

CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
416 W. Congress St., Suite 100
Tucson, Arizona 85701
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

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TEXAS CANYON PROJECT

COCHISE COUNTY, ARIZONA

bу

ANTHONY LAME & ASSOCIATES

GEOLOGIST, ENGINEERS AND CONTRACTORS

August 21, 1972

GEOLOGICAL REPORT

TEXAS CARYON PROJECT

DRAGOON MINING DISTRICT

COCHISE COUNTY, ARIZONA

Summary.

East of Tucson, Arizona, being divided by U. S. Interstate 10. The nearest town of note is Willcox, Arizona, laying some 13 miles Northeast. The property is located near Johnson Camp, an old lead-zinc producer, which is presently being explored by drilling by two major mining companies on a joint venture. This exploration program extends to within one mile of the property under option. The mineralization being developed is copper and molybdenum in both intrusive and sedimentary occurrences.

The property under option has copper mineralization exposed on surface in several small prospect pits and cuts. An induced polarization survey indicates a sulphile anomalous condition existing across the property in the same general trending as that presently being drilled by the major companies in adjacent properties.

This property, based upon surface exposure and geophysical anomalies, warrants a thorough exploration program.

Respectfully submitted,

Anthony Lane & Associates Anthony Lane

CHOLOGICAL REPORT

TIKAS CANKON PROJECT

DEAGON MINING DESERVOY

COCHIGE COUNTY, ARIZONA

August 21, 1972

Introduction.

This survey was undertaken at the request of Inland Copper Ltd. of Vancouver, British Columbia, Canada. The purpose of the examination and appraisal is to ascertain the feasability of an exploration program for copper and associated mineralization as exposed and projected by geophysical survey. The property was examined on three separate occasions during the first two weeks of August, 1972.

The area is of particular interest due to a concentrated exploration effort by several major companies in the nearby vicinities.

Location and History.

The properties, on which options have been obtained, are located in Sections 16 and 17, T. 15 S., R. 23 E., Cochise County, Arizona. These sections are held under prospecting permit issued from the State of Arizona. The Southwest quarter of Section 16 is not included in this option.

These State Sections are located immediately to the Northeast of the Gunnison Hills and approximately one and one half miles to the Southwest of the Red Bird Hills, which flank the Little Dragoon Mountains to the

Northwest. U. S. Interstate 10 exosses these State Sections and the nearest term is Willow, a town of some 7,000 population, which lies approximately 13 miles to the Northeast.

The area of major mining activity in the immediate vicinity is the old Johnson Comp, which lies three miles to the Southwest. This mining camp was explored for gold during the mid 1800s and later developments and production included copper, lead, sine and silver. Some beryllium and tungsten is reported to have been produced.

Sections 16 and 17 lie at an elevation of some 4,800 feet on a fairly flat valley fill, lying between the Red Bird Hills and the Gunnison Hills, with gently sloping contours to the Southeast. The climatic conditions are typical of the generally semi-arid conditions of the Southwest of the United States. Annual rainfall is approximately 9 inches, with the wet season prevailing in July and August. Some snow occurs, but of only a few hours duration during the winter season.

Tucson, located some 60 miles to the West, is the mining center of the Southwest and is readily accessible by U. S. Interstate 10.

Recent exploration programs undertaken by Cyprus Mines and Superior Oil Company have been underway for over a year, with as many as five drills in operation at one time. The area of activity has been some two to three miles Southwest of the State Sections and much of this drilling has been on four hundred foot centers in the development of the ore bodies reported.

Fhelps Dodge Corporation has undertaken an exploration program further South in the vicinity of the Dragoon Mountains and the Southern end of the Gunnison Hills.

Geology.

The Gunnison Hills consists of a North-northeasterly striking segment

of the lower Palaeosoic sediments, dipping to the Mortheast. The segments exposed include the Abrigo, Martin, Mississippian and Pennsylvanian Formations. These are probably underlaid by the Precambrian granites although these are not exposed.

The later Cretaceous granites are exposed in the Texas Canyon in the Little Dragoon Mountains. This crystaline formation has been identified as a segment of the Laramidian Orogeny. This crystaline rock was found exposed in veinlets within the State Sections.

North-west thrust faulting and sheeting was observed in the Little
Dragoon Mountains and probably extends on the bedding plane in the Gunnison
Hills. Northeasterly trending faults are exposed causing shear zones within which mineralization occurs.

