	< 2.	< 2.	28.	30.	60.	< 2.	520.
113	RR-1 1130-1140	< .005	.1	2.	< 2.	50.	48.	60.	< 2.	490.
114	RR-1 1140-1150	< .005	.1	< 2.	< 2.	36.	26.	60.	2.	600.
115	RR-1 1150-1160	< .005	.1	< 2.	< 2.	26.	20.	55.	< 2.	520.
116	RR-1 1160-1170	< .005	.1	< 2.	< 2.	22.	28.	50.	< 2.	50.
117	RR-1 1170-1180	< .005	< .1	< 2.	< 2.	38.	40.	60.	2.	330.
118	RR-1 1180-1190	< .005	.3	< 2.	< 2.	80.	48.	150.	< 2.	170.
119	RR-1 1190-1200	< .005	.1	< 2.	< 2.	38.	28.	125.	2.	140.
120	RR-1 1200-1210	< .005	.1	< 2.	< 2.	30.	36.	90.	< 2.	270.
121	RR-1 1210-1220	.005	.3	< 2.	< 2.	38.	36.	65.	2.	570.
122	RR-1 1220-1230	< .005	.3	< 2.	< 2.	125.	80.	105.	2.	300.
123	RR-1 1230-1240	< .005	.1	< 2.	< 2.	50.	70.	50.	4.	370.
124	RR-1 1240-1250	< .005	< .1	< 2.	< 2.	36.	42.	65.	2.	900.
125	RR-1 1250-1260	< .005	< .1	< 2.	< 2.	28.	26.	50.	2.	610.

Charles E. Thompson
Arizona Registered Assayer No. 9127

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE078
August 22, 1994
PROJECT NO.: 3102
RR-1 (0010-1380)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 132 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
126	RR-1 1260-1270	< .005	< .1	< 2.	< 2.	22.	28.	46.	2.	450.
127	RR-1 1270-1280	< .005	< .1	< 2.	< 2.	22.	22.	46.	2.	490.
128	RR-1 1280-1290	< .005	.3	< 2.	< 2.	155.	18.	90.	2.	1050.
129	RR-1 1290-1300	< .005	< .1	< 2.	< 2.	30.	18.	36.	< 2.	1500.
130	RR-1 1300-1310	< .005	< .1	< 2.	< 2.	20.	16.	20.	2.	120.
131	RR-1 1310-1320	.005	.1	< 2.	< 2.	20.	18.	46.	4.	510.
132	RR-1 1320-1330	< .005	.1	< 2.	< 2.	26.	38.	50.	4.	540.
133	RR-1 1330-1340	< .005	.1	< 2.	< 2.	22.	20.	48.	2.	360.
134	RR-1 1340-1350 **									
135	RR-1 1350-1360 **									
136	RR-1 1360-1370 **									
137	RR-1 1370-1380 **									

*NOTE: Method of analysis by combination fire assay and atomic absorption.

**NOTE: Samples not received.

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE082
September 14, 1994
PROJECT NO.: 3102
RR-1 1340-1380

BHP MINERALS
Attn: Mr. Jim Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 4 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
1	RR-1 1340-1350	< .005	.1	< 2.	< 2.	26.	36.	65.	2.	520.
2	RR-1 1350-1360	< .005	< .1	< 2.	< 2.	22.	30.	60.	2.	620.
3	RR-1 1360-1370	< .005	< .1	< 2.	< 2.	20.	40.	80.	< 2.	520.
4	RR-1 1370-1380	< .005	.1	< 2.	< 2.	28.	34.	105.	4.	360.

*NOTE: Method of analysis by combination fire assay and atomic absorption.

William L. Lehmbeck
Manager 9/14/94

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9125

James A. Martin

ROBBERS' ROOST, AZ

Drill Hole: RR-2
Collar Elev: 4250ft
TD: 1000ft

Drilling Co: Boyles
Start: 8-09-94
Finish: 8-12-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~145'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
0	Uncle Sam Volc	sericite, pyrite, & clay oxidized	Clay Hem Ser	P P Tr	Hematite staining from oxidized pyrite throughout the oxidized zone.						
10	Uncle Sam Volc		Clay Hem Ser	P P Tr	Very abundant clay (primarily mont) resulting from primary alteration and later leaching within the oxidized zone						
20	Uncle Sam Volc		Clay Hem Ser	P P Tr		<5	0.2	16	2	30	10
30	Uncle Sam Volc		Clay Hem Ser	P P Tr		<5	0.2	6	2	70	8
40	Uncle Sam Volc		Clay Hem Ser	P P Tr		<5	<.2	12	2	18	12
50	Uncle Sam Volc		Clay Hem Ser	P P Tr		<5	0.2	10	2	10	16
60	Uncle Sam Volc		Clay Hem Ser	P P Tr		<5	<.2	12	2	10	20
70	Uncle Sam Volc		Clay Hem Ser	P P Tr		<5	<.2	18	2	32	46
80	Uncle Sam Volc		Clay Hem Ser	P P Tr		<5	<.2	8	<2	12	55
90	Uncle Sam Volc		Clay Lim Ser	P		<5	<.2	10	2	10	28
100	Uncle Sam Volc		Clay Hem Ser	P P Tr		<5	<.2	28	2	18	40
110	Uncle Sam Volc		Clay Hem Ser	P P Tr		<5	<.2	10	2	18	16
120	Uncle Sam Volc		Clay Hem Ser	P P Tr		<5	<.2	20	4	20	30
130	Uncle Sam Volc		Clay&Ser Fe-ox Pyrite	P Tr		<5	0.2	26	2	16	36
140	Uncle Sam Volc		Clay&Ser Fe-ox Pyrite	P Tr	▼ Water Table	<5	<.2	8	2	12	80
150	Uncle Sam Volc		Clay Ser Pyrite	M P Tr		<5	<.2	6	<2	10	48
160	Uncle Sam Volc		Clay Ser Pyrite	M P Tr		<5	0.2	12	4	12	70
170	Uncle Sam Volc		Clay Ser Pyrite	M P 1-2%		<5	0.2	12	<2	26	155
180	Uncle Sam Volc		Clay Ser Pyrite	M P 1-2%		<5	0.9	18	4	48	275
190	Uncle Sam Volc		Clay Ser Pyrite	M P Tr		<5	0.2	8	2	20	140
200											

Prev.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S30 _____N _____E (utm) Logged By: James B. Nelson

BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-2
Collar Elev: 4250ft
TD: 1000ft

Drilling Co: Boyles
Start: 8-09-94
Finish: 8-12-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~145'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
200	Uncle Sam Volc	sericite, pyrite, & clay	Clay Ser Pyrite	M P 1-3%	Unoxidized Uncle Sam Volcanics with approx 1-3% disseminated pyrite .	<5	0.2	8	<2	10	105
210	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.2	8	<2	16	115
220	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.3	12	2	18	130
230	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	8	2	18	105
240	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	6	2	26	105
250	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	6	2	16	95
260	Uncle Sam Volc		Clay Ser Pyrite	M P 2-3%		<5	<.2	8	2	16	110
270	Uncle Sam Volc		Clay Ser Pyrite	M P 2-3%		<5	0.2	8	2	16	100
280	Uncle Sam Volc		Clay/Ser Epidote Pyrite	M/P Tr 2-4%		<5	0.2	32	2	16	155
290	Uncle Sam Volc		Clay Ser Pyrite	M P 2-4%		<5	<.2	48	4	10	145
300	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	8	2	12	95
310	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.2	8	2	20	80
320	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		5	0.2	6	2	16	70
330	Uncle Sam Volc		Clay Ser Pyrite	M P 2-4%		<5	<.2	6	2	18	75
340	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	8	2	22	115
350	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		30	<.2	8	2	26	155
360	Uncle Sam Volc		Clay Ser Pyrite	M P 2-4%		<5	<.2	10	4	30	150
370	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	8	2	22	125
380	Uncle Sam Volc		Clay Ser Pyrite	M P 2-4%		<5	0.2	8	2	22	115
390	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.2	8	2	12	120
400											

Prev.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S30 _____N _____E (utm) Logged By: James B. Nelson

BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-2
Collar Elev: 4250ft
TD: 1000ft

Drilling Co: Boyles
Start: 8-09-94
Finish: 8-12-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~145'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
400	Uncle Sam Volc	sericite, pyrite, & clay	Clay Ser Pyrite	M P 1-3%	Unoxidized Uncle Sam Volcanics with approx 1-3% disseminated pyrite.	<5	0.2	8	4	28	140
410	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.3	10	4	18	135
420	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	10	2	16	165
430	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	8	2	32	145
440	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.2	10	2	50	220
450	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	16	<2	30	140
460	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.2	28	2	80	320
470	Uncle Sam Volc		Clay Ser Pyrite	M P 2-4%		<5	<.2	8	2	16	135
480	Uncle Sam Volc		Clay Ser Pyrite	M P 2-4%		<5	<.2	8	<2	18	125
490	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	22	4	36	50
500	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	30	4	12	90
510	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.2	22	4	90	320
520	Bisbee Fm / Uncle Sam Volc		Clay Ser Pyrite	M P 2-4%		<5	<.2	18	2	20	46
530	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.2	18	2	28	80
540	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	12	2	10	26
550	Uncle Sam Volc		Clay Ser Pyrite	M P 2-4%		<5	<.2	12	<2	8	30
560	Uncle Sam Volc		Clay Ser Pyrite	M P 2-4%		<5	<.2	16	2	30	195
570	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	10	<2	20	160
580	Uncle Sam Volc & Bisbee Fm		Clay Ser Pyrite	M P 2-4%		<5	<.2	26	4	16	90
590	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.2	16	2	16	55
600											

Prev.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S30 _____N _____E (utm) Logged By: James B. Nelson

BHP

Drill Hole: RR-2
Collar Elev: 4250ft
TD: 1000ft

ROBBERS' ROOST, AZ

Drilling Co: Boyles
Start: 6-09-94
Finish: 8-12-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~145'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
600	Uncle Sam Volcanic	sericite, pyrite, & clay	Clay Ser Pyrite	M P 1-2%	Uncle Sam Volcanics with approximately 1-3% pyrite	<5	<.2	18	2	12	60
610	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-3%		<5	<.2	18	4	22	130
620	Uncle Sam Volcanic		Clay/Ser Epidote Pyrite	M/P Tr 1-3%		<5	<.2	12	<2	26	115
630	Uncle Sam Volcanic		Clay/Ser Epidote Pyrite	M/P Tr 2-4%		<5	<.2	12	<2	28	160
640	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-3%		<5	<.2	12	<2	12	75
650	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-3%		<5	<.2	8	<2	10	70
660	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-2%		<5	<.2	8	<2	10	70
670	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-2%		<5	<.2	10	<2	26	90
680	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-2%		<5	<2	10	2	2	20
690	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-3%		<5	<.2	30	2	12	190
700	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-2%		<5	<.2	40	<2	26	185
710	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-3%		<5	<.2	26	<2	30	150
720	Uncle Sam & And Dike		Clay Ser Pyrite	M P 1-3%		<5	<.2	32	2	30	185
730	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-2%		<5	<.2	38	<2	28	220
740	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-2%		<5	<.2	32	4	42	200
750	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-2%		<5	<.2	20	4	18	320
760	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-2%		<5	0.2	30	4	42	275
770	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-3%		<5	<.2	20	4	40	260
780	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-3%		<5	0.2	26	4	28	160
790	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-3%		<5	0.2	42	4	18	175
800											

prev.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 _____N _____E (utm) Logged By: James B. Nelson

BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-2
Collar Elev: 4250ft
TD: 1000ft

Drilling Co: Boyles
Start: 8-09-94
Finish: 8-12-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~145'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
800	Uncle Sam Volcanic	sericite & clay	Clay Ser Pyrite	M P 1-2%	Uncle Sam Volcanics with 1-2% pyrite, except close to the contact with Bisbee formation where pyrite content significantly increases	<5	0.3	42	2	26	245
810	Uncle Sam Volcanic	sericite, pyrite, & clay	Clay Ser Pyrite	M P 1-2%		<5	<.2	42	2	16	230
820	Uncle Sam Volcanic	sericite, pyrite, & clay	Clay Ser Pyrite	M P 1-2%		5	0.2	28	4	22	160
830	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-3%		<5	<.2	18	<2	10	95
840	Uncle Sam Volcanic		Clay Ser Pyrite	M P 2-4%		<5	<.2	20	2	10	115
850	Uncle Sam Volcanic		Clay Ser Pyrite	M P 1-3%		<5	0.2	22	2	16	135
860	Uncle Sam Volcanic		Clay Ser Pyrite	M P 3-5%		<5	0.3	30	2	16	135
870	Volcanic & Andes Dike		Clay Ser Pyrite	M P 3-5%		<5	0.3	22	2	40	115
880	Uncle Sam Volcanic		Clay Ser Pyrite	M P 3-5%		<5	0.2	16	6	55	110
890	Bisbee Quartzite		Clay Ser Pyrite	M Tr 1-2%	Bisbee formation - quartzite with associated clay and trace of sericite. Minor oxidation of pyrite suggests proximity to a fault	<5	0.2	16	12	42	90
900	Bisbee Quartzite		Clay Ser Pyrite	M Tr Tr		<5	<.2	10	4	36	42
910	Bisbee Quartzite	trace of oxidation	Clay Ser Pyrite	M Tr Tr		<5	0.2	10	4	20	16
920	Bisbee Quartzite	trace of oxidation	Clay Ser Pyrite	M Tr 1-3%		<5	0.3	18	6	65	115
930	Bisbee Quartzite	trace of oxidation	Clay Ser Pyrite	M Tr 1-3%		<5	0.3	16	14	55	105
940	Bisbee Quartzite	trace of oxidation	Clay Ser Pyrite	M Tr 1-3%		<5	0.3	18	4	32	55
950	Bisbee Quartzite	trace of oxidation	Clay Ser Pyrite	M Tr 1-3%		<5	<.2	16	6	32	75
960	Bisbee Quartzite	trace of oxidation	Clay Ser Pyrite	M Tr 1-2%		<5	<.2	26	4	20	65
970	Bisbee Quartzite	trace of oxidation	Clay Ser Pyrite	M Tr 1-2%		<5	0.5	30	2	48	235
980	Bisbee Quartzite	trace of oxidation	Clay Ser Pyrite	M Tr 1-2%		<5	0.2	16	4	26	50
990	Bisbee Quartzite	trace of oxidation	Clay Ser Pyrite	M Tr 1-3%		<5	0.2	16	4	36	48
1000											

