Sample #	Туре	Width	Cu	96	Ozs, Au	ı Aq	Zn%	' Pb%
I	Goss.	5'	.48		Tr.	.48		
II	Goss.	? Random Crops	1.48		.01		1.0	
III	Goss	8' hi-grd chal zone			Tr.	.30	.2	
IV	Goss	5 '	.72		Tr.	.3	.1	
V	Goss	3'	.68		.005	, 2	. 2	
VI	Goss	2½'	2.08		.01	· ••	1.2	
VII	Goss	6 '	1.32		.005	.30	.2	
VIII	Goss	4'	.78		.005	.14	Tr.	
IX	Goss	20'?scat. Crops	.20		.02	-		
X	Goss	2.5'	1.16		.005		÷	
ХI	Goss	6'	.56		.08	-	₹	
AVE.		?	.84					
47634	Chal. fr	Grab	44.43	,	.005	. 2	.15	
47633	Cu Goss.	Grab up Cr. from Cabin	4.36		Tr.	1.26	.15	
47635	Goss fr Chal Pit	Grab	2.48		.14	.50	, 15	
47636	F.C. Goss		.32		.01	- 1 -1	-	
47637	Chip Cpy Chal Pyrı	Grab	20.52		.005	.1	.1	
USBM, Terry of 7 samp.			1.8		Tr.	Tr.		

MEMORANDUM

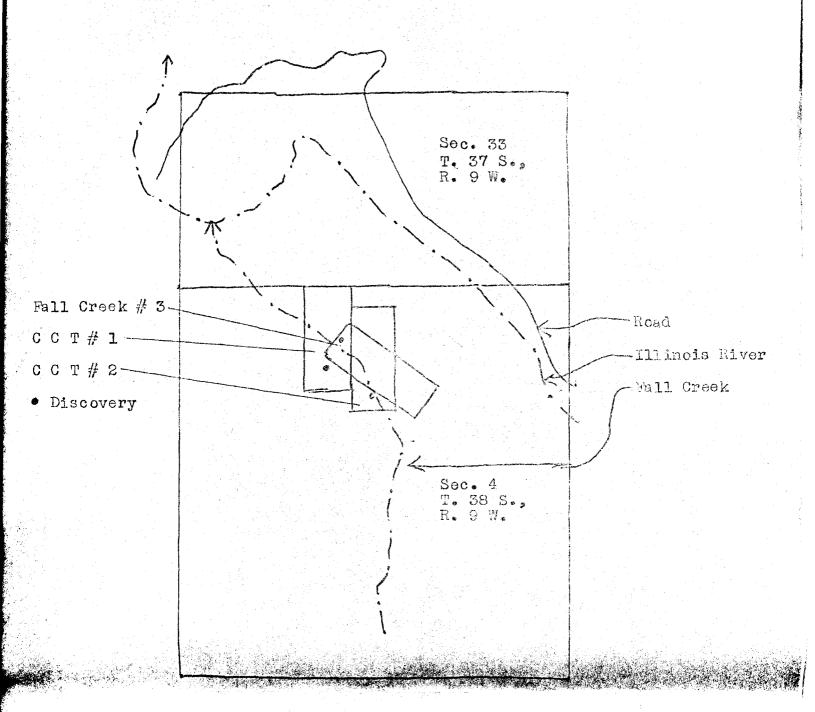
Page 2.

Tim K. Smith

In addition to this, high grade zones sampled in underground workings in 1952 ran 23% Cu, .16 Au, .25 Ag, .8 Zn, and .31 Ni (USBM 1970). In 1899 400 tons of ore was shipped to Tacoma and was said to smelt at a profit. In 1956 25 tons of ore @ 18% Cu was shipped.

This type of deposit has a history of being poddy and discontinuous. The Fall Creek property looks as though it might be large enough and high grade enough that, should a market become available, a serious look should be given the prospect.

Tim K. Smith



EXPLANATION

USBM

Serpentine



Shear Zone

1

Sample Location

Мар			Analysis d		
Ref.	Description		(percent) (Gold [ounce per ton]	Silver (ounce per ton)
NO.	beset iperon		(percency)	ounce per tony	(ounce per conj
1 20 foo	t chip across	shear zone	2.22	trace	0.1
2 5 foo	ot chip across	shear zone	5.69	trace	0
3 Grab f	rom stockpile		50.70	trace	trace
4 6 foc	t chip across	shear zone	0.67	trace	0
5 6 foo	ot chip across	shear zone	1.44	0.09	trace
6 0.3 fc	ot chip acros	s shear zone	3.12	trace	. • • • • • • • • • • • • • • • • • • •
7 6 foc	ot chip across	shear zone	0.63	trace	0.2
8 5 foo	ot chip across	shear zone	0.04	trace	0
9 8 foo	ot chip across	shear zone	3.62	0.02	0 , 1 , 1 , 1
	the second second	4			

FIGURE .- Map of Fall Creek Copper Prospect

See: United Copper-Gold Mines Company; also S.I.R. sheets immediately following.

FALL CREEK CORNER

SIR-5

12LINOI

JOSEPHINE

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES ASSAY LABORATORY

REQUEST FOR SAMPLE INFORMATION

The State law governing free analysis of samples sent to State Assay Laboratories requires that certain information be furnished the Laboratory regarding samples sent for assay or identification. A copy of the law will be found on the back of this blank. Please fill in the information called for as completely as possible, and submit it along with your sample. Keep a copy of the information on each sample for your own reference.

Your name in full A. W. Johns. c/o J. A. Phillips								
Post office address 312 East "I" Street, Grants Pass, Oregon	_							
Are you a citizen of Oregon yes Date on which sample is sent February 21, 1949								
Name (or names) of owners of the property A. W. Johns								
Name of claim sample obtained from Fall Creek Copper Mine								
Location of property or source of sample (describe as accurately as possible below): (If legal description is not known, give location with reference to known geographical point)								
County Josephine Mining district Illinois								
Township 38s Range 9w Section 4 Quarter section								
How far from passable road 1 mile from Oak FlatSelma Road								
For what minerals or elements do you wish the sample(s) analyzed Cu. Au. Zn								
Channel (length) Grab Pipe Description								
Sample no. 1 x chalcopyrite								
Sample no. 2 (Samples for assay should be at least 1 pound in weight; clay samples for ceramic testing, at least 5 pounds.) IMPORTANT: A vein sample should be taken in an even channel across the vein from wall to wall. Location of sample in the workings, together with the width measured, should be recorded.								
(Signed) A. W. Johns								
DO NOT WRITE BELOW THIS LINE - FOR OFFICE USE ONLY - USE OTHER SIDE IF DESIRED	_							
Description Sample of chalcopyrite	-							

Sample COLD SILVER Copper Zinc number oz./T. Value oz./T Value	1							
P-8266 0.12 Value 02./T Value 20.70% 0.20%	1							
Percent issued Cord filed Percent mailed Called for	•							

SIR-5

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES ASSAY LABORATORIES

REQUEST FOR SAMPLE INFORMATION

The State law governing free analysis of samples sent to State Assay Laboratories requires that certain information be furnished the Laboratory regarding samples sent for assay or identification. A copy of the law will be found on the back of this blank. Please fill in the information called for as completely as possible, and submit it along with your sample. Keep a copy of the information on each sample for your own reference.

Your nam	e in fu	п н.	D. Wolf	9		·				
Post-off	ice add	ress	P. O. I	30x 417	Grants	Pass, Or	egon	÷.		
					e on which E. Wh y R. Fe	ite				
Name of	claim s	ample obt	ained fr	om Fall	l Cr. Cu. M	ine	Jan. 194	3		
				_	(describe			s possible	below):	
Tow	nship	385 Ra	nge 9	Sec	tion4	Quar	ter secti	on		
		sable ro								
For what	mineral	ls or ele	ments do	you wis	h the sampl	le(s) and	alyzed	Au, Ag,	Cu	
	For what minerals or elements do you wish the sample(s) analyzed Au, Ag, Cu Channel (length) Grab Pipe Description									
Sample N	0.1	·		<u>x</u>						
Sample N	0.2_					=				
	wall. I	ocation		e in the	n in an eve workings, gned) H.	together	with th		-	
DO NO	T WRITE	BELOW TH	IS LINE	- FOR OF	FICE USE ON	ILY - USI	OTHER S	IDE IF DE	SIRED	
Descript	ion									
			•							
Sample		LD	SIL		COPPER					
Number	oz./T.	Value	oz./T	Value	iliyaa seesi is	<u> </u>				
IG-55	0.10	\$3.50	0.50	\$.45	19.90%					
Report 1	ssued	Cax	d filed		Report mail	.ed	Call	ed for		

EM-16 ELECTROMAGNETIC SURVEY

OF THE

COPPER LODE PROPERTY

JOSEPHINE COUNTY, OREGON

WHITNEY & WHITNEY, INC.

MANAGEMENT CONSULTANTS

P. O. BOX 11647 RENO, NEVADA 89510 TELEPHONE: (702) 323-3050

EM-16 ELECTROMAGNETIC SURVEY OF THE COPPER LODE PROPERTY

JOSEPHINE COUNTY, OREGON

Field Survey By:

Mining Enterprises, Mr. A. R. Cornelius, Coordinator

P. O. Box 914

Arnold, California 95223

Interpretation By:

Whitney & Whitney, Inc.

John W. Motter, Geophysicist 1755 East Plumb Lane, Suite 135

Reno, Nevada 89510

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SUMMARY AND CONCLUSIONS

Nine (9) lines of very low frequency (VLF) EM-16 electromagnetics totalling approximately 6,300 feet were surveyed by Mining Enterprises at the Copper Lode property in Josephine County, Oregon. Five moderate to weak EM conductors were located. Recommendations for three or more angle diamond drill holes have been included with the report. Subsequent drilling would be dependent on results of the initial drilling program. Definitive location of the drill holes should be based on the EM data in conjunction with topographic and geologic data.

A broad conductive zone was located during the survey which was designated Zone A. Four of the five identified conductors (anomalies 1A through 4A) lie within this north-south striking zone. The fifth anomaly (1B) lies near the northeast corner of the survey area.

Interpretation would be facilitated if a base map were available showing topography, known mineralization, and any geology (if the property has been mapped). Conductors or anomalies located during this survey can be upgraded if any portion of them is spatially related to known mineralization.

Additional EM-16 could be undertaken to the north of the current survey boundary, subject to land status considerations. Anomaly 1A, a moderate strength conductor,

extends northwest from the present north boundary (Line N4) and should be investigated as time permits.

DESCRIPTION OF EM-16 METHOD

The EM-16 system is a very low frequency (VLF) electromagnetic receiver useful for detecting conductive zones such as many types of orebodies. In the case of massive sulfides or heavily disseminated orebodies containing metallic minerals we would expect the orebody to respond directly. Veins not containing a fairly large percentage of metallic minerals (such as pyrite, chalcopyrite, galena, etc.) may give an indirect indication of their location and still respond to EM-16 by virtue of being located in a structure such as a fault zone or shear which is more electrically conductive than the surrounding host rocks. This indirect indication would be, in general, the expected response made for a gold-quartz vein which might contain a very small percentage of metallic minerals, but might be located in a fault zone which would be more conductive than the surrounding host rocks.

While radio frequency EM prospecting is not new (for example, see Eve and Keys, 1956; or Heiland, 1940.), it is only fairly recently that easily operated, light, one man units were made commercially available. The Geonics EM-16 or the RONKA EM-16 used by Mining Enterprizes are examples of this type of EM receiver. These units make use of VLF (very low frequency) radio stations of the U.S. Navy communications network—thus the necessity of a field transmitter is eliminated. Radio-frequency E.M. methods using ground—tansportable transmitters were employed in the 1930's and, to a lesser extent, as recently as 1960, for both prospecting and geological mapping. Because of the relatively high frequencies employed, the method suffered from poor penetration and difficulty in discriminating between bodies of different conductivities. In

North America the method was abandoned in favour of low-frequency E.M. for nearly all prospecting applications.

In Europe, the use of radio-frequency methods continued underground, for mapping coal-seams and for exploring in the vicinity of base-metal orebodies. The Russians (3) have been successful in applying radio shadow techniques in drill-holes for routine exploration and mapping of sulphide overburden layer, attenuation in most rocks, even at these frequencies, is quite low.

Despite these and other activities, radio-frequency methods were not accepted for routine surface or airborne exploration until Canadian Exploration Companies introduced "passive" instruments working in the VLF range (15-25kHz) in 1964. The EM-16 is the instrument most frequently used. Powerful military radio transmitters situated at numerous locations around the globe provided the primary E.M. signal.

Successful surveys were carried out with this instrument in 1965. By the end of 1966 the method was in widespread use, and in 1967 several similar systems were introduced or under development. At least two airborne versions were tested in 1968. By 1969 airborne and/or ground instruments were being manufactured by more than five North American firms. Currently the instruments are used in a wide variety of prospecting applications.

E.M. prospecting methods rely on the measurement of secondary fields generated by conducting bodies in the ground. When subjected to a primary E.M. signal "Active" methods employ transportable transmitters, generally working in the frequency range 400 to 5,000 Hz. AFMAG is a "passive" method, relying on electrical discharges generated by thunderstorms which produce measurable

signals in the 50 to 500 Hz. range.

The VLF method is also "passive"; in this case employing the radiation from powerful military radio transmitters as the primary signals. Frequencies and power outputs of these stations are listed in Table 1.

The radiation from these transmitters contains both electric and magnetic components and travels in three modes: skywave, spacewave, and groundwave. At the large distance we are concerned with, we receive mainly the skywave waveguided by the ionosphere and earth surface. The magnetic component is the one of main interest to us, as beneath the ground surface it carries the bulk of the signal energy, and it offers certain advantages in practical field measurement.

Basically the radio frequency units measure the angle of tilt (from the horizontal) or the dip of radio frequency magnetic fields produced by the VLF stations. Two components of the electromagnetic field are measured; the in-phase component (roughly equivalent to the "tilt angle" discussed above), and the out of phase, or "quadrature" component which is generally rather small for a very good conductor, and larger for a poorer conductor. This magnetic field part of the radio wave is transmitted in a horizontal orientation, but can be modified in at least two ways: by a SECONDARY (S)- Field from a conducting mineral body "excited" by the PRIMARY or (P)-Field transmitted by the VLF station; or by a (S)-Field produced by currents induced in rocks and soils.

As discussed earlier, conductors detectable with the EM-16 include, both wanted and unwanted sources. Desireable conductors would include orebodies such as massive sulfide deposits, or veins

containing heavily disseminated sulfides or within a conductive fault. Undesireable conductors ("noise") may be attributable to "culture" (powerlines, pipelines, grounded fences, etc) or to geologic sources such as conductive overburden of uneven thickness, intraformational conductors such as graphitic interbeds, or a number of other possibilities.

Table 1 illustrates the main features of measuring the effect of a conducting mineral body. It is conventional to plot the "tilt angle profile" -e.g. the angle of tilt of the EM unit when the instrument is aligned parallel to the net field (S + P). This alignment is checked by obtaining a null in the measuring coil (the vertical or long coil of the unit shown in table 1(a)). These features are discussed in the operating manuals and case histories, put out by Geonics and Crone (see the references), and need not be pursued further here.

RESULTS AND INTERPRETATION (Including EM-16 Profiles and First Derivative Profiles)

GENERAL

A total of nine (9) lines of very low frequency (VLF)

EM-16 were surveyed at the Copper Lode property in Josephine

County, Oregon. Lines were laid out East-West and averaged

approximately 700 feet; measurements were made every 50 feet.

For purposes of this report, EM profiles, first derivative

profiles and plan maps and data sheets have been segregated

and analyzed separately.

Figure 2 illustrates the detailed location of the 9 survey lines for the area. Electromagnetic data collection and data reduction by the survey crew of Mining Enterprises appears to be of excellent quality.

For each survey line, the following data is included with this report:

- 1. The data sheet with both raw and computed values and survey notes.
- 2. The EM-16 profiles of In-Phase and Quadrature components.
- 3. The first horizontal derivative profiles, corrected for topographic effects.

On each EM-16 profile, the in-phase component of the vertical electromagnetic field is illustrated with a solid line. The quadrature (or "out-of-phase") component of the vertical field is shown by the dashed line.

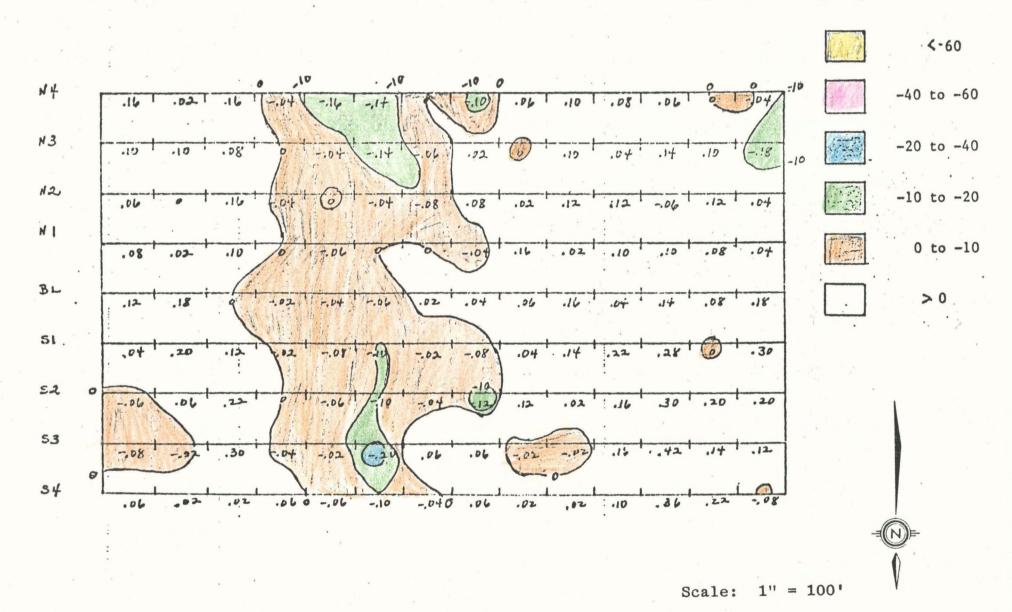
RESULTS AND INTERPRETATION, COPPER LODE SURVEY AREA

In the Copper Lode survey area, a total of nine (9) lines of very low frequency (VLF) EM-16 electromagnetics was surveyed. Each of these nine lines was approximately 700 feet long, thus a total of 6,300 of EM-16 survey was performed in this area.