Rev. % - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S30 _____N _____E (utm) Logged By: James B. Nelson

BHP

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE079
August 30, 1994
PROJECT NO.: 3102
RR-2 (0020-1000)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 98 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
1	RR-2 0020-0030	< .005	.2	2.	< 2.	16.	30.	10.	2.	250.
2	RR-2 0030-0040	< .005	.2	4.	< 2.	6.	70.	8.	2.	280.
3	RR-2 0040-0050	< .005	< .2	5.	< 2.	12.	18.	12.	2.	270.
4	RR-2 0050-0060	< .005	.2	10.	< 2.	10.	10.	16.	2.	340.
5	RR-2 0060-0070	< .005	< .2	7.	< 2.	12.	10.	20.	2.	310.
6	RR-2 0070-0080	< .005	< .2	7.	< 2.	18.	32.	46.	2.	350.
7	RR-2 0080-0090	< .005	< .2	< 2.	< 2.	8.	12.	55.	< 2.	210.
8	RR-2 0090-0100	< .005	< .2	< 2.	< 2.	10.	10.	28.	2.	230.
9	RR-2 0100-0110	< .005	< .2	2.	< 2.	28.	18.	40.	2.	250.
10	RR-2 0110-0120	< .005	< .2	2.	< 2.	10.	18.	16.	2.	220.
11	RR-2 0120-0130	< .005	< .2	2.	< 2.	20.	20.	30.	4.	260.
12	RR-2 0130-0140	< .005	.2	< 2.	< 2.	26.	16.	36.	2.	220.
13	RR-2 0140-0150	< .005	< .2	2.	< 2.	8.	12.	80.	2.	430.
14	RR-2 0150-0160	< .005	< .2	2.	< 2.	6.	10.	48.	< 2.	240.
15	RR-2 0160-0170	< .005	.2	5.	< 2.	12.	12.	70.	4.	230.
16	RR-2 0170-0180	< .005	.2	3.	< 2.	12.	26.	155.	< 2.	1300.
17	RR-2 0180-0190	< .005	.9	3.	< 2.	18.	48.	275.	4.	910.
18	RR-2 0190-0200	< .005	.2	2.	< 2.	8.	20.	140.	2.	1200.
19	RR-2 0200-0210	< .005	.2	< 2.	< 2.	8.	10.	105.	< 2.	1250.
20	RR-2 0210-0220	< .005	.2	2.	< 2.	8.	16.	115.	< 2.	1200.
21	RR-2 0220-0230	< .005	.3	< 2.	< 2.	12.	18.	130.	2.	1350.
22	RR-2 0230-0240	< .005	< .2	< 2.	< 2.	8.	18.	105.	2.	1550.
23	RR-2 0240-0250	< .005	< .2	< 2.	< 2.	6.	26.	105.	2.	1400.
24	RR-2 0250-0260	< .005	< .2	< 2.	< 2.	6.	16.	95.	2.	1500.
25	RR-2 0260-0270	< .005	< .2	< 2.	< 2.	8.	16.	110.	2.	1400.

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 98 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
26	RR-2 0270-0280	< .005	.2	< 2.	< 2.	8.	16.	100.	2.	1500.
27	RR-2 0280-0290	< .005	.2	< 2.	< 2.	32.	16.	155.	2.	3450.
28	RR-2 0290-0300	< .005	< .2	< 2.	< 2.	48.	10.	145.	4.	5050.
29	RR-2 0300-0310	< .005	< .2	< 2.	< 2.	8.	12.	95.	2.	1300.
30	RR-2 0310-0320	< .005	.2	< 2.	< 2.	8.	20.	80.	2.	1500.
31	RR-2 0320-0330	.005	.2	< 2.	< 2.	6.	16.	70.	2.	1000.
32	RR-2 0330-0340	< .005	< .2	2.	< 2.	6.	18.	75.	2.	1200.
33	RR-2 0340-0350	< .005	< .2	< 2.	< 2.	8.	22.	115.	2.	1900.
34	RR-2 0350-0360	.030	< .2	< 2.	< 2.	8.	26.	155.	2.	2150.
35	RR-2 0360-0370	< .005	< .2	2.	< 2.	10.	30.	150.	4.	2350.
36	RR-2 0370-0380	< .005	< .2	< 2.	< 2.	8.	22.	125.	2.	1400.
37	RR-2 0380-0390	< .005	.2	< 2.	< 2.	8.	22.	115.	2.	1600.
38	RR-2 0390-0400	< .005	.2	< 2.	< 2.	8.	12.	120.	2.	2150.
39	RR-2 0400-0410	< .005	.2	6.	< 2.	8.	28.	140.	4.	2550.
40	RR-2 0410-0420	< .005	.3	< 2.	< 2.	10.	18.	135.	4.	2250.
41	RR-2 0420-0430	< .005	< .2	< 2.	< 2.	10.	16.	165.	2.	3200.
42	RR-2 0430-0440	< .005	< .2	< 2.	< 2.	8.	32.	145.	2.	1650.
43	RR-2 0440-0450	< .005	.2	2.	< 2.	10.	50.	220.	2.	2200.
44	RR-2 0450-0460	< .005	< .2	2.	< 2.	16.	30.	140.	< 2.	1250.
45	RR-2 0460-0470	< .005	.2	3.	< 2.	28.	80.	320.	2.	1350.
46	RR-2 0470-0480	< .005	< .2	2.	< 2.	8.	16.	135.	2.	1950.
47	RR-2 0480-0490	< .005	< .2	< 2.	< 2.	8.	18.	125.	< 2.	2350.
48	RR-2 0490-0500	< .005	< .2	< 2.	< 2.	22.	36.	50.	4.	530.
49	RR-2 0500-0510	< .005	< .2	4.	< 2.	30.	12.	90.	4.	570.
50	RR-2 0510-0520	< .005	.2	< 2.	< 2.	22.	90.	320.	4.	760.

Charles E. Thompson

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE079
August 30, 1994
PROJECT NO.: 3102
RR-2 (0020-1000)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 98 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
51	RR-2 0520-0530	< .005	< .2	< 2.	< 2.	18.	20.	46.	2.	280.
52	RR-2 0530-0540	< .005	.2	< 2.	< 2.	18.	28.	80.	2.	450.
53	RR-2 0540-0550	< .005	< .2	< 2.	< 2.	12.	10.	26.	2.	360.
54	RR-2 0550-0560	< .005	< .2	< 2.	< 2.	12.	8.	30.	< 2.	290.
55	RR-2 0560-0570	< .005	< .2	2.	< 2.	16.	30.	195.	2.	2050.
56	RR-2 0570-0580	< .005	< .2	< 2.	< 2.	10.	20.	160.	< 2.	3150.
57	RR-2 0580-0590	< .005	< .2	2.	< 2.	26.	16.	90.	4.	730.
58	RR-2 0590-0600	< .005	< .2	< 2.	< 2.	16.	16.	55.	2.	410.
59	RR-2 0600-0610	< .005	< .2	< 2.	< 2.	18.	12.	60.	2.	450.
60	RR-2 0610-0620	< .005	< .2	< 2.	< 2.	18.	22.	130.	4.	900.
61	RR-2 0620-0630	< .005	< .2	< 2.	< 2.	12.	26.	115.	< 2.	1800.
62	RR-2 0630-0640	< .005	< .2	< 2.	< 2.	12.	28.	160.	< 2.	2850.
63	RR-2 0640-0650	< .005	< .2	< 2.	< 2.	12.	12.	75.	< 2.	1250.
64	RR-2 0650-0660	< .005	< .2	< 2.	< 2.	8.	10.	70.	< 2.	2200.
65	RR-2 0660-0670	< .005	< .2	< 2.	< 2.	8.	10.	70.	< 2.	1150.
66	RR-2 0670-0680	< .005	< .2	< 2.	< 2.	10.	26.	90.	< 2.	1400.
67	RR-2 0680-0690	< .005	< .2	< 2.	< 2.	10.	2.	20.	2.	260.
68	RR-2 0690-0700	< .005	< .2	< 2.	< 2.	30.	12.	190.	2.	2550.
69	RR-2 0700-0710	< .005	< .2	< 2.	< 2.	40.	26.	185.	< 2.	1750.
70	RR-2 0710-0720	< .005	< .2	< 2.	< 2.	26.	30.	150.	< 2.	1150.
71	RR-2 0720-0730	< .005	< .2	< 2.	< 2.	32.	30.	185.	2.	3450.
72	RR-2 0730-0740	< .005	< .2	< 2.	< 2.	38.	28.	220.	< 2.	1450.
73	RR-2 0740-0750	< .005	< .2	< 2.	< 2.	32.	42.	200.	4.	910.
74	RR-2 0750-0760	< .005	< .2	< 2.	< 2.	20.	18.	320.	4.	5750.
75	RR-2 0760-0770	< .005	.2	2.	< 2.	30.	42.	275.	4.	2150.

Charles E. Thompson

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE079
August 30, 1994
PROJECT NO.: 3102
RR-2 (0020-1000)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 98 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
76	RR-2 0770-0780	< .005	< .2	2.	< 2.	20.	40.	260.	4.	3300.
77	RR-2 0780-0790	< .005	.2	< 2.	< 2.	26.	28.	160.	4.	730.
78	RR-2 0790-0800	< .005	.2	< 2.	< 2.	42.	18.	175.	4.	920.
79	RR-2 0800-0810	< .005	.3	< 2.	< 2.	42.	26.	245.	2.	2350.
80	RR-2 0810-0820	< .005	< .2	< 2.	< 2.	42.	16.	230.	2.	2850.
81	RR-2 0820-0830	.005	.2	< 2.	< 2.	28.	22.	160.	4.	1250.
82	RR-2 0830-0840	< .005	< .2	< 2.	< 2.	18.	10.	95.	< 2.	800.
83	RR-2 0840-0850	< .005	< .2	< 2.	< 2.	20.	10.	115.	2.	750.
84	RR-2 0850-0860	< .005	.2	2.	< 2.	22.	16.	135.	2.	800.
85	RR-2 0860-0870	< .005	.3	2.	< 2.	30.	16.	135.	2.	900.
86	RR-2 0870-0880	< .005	.3	2.	< 2.	22.	40.	115.	2.	600.
87	RR-2 0880-0890	< .005	.2	< 2.	< 2.	16.	55.	110.	6.	700.
88	RR-2 0890-0900	< .005	.2	< 2.	< 2.	16.	42.	90.	12.	480.
89	RR-2 0900-0910	< .005	< .2	< 2.	< 2.	10.	36.	48.	4.	560.
90	RR-2 0910-0920	< .005	.2	< 2.	< 2.	10.	20.	16.	4.	210.
91	RR-2 0920-0930	< .005	.3	< 2.	< 2.	18.	65.	115.	6.	1300.
92	RR-2 0930-0940	< .005	.3	< 2.	< 2.	16.	55.	105.	14.	1300.
93	RR-2 0940-0950	< .005	.3	< 2.	< 2.	18.	32.	55.	4.	610.
94	RR-2 0950-0960	< .005	< .2	< 2.	< 2.	16.	32.	75.	6.	860.
95	RR-2 0960-0970	< .005	< .2	< 2.	< 2.	26.	20.	65.	4.	790.

Charles E. Thompson

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE079
August 30, 1994
PROJECT NO.: 3102
RR-2 (0020-1000)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 98 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
96	RR-2 0970-0980	< .005	.5	< 2.	< 2.	30.	48.	235.	2.	800.
97	RR-2 0980-0990	< .005	.2	< 2.	< 2.	16.	26.	50.	4.	650.
98	RR-2 0990-1000	< .005	.2	< 2.	< 2.	16.	36.	48.	4.	770.

*NOTE: Method of analysis by combination fire assay and atomic absorption.

William L. Lehmbeck
Manager

8/30/94

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin

Drill Hole: RR-3
Collar Elev: 4275ft
TD: 700ft

ROBBERS' ROOST, AZ

Drilling Co: Boyles
Start: 8-16-94
Finish: 8-22-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~160'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
0	Uncle Sam Volc	sericite, pyrite, & clay oxidized	Clay Lim Ser	P	Fe-ox stained (limonite>hematite) from oxidized pyrite pyrite throuthout the oxidized zone, with abundant clay resulting from						
10	Uncle Sam Volc		Clay Lim Ser	P	primary alteration and later leaching of the Uncle Sam Volcanics.						
20	Uncle Sam Volc		Clay Lim Ser	P		5	0.1	30	4	10	16
30	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	10	<2	12	38
40	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	16	2	20	75
50	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	10	2	12	26
60	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	10	<2	20	22
70	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	10	<2	12	50
80	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	8	<2	18	26
90	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	8	<2	6	48
100	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	10	<2	8	42
110	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	12	<2	12	40
120	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	10	<2	10	8
130	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	8	<2	18	8
140	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	8	2	2	10
150	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	8	<2	6	10
160	Uncle Sam Volc		Clay Lim Ser	P	▼ Water Table						
170	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	6	<2	2	8
180	Uncle Sam Volc & Bisbee?		Clay Hem Ser	P	Zone of extensive hematite staining & possbile fragments of Bisbee group - suggest presence of fault.	<5	<.1	6	<2	<2	8
190	Uncle Sam Volc & Bisbee?		Clay Hem Ser	P		<5	<.1	8	<2	6	10
200	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	12	<2	<2	18

Prev.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 _____N _____E (utm) Logged By: James B. Nelson

BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-3
Collar Elev: 4275ft
TD: 700ft

Drilling Co: Boyles
Start: 8-16-94
Finish: 8-22-94
Method: Reverse Circ
Hole Diam: 5'
Water Table: ~160'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
200	Uncle Sam Volc & Bisbee?	sericite, pyrite, & clay; oxidized	Clay Lim Ser	P		<5	<.1	10	<2	6	26
210	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	12	<2	12	40
220	Uncle Sam Volc		Clay Lim Ser	P		<5	0.1	8	<2	6	26
230	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	6	4	6	20
240	Uncle Sam Volc		Glay Lim Ser	P		<5	1.0	6	2	6	22
250	Uncle Sam Volc		Clay, Ser & Hem Mn-ox	P Tr		<5	<.1	6	4	2	16
260	Uncle Sam Volc		Clay, Ser & Hem Mn-ox	P Tr	Significant increase in hematite staining	<5	<.1	6	2	6	8
270	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	16	<2	6	20
280	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	26	<2	10	30
290	Uncle Sam Volc		Clay Lim Ser	P		<5	0.1	12	<2	16	50
300	Uncle Sam Volc		Clay Lim Ser	P		<5	<.1	12	<2	12	50
310	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.1	10	<2	12	55
320	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	<.1	8	<2	10	50
330	Uncle Sam Volc	Epidote	Clay/Ser Pyrite Epidote	M/P 1-3% Tr		<5	<.1	8	<2	12	42
340	Uncle Sam Volc		Clay/Ser Pyrite Epidote	M/P 1-3% 5%		<5	<.1	8	<2	12	60
350	Uncle Sam Volc		Clay/Ser Pyrite Epidote	M/P 1-3% 5%		<5	<.1	12	<2	20	100
360	Uncle Sam Volc & And Dk		Clay/Ser Pyrite Epidote	M/P 1-3% 8%		<5	<.1	30	2	12	115
370	Breccia Volc & Bisbee		Clay/Ser Pyrite Epidote	M/P 1-3% Tr		<5	<.1	30	2	12	12
380	Breccia Volc & Bisbee		Clay/Ser Pyrite Epidote	M/P 1-3% Tr		<5	<.1	20	2	22	46
390	Breccia Volc & Bisbee		Clay/Ser Pyrite Epidote	M/P 1-3% Tr		<5	<.1	16	<2	46	150

Abrev. % - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 _____N _____E (utm) Logged By: James B. Nelson

BHP

ROBBERS' ROOST, AZ

Drill Hole: RR-3
Collar Elev: 4275ft
TD: 700ft

Drilling Co: Boyles
Start: 8-16-94
Finish: 8-22-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~160'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
400	Breccia Uncle Sam Volc		Clay Ser Pyrite	M P 3-5%		<5	0.3	30	<2	20	32
410	Breccia Uncle Sam Volc		Clay Ser Pyrite	M P 3-5%		<5	0.1	16	<2	14	34
420	Breccia Uncle Sam Volc		Clay Ser Pyrite	M P 2-4%		<5	0.3	12	2	16	38
430	Breccia Volc & Bisbee		Clay Ser Pyrite	M P 3-5%		<5	0.3	12	<2	10	48
440	Breccia Bisbee		Clay Ser Pyrite	M P 1-3%		<5	0.1	10	<2	10	42
450	Breccia Bisbee		Clay Ser Pyrite	M P 1-3%		<5	0.1	10	<2	10	50
460	Breccia Bisbee		Clay Ser Pyrite	M P 1-3%		<5	0.1	8	<2	8	50
470	Breccia Bisbee		Clay Ser Pyrite	M P 2-4%		<5	0.3	8	<2	10	70
480	Uncle Sam Volc		Clay Ser Pyrite	M P 1-2%	Unoxidized Uncle Sam Volcanics with approx 1-3% disseminated pyrite, with anomalous Ag correlating to the presence of epidote	<5	0.1	8	<2	16	55
490	Uncle Sam Volc		Clay Ser Pyrite	M P 1-2%		<5	0.3	8	<2	10	55
500	Uncle Sam Volc		Clay Ser Pyrite	M P 1-2%		<5	0.4	8	<2	16	60
510	Uncle Sam Volc		Clay/Ser Epidote Pyrite	M/P Tr. 1-3%		<5	0.3	8	<2	20	65
520	Uncle Sam Volc		Clay/Ser Epidote Pyrite	M/P Tr 1-3%		<5	0.4	8	<2	10	46
530	Uncle Sam Volc		Clay/Ser Epidote Pyrite	M/P 1% 1-3%		<5	0.4	6	2	8	32
540	Uncle Sam Volc		Clay/Ser Epidote Pyrite	M/P 3% 1-3%		<5	0.3	6	<2	10	46
550	Uncle Sam Volc		Clay/Ser Epidote Pyrite	M/P 2% 1-3%		<5	0.3	6	2	8	40
560	Uncle Sam Volc		Clay/Ser Epidote Pyrite	M/P Tr 1-3%		<5	0.4	6	2	8	32
570	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.3	6	4	8	36
580	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.4	6	2	16	55
590	Uncle Sam Volc		Clay/Ser Fe-Oxide Pyrite	M/P Tr 1-3%		<5	0.3	6	<2	12	60
600											

Prev. % - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

ROBBERS' ROOST, AZ

Drill Hole: RR-3
Collar Elev: 4275ft
TD: 700ft

Drilling Co: Boyles
Start: 8-16-94
Finish: 8-22-94
Method: Reverse Circ
Hole Diam: 5"
Water Table: ~160'

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
600	Uncle Sam Volc	sericite, pyrite, & clay	Clay Ser Pyrite	M M 1-3%		<5	0.3	8	<2	12	55
610	Uncle Sam Volc		Clay Ser Pyrite	M M 1-3%		<5	0.1	12	2	26	65
620	Uncle Sam Volc		Clay Ser Pyrite	M M 1-2%		<5	0.4	16	< 2	22	50
630	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.5	12	<2	20	60
640	Uncle Sam Volc		Clay Ser Pyrite	M M 1-2%		<5	0.3	10	2	12	48
650	Uncle Sam Volc		Clay Ser Pyrite	M M 1-3%		<5	0.3	10	4	10	30
660	Uncle Sam Volc		Clay Ser Pyrite	M P 1-3%		<5	0.2	26	2	10	60
670	Uncle Sam Volc And Por		Epidote Pyrite	Tr Tr		<5	0.4	40	<2	8	100
680	Uncle Sam Volc		Epidote Pyrite	12% 1-3%		<5	0.1	10	<2	18	50
690	Uncle Sam Volc		Clay Ser Pyrite	M M Tr	T.D. 700'	<5	0.2	10	<2	18	65
700											

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 _____N _____E (utm) Logged By: James B. Nelson

BHP

1775 W. Saguaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMB[illegible]WIE081
September 7, 1994
PROJECT NO.: 3102
RR-3 (20-700)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 68 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)
1	RR-3 20-30	.005	.1	4.	< 2.	.02	30.	10.	16.	4.
2	RR-3 30-40	< .005	< .1	2.	< 2.	.01	10.	12.	38.	< 2.
3	RR-3 40-50	< .005	< .1	2.	< 2.	.01	16.	20.	75.	2.
4	RR-3 50-60	< .005	< .1	3.	< 2.	.01	10.	12.	26.	2.
5	RR-3 60-70	< .005	< .1	4.	< 2.	.01	10.	20.	22.	< 2.
6	RR-3 70-80	< .005	< .1	2.	< 2.	.01	10.	12.	50.	< 2.
7	RR-3 80-90	< .005	< .1	4.	< 2.	< .01	8.	18.	26.	< 2.
8	RR-3 90-100	< .005	< .1	< 2.	< 2.	< .01	8.	6.	48.	< 2.
9	RR-3 100-110	< .005	< .1	2.	< 2.	< .01	10.	8.	42.	< 2.
10	RR-3 110-120	< .005	< .1	< 2.	< 2.	.01	12.	12.	40.	< 2.
11	RR-3 120-130	< .005	< .1	< 2.	< 2.	.02	10.	10.	8.	< 2.
12	RR-3 130-140	< .005	< .1	< 2.	< 2.	.02	8.	18.	8.	< 2.
13	RR-3 140-150	< .005	< .1	< 2.	< 2.	.01	8.	2.	10.	2.
14	RR-3 150-160	< .005	< .1	2.	< 2.	< .01	8.	6.	10.	< 2.
15	RR-3 160-170	< .005	< .1	< 2.	< 2.	< .01	6.	2.	8.	< 2.
16	RR-3 170-180	< .005	< .1	2.	< 2.	.01	6.	< 2.	8.	< 2.
17	RR-3 180-190	< .005	< .1	2.	< 2.	.02	8.	6.	10.	< 2.
18	RR-3 190-200	< .005	< .1	< 2.	< 2.	.01	12.	< 2.	18.	< 2.
19	RR-3 200-210	< .005	< .1	2.	< 2.	.02	10.	6.	26.	< 2.
20	RR-3 210-220	< .005	< .1	< 2.	< 2.	.01	12.	12.	40.	< 2.
21	RR-3 220-230	< .005	.1	< 2.	< 2.	.02	8.	6.	26.	< 2.
22	RR-3 230-240	< .005	< .1	3.	< 2.	.01	6.	6.	20.	4.
23	RR-3 240-250	< .005	1.0	2.	< 2.	.02	6.	6.	22.	2.
24	RR-3 250-260	< .005	< .1	2.	< 2.	.01	6.	2.	16.	4.
25	RR-3 260-270	< .005	< .1	2.	< 2.	.01	6.	6.	8.	2.

Charles E. Thompson William L. Lehmbeck James A. Martin

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE081
September 7, 1994
PROJECT NO.: 3102
RR-3 (20-700)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 68 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)
26	RR-3 270-280	< .005	< .1	< 2.	< 2.	.03	16.	6.	20.	< 2.
27	RR-3 280-290	< .005	< .1	< 2.	< 2.	.01	26.	10.	30.	< 2.
28	RR-3 290-300	< .005	.1	< 2.	< 2.	.02	12.	16.	50.	< 2.
29	RR-3 300-310	< .005	< .1	< 2.	< 2.	.01	12.	12.	50.	< 2.
30	RR-3 310-320	< .005	< .1	< 2.	< 2.	.01	10.	12.	55.	< 2.
31	RR-3 320-330	< .005	< .1	< 2.	< 2.	< .01	8.	10.	50.	< 2.
32	RR-3 330-340	< .005	< .1	< 2.	< 2.	.01	8.	12.	42.	< 2.
33	RR-3 340-350	< .005	< .1	< 2.	< 2.	.01	8.	12.	60.	< 2.
34	RR-3 350-360	< .005	< .1	< 2.	< 2.	.02	12.	20.	100.	< 2.
35	RR-3 360-370	< .005	< .1	4.	< 2.	.02	30.	12.	115.	2.
36	RR-3 370-380	< .005	< .1	2.	< 2.	.01	30.	12.	12.	2.
37	RR-3 380-390	< .005	< .1	3.	< 2.	.01	20.	22.	46.	2.
38	RR-3 390-400	< .005	< .1	2.	< 2.	< .01	16.	46.	150.	< 2.
39	RR-3 400-410	< .005	.3	2.	< 2.	< .01	30.	20.	32.	< 2.
40	RR-3 410-420	< .005	.1	2.	< 2.	.01	16.	14.	34.	< 2.
41	RR-3 420-430	< .005	.3	3.	< 2.	.01	12.	16.	38.	2.
42	RR-3 430-440	< .005	.3	2.	< 2.	.02	12.	10.	48.	< 2.
43	RR-3 440-450	< .005	.1	2.	< 2.	.02	10.	10.	42.	< 2.
44	RR-3 450-460	< .005	.1	2.	< 2.	.02	10.	10.	50.	< 2.
45	RR-3 460-470	< .005	.1	< 2.	< 2.	.03	8.	8.	50.	< 2.
46	RR-3 470-480	< .005	.3	< 2.	< 2.	.02	8.	10.	70.	< 2.
47	RR-3 480-490	< .005	.1	2.	< 2.	.02	8.	16.	55.	< 2.
48	RR-3 490-500	< .005	.3	2.	< 2.	.01	8.	10.	55.	< 2.
49	RR-3 500-510	< .005	.4	3.	< 2.	.02	8.	16.	60.	< 2.
50	RR-3 510-520	< .005	.3	2.	< 2.	.02	8.	20.	65.	< 2.