A total of five (5) moderate to weak electromagnetic conductors was located in this survey area. Four of these anomalies are located within a larger broad conductive zone which is trending north and south. This zone has been designated Zone A. Four of the five anomalies located in the Copper Lode survey block are located within Zone A. These anomalies have been designated Numbers 1A through 4A. A fifth anomaly, which is designated 1B, is located near the northeastern portion of the survey block.

Figure #2 serves two functions. The first of these is to indicate the location of all readings taken. Lines are numbered N1 through N4 moving north from the baseline and S1 through S4 moving south from the baseline. The lines are located 50 feet apart and readings have been taken every 50 feet with the stations being numbered 1 on the eastern edge of the block to station 15 on the western edge of the block. Figure 2 is a contour map showing the contours of the in-phase component of the EM-16 field. The plotted values are contours of the first horizontal derivative of the in-phase component of the EM-16 data. Included in this section are profile maps

FIGURE 2
MINING ENTERPRISES, INC.
EM-16 Survey
Copper Lode Property



showing plotted values of both the in-phase and the out-of-phase, or quadrature, component of the EM-16; the data sheets containing both raw and calculated values are included in the subsequent section.

Anomaly interpretation would be facilitated by having a base map showing the location of known mineralization plus any information on geology which is available. Lacking this information, the interpretation contained in this report should be considered an indication which should be used in conjunction with other geologic, geochemical and geophysical information.

Anomaly 1A and anomaly 2A are two moderate strength conductors located within the broad conductive Zone A. Both of these conductors are indicated to be steeply dipping or vertical. The indicated depth to the conductor axis in anomaly 1A is approximately 100 feet. The indicated depth to the conductor axis of anomaly 2A is somewhat shallower, perhaps in the 50-75 foot range. Of these two anomalies, anomaly 2A appears somewhat stronger than anomaly 1A. Notes on the field sheets collected by Mining Enterprises suggest that anomaly 1A may be spatially related to the known mineralization in the adit. Anomaly 2A, which is located approximately 250 feet south of anomaly 1A, may well be part of the same structure. Anomalies 3A and 4A are weak anomalies located along the eastern edge of the broad conductive Zone A and should be followed up subsequent to anomalies 1A and 2A if work on these generates favorable

information.

Anomaly 1B is located near the eastern edge of Line N3. It is a near-vertical, northeasterly (?) dipping conductor which may be considered a secondary target to anomalies 1A and 2A, which have been previously discussed.

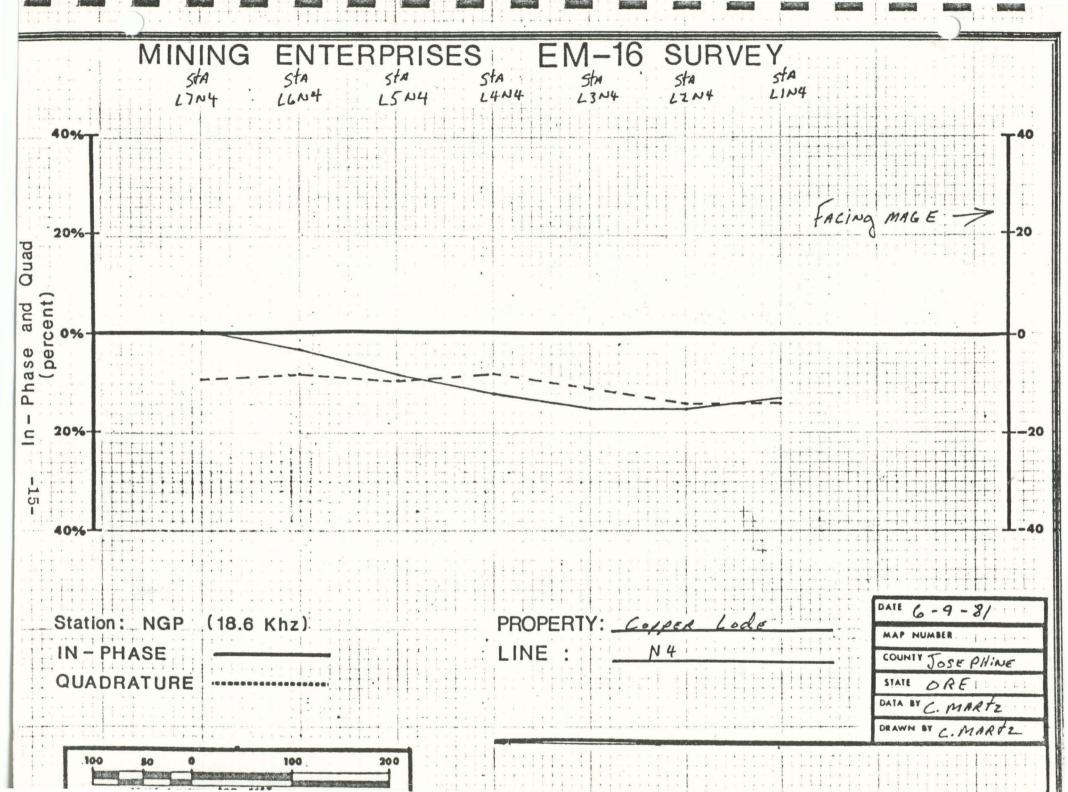
Overall, the EM-16 readings appear quite "clean" with only very small changes in background. Because of the absence of much background noise it is possible to resolve the condutors noted which are of moderate to weak intensity. It should be noted herein that the strength of the conductor as shown in Figure 2A may have only superficial relationship to the grade of copper mineralization encountered at depth. The EM-16 works on the principle of resolving inhomogeneities in lateral conductivity. Thus, massive sulfides typically show up as quite good conductors. However, in an area such as Grant's Pass, where weathering has been somewhat deeper, the near surface ore minerals which could generate a conductor may be secondary minerals (such as oxides and carbonates) which are not nearly as conductive as the primary sulfide mineral. Examples of copper minerals which are relatively non-conductive would include cuprite, malachite, azurite, etc.

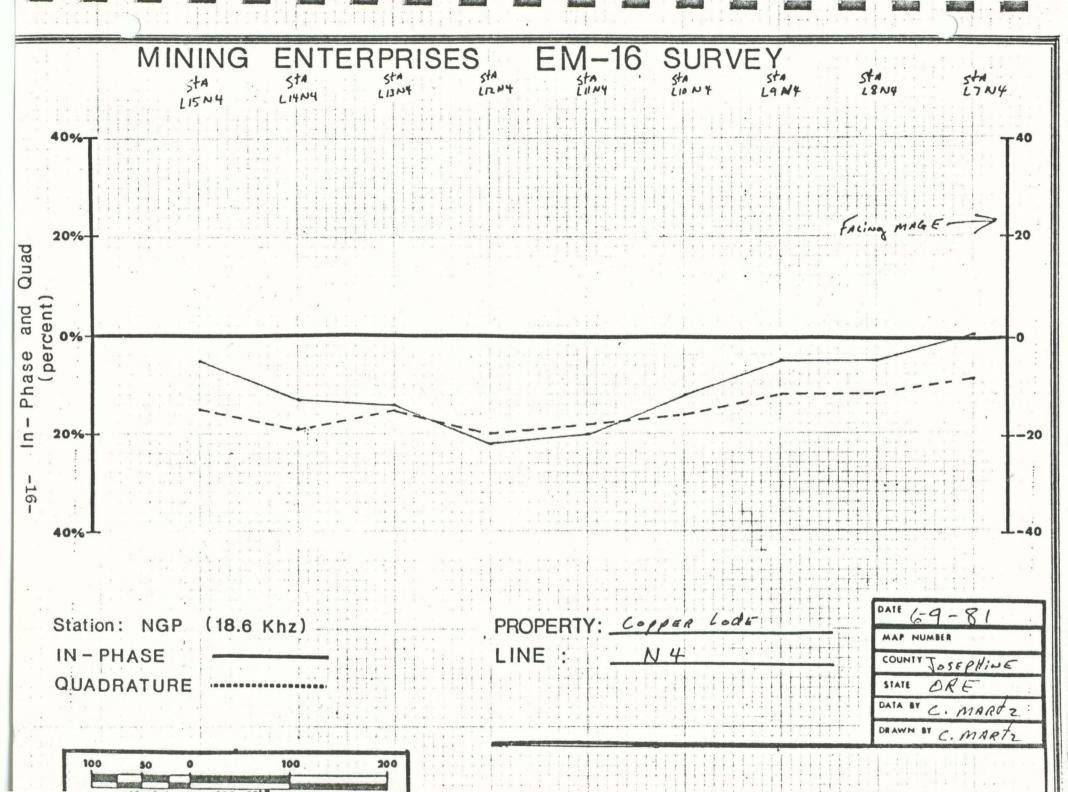
My first recommendation on this property would be to attempt to integrate the EM-16 geophysical survey results presented herein with the other data available. That is, the relationship of the known conductors discovered by

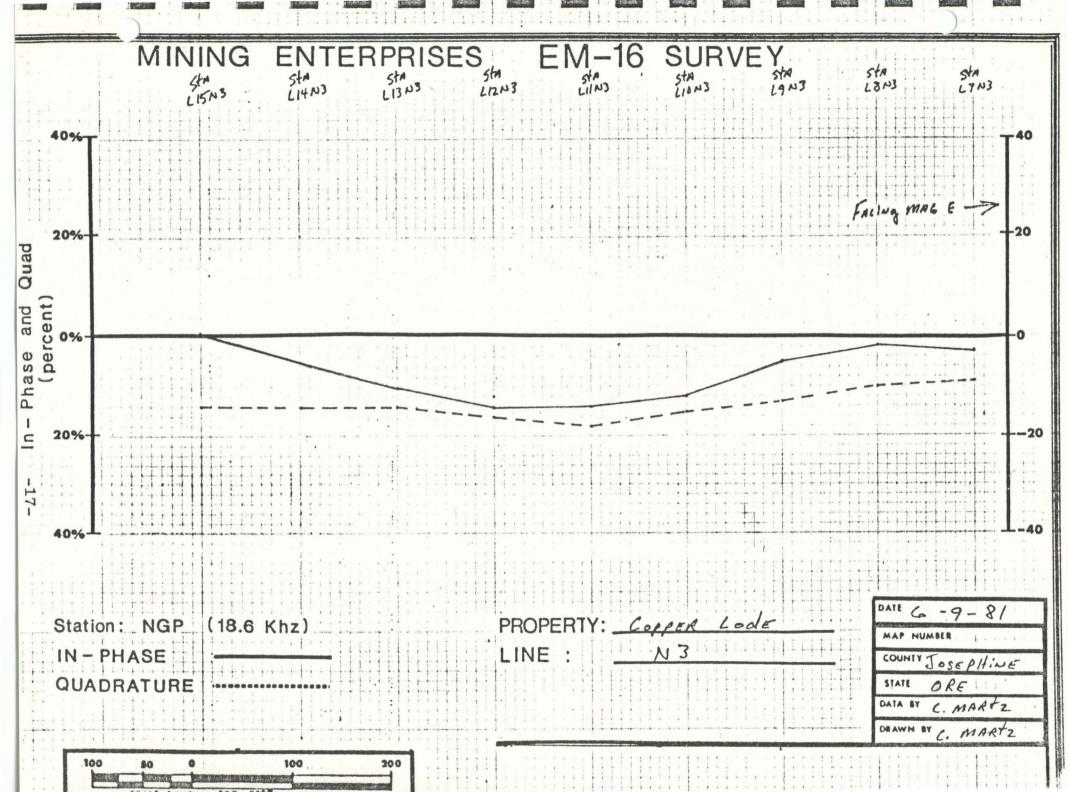
this survey should be determined with relationship to known mineralization and other geologic aspects of the property. For instance, as an exploration target, any of the anomalies discussed would be upgraded if they can be demonstrated to be spatially co-located with known mineralization.

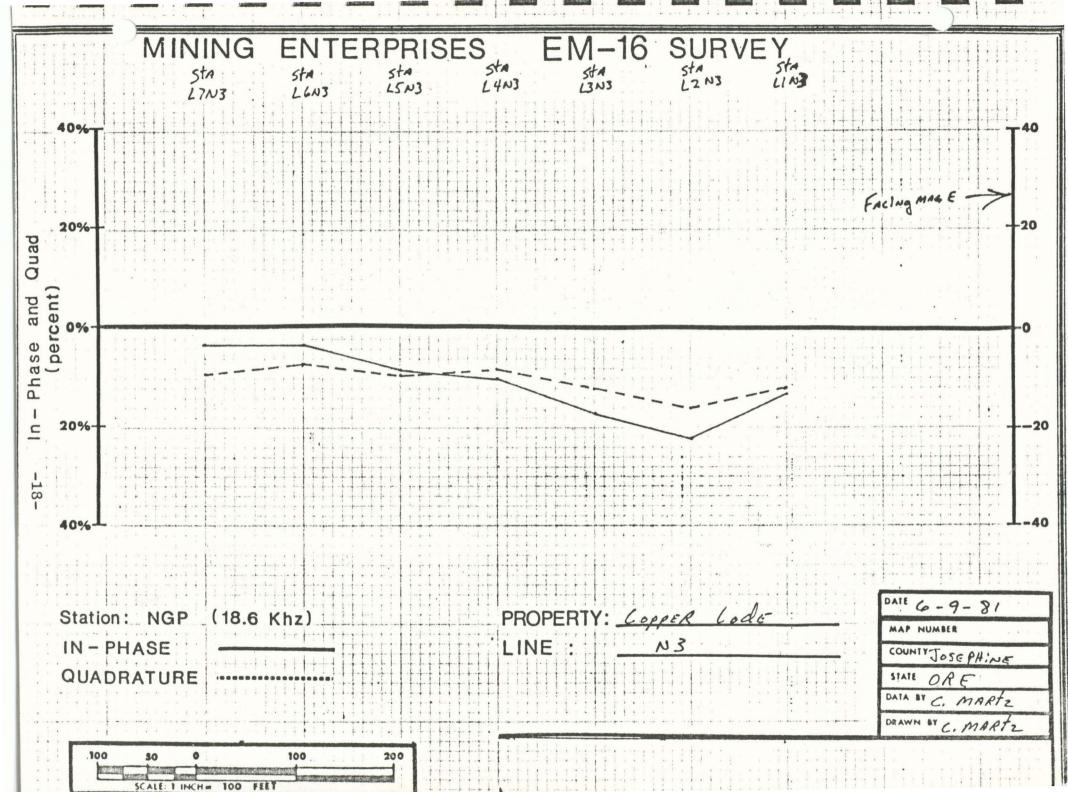
Diamond core drilling would appear to be warranted on anomalies 1A and 2A, and possibly on anomaly 1B. The drill holes should be planned so as to intercept the anomalies at an approximate depth of 150 feet to 175 feet below the surface. The exact location of the drill holes should be deferred until a topographic map of the area is available to use for planning. If land status permits, additional EM-16 survey work should be accomplished north of the northernmost line (N4) where anomaly 1A strikes northwest out of the current survey area.

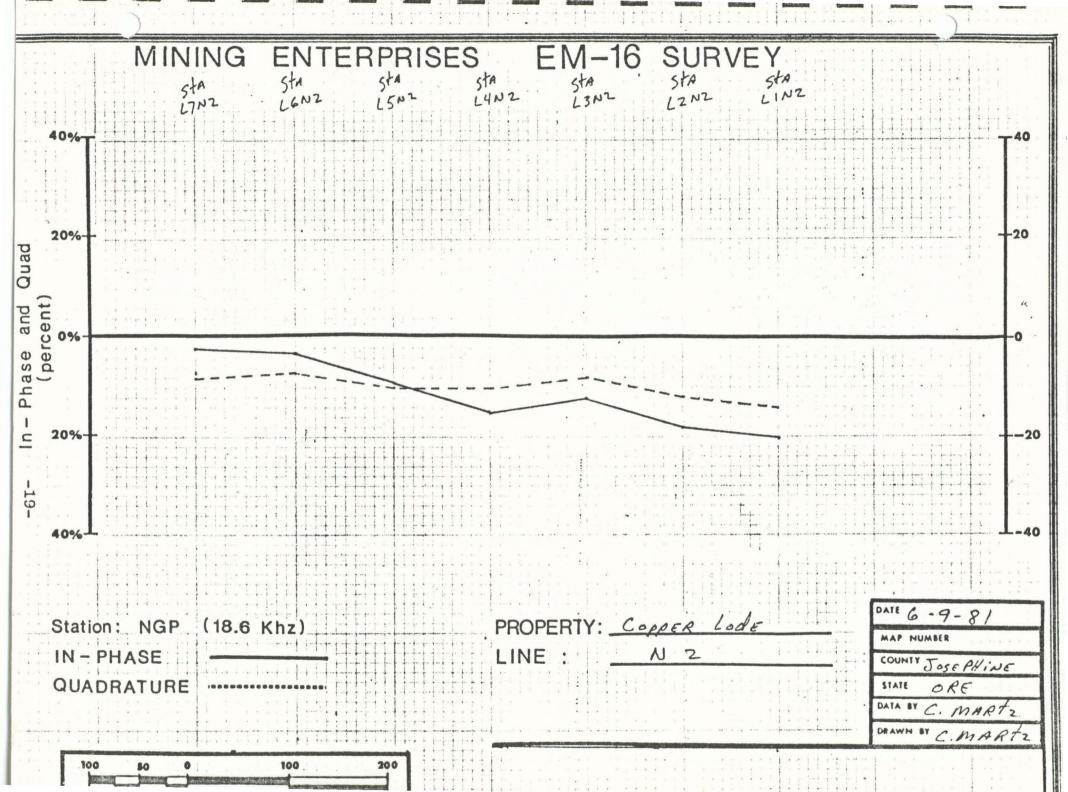
Following are the profiles of the in-phase and quadrature components of the EM-16 survey. The scale of these maps is 1" = 50', not 1" = 100', as shown. Thus two sheets are required for each line.