Charles L. Thompson William L. Lehmbeck James A. Martin

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER: WIE081
September 7, 1994
PROJECT NO.: 3102
RR-3 (20-700)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 68 Drill Cutting Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Hg (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)
51	RR-3 520-530	< .005	.4	2.	< 2.	.01	8.	10.	46.	< 2.
52	RR-3 530-540	< .005	.4	< 2.	< 2.	.04	6.	8.	32.	2.
53	RR-3 540-550	< .005	.3	< 2.	< 2.	.03	6.	10.	46.	< 2.
54	RR-3 550-560	< .005	.3	< 2.	< 2.	.04	6.	8.	40.	2.
55	RR-3 560-570	< .005	.4	2.	< 2.	.05	6.	8.	32.	2.
56	RR-3 570-580	< .005	.3	2.	< 2.	.05	6.	8.	36.	4.
57	RR-3 580-590	< .005	.4	< 2.	< 2.	.04	6.	16.	55.	2.
58	RR-3 590-600	< .005	.3	< 2.	< 2.	.03	6.	12.	60.	2.
59	RR-3 600-610	< .005	.3	< 2.	< 2.	.02	8.	12.	55.	< 2.
60	RR-3 610-620	< .005	.1	< 2.	< 2.	.01	12.	26.	65.	2.
61	RR-3 620-630	< .005	.4	2.	< 2.	.02	16.	22.	50.	< 2.
62	RR-3 630-640	< .005	.5	3.	< 2.	.02	12.	20.	60.	< 2.
63	RR-3 640-650	< .005	.3	2.	< 2.	.03	10.	12.	48.	2.
64	RR-3 650-660	< .005	.3	2.	< 2.	.02	10.	10.	30.	4.
65	RR-3 660-670	< .005	.2	2.	< 2.	.04	26.	10.	60.	2.
66	RR-3 670-680	< .005	.4	< 2.	< 2.	.03	40.	8.	100.	< 2.
67	RR-3 680-690	< .005	.1	< 2.	< 2.	.04	10.	18.	50.	< 2.
68	RR-3 690-700	< .005	.2	< 2.	< 2.	.02	10.	18.	65.	< 2.

*NOTE: Method of analysis by combination fire assay and atomic absorption.

William L. Lehmbeck
Manager

Charles E. Thomson William L. Lehmbeck James A. Martin

Drill Hole: RR-DDH-02
Collar Elev:
TD: 700'

ROBBERS' ROOST, AZ

Drilling Co:
Start:
Finish:
Method:
Hole Diam:
Water Table:

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au	Ag	Cu	Mo	Pb	Zn
	Volc					<	0.3	165	18	16	38
						<	0.5	170	10	48	48
						<	0.5	230	12	12	80
						<	0.3	200	10	66	100
						<	0.5	180	10	8	65
				2-4		<	0.2	225	12	28	110
				2-4		<	0.5	135	14	115	58
				?		<	0.4	100	10	160	20
				2-4		<	0.1	75	8	50	28
100				1-3		<	<	65	12	36	34
				2-4	> CHALCOCITE(?)	<	<	115	10	60	65
				1-3		<	0.1	85	8	26	115
				1-3		<	0.1	115	4	32	145
				2-4		<	0.2	140	12	32	105
				2-4	> TENT. SIDE FOR VNLT W/CPY	<	0.2	140	8	75	100
				3-4		<	0.1	110	10	80	120
				2-4	> LG. OPEN SPACE VUGS	<	0.1	90	14	85	95
				3-5		<	0.2	140	10	32	110
				2-4		<	<	110	8	48	130
200				2-4	OPEN VUGS	<	<	160	20	70	105
				1-3		<	0.3	195	12	80	200
				2-4		<	0.2	105	6	135	110
				1-3		<	0.2	115	18	32	100
				2-4	STOCK WORK	<	0.1	100	16	10	85
			QPS	2-4		<	<	175	10	26	100
				1-3	MOD. STOCK WORK - TR K ALT.	<	<	210	30	16	46
				1-3		<	0.3	130	10	16	48
				2-4	STOCK WORK	<	0.2	140	14	22	50
				2-4	> OPEN SPACE	<	0.3	205	32	30	75
300				1-3		<	0.2	190	34	42	90
				1-3		<	0.1	240	14	6	75
				1-3		<	0.2	205	4	10	65
				1-3		<	0.1	295	8	30	90
				1-3		<	0.2	345	10	18	65
			QPS FML	1-3		<	0.1	390	12	10	70
					STOCK WORK	<	0.3	460	14	10	60
						15	0.3	295	14	40	70
						15	0.3	395	10	16	75
400	Volc				- VNLT W/CPY FMS2 (396.5)	10	<	230	20	8	85

Abbrev. % - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T__S R__E S__ _____N _____E (utm) Logged By:

BHP

Drill Hole: RR-DDH-01
Collar Elev:
TD: 700'

ROBBERS' ROOST, AZ

Drilling Co:
Start:
Finish:
Method:
Hole Diam:
Water Table:

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au	Ag	Cu	Mo	Pb	Zn
400						<	<	215	20	60	100
						5	0.1	270	16	18	105
						<	<	255	22	8	65
						<	<	210	14	28	80
						<	<	130	40	30	40
						5	<	275	14	8	60
						<	<	175	16	205	55
						<	0.3	265	32	105	75
						10	<	170	26	180	95
						10	0.1	245	34	55	95
500						10	0.3	230	24	95	90
						10	0.3	270	42	42	70
						5	0.1	285	22	28	100
						15	0.5	290	42	48	85
						10	0.4	245	12	32	115
						10	0.4	230	16	32	85
						5	0.5	280	16	80	80
						5	0.4	480	14	26	105
						10	<	415	24	26	130
						10	<	400	24	20	120
						10	<	465	36	12	110
						15	<	470	14	20	110
						10	<	350	24	30	100
						10	0.1	360	26	30	92
						5	<	275	30	12	120
						10	0.1	230	20	2	100
						10	<	380	50	8	85
						<	<	280	30	8	26
						10	<	275	36	8	60
700						5	0.3	300	85	8	75

Prev.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T__S R__E S__ _____N _____E (utm) Logged By:

BHP

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE090
October 21, 1994
PROJECT NO.: 3102
RR-DDH-1 (010-368)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 36 Drill Core Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
1	RR-DDH-1 010-020	< .005	.3	3.	< 2.	165.	16.	38.	18.	580.
2	RR-DDH-1 020-030	< .005	.5	3.	< 2.	170.	48.	48.	10.	390.
3	RR-DDH-1 030-040	.005	.5	< 2.	< 2.	230.	12.	80.	12.	450.
4	RR-DDH-1 040-050	.005	.3	2.	< 2.	200.	60.	100.	10.	620.
5	RR-DDH-1 050-060	< .005	.5	< 2.	< 2.	180.	8.	65.	10.	480.
6	RR-DDH-1 060-070	< .005	.3	< 2.	< 2.	225.	28.	110.	12.	450.
7	RR-DDH-1 070-080	< .005	.5	< 2.	< 2.	135.	115.	38.	14.	490.
8	RR-DDH-1 080-090	< .005	.4	< 2.	< 2.	100.	160.	20.	10.	380.
9	RR-DDH-1 090-100	< .005	.1	< 2.	< 2.	75.	50.	28.	8.	240.
10	RR-DDH-1 100-110	< .005	< .1	< 2.	< 2.	65.	36.	34.	12.	320.
11	RR-DDH-1 110-120	< .005	< .1	3.	< 2.	115.	60.	65.	10.	260.
12	RR-DDH-1 120-130	< .005	.1	< 2.	< 2.	85.	26.	115.	8.	360.
13	RR-DDH-1 130-140	< .005	.1	< 2.	< 2.	115.	32.	145.	4.	450.
14	RR-DDH-1 140-150	< .005	.2	< 2.	< 2.	140.	32.	105.	12.	380.
15	RR-DDH-1 150-160	< .005	.2	< 2.	< 2.	140.	75.	100.	8.	320.
16	RR-DDH-1 160-170	< .005	.1	< 2.	< 2.	110.	80.	120.	10.	410.
17	RR-DDH-1 170-180	< .005	.1	< 2.	< 2.	90.	85.	95.	14.	280.
18	RR-DDH-1 180-190	< .005	.2	< 2.	< 2.	140.	32.	110.	10.	400.
19	RR-DDH-1 190-200	< .005	< .1	< 2.	< 2.	110.	48.	130.	8.	390.
20	RR-DDH-1 200-210	< .005	< .1	< 2.	< 2.	160.	70.	105.	20.	370.
21	RR-DDH-1 210-220	< .005	.3	< 2.	< 2.	195.	80.	200.	12.	460.
22	RR-DDH-1 220-230	< .005	.2	< 2.	< 2.	105.	135.	110.	6.	420.
23	RR-DDH-1 230-240	< .005	.2	< 2.	< 2.	115.	32.	100.	18.	360.
24	RR-DDH-1 240-250	< .005	.1	< 2.	< 2.	100.	10.	85.	16.	360.
25	RR-DDH-1 250-260	< .005	< .1	< 2.	< 2.	175.	26.	100.	10.	420.

Charles E. Thompson

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin
Arizona Registered Assayer No. 11122

1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE090
October 21, 1994
PROJECT NO.: 3102
RR-DDH-1 (010-368)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 36 Drill Core Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
26	RR-DDH-1 260-270	< .005	< .1	40.	2.	210.	16.	46.	30.	250.
27	RR-DDH-1 270-280	< .005	.3	< 2.	< 2.	130.	16.	48.	10.	310.
28	RR-DDH-1 280-290	< .005	.2	< 2.	< 2.	140.	22.	50.	14.	260.
29	RR-DDH-1 290-300	< .005	.3	< 2.	< 2.	205.	30.	75.	32.	290.
30	RR-DDH-1 300-310	< .005	.2	< 2.	< 2.	190.	42.	90.	34.	300.
31	RR-DDH-1 310-320	< .005	.1	< 2.	< 2.	240.	6.	75.	14.	330.
32	RR-DDH-1 320-330	< .005	.2	< 2.	< 2.	205.	10.	65.	4.	310.
33	RR-DDH-1 330-340	< .005	.1	< 2.	< 2.	295.	30.	90.	8.	380.
34	RR-DDH-1 340-350	< .005	.2	6.	< 2.	345.	18.	65.	10.	380.
35	RR-DDH-1 350-360	< .005	.1	< 2.	< 2.	390.	10.	70.	12.	420.
36	RR-DDH-1 360-368	< .005	.3	< 2.	< 2.	460.	10.	60.	14.	350.

*NOTE: Method of analysis by combination fire assay and atomic absorption.

Charles E. Thompson William L. Lehmbeck James A. Martin

ORTELINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE094
November 1, 1994
RR-DDH-1 (368-700)

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 33 Drill Core Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
1	RR-DDH-1 368-380	.015	.3	< 2.	< 2.	295.	40.	70.	14.	380.
2	RR-DDH-1 380-390	.015	.3	< 2.	< 2.	395.	16.	75.	10.	480.
3	RR-DDH-1 390-400	.010	< .1	< 2.	< 2.	230.	8.	85.	20.	510.
4	RR-DDH-1 400-410	< .005	< .1	< 2.	< 2.	215.	6.	100.	20.	500.
5	RR-DDH-1 410-420	.005	.1	< 2.	< 2.	270.	18.	105.	16.	550.
6	RR-DDH-1 420-430	< .005	< .1	< 2.	< 2.	255.	8.	65.	22.	350.
7	RR-DDH-1 430-440	< .005	< .1	< 2.	< 2.	210.	28.	80.	14.	450.
8	RR-DDH-1 440-450	< .005	< .1	< 2.	< 2.	130.	30.	40.	40.	240.
9	RR-DDH-1 450-460	.005	< .1	< 2.	< 2.	275.	8.	60.	14.	380.
10	RR-DDH-1 460-470	< .005	< .1	< 2.	< 2.	175.	205.	55.	16.	280.
11	RR-DDH-1 470-480	< .005	.3	< 2.	< 2.	265.	105.	75.	32.	330.
12	RR-DDH-1 480-490	.010	< .1	< 2.	< 2.	170.	100.	95.	26.	60.
13	RR-DDH-1 490-500	.010	.1	< 2.	3.	245.	55.	95.	34.	610.
14	RR-DDH-1 500-510	.010	.3	< 2.	< 2.	230.	95.	90.	24.	410.
15	RR-DDH-1 510-520	.010	.3	< 2.	< 2.	270.	42.	70.	42.	330.
16	RR-DDH-1 520-530	.005	.1	< 2.	< 2.	285.	22.	100.	22.	390.
17	RR-DDH-1 530-540	.015	.5	< 2.	< 2.	390.	48.	85.	42.	320.
18	RR-DDH-1 540-550	.010	.4	< 2.	< 2.	245.	32.	115.	12.	340.
19	RR-DDH-1 550-560	.010	.4	< 2.	< 2.	230.	32.	85.	16.	310.
20	RR-DDH-1 560-570	.005	.5	< 2.	< 2.	280.	10.	80.	16.	460.
21	RR-DDH-1 570-580	.005	.4	< 2.	< 2.	480.	26.	105.	14.	450.
22	RR-DDH-1 580-590	.010	< .1	< 2.	< 2.	415.	26.	130.	24.	420.
23	RR-DDH-1 590-600	.010	< .1	< 2.	< 2.	400.	20.	120.	24.	390.
24	RR-DDH-1 600-610	.010	< .1	< 2.	< 2.	465.	12.	110.	36.	390.
25	RR-DDH-1 610-620	.015	< .1	< 2.	< 2.	470.	20.	110.	14.	330.

Charles E. Thompson William L. Lehmbeck James A. Martin

ORTELINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

BHP MINERALS
Attn: Mr. James B. Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 33 Drill Core Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
26	RR-DDH-1 620-630	.010	< .1	< 2.	< 2.	350.	30.	100.	24.	310.
27	RR-DDH-1 630-640	.010	.1	< 2.	< 2.	360.	30.	42.	26.	150.
28	RR-DDH-1 640-650	.005	< .1	< 2.	< 2.	275.	12.	120.	30.	390.
29	RR-DDH-1 650-660	.010	.1	< 2.	< 2.	230.	2.	100.	20.	370.
30	RR-DDH-1 660-670	.010	< .1	< 2.	< 2.	380.	8.	85.	50.	300.
31	RR-DDH-1 670-680	< .005	< .1	< 2.	< 2.	280.	8.	26.	30.	80.
32	RR-DDH-1 680-690	.010	< .1	< 2.	< 2.	375.	8.	60.	36.	200.
33	RR-DDH-1 690-700	.005	.3	< 2.	< 2.	300.	8.	75.	85.	330.

*NOTE: Method of analysis by combination fire assay and atomic absorption.

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9429

James A. Martin

ROBBERS' ROOST, AZ

Drill Hole: RR-5 (DDH-2)
Collar Elev: 4265ft
TD: 539ft

Drilling Co: Boyles
Start: 10-21-94
Finish: 10-28-94
Method: Reverse Circ
Hole Diam: 5"
Water Table:

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
10	Uncle Sam Volc	sericite, pyrite, & clay oxidized			Abundant clay (primarily mont) resulting from primary alteration and later leaching.						
20	Uncle Sam Volc					<5	<.1	8	2	8	6
30	Uncle Sam Volc					<5	<.1	10	4	6	10
40	Uncle Sam Volc					<5	<.1	10	2	8	10
50	Breccia				Pervasively/entirely altered to clay.	<5	<.1	26	2	12	36
60	Uncle Sam Volc					5	<.1	12	<2	2	16
70	Uncle Sam Volc Breccia					<5	0.1	16	<2	6	22
80	Uncle Sam Volc		Ser/ Clay Pyrite	P 1%		<5	<.1	12	<2	6	16
90	Uncle Sam Volc		Ser/ Clay Pyrite	P 1%		<5	<.1	12	<2	6	18
100	Uncle Sam Volc		Ser/ Clay Pyrite	P 1%	Small quartz veinlet	<5	<.1	10	<2	6	8
110	Uncle Sam Volc		Ser/ Clay Pyrite	P 1%		<5	<.1	12	<2	<2	12
120	Uncle Sam Volc Breccia		Ser/ Clay Pyrite	P Tr		<5	0.1	10	<2	<2	16
130	Uncle Sam Volc		Ser/ Clay Pyrite	P 1-3%		<5	<.1	12	2	2	10
140	Uncle Sam Volc		Ser/ Clay Pyrite	P 1-3%		<5	0.1	12	4	2	20
150	Breccia Uncle Sam Volc		Ser/ Clay Pyrite	P 2-4%	Pervasively/entirely altered to clay.	<5	<.1	12	4	40	6
160	Breccia		Ser/ Clay Pyrite	P 2-4%		<5	0.3	30	4	20	10
170	Uncle Sam Volc		Ser/ Clay Pyrite	M 2-4%		<5	<.1	48	<2	20	26
180	Uncle Sam Volc		Ser/ Clay Pyrite	M 2-4%		<5	<.1	8	2	145	30
190	Uncle Sam Volc Breccia		Ser/ Clay Pyrite	P 2-4%	Small fault zone.	<5	<.1	75	6	115	12
200	Uncle Sam Volc		Ser/ Clay Pyrite	P 2-4%		<5	0.1	110	<2	28	10

rev.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 _____N _____E (utm) Logged By: James B. Nelson

BHP

Drill Hole: RR-5 (DDH-2)
Collar Elev: 4265ft
TD: 539ft

ROBBERS' ROOST, AZ

Drilling Co: Boyles
Start: 10-21-94
Finish: 10-28-94
Method: Reverse Circ
Hole Diam: 5"
Water Table:

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
200	Breccia	oxidized, clay	Ser/ Clay Pyrite	P --	Breccia system w/fragments of Bisbee group sediments - quartzite, siltstone, and limestone, and Uncle Sam volcanics.	<5	0.1	55	2	12	14
210	Uncle Sam Volc	sericite, pyrite,	Ser/Clay Alunite Pyrite	P 1% 1-3%	Limonite and hematite staining from oxidized pyrite throughout.	<5	<.1	42	4	8	10
220	Uncle Sam Volc		Ser/ Clay Pyrite	P 1-3%	Abundant clay (primarily mont) resulting from primary alteration and later leaching.	<5	<.1	80	<2	20	50
230	Breccia		Ser/ Clay Pyrite	P 1-3%		<5	<.1	32	<2	20	16
240	Uncle Sam Volc		Ser/ Clay Pyrite	P 1-3%		<5	0.3	12	<2	22	20
250	Uncle Sam Volc		Ser/ Clay Pyrite	P 2-4%		<5	<.1	16	<2	22	30
260	Uncle Sam Volc		Ser/ Clay Pyrite	P 2-4%		<5	<.1	10	<2	22	22
270	Uncle Sam Volc		Ser/ Clay Pyrite	P 2-4%		<5	<.1	8	<2	8	22
280	Breccia	limonite	Ser/ Clay Pyrite	P 3-5%		10	<.1	10	<2	10	26
290	Breccia		Chlorite Pyrite CuOx	M 3-5% Tr		<5	0.3	12	<2	12	105
300	Andesite Porphyry		Chlorite Pyrite	P Tr		10	0.4	10	<2	10	175
310	Andesite Porphyry		Chlorite Pyrite	P Tr		5	<.1	2	<2	8	95
320	Andesite Porphyry		Chlorite Pyrite	P Tr		10	<.1	8	<2	10	110
330	Andesite Porphyry		Chlorite Pyrite	P Tr		<5	,.1	10	<2	10	110
340	Uncle Sam Volc		Chlorite Pyrite	M 1%		<5	<.1	16	<2	16	85
350	Uncle Sam Volc		Chlorite Pyrite	M 1%		10	<.1	20	<2	20	85
360	Andesite Porphyry		Chlorite Pyrite	M 1%	Small (1') andesite dike	<5	<.1	16	<2	16	85
370	Uncle Sam Volc		Chlorite Pyrite	M 1%		95	0.1	16	2	16	125
380	Uncle Sam Volc		Chlorite Pyrite	M 1%		<5	0.1	8	2	8	70
390	Uncle Sam Volc		Chlorite Pyrite	M 1%		<5	<.1	18	<2	18	85
400	Uncle Sam Volc		Chlorite Pyrite	M 1-2%							

prev.

% - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 _____N _____E (utm) Logged By: James B. Nelson BHP

Drill Hole: RR-5 (DDH-2)
Collar Elev: 4265ft
TD: 539ft

ROBBERS ROOST, AZ

Drilling Co: Boyles
Start: 10-21-94
Finish: 10-28-94
Method: Reverse Circ
Hole Diam: 5"
Water Table:

Interval	Rock Type	Alteration	Mineralogy	% - Intensity		Au ppb	Ag ppm	Cu ppm	Mo ppm	Pb ppm	Zn ppm
400	Uncle Sam Volc	chlorite	Chlorite Pyrite	M	1-3%	Uncle Sam volcanics with moderate chloritic alteration. Large number of Bisbee clasts included in volcanics. A number of void spaces where Bisbee clasts have been removed by alteration.	<5	0.1	10	<2	30	75
410	Uncle Sam Volc		Chlorite Pyrite	M	1-3%		<5	0.1	6	<2	18	55
420	Uncle Sam Volc		Chlorite Pyrite	M	2-4%		5	0.3	8	<2	30	75
430	Uncle Sam Volc		Chlorite Pyrite	M	2-4%		<5	0.1	12	<2	26	46
440	Breccia		Chlorite Pyrite	M	2-4%		<5	0.1	16	<2	18	12
450	Uncle Sam Volc		Chlorite Pyrite	M	1-3%		<5	<.1	10	<2	30	115
460	Uncle Sam Volc		Chlorite Pyrite	M	2-4%		<5	<.1	10	<2	22	70
470	Uncle Sam Volc		Chlorite Pyrite	M	1-3%		<5	<.1	6	<2	20	55
480	Uncle Sam Volc		Chlorite Pyrite	M	1-2%		<5	0.3	8	<2	20	65
490	Uncle Sam Volc		Chlorite Pyrite	M	1-2%		<5	0.1	6	<2	18	50
500	Uncle Sam Volc		Chlorite Pyrite	M	1-2%		<5	<.1	6	<2	16	55
510	Uncle Sam Volc		Chlorite Pyrite	M	1-2%		<5	<.1	6	<2	18	60
520	Uncle Sam Volc		Chlorite Pyrite	M	1-2%		<5	<.1	6	<2	16	60
530	Uncle Sam Volc		Chlorite Pyrite	M	1-2%		<5	<.1	8	<2	28	70
540												
550												
560												
570												
580												
590												
600												

Abrev. % - Intensity: P = Pervasive M = Moderate W = Weak Tr = Trace

Ser - sericite, Pyr - pyrite, Fe-ox - limonite and hematite

T20S R22E S29 _____N _____E (utm) Logged By: James B. Nelson

BHP

ORTELINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE096
November 23, 1994
PROJECT NO.: 3102
RR-DDH-2 (10-539)

BHP MINERALS
Attn: Mr. James Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 53 Drill Core Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
1	RR-DDH-2 10-20	< .005	< .1	3.	< 2.	8.	8.	6.	2.	50.
2	RR-DDH-2 20-30	< .005	< .1	6.	< 2.	10.	6.	10.	4.	110.
3	RR-DDH-2 30-40	< .005	< .1	3.	< 2.	10.	8.	10.	2.	110.
4	RR-DDH-2 40-50	< .005	< .1	4.	< 2.	26.	12.	36.	2.	110.
5	RR-DDH-2 50-60	.005	< .1	< 2.	< 2.	12.	2.	16.	< 2.	330.
6	RR-DDH-2 60-70	< .005	.1	2.	< 2.	16.	6.	22.	< 2.	450.
7	RR-DDH-2 70-80	< .005	< .1	2.	< 2.	12.	6.	16.	< 2.	200.
8	RR-DDH-2 80-90	< .005	< .1	< 2.	< 2.	12.	6.	18.	< 2.	80.
9	RR-DDH-2 90-100	< .005	< .1	3.	< 2.	10.	6.	8.	< 2.	90.
10	RR-DDH-2 100-110	< .005	< .1	2.	< 2.	12.	< 2.	12.	< 2.	250.
11	RR-DDH-2 110-120	< .005	.1	2.	< 2.	10.	< 2.	16.	< 2.	190.
12	RR-DDH-2 120-130	< .005	< .1	2.	< 2.	12.	2.	10.	2.	1100.
13	RR-DDH-2 130-140	< .005	.1	4.	< 2.	12.	2.	20.	4.	1050.
14	RR-DDH-2 140-150	< .005	< .1	< 2.	3.	12.	40.	6.	4.	250.
15	RR-DDH-2 150-160	< .005	.3	< 2.	< 2.	30.	20.	10.	4.	90.
16	RR-DDH-2 160-170	< .005	< .1	2.	< 2.	48.	20.	26.	< 2.	70.
17	RR-DDH-2 170-180	< .005	< .1	< 2.	< 2.	8.	145.	30.	2.	170.
18	RR-DDH-2 180-190	< .005	< .1	2.	2.	75.	115.	12.	6.	30.
19	RR-DDH-2 190-200	< .005	.1	7.	8.	110.	28.	10.	< 2.	30.
20	RR-DDH-2 200-210	< .005	.1	3.	4.	55.	12.	14.	2.	60.
21	RR-DDH-2 210-220	< .005	< .1	3.	< 2.	42.	8.	10.	4.	30.
22	RR-DDH-2 220-230	< .005	< .1	2.	< 2.	80.	20.	50.	< 2.	50.
23	RR-DDH-2 230-240	< .005	< .1	2.	< 2.	32.	20.	16.	< 2.	70.
24	RR-DDH-2 240-250	< .005	.3	2.	< 2.	12.	22.	20.	< 2.	90.
25	RR-DDH-2 250-260	< .005	< .1	3.	< 2.	16.	22.	30.	< 2.	180.

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9435

James A. Martin

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE096
November 23, 1994
PROJECT NO.: 3102
RR-DDH-2 (10-539)

BHP MINERALS
Attn: Mr. James Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 53 Drill Core Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
26	RR-DDH-2 260-270	< .005	< .1	2.	< 2.	10.	22.	22.	< 2.	150.
27	RR-DDH-2 270-280	< .005	< .1	3.	< 2.	8.	8.	22.	< 2.	100.
28	RR-DDH-2 280-290	.010	< .1	2.	< 2.	20.	10.	26.	< 2.	50.
29	RR-DDH-2 290-300	< .005	.3	2.	< 2.	105.	12.	105.	< 2.	30.
30	RR-DDH-2 300-310	.010	.4	2.	< 2.	60.	10.	175.	< 2.	750.
31	RR-DDH-2 310-320	.005	< .1	< 2.	< 2.	42.	2.	95.	< 2.	640.
32	RR-DDH-2 320-330	.010	< .1	< 2.	< 2.	46.	8.	110.	< 2.	570.
33	RR-DDH-2 330-340	< .005	< .1	4.	< 2.	46.	10.	110.	2.	690.
34	RR-DDH-2 340-350	< .005	< .1	2.	< 2.	20.	16.	85.	< 2.	660.
35	RR-DDH-2 350-360	.010	< .1	2.	< 2.	12.	20.	85.	< 2.	720.
36	RR-DDH-2 360-370	< .005	< .1	< 2.	< 2.	8.	16.	85.	< 2.	650.
37	RR-DDH-2 370-380	.095	.1	2.	< 2.	8.	16.	125.	< 2.	630.
38	RR-DDH-2 380-390	< .005	.1	< 2.	< 2.	8.	8.	70.	< 2.	800.
39	RR-DDH-2 390-400	< .005	< .1	< 2.	< 2.	10.	18.	85.	2.	830.
40	RR-DDH-2 400-410	< .005	.1	2.	< 2.	10.	30.	75.	< 2.	710.
41	RR-DDH-2 410-420	< .005	.1	< 2.	< 2.	6.	18.	55.	< 2.	810.
42	RR-DDH-2 420-430	.005	.3	< 2.	< 2.	8.	30.	75.	< 2.	1000.
43	RR-DDH-2 430-440	< .005	.1	< 2.	< 2.	12.	26.	46.	< 2.	210.
44	RR-DDH-2 440-450	< .005	.1	< 2.	< 2.	16.	18.	12.	< 2.	40.
45	RR-DDH-2 450-460	< .005	< .1	2.	< 2.	10.	30.	115.	< 2.	810.
46	RR-DDH-2 460-470	< .005	< .1	< 2.	< 2.	10.	22.	70.	< 2.	940.
47	RR-DDH-2 470-480	< .005	< .1	< 2.	< 2.	6.	20.	55.	< 2.	830.
48	RR-DDH-2 480-490	< .005	.3	< 2.	< 2.	8.	20.	65.	< 2.	850.
49	RR-DDH-2 490-500	< .005	.1	< 2.	< 2.	6.	18.	50.	< 2.	840.
50	RR-DDH-2 500-510	< .005	< .1	< 2.	< 2.	6.	16.	55.	< 2.	840.