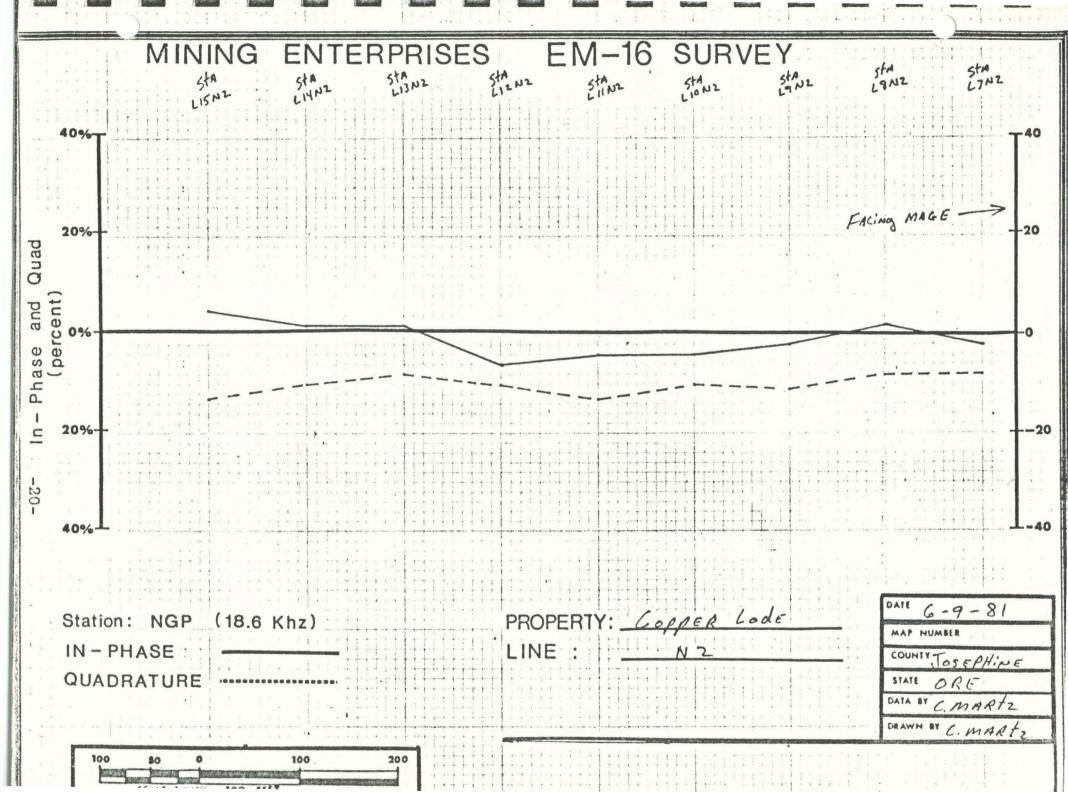


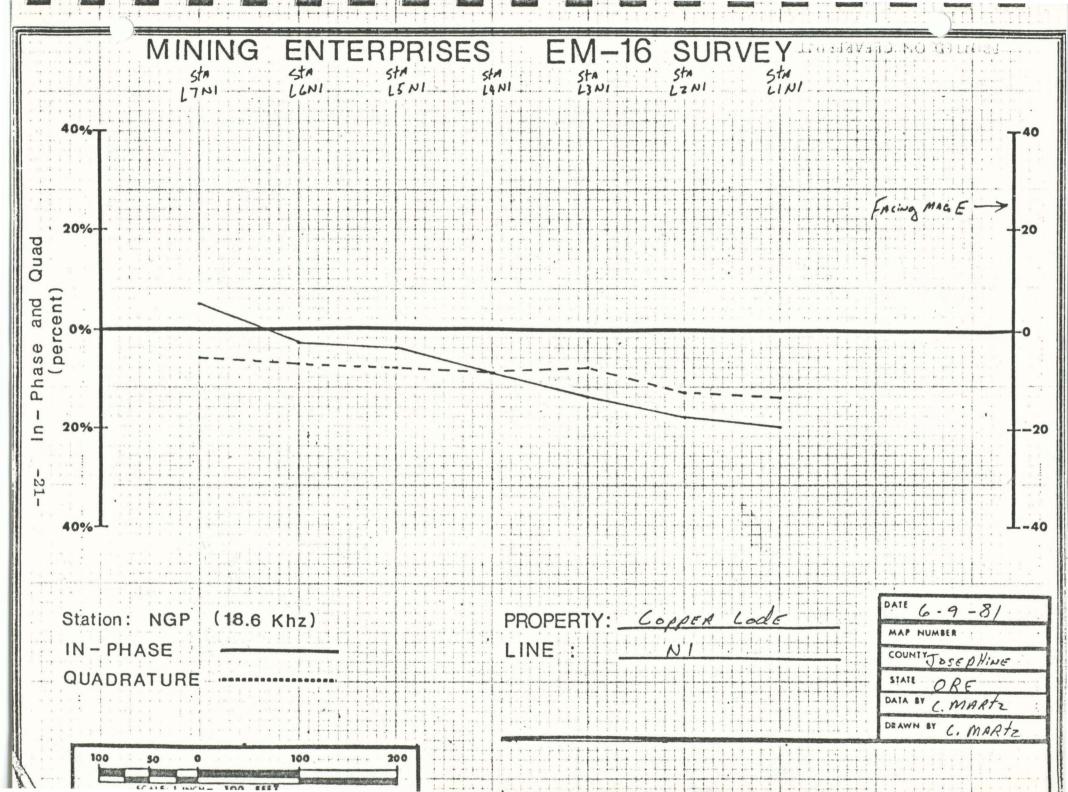


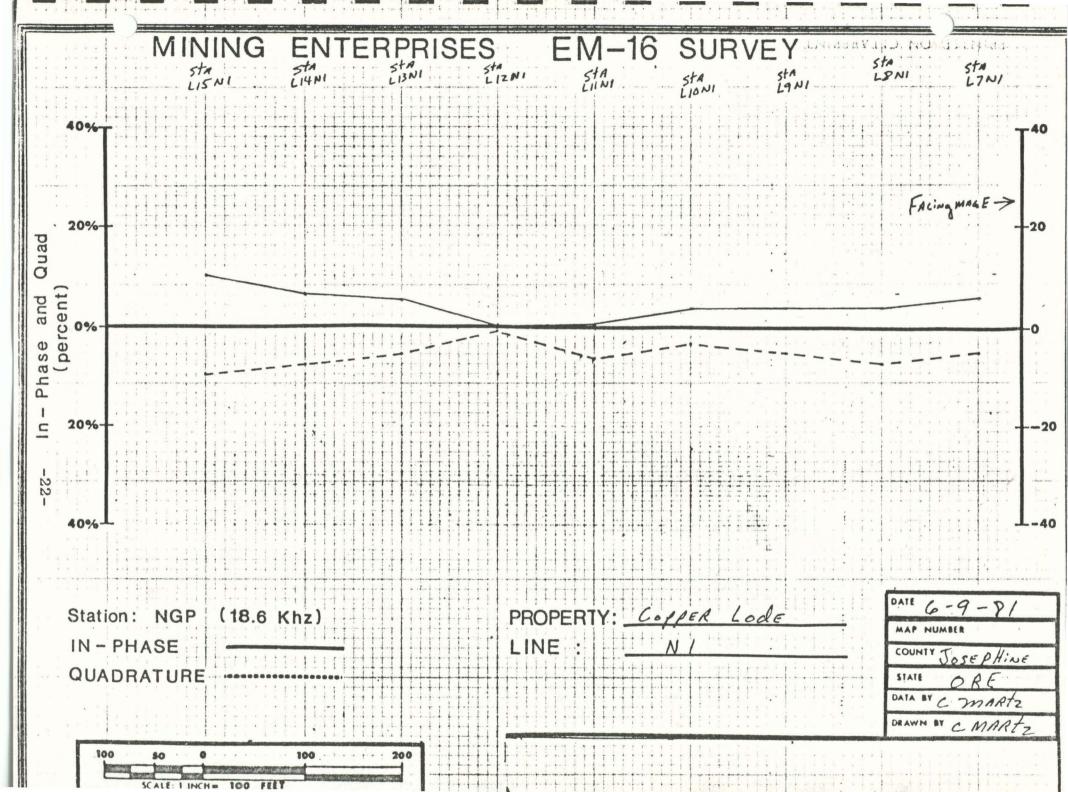


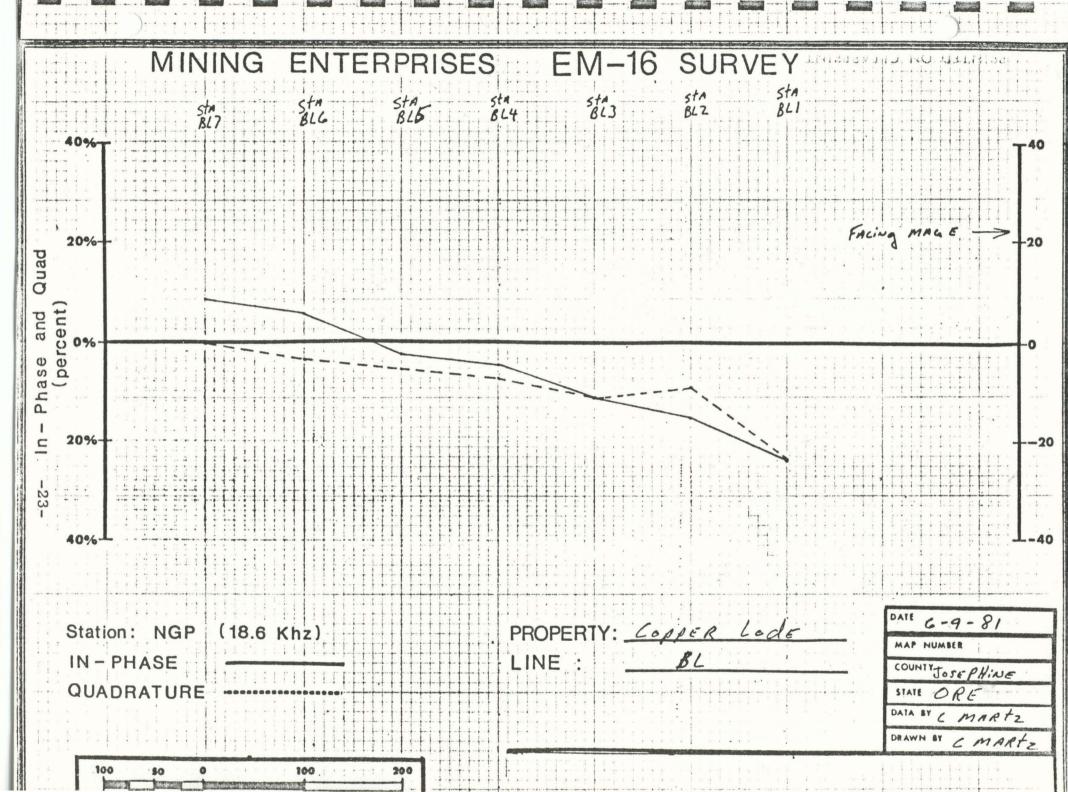


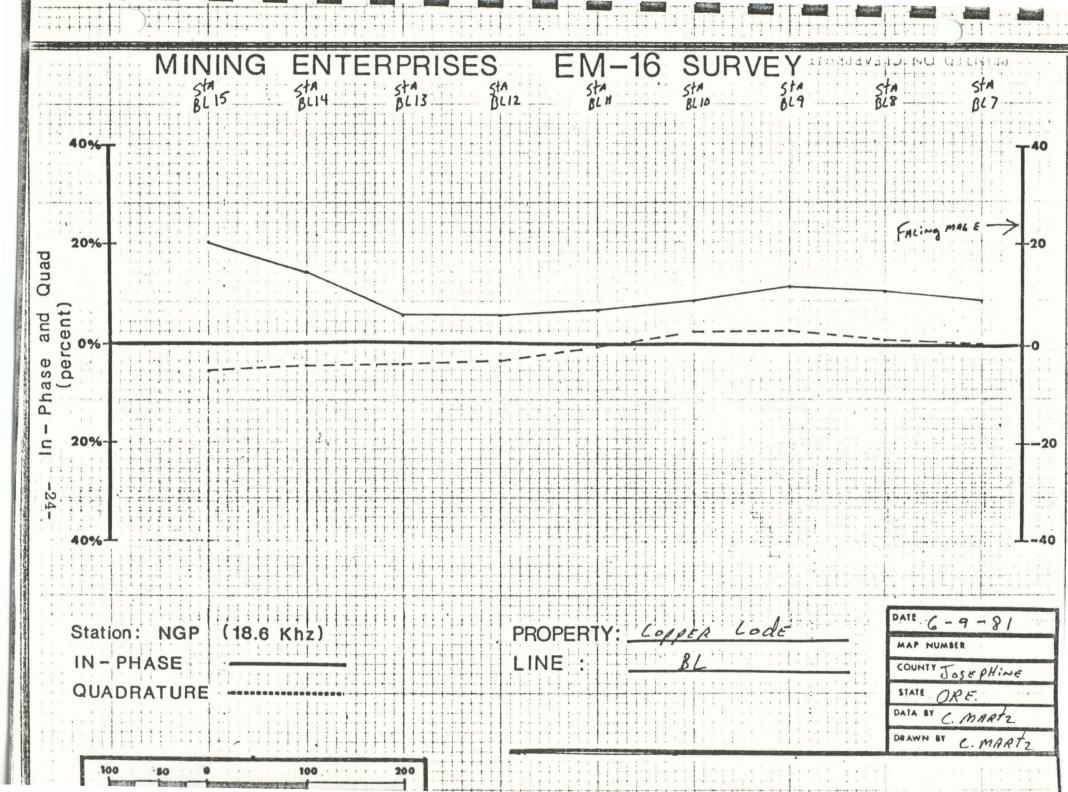


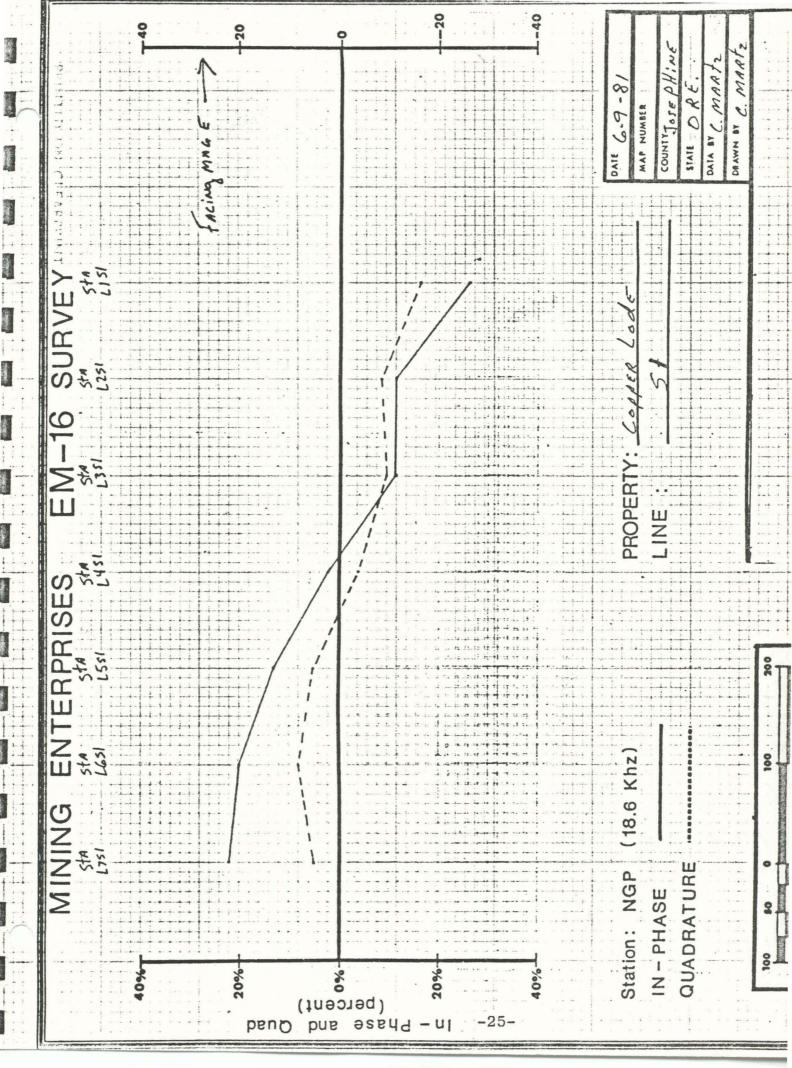


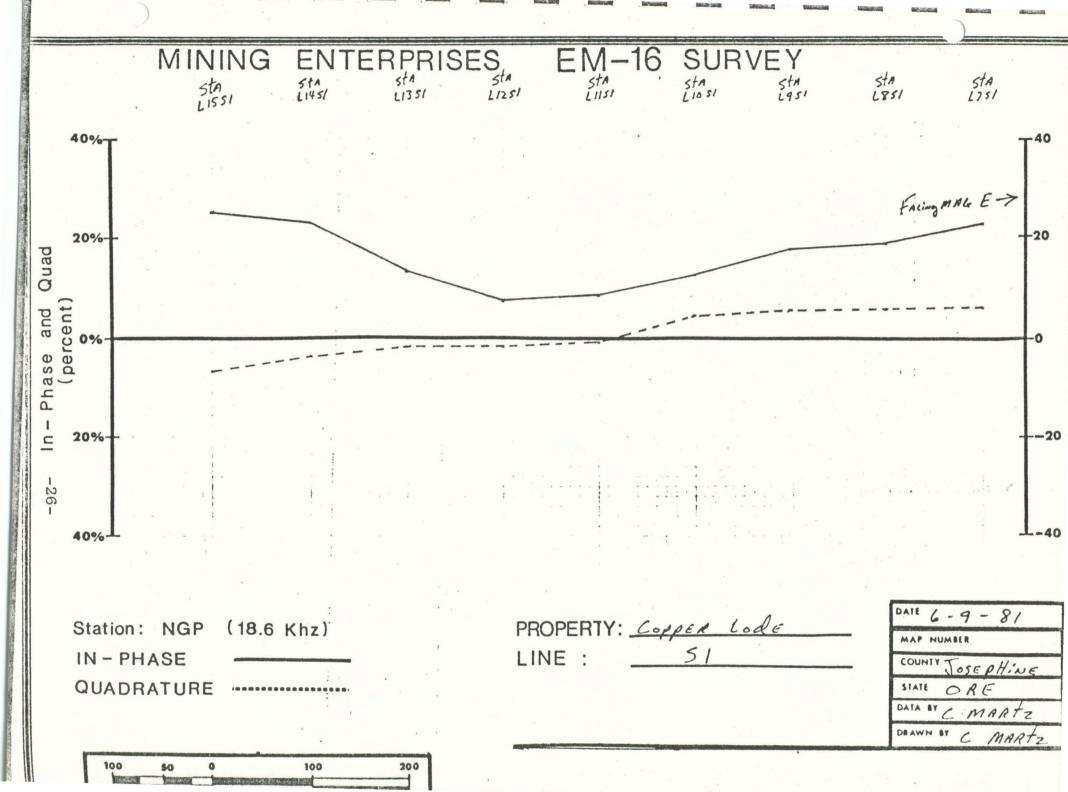


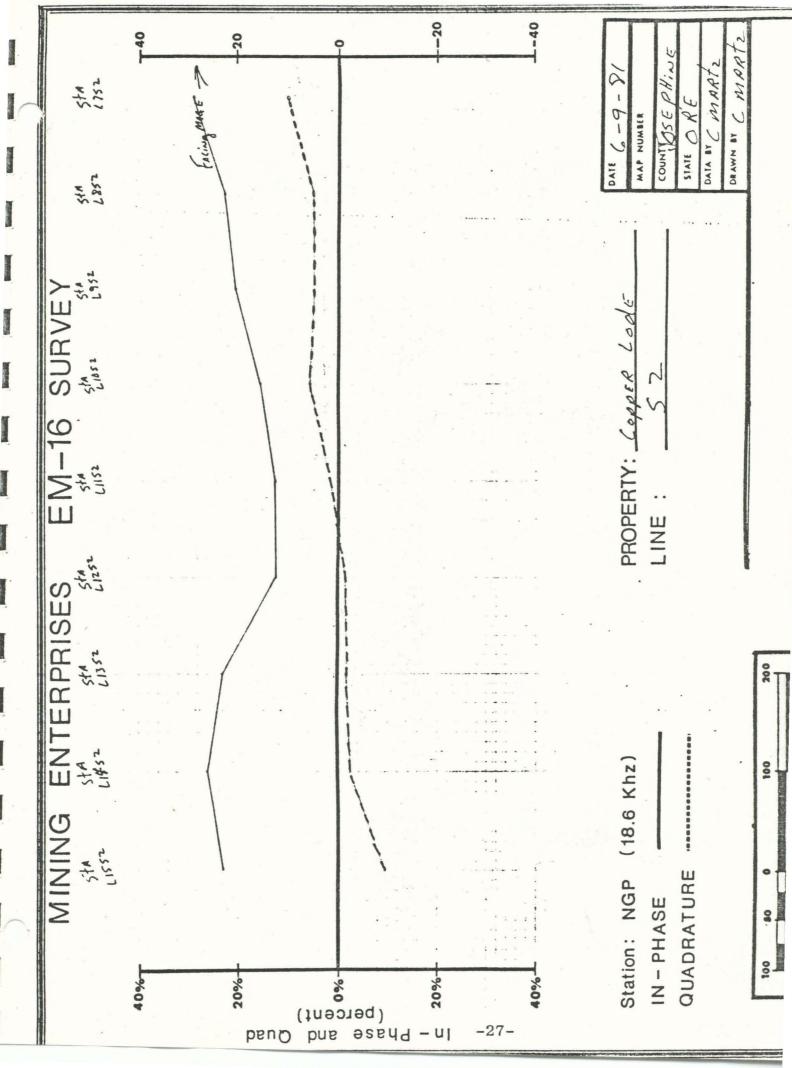