Charles E. Thompson
Arizona Registered Assayer No. 9427

William L. Lehmbeck
Arizona Registered Assayer No. 9425

James A. Martin

SKYLINE LABS, INC.
1775 W. Sahuaro Dr. • P.O. Box 50106
Tucson, Arizona 85703

JOB NUMBER WIE096
November 23, 1994
PROJECT NO.: 3102
RR-DDH-2 (10-539)

BHP MINERALS
Attn: Mr. James Nelson
4541 E. Fort Lowell Rd., Ste 221
Tucson, AZ 85712

REPORT OF ANALYSIS

Analysis of 53 Drill Core Samples

ITEM	SAMPLE NO.	FIRE ASSAY Au* (ppm)	Ag (ppm)	As (ppm)	Sb (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Mo (ppm)	Mn (ppm)
51	RR-DDH-2 510-520	< .005	< .1	< 2.	< 2.	6.	18.	60.	< 2.	810.
52	RR-DDH-2 520-530	< .005	< .1	< 2.	< 2.	6.	16.	60.	< 2.	830.
53	RR-DDH-2 530-539	< .005	< .1	< 2.	< 2.	8.	28.	70.	< 2.	1000.

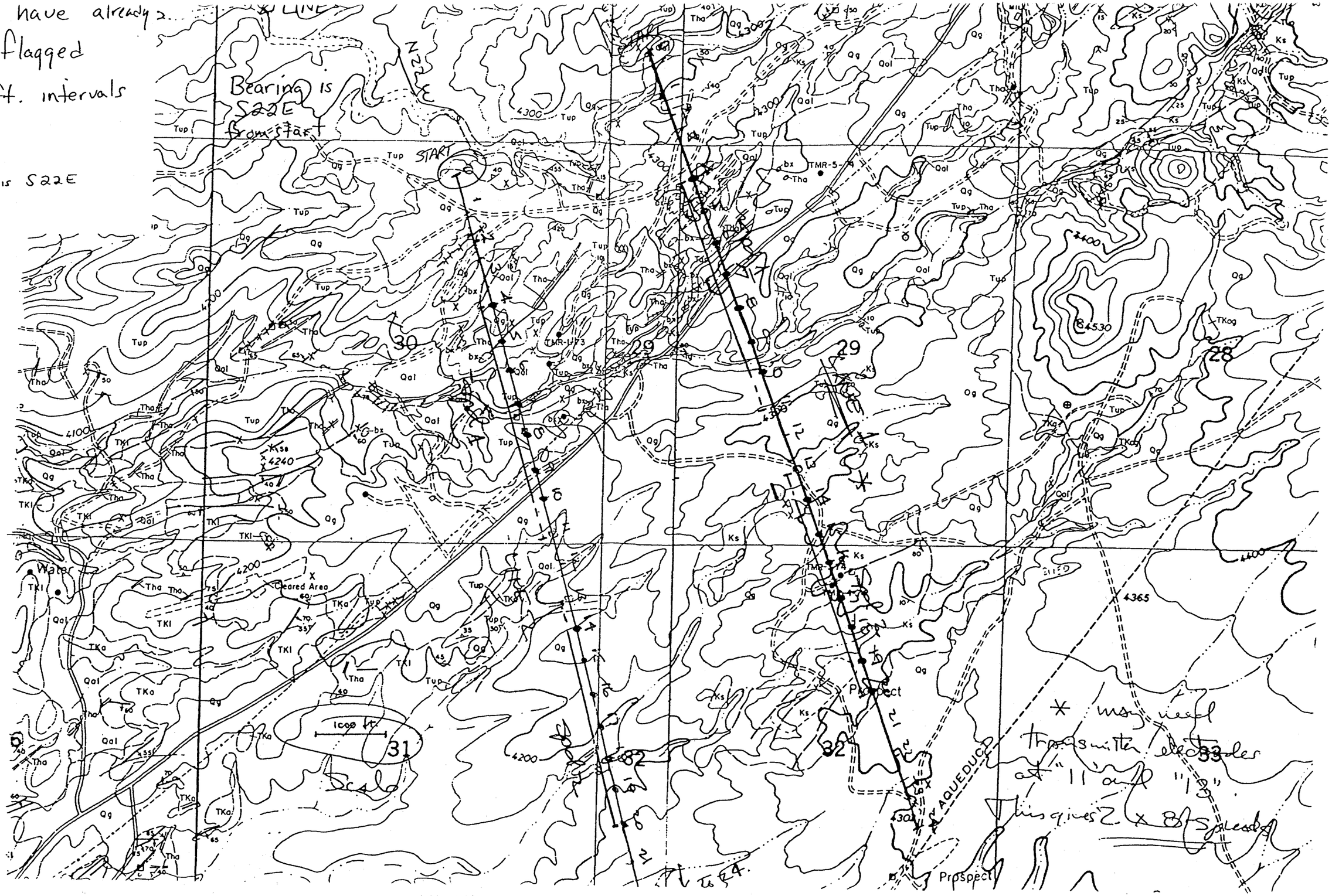
*NOTE: Method of analysis by combination fire assay and atomic absorption.

Charles E. Thompson William L. Lehmbeck James A. Martin

Lines have already been flagged

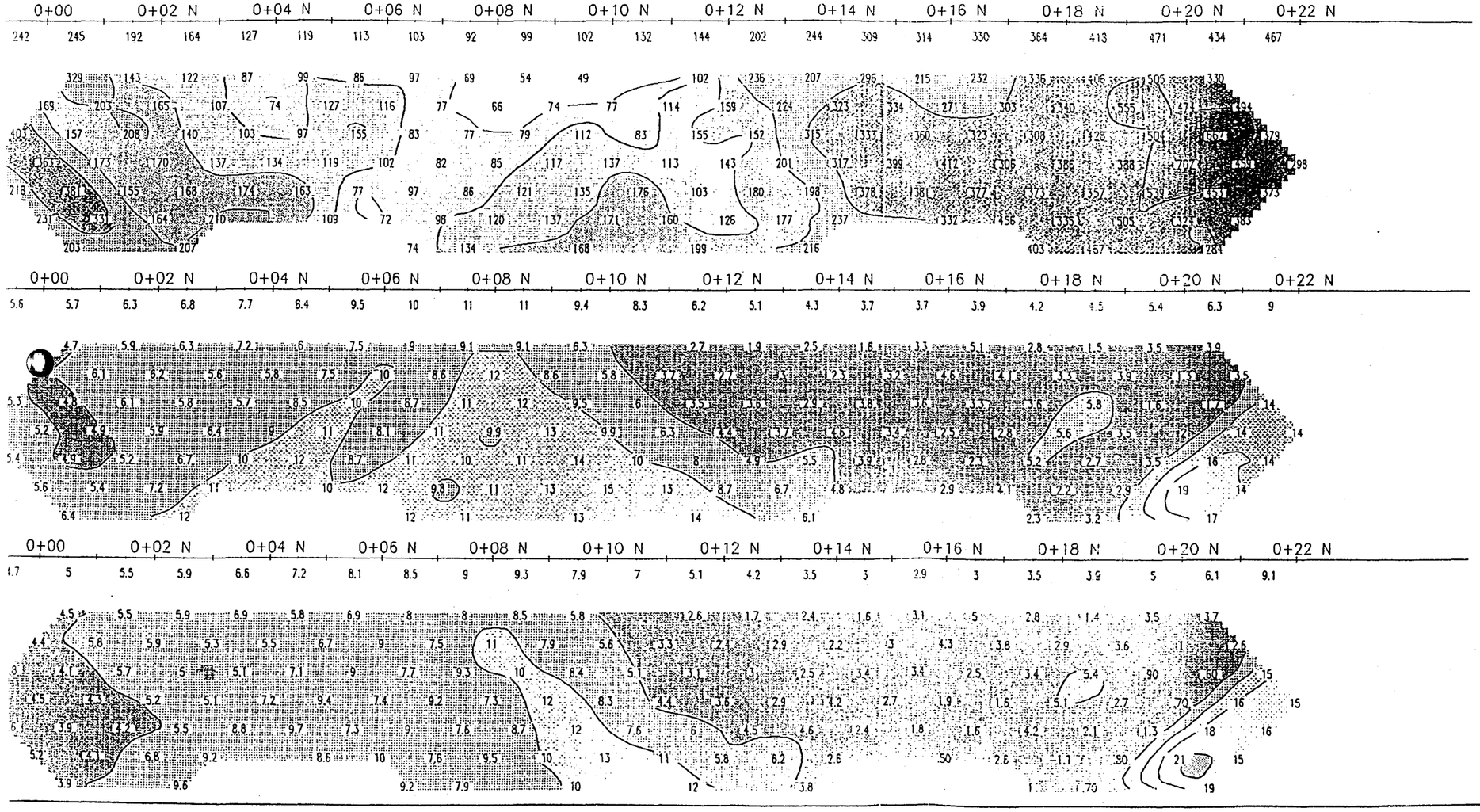
100 ft. intervals

bearing is S22E



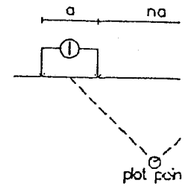
* may need Transmitter electrodes at "11 and "13"

This gives 2 x 8 spreads



Line 1

Dipole-Dipol



Logarithmic Contours 1, 1.5,

Scale 1:1:

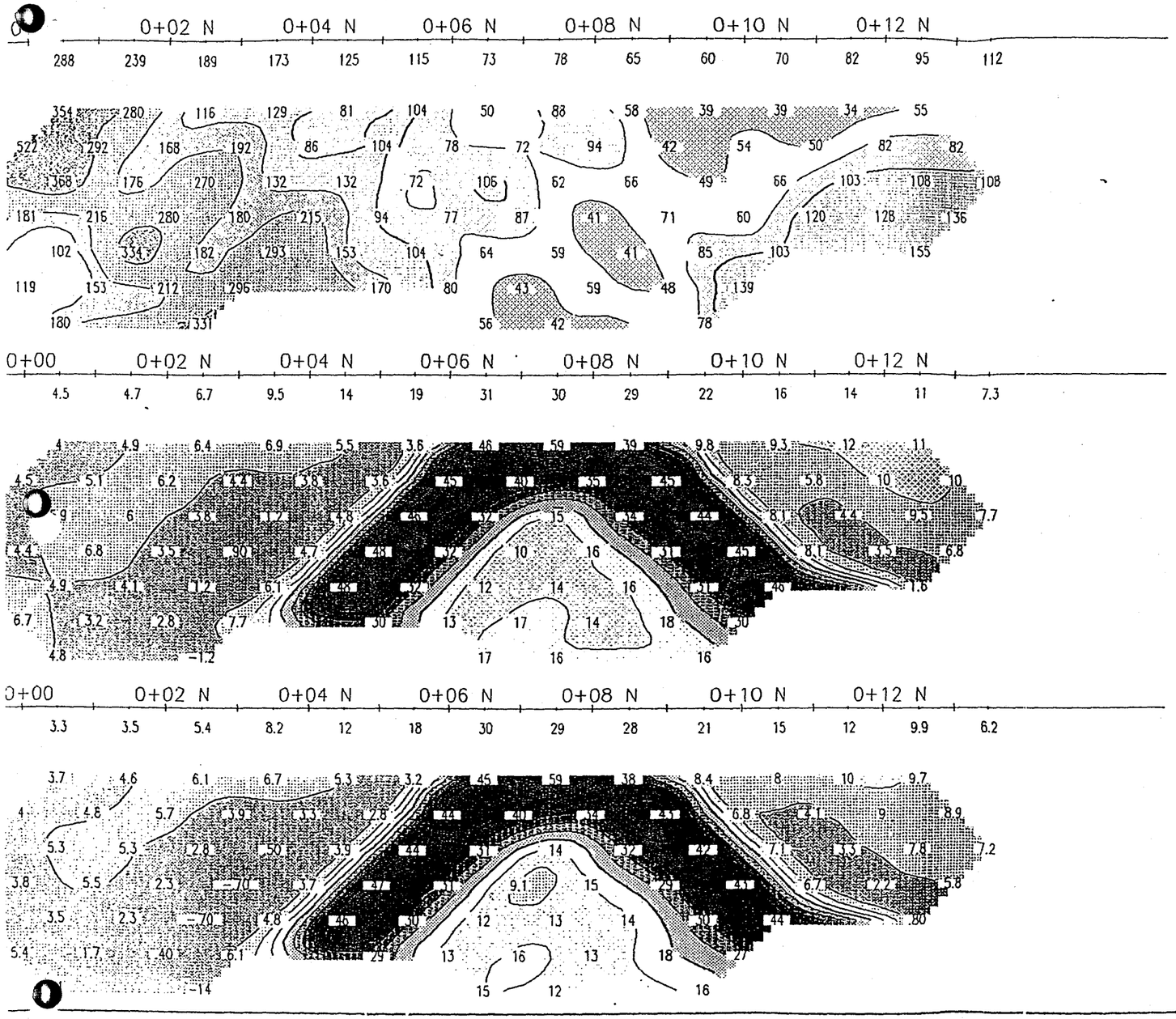
500 0 500
(feet)