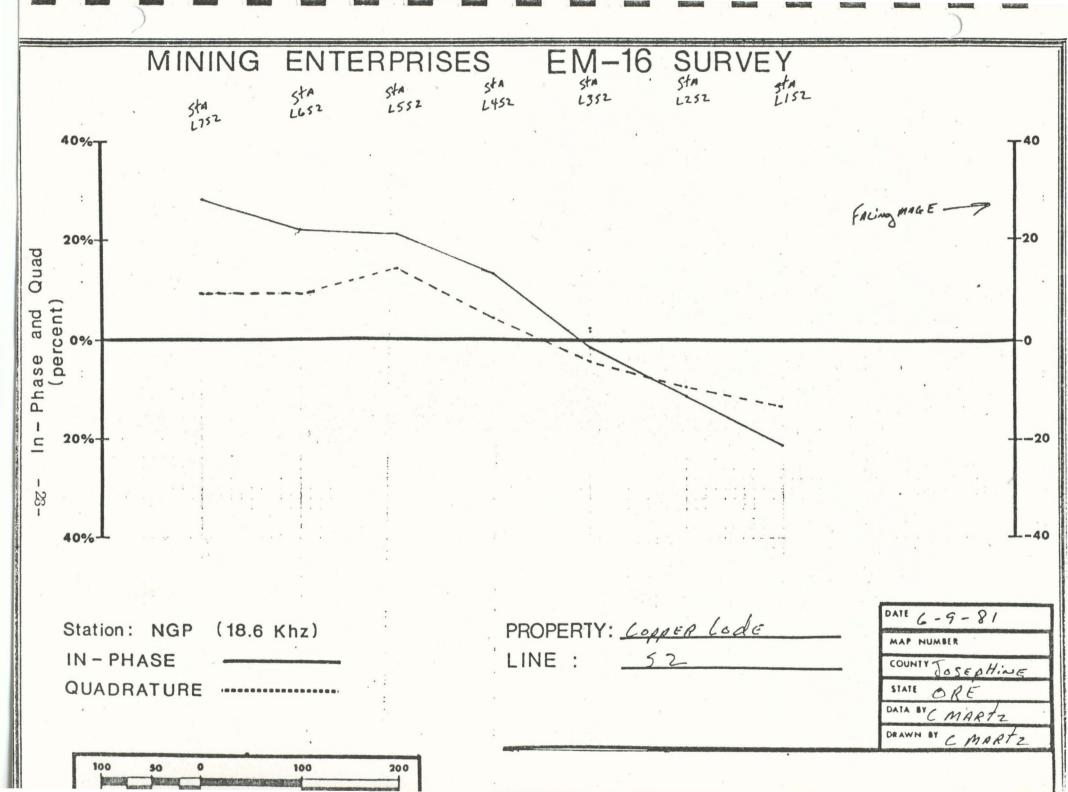


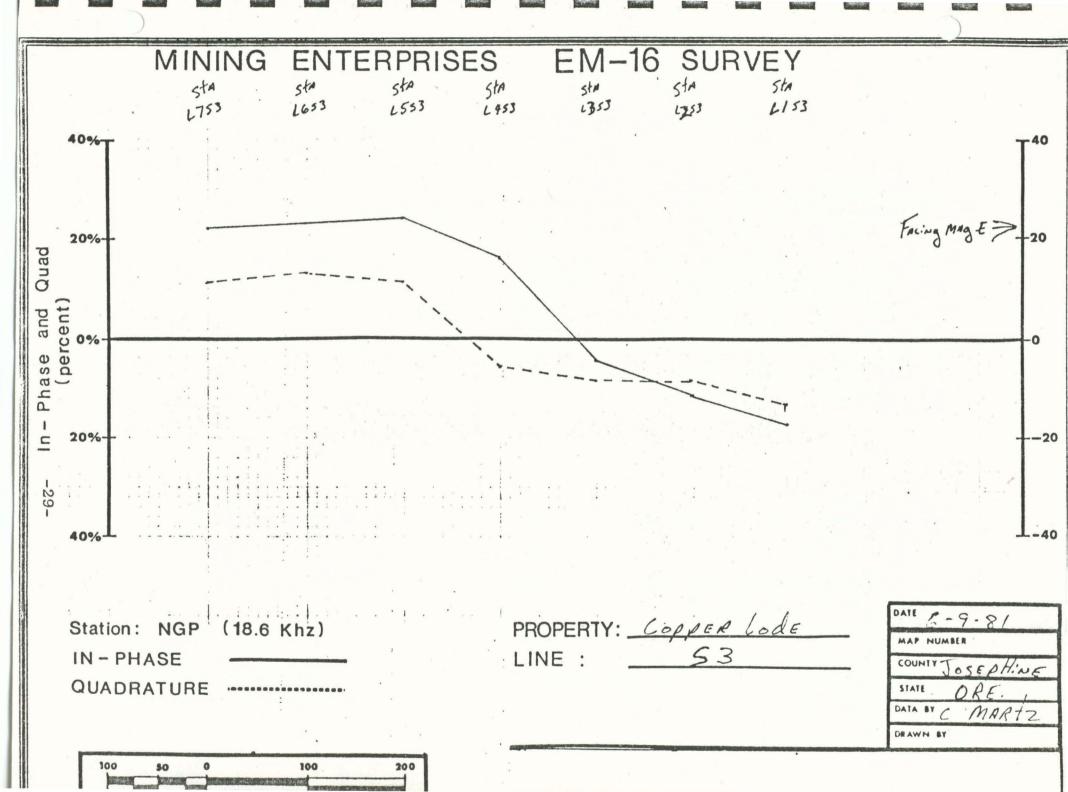


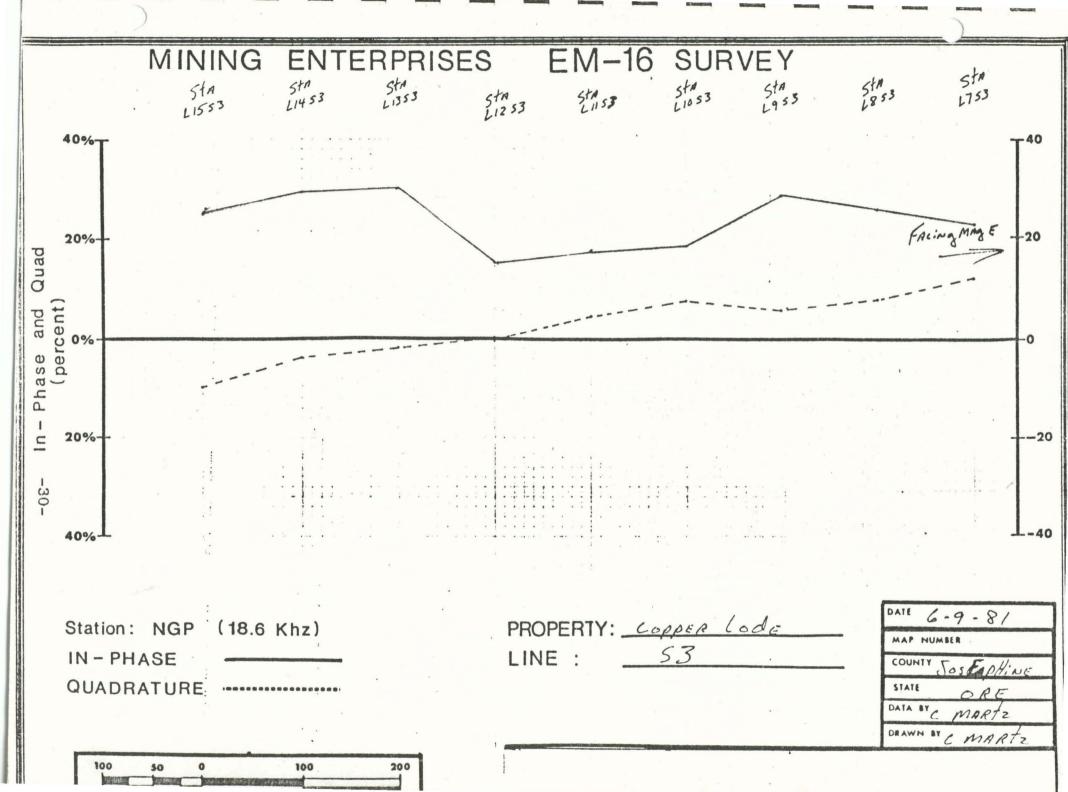


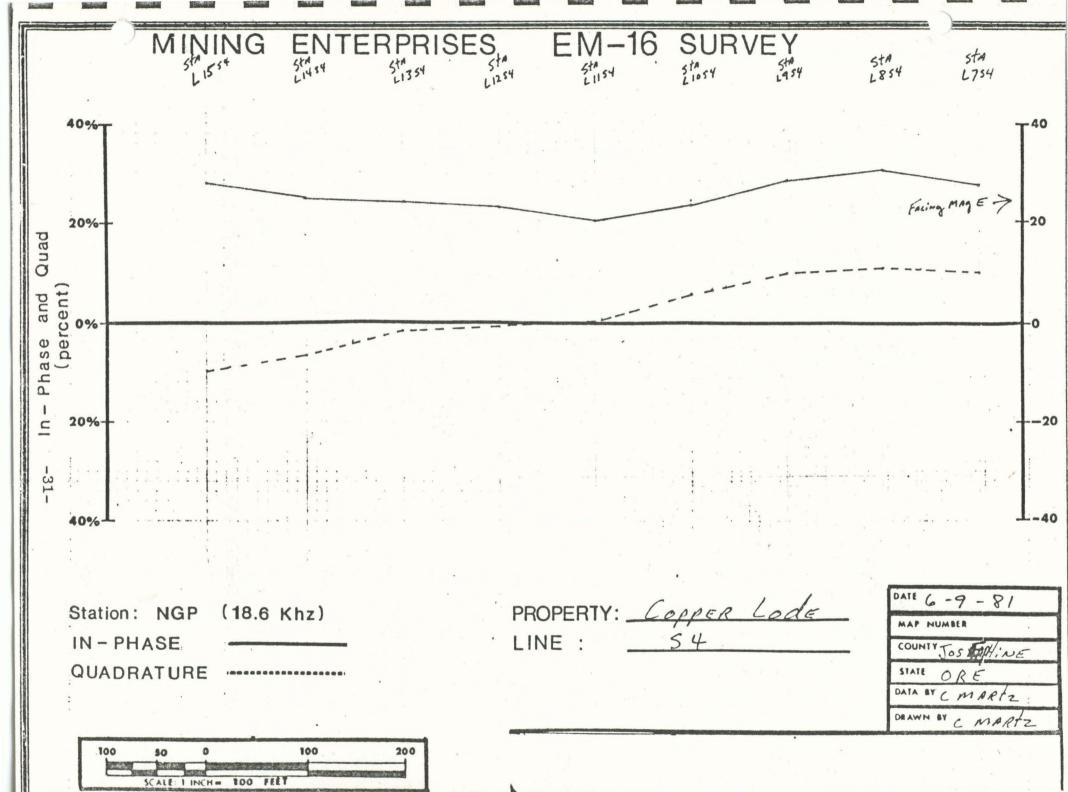


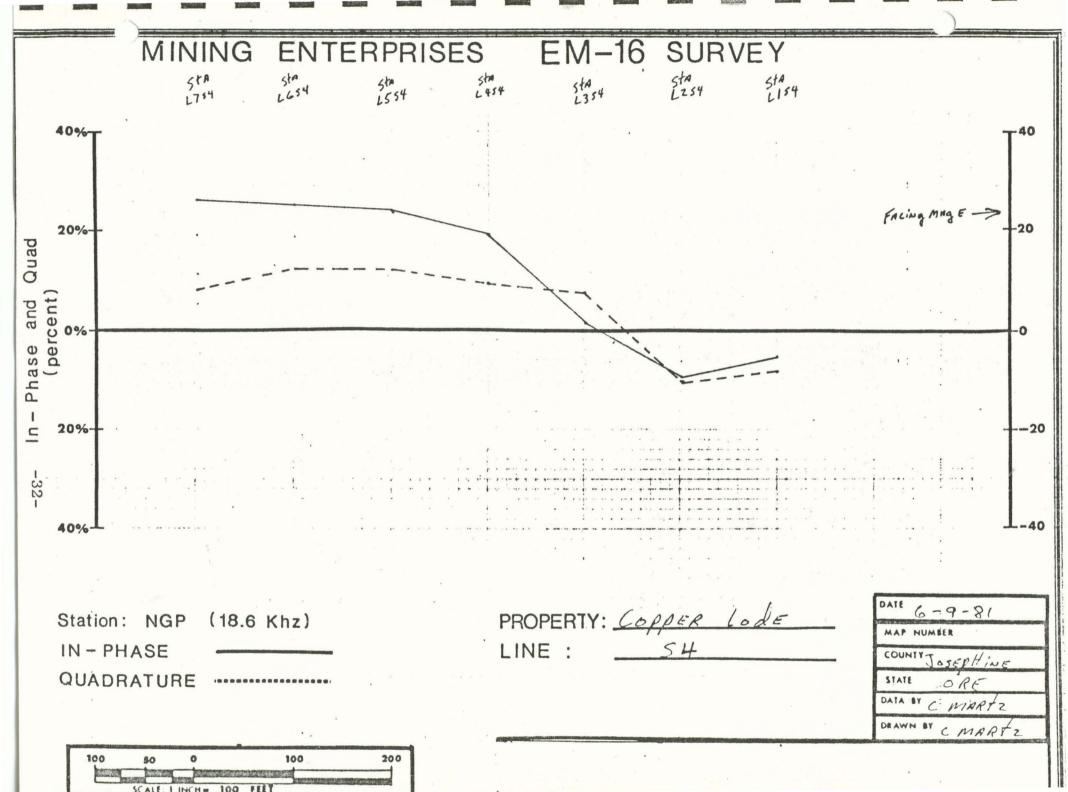












Project: Copper Lode
Line No: N4
Facing: E

Station: Jing CREEK WA.
FREQ: 18.6 KHZ
Rx_Operator: CoRt MARTZ
Data: CORT MARTZ
Line Oriented: MAG - N

Station Spacing feet: 50 Ft STATION IP IN-PHASE OUADRATURE SLOPE IP NOTES ELEV. ELEV. No. (%) (%) (%) (%) Spacing THIS STA \$5 FT BELOW N Edge OF Rd. TO ILL R. -34 LJAN4 -13 - 14 THIS STA ON N. Edge OF Rd TO IUR. THIS STA ON N. Edge OF Rd TO IUR. -15 -.04 LZ N4 -14 -15 -2 L3 N4 -15 -11 -10 0 0 L4N4 -12 -8 +3 +.06 45 N4 -8 - 9 +4 +.08 - 3 -8 L6 N4 - 5 THIS STA ONS Edge of Rd TO ILL R. +5 +.10 THIS STA ON N Edge of Rd to ELLR 17 N4 0 - 9 -12 + 3 +.06 THIS STAON S Edge of Rd to ILL R.
THIS STAON S Edge of Rd To ILL R. -5 68 N4 -12 -5 -20 -.10 L9 N4 -5 -1.2 - 10 0 0 THIS Sto ON N Edge OF Rd TO ILL R.
THIS STO. IN Rd TO ILL R. NOIS. L 10 N4 -15 -16 -.14 - 12 -7 611 N4 - 18 - 15 -8 -20 -.16 THIS STATE ON S Edge OF ROTO ILL R.
THIS STATE ON S. Edge OF Rol To ILL R. L12N4 -25 -22 -20 -2 -. 04 THIS STAKE 10FT SOF Switch BACKON Rd TO THE L 13N4 -14 -15 -15 +8 +.16 ILL. R. At Bottom CENTER OF PROSPECT L14N4 - 13 -30 - 19 +1 t.02 Cut Done with DozER Exposeino. SEVERAL VEINS SHOWING MALACITE, AZURITE 415N4 -15 -15 +8 +.16. covellite, cuprito etc.

Project: Copper Lode
Line No: N3
Facing: MAG-E

Station: Jim CR. WA.
FREQ: 18.6 KHZ
Rx_Operator: CoRt MARTZ
Data: CoRt MARTZ
Line Oriented: MAG N
Station Spacing feet: 50F

1								
v. No	ELEV.	ELEV.	IP Spacing	IP (%)	SLOPE (%)	QUADRATURE_ (%)	IN-PHASE (%)	STATION .
					- 25	-12	-13	L/ N3
			18	-9	- 20	- 16	-22	2 N3 -
			+.10	+5	- 25	-12	-17	3 N3
			+.14	+7	- 15	-8	-10	4 N3
			+.04	+2	-5	-9	-8	5 N3
			+.10	+5	-5	-7	-3	4 N3
A			. 0	0	. 0	-9	-3	7 N3
			+.02	+1	-10	-10	-2	8 N3
			06	- 3	-20	-13:	- 5	9 N3
A			14	-7	-15	-15	- 12	-10N3
AL			04	-2	-20	-/8	-14	11 N3
THIS FRI			0	0	-150	-16	-14	12 N3
			+.08	+4	-20	-14	-10	L13 N3
		Tananana dia mandalah	+.10	+5	-10	-14	-5	14N3
THIS			+.10	+5	-45	-14	0	L15N3
AZ	ļ					-		
GE		:						-
A.						-		
						-		
						-		
						-		

A Little Back ground Noise

A LITTLE BACK GROUND, Noise
ALITTLE BACK GROUND Noise
THIS STA, IN CENTER OF Rd TO ILLARBOVE THO
FRIST SWITCHBACK

THIS START TOP Edge of Cut 100Ft Long N-S
EXPOSING SEVERAL VEINS SHOWING MACACHITE
AZURITE COVELLITE + CUPRITE THE VEINS STRIKE
GENERALY N-S AT NEAR VERTICAL DIP
AN VARY FROM 3-12Ft in width.

35-				Pro Lin Fac	ject: Coppe No: NZ ing: MAG	ER Lode		Station: Jim CR. WA. FREQ: 13,6 KHZ Rx_Operator: Coat martz Data: Coat martz Line Oriented: MAA W Station Spacing feet: 50 Fr
STATION No.	IN-PHASE (%)	QUADRATURE_ (%)	SLOPE (%)	IP (%)	IP Spacing	ELEV.	ELEV.	NOTES
LINZ	-20	-14	-50					
LZ NZ .	-18	-12	-35	+2	+.04			Com Prospect Hole
13 NZ	-12	-8	0	+6	+.12			THIS STA ON DUMP FROM PROSPECT HOLE THIS STAIS ME OF 25'NDUMP PROS- PECT HOLE THATS CAVED IN
L4 N2	-15	-10	-25	-3	06			THIS STAIS CAVEDIN
15 N2	- 9	-10	-22	+6	+.12			
16 NZ	-3	-7	-15	+6	+.12	,		THIS STA ON ROL RUNNING E-W THIS STA AT Edge OF Rd Runnin E-W ON N Side of Ridge
17 N2	-2.	-8	-5	+1	+.02			THE STA A F Edge OF Rd RUNNIN E-W
18 NZ	+2	-8	-10	+4	+:08			ON N Side OF Ridge
L/0 NZ	4	-10	-5	-4	08		-	THIS Sta ontop of Ridge
L11 N2	-4	-13	-0	0	0.			THIS STA. Attop of Ridge in FORKet Ruts
112 NZ	-6	-10	-5	-2	04	ANT MILE HELD CONTROL TO A CONT		THIS STA ON TOP OF RIDGE IN FORK OF AND BUTWOUN ILL R-, FALL THIS STA ATTOP OF RIDGE IN FORK OF AND BUTWOUN ILL R-, FALL THIS STA IN ROL TO PROSPECT CUTS THIS STA IN ROL TO PROSPECT CUTS
L13 N2	+2	-8	-5	+8	+.16			11/13 214 12
114 N2	+2	-10	-10	0	0			Transdan of Azoft
1.15 NZ	+5	-/3	-25	+3.	+.06			THIS STA ON N. TOP Edge of Azoft PROSPECT CUT MADE IN CREST OF RIDGE WITH A POZER. THE CUT IS 175 FTOR MORE LONGAS HOWING SEVERAL VEINE BEARING MALACHITE AZURITES
								with A PozeR. THE Cutis 175 Fton
-	1	1				-		MORE LONGASHOWING SEVERAL
								VEINS BEARING MALACHITE, AZURITER
		-						- Covellité , cuprité THE VEINS STRIKE
		-						GENERALY N-S AT NEAR VERTICLE DIP AND WARY FROM 3FT TO 12 Ft wide
	-							

Project: Copper Lode
Line No: N/

Facing: MAG E

FREQ: 18.6 KHZ

RX_Operator: Coat martz

Data: Coat Martz

Line Oriented: Mag N

Station Specing fort: 50 ft

					,	***************************************		Station Spacing feet: 50 Ff
STATION No.	IN-PHASE (%)	QUADRATURE (%)	SLOPE (%)	IP (%)	IP Spacing	ELEV.	ELEV.	NOTES
11 N1	-20	-14	- 40					
LZ N1 -	-18	-13	-37	+2	+.04			
L3 N1	-14	-8	-10	+4	+.08			
124 NI	-9	-9	- 35	+5	+.10	·		
LS NI	-4	-8	-5	+5	+.10		-	
16 N1	-3	- 7	0	+1	+.02			The state of prospect, cut
L7 N1	+5	-6	1-10	+8	+.16			THIS STA AT S TOP Edge OF PROSPECT CUT
18 NI	+3	- 8	-5	-2	04			SHOWING THE DROS pert cut Rynning
19 N/	+3	-6.	-12	0	0			This sta at s. Top edge of prospect cut This sta at s Top edge of prospect cut This sta at spedge of prospect cut runpris This sta at spedge of prospect cut running E-W And Rd.
LID NI	.+3	-4	+10	0	0			
LIINI	0	-7	+10	-3	06	en alternative de la		
L12 N1	0	-/	+5	0	0			
L13 N1	+5	-6	0	+5	+.10			1
L14 N1	+6	-8	-10	+!	+.02	and the same of th		THIS STA CFTSBELOW top of waste pile of over Burden Remove From Ridge CREST.
L15 N1	+10	- 10	- 15	+4	+.08			of over Burden Remove From Ringe
8-		-						CREST.
			1	:				
						and the second s		

Project: CopeER Lode
Line No: BL
Facing: MAG E

Station: J:mCR. WA.
FREQ: 18.6 Kdz

Rx_Operator: CoRf MARTZ

Data: CoAt MARTZ

Line Oriented: MAG N

Station Spacing feet: 50Ft IN-PHASE QUADRATURE SLOPE IP IP STATION ELEV. ELEV. NOTES No. (%) (%) (%) (%) Spacing BL1 - 35 -25 -25 - 16 - 10 -30 +9 +.18 BL3 -25 +.08 +4 -12 -12 -8 B64 -5 -18 +.14 This sta At crest of Ridge
This sta At crest of Ridge BL5 - 3 -6 -10 +2 +.04 B66 +5 -4 +8 0 +.16 BL7 BL8 BL9 -8 +8 +3 +.06 +10 0 0 +2 +.04 +11 +2 +10 +1 +.02 BL10 + 8 +2 +25 -.06 BL 11 +6 +20 -2 -,04 BLIZ -4 +5 +20 - 1 -.02 BL13 -5 +5 +5 0 0 THIS STA AT BOTTOM OF WAST PILE + -5 BL 14 -5 +14 +.18 +9 BL15 -6. +20 0 +10 +.12 Ridge to Expose Copper Bearing Veins (SEVERAL) SHOWING MALACHATE, AZURITE CONGLETER CUPRITE Project: Copper Lode
Line No: 51

Facing: MAGE

Station: J:MCR. WA
FREQ: 18.6 KH2
Rx_Operator: CoRT MARTZ

Data: CORT MARTZ
Line Oriented: MAG N
Station Spacing feet: 50 Ff

STATION No.	IN-PHASE (%)	QUADRATURE_ (%)	SLOPE (%)	IP (%)	IP Spacing	ELEV.	ELEV.	NOTES
11 51	-27	-17	-35					
L2 51 .	-12	-9	-30	+15	+,30			
43 51	-12	-10	-20	0	0			
L451	+2	-4	-10	+14	+.28			
1551	+13	+5	- 5	+11	+.22			THIS ST
L651	+ 28	+8	+30	+7	+.14			
4751	+22	+5	+20	+2	+.04			
18 51	+18	+5	0	-4	08			THIS :
19 51	+17	+5	t20:		-,02	there and property		
110 51	+12	+4	+30	-5	10			THIS S
L11 51	+8	-1	+40	-4	08			
112 51	+7	-7-	+20		02			
L13 51	+13	-2	+20	+6	+:12	es han des rights promitted and the second s		
61451	+23	-4	+15	+10	+.20	The same of the sa	300000000000000000000000000000000000000	1
L15 51	+25	-7	+15	12	+.04			1
		-	- Andrews - Annal of the control of					
		-				nace of a province contribution of the Majorite design and Distribution of the		1
						er respective and the state of		-
				-				
		1						-

1	
-	THIS STO At S, Edge of Rd of Ridge CREAT
4	
-	THIS STA SO' BELOW Ridge CREST ON SSID. THIS STA LOFT BELOW S Edge of Rd REFALLER.
-	THIS STA 10FT BELOW 5 Edge of Rd To FALLER.

Project: Copoer Lode
Line No: 52

Facing: MAGE

Station: Jim CR. WASK
FREQ: 18.6 KH2
RX_Operator: Coot MART2
Data: Cort MART2

Line Oriented: MAG N Station Spacing feet: 50 F

OUADRATURE SLOPE IP IP STATION IN-PHASE ELEV. ELEV. NOTES (%) (%) (%) (%) No. Spacing -35 -22 - 14 61 52 LZ 52 -32 -12 - 10 +.20 +10 +.20 - 2 - 5 +10 13 52 -5 +13 +4 +.30 L4 52 +15 15 52 +35 +8 +.16 +21 +14 +50 16 52 + 9 +.02 +22 + 1 L7 52 +28 +9 +40 +6 +.12 L8:52 +15 122 +4 -6 -.12 19:52 +20 + 4 + 15 -2 -.04 L10 52 +15 +5 +40 -5 -.10 +/2 - 3 411 52 +1 +30 -.06 112 52 +12 -2 +25 0 0 +23 + 30 413 52 -2 +11 4.22 +26 -3+10 L14 52 +3 4.06 115.52 - 3 +15 +23. -10 -.06

-39-

THIS STA AT Edge of Roat CREAST OF Ridge
THIS STA ON S. Side OF Ridge

THIS STA ON N Edge OF Rd TO FALL CR.
THIS STA ON S Edge OF Rd TO FALL CR

Project: Copper Lode
Line No: 53
Facing: MAG E

Station: Jim GR. WA.
FREQ: 18.6 KHZ, Rx_Operator: coet mar Data: cort martz Line Oriented: magnotic

			-					Station Spacing feet: 50 8
STATION No.	IN-PHASE (%)	QUADRATURE (%)	SLOPE (%)	IP (%)	IP Spacing	ELEV.	ELEV.	NOTES
1153	-18	-14	-35				1.	
L2 53 .	-12	-9	-35	+6	+.12			
43 53	-5	-6	-25	+7	1.14			
L4 53	+16	+11	+25	+21	+.42			THIS STA ON S. Side of Ridge
15 53	t: 24	+13	+40	+8	+.16			
1453	+23	+ 11	+40		02			This sta NEAR Middle of Rd To FALL CR.
67 53	t22	+7	+40	-1	02			THIS STA NEWR MINGLE
LB 53	725	+5	0	+3	+.06			
19 53	+28	+7.	+17	+3	+.06			L . The AF Rd to FALL BR,
L10 53	+18	+4	+33	-10	20			THIS STA At N EdgE OF Rd to FALL ER, THIS STA At S
LII 53	1+17	0,	+30	-1	02			THIS STA AC
6/2 53	+15	-1	+20	-2	04			
L13 53	+30	-2	+30	+15	+.30	***************************************		THIS STAINT S. Edge of Rd TO FALLER. NEAR ESWITCH BACK SWITCH BACK OF THIS STAINT W CENTER OF SWITCH BACK OF Rd TO FALL CR. ALSO IT IS ZOFT WEST RD TO FALL CR. ALSO IT IS ZOFT WEST
L14 53	+29	-4	+20		02	T Marce Stranger		NEARESWITCH BACK switch BACK
L15 53	+25	-10	+ 10	-4	08		-	This sta At we can also it is ZOFT WEST
			-				-	Ad to FAIL CR. ALSO IT IS ZOF dit
-					-			
		1						
					1			
with the second second second		Name and Address of the Owner, where the Party of the Owner, where the Owner, which is t	-	-		The state of the s	-	

-41-

Project: CoppeR Lode
Line No: 54
Facing: MAGE

Station: J:m CREEK

FREQ: 18.6 KHZ

Rx_Operator: 6 Rt MARTZ

Data: 6 Rt MARTZ

Line Oriented: MAG N

Station Spacing feet: 50 Ft

								Data: CORT MART
	- 4 1	34.5						Line Oriented: MAG N
		T						Station Spacing feet: 50 Fr
STATION	TN-PHASE	QUADRATURE	SLOPE	IP	IP			NOTES N-5 IN SEPERAL VEINS THE PARSFELL HOLES PARSFELL HOLES
No.	(%)	(%)	(%)	(%)	Spacing	ELEV.	ELEV.	NOTES N-S IN SEVERAL VEINS THE
1100	(10)	(%)	(70)	(70)	D Pacing			Parsical Holds
1154	-5	-8	-20					This Sta. 150 Ft N. of prospect Hole showing
L2 54	-9	-10	- 15	-4	08			19.5 sta. At S. Edgs of Rd At Top O Ridge
No amount of the control of the cont		+8	-5	+11	+.22			THE Rd. AN CREAST OF Ridge Run Gan. E-W
L3 54	+2							THIS STAB! BELOW CREAT OF Kidge 10 300
6454	+20	+10	+40	+18	1.36			A prospet Hole Showing Cuparte
L5 54	+25	+13	+45	+5	t.10			THIS STA BOFT CASE CUPRITE, COVELLITE, CHALCOPYRITE
L6 54	+26	+13	+50	+1	+.02			This sta. 450 ft N. of prospect Hole showing MALACITE + AUZ RITE + CUPRITY Aff. STA. At S. Edge of Rd AT TOP O Ridge THE Rd. AN CREAST of Ridge Run Gon. E-W THIS STA B' Below CREAST OF Ridge 10' SOF A prospet Hole Showing cuprite A prospet Hole Showing cuprite A prospet Hole Showing cuprite This sta zoft EAST OF Aprospest Hole Showing THIS STA ZOFT EAST OF APROSPEST HOLE SHOWING THIS STA ZOW. OF ABOVE THIS STA AT SWITCH BACK CORNER OF Rd. THIS STA AT SWITCH BACK CORNER OF Rd.
L7 54	+27	+9	+10	+1	+.02			Tille the At Switch DACA COMMON
L8 54	+30	+10	+10	+3	+.06			L D A RELACI
L9 54	+28	+9	+20	-2				THIS STA ON S Edge of Rd BELOW THIS STA ON S Edge of Rd BELOW THIS STA LOFT NOF RD TO FALL CR BELOW ZNd. Switch BACK
	CORP. Prich at an internal control of the control o	-			04	- Maria Caracteristic de la constantina del constantina de la cons	-	TIS SWITCH DAER OF RES TO FALL CR BELOW
110 54	+23	+5	+30	-5	10			2 Nd. Switch BACK
L11 54	+20	0	+30	-3	06	Annan cultural designation of the second		-
42 54	+23	-1	+30	+.3	+.06			1 control Ray K to FALL CR.
L13 54	+24	-2	+30	+1	1.02			THIS STN ON RA PAST SEC SOUTH BACK to FALL CR.
L14 54	t25	7	H0	+1	+.02			7
L15 54	+28	-10	0	+3	+.06			THIS STOOD Dump from SOFT EAVED Addit
					7.11	,		SOF 2Nd. Switch BACK.