BHP Explo

Robbers R
Induced Polarizati

Date: 94/0

Job9465
by Zonge Eng



RESISTIVITY
(ohm-m)

n=1
n=2
n=3
n=4
n=5
n=6
n=7

RAW PHASE
(mr)

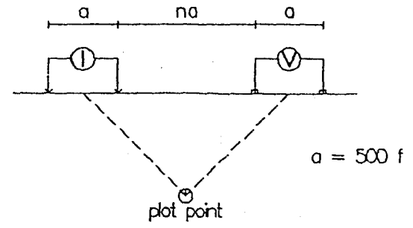
n=1
n=2
n=3
n=4
n=5
n=6
n=7

3-PT DC PHASE
(mr)

n=1
n=2
n=3
n=4
n=5
n=6
n=7

Line 2

Dipole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:12000

500 0 500 1000 1500
(feet)

BHP Exploration

Robbers Roost
Induced Polarization Survey

Date: 94/07/07

Job9465
by Zonge Engineering

INTERNATIONAL
MINERAL
DEVELOPMENT &
EXPLORATION

IMDEX

November 11, 1996

TO: DOUGLAS MacKENZIE: EXCELLON
FROM: PETER MEGAW: IMDEX-CASCABEL
SUBJECT: ROBBER'S ROOST-TOMBSTONE SOUTH DATA PACAKGE

At your request, I have reviewed Harry Downey's package of data accumulated from ASARCO, Kennecott, BHP, JABA, and Harry himself. There is no question that the area is mineralized both by weak Porphyry Copper and strong Pb-Ag-Mn Replacement mineralization. The PCD mineralization, as currently known, is apparently too weak and deep to justify major additional expenditures. It is not clear if the two mineralization styles are temporally and/or genetically related, but it is not unreasonable to hypothesize that they reflect a proximal-distal zonation. If so, skarn mineralization, higher in Zn, Cu and Au than the known replacement mineralization, may exist along the intrusive-sediment contact. This intervening contact zone is covered by alluvium, but is marked by strong lithologic contrasts and geophysical anomalies that have apparently never been tested by drilling.

Based on comparison to the nearby Tombstone District, the replacement mineralization may be a worthwhile target on its own merits. The replacement mineralization at Tombstone South appears to be strongly structurally controlled, and should probably be conceived as leakage from more coherent mineralization at depth. The known replacement mineralization is hosted in thin, relatively unfavorable units compared to the thick section of extremely favorable rocks that lie at unknown depth beneath the area. Replacement mineralization has been encountered in two drill holes and additional drill targets to test vertical and/or lateral continuity could be generated quickly with a minor amount of additional field work and geophysics. At least some of these holes should be deep enough to penetrate to the underlying Paleozoic carbonates.

The presence of high-grade Pb-Ag and weaker Cu mineralization coupled with several undrilled targets strongly indicates that this system is worthy of more work...assuming that Excellon is interested in Pb-Zn-Ag (Cu, Au) type skarn and replacement mineralization. It is likely that exploration will be difficult and that any mineralization found will require underground mining. However, the potential grades typical of Tombstone replacement ores may justify this risk if large orebodies can be found. I recommend, at least, drilling the potential skarn zone before considering abandoning the property.

IMDEX, Inc. P.O. Box 65538, Tucson, AZ 85728 U.S.A. FAX (529) 797-3955 Internet Web Site http://www.imdex.com
Peter K.M. Megaw (520) 529-2231 or pmegaw@imdex.com Carl A. "Tony" Kuehn (520) 797-1618 or ckuehn@imdex.com

The salient features of Harry Downey's data are:

GEOLOGIC DATA:

1. Geologically, the area is composed of the typical Paleozoic-Mesozoic carbonate-pelitic sediment section of southeastern Arizona, cut and covered by a Laramide-Tertiary intrusive-volcanic system. The intrusions lie north of the highway and have been cut in several drill holes. The sediments lie south of the highway and are strongly folded and cut by several exposed and covered structures. The contact between the sediments and the intrusions is not exposed, but is buried under alluvium from the wash that roughly parallels the highway. It is therefore difficult to determine if this contact is a major fault, or a normal intrusive contact (see geophysical discussion below).
2. There is general agreement that a Porphyry Copper System is present. PCD-type mineralized intrusions have been cut in drill holes just north of Robber's Roost, but their grade is low and depth is prohibitive. Exploration for supergene blankets has been unsuccessful.
3. High-grade Pb-Ag-Mn (Zn) mineralization has been encountered in two drill holes on the Downey's Tombstone South property. The mineralization is similar in many respects to historic Tombstone type replacement mineralization except that it is lower in Zn, Au, and Cu than the main Tombstone District. This could be a zoning effect...the abundant Mn suggests that the mineralization is very distal relative to its source. The mineralization appears hosted in lenticular limestones within the Bisbee Group where these rocks have been cut by a major exposed structure. This structure evidently created breccias which acted as conduits for mineralizing fluids that generated massive argentiferous-galena bodies, possibly mantos.
4. It is not known exactly where in the Bisbee Group they are. The limestones of the Bisbee Group, which host important orebodies at Tombstone, pinch out towards the northwest from Tombstone, so it is not clear if they have hit lateral, discontinuous equivalents of the Mural and Joe Limestones or not. The main significance of this is that it is not clear how deep one must drill to encounter the underlying Paleozoic section with its kilometer-plus carbonate thickness that should include several excellent host rocks for replacement mineralization. The folding also exacerbates this problem.

GEOPHYSICAL DATA

1. Harry has several lines of IP, VIP and one CSAMT profile across the property.
2. The IP-VIP shows some anomalies, but the spacing used should not be expected to find a narrow replacement body. The IP data do show a strong line-scale resisitivity-conductivity contrast which probably reflects the contrast between the intrusives and the sediments.

3. The CSAMT line shows a very strong near-surface conductor along the inferred contact between the northern intrusion area and the southern sediments. This coincides with the covered zone along the highway and may reflect skarn, replacement, pyritization, or argillic alteration. BHP permitted a drillpad to test this zone but it was apparently never drilled. The CSAMT anomaly appears to grade into more resistive rocks at depth, which looks unfavorable. However, strong CSAMT conductors have a tendency to mask responses from underlying rocks, so this cannot be taken absolutely as negative evidence. Only drilling will tell what this anomaly means.

RECOMMENDATIONS FOR FURTHER WORK

Should Excellon decide to do additional work on the property, the following should be executed.

1. Drill one or several holes into the contact zone between the intrusion and sediments. This will test the nature of the structure/contact as well as determine the nature of mineralization or alteration along this contact. The BHP pad is probably as good a place to start as any, but a bit more field work to tighten the location of the structure/contact would be worthwhile.
2. It is worth getting an expert on the Bisbee Group in to help with determining stratigraphic depth to the base of the Bisbee.
3. The geophysical data should be reevaluated in light of a skarn-replacemetn target concept rather than the Porphyry Copper model used previously.
4. If the drilling indicates a favorable style of skarn-replacement mineralization along the contact zone, additional CSAMT lines should be run, perhaps with closer spacing to locate the largest drilling targets (8m spacing is the limit of resolution).
5. If CSAMT is run, lines should also be run parallel and perpendicular to the structural trend hosting known mineralization to determine if the known mineralization gives an anomalous response and seek additional conductors along the trend.
6. Strong consideration should be given to a down-the-hole geophysical technique to test continuity of replacement mineralization between the two drill intercepts. This will depend on the ability to reenter the holes.
7. If drilling is done for replacement or skarn mineralization, it should be core drilling to maximize geologic data and sample recovery. Consideration should be given to attempting to wedge off the BHP RC hole that cut galena to get a good picture of what they actually hit. There is good reason to believe that the samples for this hole were juggled and misplaced.

Respectfully Submitted

Peter Megaw

SERIALS - USGS - OPEN FILE REPORTS

SHARPLESS, Susan, et al	A Compilation of Ages of Mineralization of Metallic Mineral Deposits in the Western Conterminous Cordillera as determined through 1985.	1987 2 microfiche	OFR 87-165
SIDERS, Mary A., et al	Geologic Map of the Newcastle Quadrangle, Iron County, Utah.	1989 12 pgs. 1 map	OFR 89-449
STEIN, Holly J., et al	Field Trip Guide for the West Tintic Mining District, Western Utah.	1988 12 pgs.	OFR 88-0558
STONE, Paul & Michael M. Kelly	Preliminary Geologic Map of the Palen Pass Quadrangle, Riverside County, California.	1988 1 map	OFR 88-503
TARANIK, James V. & Charles M. Trautwein	Integration of Geological Remote-Sensing Techniques in Subsurface Analysis.	May 1976 60 pgs.	OFR 76-402
THEOBALD, Paul K., et al	Summary of a Workshop on the Search for Unconventional Ore Deposits in Arizona.	1987 16 pgs.	OFR 87-498
THORMAN, C.H., et al	Field Guide, Roadlog, and comments on the Geology from Wendover, Utah, to Wells, Nevada.	1987 42 pgs.	OFR 87-0493
TOOKER, Edwin W.	Preliminary Geologic Maps, Cross Sections, and Explanation Pamphlet for the Ophir and Mercur 7-1/2 - minute quadrangles, Utah.	1987 18 pgs. map	OFR 87-152
TOOKER, Edwin W. & Ralph J. Roberts	Preliminary Geologic Map, Cross-sections, and Explanation Pamphlet for the Bingham Canyon 7 1/2 Minute Quadrangle, Salt Lake and Tooele Counties, Utah.	1988 33 pgs. 2 maps	OFR 88-699
TOSDAL, Richard M. & David B. Smith	Gneiss-hosted Kyanite Gold and Gneiss-hosted Epithermal Gold: A Supplement to U.S. Geological Survey Bulletin 1693.	1987 8 pgs.	OFR 87-272 b

STATES - NEW MEXICO

McLEMORE, Virginia T. & Mark R. Bowie, compilers	Guidebook to the Socorro area, New Mexico.	1987 81 pgs.	B/21
SMITH, Frank C.	Geology, Mineralization, and Exploration Potential of the McGhee Peak Area, San Simon Mining District, Hidalgo County, New Mexico.	1987 MS 176 pgs.	THESES SMITH FC
WOODWARD, Lee A.	Geology and mineral resources of Sierra Nacimiento and vicinity, New Mexico.	1987 85 pgs. 1 map.	J/5 42

GEOLOGIC LOG

PROJECT TOMBSTONE SOUTH

PROJECT TS — HOLE NO. TS-1
Collar elev. — Final depth 598
Coord N. — Coord E.
Inclination -59° N77W — Page 1 of 3
Logged by H. DOWNEY
Date start 4/30/91 — Date finish 5/8/91

NOTE: % RQD = PERCENTAGE OF CORE > 5" LENGTH IN RUN (2X 2½" DIA.)

DEPTH from	DEPTH to	int'v	% CORE RECOV.	Split	ALL ASSAY in ppm Au	Ag	Cu	Pb	Zn	Mn	ppm Mo	ORE MINERALS (MANGANESE GENERA)	GANGUE (%) QUARTZ-VEIN	QUARTZ-SILI.	CALCITE DISS.	CALCITE VEIN	GOETHITE	JAROSITE	RED HEMATITE	ALUNITE	GANGUE MINERALS	STRUCTURE % RQD	FAULTS	FAULTS/FT	ROCK TYPE and REMARKS
0	2	2																							OVERBURDEN
2	5	3	20									TR			.5							0			2–20 LIMESTONE ↑ SILTY - Dark maroon to dark gray - calcite (later) coating fractures, white calcite stringers - Favorable garnite coatings @ 16', Core is quite crushed and broken.
5	10	5	30									TR			.5							0			
10	15		90									TR			.5							0			
15	20		100									TR			.5							0.			
20	25											0.1			1										20 – 50.5? - Becomes less calcareous 20' – 50' (calcareous siltstone) Dendritic manganese coating calcite stringers Limestone effect may be due to secondary calcite flooding (Stabling).
25	30											0.1			1										
30	35											0.2			1										
35	40											0.2			2										
40	45										Mo	0.2			2	TR						20		BARN	
45	50			45-50	.004	<.2	6	14	40	<2		0.2			2							0		BARN	
50	55			50-52	.004	<.2	26	10	36	<2		0.2			2	TR						30	2@52	7	50.5 – 52 LIMESTONE - Pale green - top contact irregular 30°-45° - bottom is small slip (2" crushed)
55	60			52-55	.002	<.2	12	16	65	<2		0.2			2				TR			10		2	
60	65											0.3			2							10		3	
65	70											0.3			2							40		2	52 – 93 CALCAREOUS SILTSTONE - Dark maroon - calcite veining 30° to core axis predominant.
70	75											0.1			2							10		2	
75	80											TR			2							20		2	
80	85											TR			2							50		1	
85	90			85-90	<.002	<.2	8	16	44	<2		TR			5							20	86-90	3	gauge & broken - abundant calcite veining
90	95			90-95	.002	<.2	8	14	42	<2		TR			5							0		5	93 – 101 Rock typically spotted below 85° with irregular rounded blebs to ¼" dia., calcite veining
95	100			95-100	.002	<.2	16	12	38	<2		TR			2							10		3	
100	105			100-105	.004	<.2	34	12	55	<2		TR			2							10		3	101 – 103 CONGLOMERITIC LIMESTONE - Poorly sorted, rounded pebbles & cobbles of siltstone, purple, calcareous limestone in carbonate matrix. A few fragments of black siltstone.
105	110											0.1			2							20		2	
110	115											0.1			2							40		2	
115	120										NM Mo	TR			2							40		2	
120	125											0.1			2			2				10		2	103 – 121 LIMESTONE - Pale green - similar to 50.5'-52 Massive with a few calcite veinlets. Massive fractures concealed. "Blue"?
125	130			125-130	.002	.10	4	44	10	510	<2	0.1			2							10	1 1/2" @ 60°	1	
130	135			130-135	<.002	.40	18	22	14	2,350	2	0.1			2							60		2	
135	140											0.1			3							20		2	
140	145														3							20		2	CALCAREOUS SILTSTONE - Similar to above unit. Spotted texture
145	150														3							30		1	
150	155														3							70		1	
155	160														3							10		3	121 – 135 SHALY MUDSTONE - Pale green - laminae @ 70° to axis, Orange/red hematite coating fracture and filling seams
160	165														3							10		3	
165	170														3							10		3	
170	175														3							10		3	
175	180														5							20		1	135 – 216 CALCAREOUS SHALY SILTSTONE - Maroon to purple, spotted with calcite blebs and inclusions to 1" diameter
180	185														5							60		1	
185	190														5							70		1	
190	195														5							70		1	
195	200														5							70		1	
200	205														5							70		1	
205	210														5							70		1	

mn 2593 dm

GEOLOGIC LOG

PROJECT TOMBSTONE SOUTH

PROJECT T.S. HOLE NO. TS-1
Collar Elev. Final depth
Coord N. Coord E.
Inclination Page 2 of 3
Logged by H. DOWNEY
Date start Date finish

DEPTH from	to	int	% CORE RECOV.	SPLIT	Au	Ag	Cu	Pb	Zn	Mn	Mo (PPM)	MANGANESE (GENERAL)	QUARTZ VEIN	QUARTZ SILIC.	CALCITE DISS. VEIN	GOETHITE	JAROSITE	RED HEMATITE	ALUNITE	FLUORITE	PYRITE (D)	% RQD	FAULTS	FRACS/FT
210	215	5	100	210								0.1			5							20		2
215	220														5			1	Tr			30		1
220	225														7			2	Tr			20		3
225	230														7			2	2			10		3
230	235														7			2				60		1
235	240														10			3				60		1
240	245				.002	.15	26	18	570		<2				5			1				10		2
245	250				.002	.20	50	14	800		<2				5	3	5	5				10	245.5-247	3
250	255				.002 .008	.15 .20	44 55	16 20	1,000 650	 3350	<2 <2	3			1	3	5	5				10		>5
255	260			EVERY	.006 .004	.80 .40	46 14	34 34	800 335	3400 1,830	<2 <2	4			1	3	5	5				5	BRECCIA	
260	265			2.5'	.016 .020	2.40 26.00	44 190	165 1150	1,100 2150	11,000 56,500	<2 100	5			1	3	5	5				5	(STRUCTURAL)	
265	270				.036 .022	22.00 4.40	140 28	1400 155	1700 1100	32,500 19,500	80 12	10			1	3	5	5				5		
270	275				.020 .018	.180 .180	19 12	180 55	440 255	6,050 3,700	4 <2	7			1	3	5	5				0		
275	280				.022	.160	12	16	275	2,600	<2	7			1	3	5	5				0		
280	285			280-285	.066	.160	10	18	290	4,250	<2	7			1	3	5	5				10		
285	290			285-290	.018	1.10	14	50	265	4,750	<2	7			1	3	5	5				10		
290	295			290-295	.016	1.00	14	48	290	3,700	<2	5			1	3	5	5				0		
295	300			295-300	.028	.90	18	32	405	9,200	<2	5			1	3	3	3				0		
300	305			300-305	.008	6.30	8	95	650	4,150	2	5			1	1	1	1				10		
305	310			305-310	.010	6.50	12	110	780	8,250	<2	5			1	1	1	1				0		
310	315			310-315	.014	6.50	10	80	570	11,500	<2	5			1	1	1	1				10		
315	320			315-320	.020	7.70	18	100	790	8,950	<2	5			1	1	1	1				10		
320	325			320-325	.022	3.20	14	60	210	4,100	<2	3			1	1	1	1				0		
325	330			325-330	.022	15.00	40	340	510	5,550	16	5			1	1	1	1				0		
330	335			330-335	.026	12.00	80	430	610	7,800	22	5			1	1	1	1				10		4
335	340			335-340	.034	8.20	55	405	200	5,550	4	5	1		1	1	1	1				0		5
340	345			340-345	.012	23.00	50	220	600	13,500	4	5	1		1	2	2	2				0		5
345	350			345-350	.044	12.00	60	255	540	11,000	2	7	1		1	2	3	3				20		3
350	355			350-355	.010	6.90	32	680	440	6,250	2	5	1		1	2	3	5				40		
355	360			355-357.5 357.5-360	.006 .006	7.50 33.00	10 38	280 400	180 770	280 28,500	<2 14	10	1			1	1	5				80		
360	365			360-365	.006	5.70	38	230	280	4,400	8	20	2			1		5				50		
365	370			365-370	.028	3.70	28	95	200	660	<2	3	2			1		5				30		
370	375			370-375	.026	3.10	40	90	220	290	<2	3	2		1			3				20		
375	380			375-380	.006	2.60	60	24	245	200	<2	3	2				1	3				30		
380	385			380-385	.008	4.50	30	110	130	470	22	3	2				2	3				10		
385	390		1½' LATCH	385-390	.012	29.00	50	730	85	3,000	4	5	3			1	1	1				0	FAULT?	
390	395		20%/100	390-395	.008	430	820	4200	1750	45,000	4	10	3			1	1	1		1		0		
395	400			395-400	.030	210	1,300	21,500*	920	53,000	14	15	3			1		1		1		WATER TABLE ?		
400	405			400-405	.022	2,100	155	1,900	210	380	145	10	3			1		1		1		10		
405	410			405-410	.110	175	170	2,800	165	1,200	24	10	3			1		1				10		
410	415			410-415	.090	165	1,250	21,500	760	41,500	185	10	3			1		1				0		
415	420			415-420	.010	7.20	75	960	180	1,580	120	5	3			1		1				0		
420	425			420-425	.006	23.00	44	495	75	350	28	5	3			1		1				0		

ROCK TYPE and REMARKS:

216-236 BRECCIATED CALCAREOUS SILTSTONE - Fragments of unit above in similar matrix. There is a general increase in calcite blebs. Hematite coatings on fractures. Alunite? blebs 226-228.

236-254 CALCAREOUS SHALY SILTSTONE - MAROON/PURPLE AS ABOVE. Becomes less calcareous below 240'. Broken - brecciated - bleached - may be fault 245.5-247

254-304 BRECCIATED MUDSTONE - Multi colored, soft, dense fragments in manganese (psilomelane?) matrix. Red hematite and jarosite form alteration rims on fragments. Goethite/hematite after 1 mm pyrite cubes disseminated in zones.

304-326 SANDSTONE - Grey, fine grained, soft - Sooty manganese coating fractures and in veinlets.

326-330 QUARTZITE - grey, dense, pale white - may be bleached due to alteration.

330-361 SANDSTONE - grey, fine grained - same as 304-326 - becomes bleached & discolored to FeOx at 350

361-359 MUDSTONE - Soft, pale green - a few hematitic casts after pyrite.

359-362 - Massive manganese 359.5-361.5

362-385 SANDSTONE - Light grey - stockwork of hematitic veinlets 1 mm or thick.

385-391 QUARTZITE - Brecciated.

391-455 SANDSTONE - grey to brown, fine grained with siliceous (quartzite) sections. Drusy/vuggy through 420.

Maybe fault 385-390 - may have caused Mislatch & core loss. Recovered 1½ rubble. Also 1.5' gouge 415-416.5

* Pb being re-run assayed

TRIM LINE

GEOLOGIC LOG

PROJECT TOMBSTONE SOUTH

PROJECT T.S — HOLE NO. TS-1
Collar elev. — Final depth —
Coord N. — Coord E. —
Bearing — Page 3 of 3
Logged by H. DOWNEY
Dep. elev. — Date logged —

DEPTH FROM	DEPTH TO	RECOV %	SPLIT	ALL ASSAY Au PPM	Ag PPM	Cu PPM	Pb PPM	Zn PPM	Mn PPM	Mo PPM
425	430		425-430	.008	15.00	70	255	305	1,550	65
430	435		430-435	.006	6.40	70	16	475	3,400	<2
435	440		435-440	.006	14.00	42	220	435	7,550	175
440	445		440-445	.006	14.00	70	65	620	5,250	12
445	450		445-450	.014	22.00	85	150	860	9,650	28
450	455		450-455	.002	3.00	70	36	1,250	1,400	<2
455	460		455-460	.002	2.00	28	24	780	1,900	<2
460	465		460-465	<.002	1.60	28	16	330	990	<2
465	470		465-470	.002	.80	24	16	340	800	<2
470	475		470-475	.004	4.40	12	28	380	1,310	<2
475	480		475-480	.006	.60	<2	20	135	460	<2
480	485		480-485	.006	1.20	12	38	1,050	3,300	<2
485	490		485-490	.004	1.40	8	16	410	1,100	<2
490	495		490-495	.004	.30	16	16	130	690	<2
495	500		495-500	.030	1.20	12	14	32	520	<2
500	505		500-505	<.002	1.10	4	12	30	490	<2
505	510		505-510	<.002	.20	6	10	24	830	<2
510	515		510-515	<.002	.80	4	6	110	510	<2
515	520		515-520	.002	.40	6	20	380	1,050	<2
520	525		520-525	.006	.70	14	205	530	1,100	8
525	530		525-530	.006	.40	12	95	305	930	10
530	535		530-535	.002	1.40	14	26	115	470	10
535	540		535-540	.004	.20	6	20	180	950	8
540	545		540-545	.012	.85	6	165	458	6,250	6
545	550		545-550	.006	.25	8	75	630	2,800	8
550	555		550-555	<.002	.30	10	22	165	990	6
555	560		555-560	<.002	.15	8	24	60	570	<2
560	565		560-565	.002	.05	10	28	70	480	2
565	570		565-570	.012	2.20	20	285	510	5700	8
570	575		570-575	.008	1.00	12	270	520	4,100	4
575	580		575-580	<.002	.15	12	10	105	1,000	4
580	585		580-585	<.002	.25	6	14	75	970	4
585	590		585-590	.004	.30	6	60	145	4400	6
590	595		590-595	<.002	.25	6	18	70	830	6
595	598		595-598	.002	.20	10	14	50	890	4
	598	BOTTOM OF HOLE								

INCLINATION @ BOTTOM: -65° BEARING: N 80 W

ORE MINERALS: MANGANESE / GREASY	GANGUE MINERALS: QUARTZ VEIN	QUARTZ SILT	CALCITE	GOETHITE	JAROSITE	RED HEMATITE	MELNITE	FLUORITE	PYRITE
10									
10									
5									
5									
6					2	3			
LITHO-CHANGE									
5					2	3			
5					2	2			1
5					2	2			2
5					2	2			2
5					2	2			2
5					2	2			2
2					1	1			
2					1	1			
2					1	1			
2				TR	TR				
2				TR	TR				
3				TR	TR			2	
3				TR	TR			2	
2									
2									
2									
2						TR			
3						TR			
2									1
2									1
1									3
1									1
1									5
TR									5
TR									TR
TR									TR
TR									TR

STRUCTURE

% RQD	
0	BX
10	
10	
20	
10	
20	
30	END OF BX
30%	
AV	

ROCK TYPE and REMARKS

391-455 — CONT. BRECCIATED SANDSTONE — contains to 455

FAULT ? CHANGE

455-469 CONGLOMERITIC LIMESTONE — Mottled brown to pale green

469-482 SANDSTONE — grey, medium grained — hematite casts after pyrite

482-509 CALCAREOUS SHALY SILTSTONE — Maroon / purple, spotted with calcite blebs. Similar to unit above 250'

509-518 LIMESTONE — Pale green, mottled to purple — may be alteration (baking) of above unit

518-557 SANDSTONE — grey, medium grained — a few calcareous zones, calcite stringers, siliceous zones could be considered quartzite

557-573 CALCAREOUS MUDSTONE — Soft, green-grey — fine bedding, hematite stringers near upper contact. Mottled green 560-564 — purple 564-566 — may be altered. Numerous cavities to ¼" dia. 567-570. Abundant fine grained disc. pyrite 560-570

573-577 CONGLOMERITIC CALCAREOUS SHALE — Purple — contact @ 30° to core axis.

SANDSTONE / QUARTZITE — Similar to 518-557

577-598 QUARTZITE — Light tan, massive, minor dendritic M.n.Ox. on fractures.

Tombstone Seventh
HSD's TS-1