		1			-			
					-			
	:							
	:							



1275 Kleppe Lane, #5 Sparks, Nevada 89431 Telephone: (702) 331-3600

Report of Analysis

Submitted by: Mining Enterprises

P.O. Box 914

Arnold, CA 95223

Attn: Roy Cornelius

Date: May 15, 1981

Laboratory number: 128-3

Analytical method: A.A.

Your order number:

Report on:

Cu

Invoice number: C735

Sample	<u>Cu (%)</u>	
W #1 W #2	27.30 10.30	
W #3 W #4	0.85	
W #5 W #6	33.40 1.63	
W #7 W #8	1.16 0.43	
₩ #9 ₩ #10	1.02	
W #11 W #12	11.00	
W #13 W #14	0.33	
W #15 W #16	13.50 2.54	
W #17 W #18	28.10 3.93	
W #19 W #20	1.80	

Gustofson Laboratory Manager

Note: All Samples Should be Run Electrolytically.

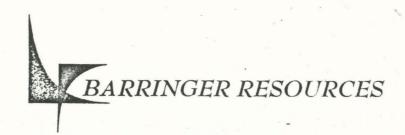
ppm = Parts per million **Percent** = Parts per hundred

1 oz/ton = 34.286 ppm1.0% = 20 pounds/ton

Oz/ton = Troy ounces per ton of 2000 pounds avoirdupois

Fineness = Parts per thousand

1 ppm = 0.0001% 1 ppm = 0.029167 oz/ton Read + as "greater than." Read - as "less than."



AUTHORITY: A. R. CORNELIUS

27/APR/81 PAGE 1 OF 1 WORK ORDER # 152R-81

MINING ENTERPRISES
P.O.BOX 914
ARNOLD, CALIFORNIA 95223
ATTN:A.R. CORNELIUS

FINAL REPORT

GEOCHEMICAL LABORATORY REPORT

SAMPLE ROCK	TYPE:	ASSAY FIRE ASSAY AG	ASSAY FIRE ASSAY AU	CU	23.005 7
SAMPLE GP ·	NUMBER	OZ/TON	OZZTON	PPM	ave. 201.
	18	ND	T	*%22.8	ac
	28	.12	T	*%4.33	
	35	N D	.012	*%19.6	
	4 N	I S	I S	*%63.	
	51	N D	.084	*%51.3	
	6N	.14	.016	*%13.	

*P=QUESTIONABLE PRECISION; *I=INTERFERENCE; *%=POSTED AS %; T=TRACE; ND= NOT DETECTED; NA=NOT ANALYZED; IS=INSUFFICIENT SAMPLE; MS=MISSING SAMPLE COMMENTS:

JAMES R. LEE

REDVICES EOR THE EXPTH AND ENVIRONMENTAL COLEMO



AUTHORITY: RAY CORNELIUS

15/MAY/81 FAGE 1 OF 1 WORK ORDER # 231R-81

MINING ENTERPRISES P.O. BOX 914 ARNOLD, CALIFORNIA 95223

FINAL REPORT

GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: ROCK CU SAMPLE NUMBER B .73 2 37.1 3 3.75 4 2.03 5 14.4 3.15 7 4.25 11.3 1. 9 2.46 10 1.59 11 12 27.2 .12 13 15 + 6 16 6.1

COMMENTS:

BY CAMES R. LEE

6.94%

20.2%

6.78%

15.2%

1.99%

			pom
Sample	No.		Copper
R-1			0.98%
R-2			0.96%
R-3			5.86%
R-4			21.6%
R-5			1.41%
R-6			0.44%
R-7			9.97%
R-8			4.39%
R-9			450
R-10			1.39%
R-11			12.1%
R-12			3.71%

FLOY A. BEECHER

R-13

R-14

R-15

R-16

R-17

to Lea France - Thank You -FUNITUEL 400'LONIG-260' OF CROSSCOTS. NO SIGNS OF ANY ORE! Bud. WALLROCKS Z 967 ROAD FAILL CREE

JOSEPHINE COUNTY Fall Geek Copper (United Copper - Gold Mines) See 4, T385, R9W Swall brains massive chelopyrik and pyrihotik in serpentine near a greenstone contact, to us in July, 'st by Bud Cornett who wer has the claims. Bith Ranchers Explination and American Seles have turned it down because of Me envisonmental difficulties

that would arise it any attempt were made to establish a mining operation along this portion of the Illinois Pine start (see allated correspondence), No suferest (or very little) boson due to adverse environmental consideration NoL/in Bull. 61. In addition, part of the area claimed by Cornell has been apparently has been will drawn from mineral entry,

Josephine County, Oregon

LOCATION:

The Fall Creek Copper Mine is situated on Fall Creek at the base of Copper Mountain, twenty-eight miles southeast of Grants Pass, Oregon.

The location is in Sec. 4, R.9 W., Ts 37 N.

The property is reached over the main Redwood Highway from Grant's Pass to Selma, a distance of 12 miles, thence for a distance of sixteen miles over a good dirt road which is kept up by the Forestry Service and is now in use for hauling chrome ore from the extensive chrome deposits in the vicinity of the copper property.

AREA:

The Fall Creek property consists of 11 unpatented claims, each a full claim of twenty acres, 600 X 1500 and comprising a total of 120 acres.

The claims are as follows:

Fall Creek Claim No. 1
Fall Creek Claim No. 2
Fall Creek Claim No. 3
Fall Creek Claim No. 4
Fall Creek Claim No. 4
Fall Creek Claim No. 5
Fall Creek Claim No. 6

(Evidentally 5 claims were located and added after this report was made)

The claims extend on both sides of Fall Creek and up and over the slopes of Copper Mountain.

TITLES:

The claims are not patented but are held by right of location and all assessment work has been properly done and the Proof of Labor properly recorded. These location notices are recorded in the office of the County Recorder at Grant's Pass, Cregon-the County Seat of Josephine County and are open for inspection at any time and these have been verified by the writer.

HISTORY:

The copper ores of this locality have attracted attention for many years. Early in the sixties of the last century a small furnace was located on the south of Anchroite Creek and a small furnace was built on Fall Creek in 1894 and the matte was packed out thirty miles across the mountains to the coast. Owing to difficulties of transportation it is stated that it was not a commercial success and the price of copper was much lower than it is at present.

In 1899 several hundred tons of ore were packed out to Selma and shipped to Grant's Pass and thence on to the smelter of the Americam Smelting & Refining Company at Tacoma, Washington, where it was smelted at a good profit. The mine has been idle for several years until the present owners acquired it and since then considerable development has been done, all by tunnel and approximately all in ore.



GEOLOGY:

The veins of this property are contact veins lying between Greenstone and Serpentine. The Greenstone is an ancient volcanic mass, a mixture of lava flows and tuffs of the mesozoic age and are greatly altered. The fragmental character, though not a permanent feature, may be clearly see in close examination of the clean ore exposure near the mouth of Fall Creek where the rock is made up of many lapilli.

The Serpentine is an altered Saxonite, evidentally of a later eruption than the Greenstone with which it is in contact.

ORE AND VALUES:

The ore minerals are Chalcopyrite and Pyrrhotite generally more or less inter-mingled and either may be most abundant. Malachite is rare. In some places the Pyrrhotite appears in small streaks in the Chalcopyrite. The ores formerly produced were in the Serpentine near the contact with the Greenstone. It is possible that some ore occurs in the Greenstone but the greater portion appears to belong to the Serpentine.

From records of numerous assays formerly taken it is determined that the average value of the ore is approximately 18% copper.

A dark gossan stained with copper carbonate is underlaid by ore at about fifteen feet in depth carrying the average copper value and about \$4.00 in gold with a fraction of an ounce in silver.

Based on numerous samples, the assay certificates are not available at this time but which are considered authentic, the average value in copper is approximately 18% although there were many higher than that. In addition there is about \$4.00 in gold.

Various samples taken by the writer were segregated into two composite samples which were sent for analysis to the smelters of the American Smelting and Refining Company. at Salt Lake City and to Tacoma, Washington respectively. The results of these samples are used as a basis of the calculation of averages of copper values and of the final results shown later in this report.

The results of these samples are as follows: American Smelting & Refining Company., Salt Lake City plant:

Gold 0.11 OZ. 0.40 Silver OZ. 9.87% Copper American Smelting & Refining Company., Tacoma, Washington 0.17 oz. Gold Silver 1.11 oz. Hone Lead Copper 10.879 Arsenic 0.39% Antimony Kone 2.60% Silica 43.60% Iron Lime 1.10% Sulphur 31.10% Alumina 0.50%

The high iron and sulphur content is noticeable and is an important factor in obtaining a low smelting charge.

It will be noted that the two samples sent to the smelters checked very close as to copper and gold content. These were composite samples.

It has been determined that the sample taken from the lower level of No. 1 Tunnelis of better grade than any samples taken at upper levels which would indicate that the deeper ores are of a better grade.

DEVELOPMENT:

The development of this property is almost entirely by tunnel, there being a total of approximately over 1000 feet in the various tunnels, all of which is in ore. This tunnel development assures a minimum of ore production cost.

Fall Creek flows between No. 1 and No. 3 tunnels. No. 3 tunnel is about 30 feet from the creek and No. 1 is about 100 feet.

No. I tunnel is in approximately 125 feet from the portal and a 5 foot vein of high grade ore is exposed and extends down to what is known as the old 40 foot level and the ore continues on from that level for a distance of 55 feet.

Ore is showing in the face of this old 40 foot level and the extent of this ore shoot has not been determined.

No. 3 tunnel is in approximately 500 feet and cuts numerous veins of heavy sulphide ore. This tunnel was driven principally for exploration purposes but it is reported that 1000 tons of ore are exposed in the workings and ready for extraction. This tunnel was inaccessible when this examination was made.

The tunnels are not all on one claim but wherever work has been done on any of the claims the same character of ore has been found and all of commercial grade. The tonnage so far indicated will be greatly increased by additional development according to all indications, for all the veins are very strong and persistent.

Tunnel No. I -- Driven for a distance of 125 feet with an inclined winze at a point 75° from the portal and extending down for 40°. From the bottom of this winze a drift has been run for a distance of 55° into the mountain, all in ore. Projected development of this tunnel for a distance of 420° will reach a point approximately 600° vertical distance below the apex of the mountain, thereby giving a large amount of stoping ground.

Tunnel No. 2-- Driven into the mountain for a distance of 40' and has a vertical depth of about 40'.

Tunnel No. 3-- Extends for a distance of 500° on the opposite side of Fall Creek from No. 1 Tunnel. At a point 125° from the portal a crosscut was driven N*E for 170° and another crosscut S-W for 40°.

Tunnel No. 4---Driven for a distance of 20' at a point 125' below No. 2 Tunnel and is all in ore.

Tunnel No. 5---Extends for a distance of 60° in ore and approximately 125° below the apex of the mountain.

In addition to the above there are numerous open cuts and short tunnels driven to show the ore and expose its continuity.

The total development consists of the following:

		Tunnel	125	feet.
No.	1	Winze	40	11
No.	1	Lower Drift	66	. 12
No.	3	Tunnel	500	11
No.	3	Crosscut N-E	170	11
No.	3	ITITITIT S-W	40	11
No.	4	Tunnel	16	11
No.		Tunnel	60	11
No.		Tunnel	40	11

1057 Feet

EQUIPMENT & IMPROVEMENTS

There are no equipment nor improvements on the property at this time.

The equipment required for successful operation of this mine consists of the usual mining equipment required in the practical and extensive operation of a property of this character.

The principal equipment that is required is a compressor, Jackhammers, pipelines for air and water, steel, ore bunkers, track, cars and miscellaneous small items along tool lines, a small amount of road building is required which can easily be accomplished with a bull-dozer. Also small cabins and camp accomodations for the workmen, mess house and combination office and living quarters. Ore hauling to the railroad will be done by contract which can easily be arranged for. THE FACT THAT ALL THE ORE PRODUCED FROM THIS PROPERTY IS OF SHIPPING GRADE ELIMINATES THE NECESSITY FOR AN EXPENSIVE MILL OR REDUCTION WORKS AND THE CONSEQUENT COST OF SUCH AN OPERATION.

WATER AND TIMBER

There is an all year flow of water in Fall Creek sufficient for all camp and mining requirements as well as for water power if desired. There is also an abundance of timber for mining and other purposes.

ESTIMATED TONNAGE

The block of ground from the bottom of the winze in No. 1 tunnel located on No. 1 claim and up to No. 5 tunnel, located on No. 5 claim is estimated at approximately 10,000 tons of proven ore.

This is of the same character and grade as the ore exposed in Tunnels No. 3, 4, and 5 which are short tunnels and the vertical distance from No. 1 to No. 5 tunnel is estimated at about 600.

No. 3 tunnel has a reported 1000 tons of ore available. Various other workings and ore exposures may safely be estimated at another 1000 tons. It must be remembered that this is a very heavy sulphide ore running only about eight cubic feet per ton.

It must be understood that the above tonnage is not actually blocked out on 4 sides, but is proven and probable ore shown in various ore exposures over a considerable lateral distance and can be measured up at various points and can be depended upon to give approximately the tonnage reported.

Since the above estimate was made as shown and stated in the former report a revised estimate of the available tonnage based on a more recent calculation shows approximately 16,400 tons. There is an additional estimated probable tonnage of 15,000.

The above indicated tonnage is only a limited portion of that which may eventually be developed in the Fall Creek property.

RODUCTION COSTS

The cost of production of copper ore from this property as indicated in the following conservative estimate.

Mining (including supervision) \$5.00 per ton Truck transportation to railroad 3.23 " " Railroad transportation to Smelter 6.59 " " (This is a maximum charge and based on ore valuation of \$100.00 per ton or more.

Lower rates are applied to lower grade ores) Smelter charges \$4.50 Fixed charges, taxes, insurance .60

Total costs \$19.90

A certain amount of open pit mining will be done with bull-dozer and power shovel and this will materially reduce mining costs in that area, as long as that type of mining can be done.

Not over six men will be required at the beginning of operations and those will be used on preliminary work which must be conducted prior to actual production of ore. It is estimated that about 6 weeks will be required to install machinery and establish the camp and prepare to mine for actual breaking of ore.

When the above is accomplished then the work will be devoted to ore production and to development ahead of production which must be done in order to keep ore reserves always ahead of current requirements. At that time the force will not need to exceed twelve men and at that time there should be an output of from 250 to 350 tons per week to be gradually increased as conditions warrant.

Eventually sinking on the ore body below No. 1 tunnel will be prosecuted and at that point the largest ore body is now exposed and where the highest grade of ore has been found. Ore production will commence immediately upon the completion of the installation of the equipment and machinery necessary for the operation and the completion of camp accommodations.

ALL THE ORE PRODUCED WILL BE OF SHIPPING GRADE to the smelters of the American Smelting and Refining Company at Tacoma, Wash.

Estimated cost of machinery and equipment is approximately \$12,000.00 Estimated payroll for first 60 days is \$6000.00 which includes supervision and all fixed expenses, such as taxes, insuran etc.

Therefore an operating capital of \$25,000.00 should be made available when operations are started and this should easily provide for any unforseen emergencies.

However, ore shipments should be made within the first ten or twelve weeks and returns from such shipments be received within the next ten days thereafter. Therefore at that time it is conservatively estimated that the property should be on a self supporting and profitable basis and the original investment provided should not be entirely exhausted.

RECOMMENDATIONS:

It is recommended that the ground be prepared at once for open pit mining in thearea designated as such indicated on claim No. 2. There is practically no overburden to remove.

At the same time recondition No. 3 tunnel for extracting the 1000 tons of ore known to be available in this working and at the same time continue development of ore reserves in these workings.

It is recommended that sinking be continued on the ore body showing in No. 1 tunnel and also continue to drift at that point to furnish the stoping ground indicated which would give several hundred feet of backs.

There are numerous other ore exposures to be developed whenever conditions warrant doing so.

Respectfully submitted
(Signed) E. H. Crabtree, Sr

Sonora, California December 1, 1950

Conied by C. H. Tuller, Assayer-Chemist 1336 York St Denver 80206 Engineer Crabtree--was well known STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building - Portland, Oregon 97201

REQUEST FOR SAMPLE INFORMATION

The State law governing free analysis of samples sent to State Assay Laboratories requires that certain information be furnished the laboratory regarding samples sent for assay or identification. A copy of the law will be found on the back of this blank. Please fill in the information requested completely, and submit it along with your sample. Keep a copy of the information on each sample for your own reference.

Keep a	Keep a copy of the information on each sample for your own reference.										
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	the following rules and regulations and subject to the following restrictions:										
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Location of property or source of sample. (If legal description is not known, give location with reference to known geographical point.)											
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RECORD IDENTIFICATION

RECORD NO...... MO60587
RECORD TYPE..... X1M
COUNTRY/ORGANIZATION. USGS

DEPOSIT NO..... DDGMI 100-279

MAP CODE NO. OF REC ..

REPORTER

NAME JOHNSON, MAUREEN G.

UPDATED..... 81 04

BY (BROOKS, HOWARD C.)

NAME AND LOCATION

DEPOSIT NAME..... FALL CREEK COPPER

SYNONYM NAME...... UNITED COPPER

COUNTRY CODE..... US

COUNTRY NAME: UNITED STATES

STATE CODE..... DR

STATE NAME: DREGON

COUNTY JOSEPHINE

DRAINAGE AREA....... 17100311 PACIFIC NORTHWEST

PHYSIOGRAPHIC PROV. 13 KLAMATH MOUNTAINS

LAND CLASSIFICATION 41

QUAD SCALE QUAD NO OR NAME

1: 62500 PEARSOLL PEAK

LATITUDE LONGITUDE

42-17-44N 123-46-03W

UTM NORTHING UTM EASTING UTM ZONE NO

4682676.0 436734.5 +10

TWP 385

RANGE ... D9W

SECTION .. 04

LOCATION COMMENTS: MOSTLY WITHIN A WILD AND SCENIC RIVER CORRIDOR

COMMODITY INFORMATION

COMMODITIES PRESENT..... CU AG AU

PRODUCER(PAST OR PRESENT):
MAJOR PRODUCTS.. CJ

DECOUNTERET SESSES TA MT

DRE MATERIALS (MINERALS, ROCKS, ETC.): CHALCOPYRITE, PYRRHOTITE, MALACHITE

ANALYTICAL DATA(GENERAL)
HIGH GRADE SAMPLE ASSAYED 0.16 DZ/TON AU; 0.25 DZ/TON AG; 0.80 % ZN; 0.31 % NI; 23.0 % CU

STATUS OF EXPLOR. OR DEV. 4

DESCRIPTION OF DEPOSIT

DEPOSIT TYPES:
MASSIVE SULFIDE
FORM/SHAPE OF DEPOSIT:

SIZE/DIRECTIONAL DATA

SIZE OF DEPOSIT..... SMALL

MAX LENGTH...... 600 FT

MAX WIDTH..... 12 FT

STRIKE OF OREBODY.... N10-15W

DIP OF DREBODY..... 70E-704

COMMENTS(DESCRIPTION OF DEPOSIT):

THREE MINERALIZED ZONES

DESCRIPTION OF WORKINGS SURFACE AND UNDERGROUND

COMMENTS(DESCRIP. OF WORKINGS):
ABOUT 1000 FEET OF DEVELOPMENT WORK IN TWO TUNNELS.

PRODUCTION
YES
SMALL PRODUCTION

ANNUAL PRODUCTION (ORE, COMMOD., CONC., OVERBURD.)

ITEM ACC AMOUNT THOUS.UNITS YEAR GRADE, REMARKS

1 DRE EST 0000.400 TONS 1899

2 DRE EST 0000.025 TONS 1956 18 % CU

CUMULATIVE PRODUCTION (ORE, COMMOD., CONC., DVERBUR.)

ITEM ACC AMOUNT THOUS.UNITS YEAR GRADE, REMARKS
15 ORE EST 0000.425 TONS 1899, 1956
23 CU, DCCUR CU

RESERVES AND POTENTIAL RESDURCES

TITEM ACC AMOUNT THOUS.UNITS YEAR GRADE OR USE

1 DRE EST 0145.000 TONS 1973 1.8 % CU

GEDLOGY AND MINERALDGY

AGE OF HOST ROCKS JUR

HOST ROCK TYPES..... GREENSTONE AND SERPENTINE

IGNEOUS ROCK TYPES..... SERPENTINE

LOCAL GEOLDGY

SIGNIFICANT ALTERATION: GOSSAN, TRACE OF NI FOUND

COMMENTS (GEOLOGY AND MINERALOGY):
MASSIVE SULFIDES, MOSTLY CHALCOPYRITE AND PYRRHOTITE, DCCUR AS LENSES IN GREENSTONE AND SERPENTINE.

GENERAL REFERENCES

- 1) RAMP, L. AND PETERSON, N.V., 1979, GEOLOGY AND MINERAL RESOURCES OF JOSEPHINE COUNTY, OREGON; DDGMI BULL. 100
- 2) CLOSE, T., AND RAMP, L., 1973, MINERAL RESOURCES OF THE ILLINOIS RIVER BASIN, OREGON; USBM UNPUBLISHED REPORT 3) OREGON METAL MINES HANDBOOK. 1942. ODGMI BULL. 14-C. VOL. 2. SEC. 1. P.148

From Nov. 1955 Ore-Bin.

FALL CREEK COPPER MINE REOPENED

The Fall Creek Mining Company, Inc., has leased the United Copper Gold Mines Co. property from J. A. Phillips of Grants Pass. The new company was formed by Morris Herman, Max Frohwirth, and Leon Lutz, all of New York. Earl White of Grants Pass is the general manager.

The mine is located in sec. 4, T. 38 S., R. 9 W., on Fall Creek in Josephine County. Metavolcanics of the Galice formation of Upper Jurassic age and serpentine comprise the country rock. The ore is chalcopyrite and pyrrhotite with some silver and gold. Phillips reports assays as high as 24 percent copper and averaging about 15 to 20 percent. The earliest work reported at the property was in 1894 when a small smelter was built. Several years later, ore was hauled to Selma by mules, then shipped to Grants Pass and Tacoma.

The new company has built offices, a camp, $2\frac{1}{4}$ miles of road, and a low-water bridge across the Illinois River. Exploration and mining programs are now being carried on. To date, two drifts have been opened and one 20-ton lens of chalcopyrite extracted. The company expects to clean out about a thousand feet of old workings and begin a diamond drilling program soon. It also plans to build a mill on the mine property and ship concentrates to the Tacoma smelter.

Jean W. Pressler, Grants Pass, shipped 25 tons of copper from the Fall Creek mine to the Tacoma Smelter in September 1956. The mine is located on Fall Creek, a tributary of the Illinois River, in sec. 4, T. 38 S., R. 9 W., Josephine County. The mine was reopened in 1955 and the ore, a massive chalcopyrite, was mined during the winter 1955-56. It was hauled to the smelter by Dean Axtell Trucking Company.

1956

OWNERS OF VALID CLAIMS CAN PROTECT SURFACE RIGHTS

The date of the first public advertisement (Notice to Mining Claimants) on land determinations is the official date after which the surface rights of the claim may be contested by the Forest Service or the Bureau of Land Management. If a claim is proved invalid, the management of the surface resources comes under the jurisdiction of the Government agencies, according to Public Law 167 (see Ore.-Bin, August 1955 and April 1956). The only way a mining claimant can hope to protect his rights to the surface resources on his property is to file with the Bureau of Land Management a verified statement (a statement under oath) setting forth certain facts about his claim. Failure to file such a statement within 150 days of the first notice shall:

- 1. Be considered conclusive evidence that the mining claim owner waives and relinquishes any right, title, or interest under such mining claim as regards the surface rights.
- 2. Constitute a consent by the mining claimant that the mining claim shall be subject to the limitations and restrictions of Public Law 167.
- 3. Precludes thereafter any assertion of such mining claimant of any right, title, or interest in the mining claim contrary to or in conflict with Public Law 167.

After the mining claimant files a verified statement with the Bureau of Land Management, a mineral examiner will be sent to the mining claim to determine whether the claim should be recognized as valid. If the claim is found to be clearly valid and effective, the owner of the mine may conduct his operation as if Public Law 167 had never been passed. If, on the other hand, the Government doubts the validity of the mining claim, a hearing will be arranged by the Department of the Interior to be held in the county where the claims are located, unless the mining claimant agrees otherwise. The hearing will determine whether the mining claim is valid and effective or invalid and ineffective. Claims declared invalid and ineffective will have their surface subject to management and disposition by the Government bureaus.

FREE FORMS AVAILABLE FOR MINING CLAIMANTS

The Department is distributing free of charge two forms (Nos. 3 and 4) to assist persons owning mining claims on public lands investigated by the Forest Service or the Bureau of Land Management under Public Law 167. The two forms apply only to unpatented mining claims located before July 23, 1955.

Form No. 4 is a request by the mining claimant for a copy of the Government's notice that land determinations have been made in the area where his claims are located. In order to be sure of receiving the Government bureau's "Notice to Mining Claimants," Form No. 4 should be filed with the County Recorder in the county where the mining claim or claims are located.

Form No. 3 is a verified statement by the mining claimant who wishes to keep the surface rights to his claim the same as before passage of Public Law 167. Form No. 3 is filed in response to the Government bureau's published "Notice to Mining Claimants" that land determinations are to be made. The Notice is published in a newspaper having general circulation in the county in which lands involved are located. If in a daily paper, the Notice will appear in the Wednesday issue and every Wednesday thereafter for nine weeks; if in a weekly paper, the Notice will appear

down the Illinois River from Selma.

no.11

in nine consecutive issues; if in a semiweekly or a triweekly paper, the Notice will be in the issue of the same day of each week for nine consecutive weeks. Form No. 3 must be filed with the Bureau of Land Management, Department of the Interior, 1001 N.E. Lloyd Blvd., Portland 8, Oregon, within 150 days from the date of the first advertisement of the Notice. Anyone who fails to file a verified statement automatically forfeits to the Government the right to manage the surface resources of his claim.

SOUTHWEST OREGON MINING NEWS

A 46-ton pod of massive chromite ore measuring 6 by 8 by 10 feet was recently taken out of the Lucky Hunch chromite mine by the owners, Fred Langley and C. W. Dean of Grants Pass. This pod is reported to be the largest chunk of chrome ore ever mined out in one piece in Oregon. Another large pod lies immediately south of the 46-ton pod, and other smaller ones are known to be present. Returns from the first shipment of ore to the Grants Pass depot in October averaged nearly 45 percent Cr_2O_3 . The discovery was made a few months ago as the result of excavation by bulldozer of an area where massive chromite float had been found. The owners are enlarging the open cut and have built about 350 yards of road to the cut. The property is located in the SE_4 sec. 33, T. 37 S., R. 9 W., in Josephine County, about 10 miles

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NORTHWEST CERAMIC INDUSTRY AND RESOURCES REVIEWED

"Ceramic industry development and raw-material resources of Oregon, Washington, Idaho, and Montana," by H. J. Kelly and others, has been published by the U.S. Bureau of Mines as Information Circular 7752.

The publication summarizes the present ceramic industries and raw-material resources for each of the four States, and is intended as a guide to future development of the industry in the light of an increasing market for ceramic products and availability of natural gas to a large portion of the Northwest. The report reviews the sources of clay, feldspar, expanding shales, and other ceramic as well as refractory materials by counties for each State. Included are illustrations and index maps showing location of deposits and ceramic plants.

Information Circular 7752 is available free of charge from: Publications Distribution Section, U.S. Bureau of Mines, 4800 Forbes Street, Pittsburgh, 13, Pennsyl vania.

RECORD ON ROGUE RIVER WITHDRAWALS STILL OPEN

A public hearing was held November 20 in Grants Pass on the proposed withdrawal of 23,000 acres of public land along the Rogue River from mineral entry. In addition to oral testimony from 18 witnesses, about 20 written statements were entered on the record. Mr. Virgil T. Heath, State Supervisor of the BLM, conducted the hearing and announced that the record would remain open until December 6 for additional written statements. Testimony should be sent to State Supervisor, Bureau of Land Management, 1001 N.E. Lloyd Blvd., P.O. Box 3861, Portland 8, Oregon.

November 1955

Portland, Oregon

STATE OF OREGON

DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
Head Office: 1069 State Office Bldg., Portland 1, Oregon

Telephone: CApitol 6-2161, Ext. 488

Field Offices

2033 First Street Baker 239 S.E. "H" Street

Grants Pass

DOMESTIC MINERAL POLICIES PROPOSED

Spokesmen representing all phases of western mining met November 7 and 8 in Sacramento, California. Their purpose was to formulate mineral policy recommendations that would insure a domestic mining industry sufficient to meet the needs of the United States in the event foreign supplies of minerals were cut off. The conference, called by Governor Goodwin Knight of California after consulting with Governor Charles Russell of Nevada, had as its nucleus members of the Western Governors Mining Advisory Council.

After a general session the meeting was divided into sections on mineral economics, taxation, lands and water, research, and public information. The mineral economic section was further divided into the following committees: antimony, chrome, lead – zinc – silver, copper, gold, manganese, molybdenum, quicksilver, tungsten, uranium – vanadium, rare earths – thorium, aggregates – clay – talc, asbestos, cement, coal, phosphates, potash, and fluorspar. From the discussions in the committees the mining men worked out policy recommendations considered as the most likely to maintain the nation's mineral security.

Among the recommendations of the conference committee on mineral economics was 15- to 100-percent tariffs on most minerals imported to this country. An alternative to protective tariffs was modest increases with the tariff revenues to be turned over to domestic miners. The recommendation for gold was to the effect that legislation be passed to allow direct sale of gold from producer to consumer at a "free market" price.

In the report from the group on taxation were recommendations that new mines be exempt from income taxes for three years after commercial production begins and that costs of exploration and development be allowed as a deduction without present limitations.

The committee on lands and water expressed confidence in the general mining laws and opposed further Federal withdrawal of lands from the public domain.

The committee on research recommended the organization of permanent minerals research advisory boards at State and Federal levels and establishment of a definite Federal mineral policy so that private industry might carry on long-range research programs.

After a general session the committees' recommendations were turned over to the Western Governors Mining Advisory Council. The council members who met the following day were to consider the recommendations and to report to their governors. In this way it was hoped the western states would be in accord on mineral policy. With this backing a national mineral policy could be defined that might allow the nation some comfort, at least mineral-wise, in this time of continuing international stress.

No.11

The enthusiasm with which the Sacramento meeting was received by the western mining industry was attested by the nearly 700 people who attended. The importance with which the governors of the eleven western states, South Dakota, and Alaska considered it was shown by the 51 delegates and 38 technical advisers appointed by them to represent their states. The governors of California, Nevada, Utah, Idaho, Wyoming, and the Lieutenant Governor of Colorado attended the meetings and took active parts. Oregon's delegation appointed by Governor Paul Patterson was: Mason L. Bingham, Fay W. Libbey, and Hollis Dole, Portland; Niel Allen (Chairman of the Council delegation) and Fay I. Bristol, Grants Pass; Austin Dunn and Anthony Brandenthaler, Baker; Earl S. Mollard, Riddle; and D. Ford McCormick, Medford. Fay Bristol was Co-Chairman of the Chrome Committee. A. O. Bartell, Portland, was a technical adviser.

The ability of the group to resolve their many and oftentimes diverse approaches to the problems and to arrive at recommendations was due in large part to the excellent organization given the meetings by Co-Chairmen S. H. Williston of Cordero Mining Company, and Dewitt Nelson, Director of the California Department of Natural Resources.

H.M.D.

FALL CREEK COPPER MINE REOPENED -

The Fall Creek Mining Company, Inc., has leased the United Copper Gold Mines Co. property from J. A. Phillips of Grants Pass. The new company was formed by Morris Herman, Max Frohwirth, and Leon Lutz, all of New York. Earl White of Grants Pass is the general manager.

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SQUAW BASIN COAL EXPLORED

Roy Rannells, Jim Carrol, and A. A. Robins, all of Riddle, Oregon, are exploring a 7-foot coal seam in the south end of Eden Ridge, T. 33 S., R. 11 W., Coos County. This is the first significant exploration that has been carried out in the Eden Ridge and Squaw Basin fields since a period of active prospecting between 1907 and 1912.

According to Rannells, the coal is suitable for coking. The bed dips 5 to 8 degrees and is believed to be on a small synclinal structure. A 400-foot drift has been driven, and reserves appear to be fairly extensive.

State Department of Geology and Mineral Industries

702 Woodlark Building Portland, Oregon

FALL CREEK COPPER

Illinois River Area

UNITED COPPER GOLD MINES COMPANY

OWNERS (1971) Robert Cornett and Paul Cougle, Grants Pass, Ot.

Location: Section 4, T 38 S., R 9 W.

History: Parks and Swartley (Handbook of the Mining Industry of Oregon: Oregon Bureau of Mines and Geology Mineral Resources of Oregon. Vol. 2, No. 4., 1916) reported as follows:

"Office: Room 4 Murphy Block, Salem, Oregon. W. S. Low, Pres.; Daniel Webster, Sec.; C. E. Lebold, Treas.; all of Salem, Oregon. Capital stock, \$500,000; par value, \$1.00; \$219,654 subscribed, issued and paid up. (1916 report).

"This company owned property on Pickett Creek near Merlin which has been sold, It now owns 12 claims in Illinois District about 12 miles northwest of Selma, on Fall Creek, one-half mile above its junction with the Illinois, at an elevation of about 1400 feet.

"The copper ore of this locality has attracted attention many years. Early in the sixties of the last century a small smelting furnace was located at the mouth of Rancherie Creek. The matte was packed out about 30 miles across the mountains to the coast. Another small furnace was built on Fall Creek in 1894, but was not a commercial success, owing to the difficulties of transportation. In 1899, several hundred tons of ore was packed out to Selma, hauled to Grants Pass and shipped to Tacoma, where it is said to have been smelted at a profit. The mine has now been idle for several years.

"The geology is described by Diller as follows:

"The country rocks of the deposit are greenstone and serpentine. The greenstone is an ancient volcanic mass, a mixture of lava flows and tuffs of Mesozoic age that are greatly altered. Its fragmental character, though not a prominent feature, may be clearly seen on close examination of the clean exposure near the mouth of Fall Creek, where the rock is made up of many lapilli. The serpentine is an altered saxonite, evidently of later eruption than the greenstone with which it is in contact.

"The ore minerals are chalcopyrite and pyrrhotite, generally more or less intermingled, and either may be most abundant. Malachite is rare. In some places the pyrrhotite appears as small streaks in the chalcopyrite. The ore bodies removed were in the serpentine near its contact with the greenstone. It is possible that some ore occurred in the

greenstone, but the greater portion, if not all of it, appears to belong to the serpentine. The ore bodies were comparatively small and were in irregular bunches, not in distinct veins. The pyrrhotite was tested for nickel by R. C. Wells in the chemical laboratory of the Geological Survey. A mere trace of nickel was found, possibly 0.001 per cent.

"The following statement is made by the management: There is 1000 feet of development work, including a 500-foot tunnel, and a 200-foot crosscut, exposing 1000 tons of ore. A dark gossan sometimes stained with copper is underlain at 15 feet in depth by ore carrying 18 per cent copper and 5 to 10 ounces silver and upwards of \$1.00 in gold."

Location: sec. 4, T. 38 S., R. 9 W.

OWNERS (1971) Bob Cornett & Paul Cougle

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"'The ore minerals are chalcopyrite and pyrrhotite, generally more or less intermingled, and either may be most abundant. Malachite is rare. In some

(continued page 149 - Josephine Co. Handbook)

average several dollars a ton, the source of the gold is difficult to trace. Some of the gold, however, appears to be in the slates, whose bronze slickensides are due to shearing movements after the deposition of the ore.

"Some distance up Lightning gulch Eugene McPherson has a mine tunnel 200 feet in length that follows the contact between greenstone and banded quartzite. The greenstone is greatly altered and the contact is very irregular. A small quantity of rich telluride ore is reported to have been stoped from this tunnel. I was unable to obtain a sample of the ore at the mine, but a small fragment was given me by Mr. Bowden, who assured me that it came from the McPherson tunnel. Mr. Bowden also gave me a sample from his own prospect farther northwest, on Lightning gulch. Both samples reacted strongly for the tellurium, giving a decided purple solution when boiled in concentrated sulphuric acid."

Reference: Diller, 14: 69-70 (quoted)
Parks and Swartley 16:238

YOUNG PLACERS

Illinois River area

(also see Elkhorn Placer, adjoining)

Owners: E. E. Young and Ovid V. Johnson, Grants Pass, Oregon

Location: On Briggs Creek 40 miles by road SW. of Grants Pass in secs 7 and 18, T. 36 S., R. 9 W. Elevation, 2050 feet.

General: Property located May 13, 1929 by present owners, is in litigation. Three test pits indicate 10 to 15¢ per yard. No production; no equipment. A 2-mile ditch from Dutchy Creek has been built.

Informant: J. E. Morrison, 39

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building

Portland 1, Oregon

239 S.E. "H" Street Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

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	***	Calcite	stringers	5.		<u>ar bal basisas</u>	65	
Sample	GC	DLD	SII	LVER	COBALT	COPPER	NICKEL	T .
number	oz./T.	Value	oz./T.	Value	Co	Cu	Ni	
P-14961 NG-284	0.16	\$5.60	Nil		0.10%	1.70%	0.20%	
		Transfer in						
Report i	ssued	C	ard filed	Annual of the second	Report ma	iled_ 8/14/	/53 Called	for_

Samples from Fall Creek Copper Co., Sec. 4, T. 38 S., R. 9 W. STATE DEPT. OF GEOLOGY & MINERAL INDUSTRIES -- ASSAYER: L. L. HOAGLAND

SAMPLE NUMBER	SUBMITTED BY	DATE	GOLD Au oz./T	SILVER Ag oz./T	COBALT Co	COPPER Cu	IRON Fe	NICKEL Ni %	SULPHUR S %	ZINC Zn %
OG 43	Earl White	2/5/43	0.04	Tr	ann ere dan eng	4.84	Colle non tree date	Manage States - Bosto Spining	Mills our gaps	Sales New roll Alice
OG 44	Earl White	11	0.08	0.2	ditto two tiles asso	10.6	ellerik elmon stade 1800-	ago ma mes dans	State Home Come 1989	1177 May San 2011
OG - 139	J. B. Isgrig	6/2/43	0.02	1.0	500 mm 100 dbp	21.3		0.3	NAME SHIPS THE PROPERTY.	100 Mile 100 Alex
DG - 140	J. B. Isgrig	11	0.02	1.1	day say gay ago	1.3	APPENDING MICHAEL	Tr	was and driving	NAME AND DESCRIPTION
IG 54	H. D. Wolfe	3/9/48	0.10	Tr	disposada miner tress	0.41	Antifer specia zinali ngazir	0.15	-rock allow blend disco-	3200 May Will 2000
IG 55	(DOGAMI) H. D. Wolfe	11	0.10	0,50	A100 0000 1100 MM	19.90	data and sales	Sintly sintils space (stop)	Shirth district review States	Mile arm arce fices
G - 261	Geo. Wilhelm	Oct.1948	0.07	Tr	Nil	9.30	gays dear rises arego.	0.05	SHIP SELECTIVE SELECT	
IG 34	A. W. Johns	2/21/49	0.12	310 000 was 840	HARD BEEN SHIP HARD	20.70	page 1-4 and 1200		more difficulty to the difficulty	0.20
IG 170	J. A. Phillips	5/8/52	0,08	Tr	SEEN STOP SAID	16.80	42.60	-	SSS co. onto one	300 to a 11% 3000
IG - 252	J. A. Phillips	7/14/53	0,10	with the only time		18.20	43.57	SARB stop run: Arro	18.50	daria data tata _{sala}
IG - 284	J. A. Phillips	8/5/53.	0.16	Nil	0.10	1.70	dia res no que	0.20	dispress the one	MICHAEL MAN MAN



STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building Portland 1, Oregon

239 S.E. "H" Street Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

Your nam	me in full	J. E	. Isgrig	1 2002 16	And the state of t				
Street o	or P.O. Bo	x Rt. 1	Box 352	jorg ha eta	C:	ity & State_	Grants Pa	ss, Oregon	
Are you	a citizen	of Oregon	? Yes D	ate on wh	nich sample	is sent 6	5/2/43		
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Are you	hiring la	.bor?		Are you n	nilling or	shipping ore	?		
Name of	claim sam	ple obtain	ed from			di addante			
Loc						description p		n,	
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Tow	mship 38	S Ra	nge 9 W	Section	on4	Quarter	section_	pur disponential de la constantia	
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		e sur Sduan		Ex liverage		Descr			
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no	A STATE OF					- USE OTHER			
	escriptio	n continuida.	100 mm 1						
Sample [OLD	SIL	THE RESERVE THE PERSON NAMED IN COLUMN 2 IN COLUMN 2	COPPER	NICKEL			
number	oz./T.	Value	oz./T.	Value	Cu	Ni			
DG-139	0.02	\$0.70	1.0	\$0.71	21.3%	0.3%			
DG-140	0.02	\$0.70	1.1	0.78	1.3%	Trace	NO. 440 NO.		
Report i	eport issued Card filed					Report mailed Called for			

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building Portland 1, Oregon

239 S.E. "H" Street Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

Your nar			A DI 1331					
	ne in full	J.	A. Phillip	3				
Street	or P.O. Bo	x 312	SW "I" St	orgine Hai	Cit	y & State_	Grants Pass	s, Orego
Are you	a citizen	of Oregon	? Yes D	ate on wh	nich sample i	s sent_	7/14/53	
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Are you	hiring lal	oor?N	lo .	Are you n	nilling or sh	nipping ore	?N)
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				OR OFFICE	USE ONLY -		SIDE IF DESI	RED
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	escription	Massi	re sulphide	OR OFFICE	USE ONLY -	e.		RED
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STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building

Portland 1, Oregon

239 S.E. "H" Street Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

Your nam	e in full	J. A.	Phillips		short sake	mana sugar à		
Street o	r P.O. Box	x 312 S	W "I" St.	(072/55-15)	Ci	ty & State	Grants Pass	Oregon
Are you	a citizen	of Oregon	? Yes D	ate on wh	nich sample	is sent_	5/8/52	
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	-						?	
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How far	from passa	ble road?	½ mil	e i	Name of	road (Chrome Road	
					for			
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DO							SIDE IF DESIF	ED
					chalcopyrit	ce and pyrri	notite.	
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number	oz./T.	Value	oz./T.	Value	Cu	Fe		
P-12723 4G-170	0.08	\$2.80	Trace		16.80%	42.60%		
Report i	ssued	C	ard filed	AND THE PROPERTY OF THE PROPER	Report ma	iled 5/23/	/52 Called fo	r

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building Portland 1, Oregon

239 S.E. "H" Street Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

Your name	in full	Geo	. Wilhelm		Leston limits	terminate of		
Street or	P.O. Bo	x War	drobe Clea	ners	Ci	ty & State_	City	
Are you a	citizen	of Oregon	?	ate on wh	ich sample	is sent	October 1	948
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		The San San				The Transport		
Popont 3 av	ned 11	-3-48 C	and filed		Report ma	ilod	Called	fon

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building

Portland 1, Oregon

239 S.E. "H" Street Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

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	a citizen	of Oregon	? Yes I	Date on w	hich sample i	s sent_	2/5/43	
Name (or	names) o	f owners o	f the prop	perty	Ferguson	& White		
	hiring la	bor?	للتوجيدون	Are you	mĭlling or sh	ipping ore?		
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DG - 44	0.08		0.2		10.6%			
Report is	ssued	C	ard filed		Report mai	led	Called	for

STATE DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building

Portland 1, Oregon

239 S.E. "H" Street Grants Pass, Oregon

REQUEST FOR SAMPLE INFORMATION

Street or P.O. Box P.O. Box A17 City & State Grants Pass, Cregor are you a citizen of Oregon? Yes Date on which sample is sent 3/9/48 fame (or names) of owners of the property Roy Ferguson & Earl White re you hiring labor? Are you milling or shipping ore? Same of claim sample obtained from Fall Creek Copper Mine Jan 1943 Location of property or source of sample (If legal description is not known, give location with reference to known geographical point.) County Josephine Mining District Illinois River Township 38 S Range 9 W Section A Quarter section ow far from passable road? I mile Name of road Channel (length) Grab Assay for Description ample no. 1 x Au, Ag, Cu, Ni ample no. 2 x Au, Ag, Cu (Samples for assay should be at least 1 pound in weight) (Signed) H. D. Wolfe DO NOT WRITE BELOW THIS LINE - FOR OFFICE USE ONLY - USE OTHER SIDE IF DESIRED ample Description #1 - Grab sample of chalcopyrite from dump outside caved tunnel - East of Fall Creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall Creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of Fall creek. #2 - Grab sample of chalcopyrite from dump of main tunnel—West side of F						sholl eman.	treamingsb or		
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Are you milling or shipping ore? Are you milling or shipping ore?	Are you	a citizen	of Oregon	? Yes I	Date on wh	nich sample	is sent_	3/9/48	
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MINERAL RESOURCES OF THE ILLINOIS RIVER BASIN, OREGON by
Terry Clase, U. S. Bureau of Mines
and
Len Ramp, Oregon State Department of Geology & Mineral Industries

Fall Creek Copper Prospect

The Fall Creek copper prospect (fig. 1, No. 119) is on Fall Creek, approximately one-half mile by trail from the confluence of Fall Creek with the Illinois River. Access from Selma, Oregon is by the Illinois River road westerly 12 miles to Rancharie Creek and then by trail three-fourths mile to the property. An alternate route of access is to ford the Illinois River about three-fourths mile upstream from the confluence of Fall Creek, using a rough jeep road maintained by the claim owners.

The Fall Creek prospect was first located and a small smelting furnace built at the mouth of Rancherie Creek in 1863. Another furnace was built on Fall Creek in 1894. Neither furnace was a commercial success. In 1899, 400 tons of ore was shipped to Tacoma, Washington and was said to have been smelted at a profit (16, p. 148). In 1956, 25 tons of ore, averaging 18 percent copper, was shipped from the property.

The workings on the property consist of a number of open cuts, a shallow shaft, three caved and one open adit.

The country rock consists of sheared and altered serpentinite, bounded on the east by serpentized peridotite and on the west by greenstone. The serpentinite is cut by the Fall Creek shear zone which trends within a few degrees of north. Along the shear zone, the serpentinite is bleached, and is cut by 1- to 4-inch thick chrysotile stringers. It is also cut by predominantly north trending, faulted, pinching and swelling mineralized shear zones composed of gougey wallrock, pyrrhotite, chalcopyrite, and chalcocite. The mineralized shear zones are occupied by vuggy, earthy to jasperiodal, limonite, hematite, malachite, and azurite-bearing gossan at the surface. The mineralized shear zones pinch out in a short distance, or are faulted, and are difficult to trace. There are at least four near-parallel mineralized shear zones on the property.

The No. 1 mineralized shear zone is exposed over a horizontal distance of approximately 600 feet. The shear zone trends N 10° to 15° W, dips 70° SW to 70° NE, and is 5 to 12 twide. It is composed of 80 percent bleached, brecciated, gaugey serpentinite and talc with 20 percent hematite, limonite, pyrrhotite, and malachite. Massive chalcopyrite was observed in the stream channel of Fall Creek along the trend of the shear zone.

The No. 2 mineralized shear zone is exposed over a horizontal distance of 440 feet. The shear zone trends N 5° W, dips vertically, and is 6 feet wide. It is composed of 80 percent gauge brecciated serpentinite, and 20 percent pyrrhotite, chalcocite, hematite, limonite, malachite, and azurite. The shear zone has a sharp contact with the serpentinite wallrock.

A third mineralized shear zone is exposed by very intermittent outcrops between the first two. It is estimated to be 5 feet wide, trend N 15° E, and dip 30° SE. It is composed of about 95 percent brecciated, gauge, serpentinite, talc, and 5 percent hematite, limonite, azurite, and malachite. A small shear exposure 350 feet to the south may be part of the same zone.

A weighted average of seven samples from the three shear zones is 1.8 percent copper and traces of gold and silver. About 145,000 tons of resources averaging 1.8 percent copper can be inferred from surface exposures. High-grade zones in underground workings sampled in 1952, contained up to 23 percent copper, 0.16 ounce gold per ton, 0.25 ounce silver per ton, 0.8 percent zinc, and 0.31 percent nickel.

The deposits would have to be mined by small scale underground methods. They appear to be too small, low-grade, and remote for current technology and economics.

Approximately 1,100 feet south from the main workings, along the continuation of the Fall Creek shear zone, is an open adit on a small mineralized shear zone. The small shear zone is approximately perpendicular to the Fall Creek zone and other mineralized shear zones. It trends \$ 80° W, dips 66° SE, and is 4 to 18 inches wide.

Iron-oxide and malachite staining extend for up to 8 feet into the serpentinite wallrock on either side of the shear.

The shear zone is composed of 88 percent brecciated serpentinite, and 12 percent hematite, limonite, pyrrhotite, chalcopyrite, and malachite.

Mineralized shears and shear zones outcrop within the major Fall Creek shear zone across a width of about 630 feet and a length of about 1,700 feet. Possibly the mineralized shears persist along the Fall Creek zone to the south and to the north and at depth.

STATE OF OREGON DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES 1069 State Office Building - Portland, Oregon 97201

REQUEST FOR SAMPLE INFORMATION

The State law governing free analysis of samples sent to State Assay Laboratories requires that certain information be furnished the laboratory regarding samples sent for assay or identification. A copy of the law will be found on the back of this blank. Please fill in the information requested completely, and submit it along with your sample. Keep a copy of the information on each sample for your own reference.

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Report mailed 3-4-70



SHASTA ANALYTICAL GEOCHEMISTRY LABORATORY

1240 Redwood Boulevard, Redding, California 96003

(916) 244-4441

Date: August 26, 1981

Client: Robert Cornett

Box 291

Grants Pass, Oregon 97502

Client Order No: 000331

Number of Samples: 3

Samples Submitted By: Mail

Date Received: 8/7/81

Samples Analyzed For: Au and Ag

Analytical Methods: Fire Assay

Remarks: Results in oz/ton

San	nple #	Au	Ag
#1 #2	Fall Creek Gossan	0.761	ND Curry Co
	Quartz	0.005	ND / W

BY:

BRUCE KNOWLTON FIRE ASSAYER BY:_____

JOANNE DANIELSON ANALYTICAL GEOCHEMIST

VERIFIED: Patrice Cashel

PATRICIA COOKSLEY

ND: No Detection

MS: Missing Sample

1 Troy oz/ton: 34.286 ppm

NA: Not Analyzed

IS: Insufficient Sample

1ppm: 0.0292 Troy oz/ton

This analytical report is the confidential property of the above mentioned client and for the protection of this client and ourselves, we reserve the right to forbid publication or reproduction of this report or any part thereof without written permission.