The mineralization in the disrtiet consists predominately of copperlead-zine, occuring in shear zones and veins within the Cambrian sediments, both as siliceous vein material and replacement ores within the limestone. More recent work has exposed mineralization occurring in the coarser crystaline rocks of the intrusives.

Within the limits of the State Sections, mineralization consisting of copper in carbonate form and lead in sulphide and carbonite form was observed in veinlets and shears, both in the bedding plane and the Northeasterly fault sequence. The Northeasterly faulting trend parallels the strike of the induced polarization anomaly.

Other mineralization consisting of copper and lead is exposed in numerous prospect pits and cuts throughout the property.

Recommendations.

The presence of surface mineralization, together with the induced

polarization anomaly in both sedimentary formation and intrusive monzonitic materials, justify a comprehensive exploration program on the areas under option. The nearby exploration program by Cyprus-Superior on a paralleling trend further justifies such a program.

The geophysical interpretations indicate a sulphide occurence from three to five hundred feet in depth. The length of the anomalous condition is approximately 1,000 feet.

It is recommended that complete geological and geophysical surveys, plotted in detail, be initiated, followed by a drilling program to test the areas where indicated sulphide mineralization occurs.

Costs.

l.	Geophysical Survey	\$ 4,000.00
2.	Geological Survey	6,000.00
3.	Diamond Drilling 4,000 feet @ \$12.00 per foot	48,000.00
ž‡.,	Assers, etc.	2,000.00
To	tal Exploration Costs	\$60,000.00

These exploration costs are not inclusive of property payments and option, surface damage fees and bonds.

Conclusion.

Surface indications of mineralization as exposed in structural trends as projected by geophysical anomalies warrant exploration. The trending of the mineralization parallels that being presently drilled by Cyprus.

Superior to the Southwest.

/ The structural formations are comparable to those which prevail in the typically "porphyry coppers" of the Southwest, consisting of quarts-

monzonitic crystaline rock intruding the lower Paleaczoic sediment. The mineralization of copper-lead-zinc, both in vein type and replacement ore zones, is comparable to the surface conditions prevailing above the intrusive ore bodies as developed in the Tucson area. The property with it's specific drilling targets has excellent exploration merit.

Respectfully submitted,

Anthony Lane & Associates Anthony Lane

ANTHONY LANE & ASSOCIATES GEOLOGIST, ENGINEER'S AND CONTRACTORS

P. O. BOX 5843 TUCSON, ARIZONA 602-624-0951

January 18, 1973

REPORT OF FINDINGS TEXAS CANYON DRILLING PROJECT COCHISE COUNTY, ARIZONA

Introduction

The exploration drilling program was completed on State Leases

Number 22310, Number 22311, Number 22244 and Number 22245, located in

Sections 16 and 17, Township 15 South, Range 23 East, Dragoon Mining

District, Arizona.

The drilling program consisted of one diamond core drill hole and five rotary drill holes. The total footage completed by coreing was 370 feet. The composite of rotary drilling was 1,385 feet. The core drilling was completed by William Lovall, drilling contractor of Tucson, Arizona, using a BX wire line core drill. The rotary drilling was completed by Metler Brothers Drilling Company of Tucson, Arizona, using conventional rotary drill, utilizing air circultation and sample recovery.

All samples were taken by this concern and are in possession. Sections of interest were split and assayed.

The drill locations were selected by interpretation of induced polarization surveys of the property. The area of the sites allowed no significant structural information for geological interpretation.

Approximately 24,000 feet of induced polarization lines were run with array of 200 and 400 foot spreads, the Wenner system being employed.

Drill Results

D.	H.	G	-	42	_	Core	Drill	Log
-	_							-

1' - 30'	Blue-gray Conlomerate Fe & Clay on Partings & Fractures
30" - 31"	Highly Brecciated Zone Fe & Mn Stain (Fault ?)
31' - 41'	Blue-gray Conglomerate
41' - 47'	Extremely Fractured Zone Fe & Mn Stain, some Pb Carb. & Wulfenite ? (Fault)
47" - 67"	Blue-gray Conglomerate Occasional Crystal Pb & Wo3 Occasional Fractured Zone
67' - 80'	Whitish Conglomerate Extremely Vuggy
80' - 88'	Blue-whitish-yellow Conglomerate
88' - 99'	Blue-whitish-yellow Conglomerate Extremely Vuggy Calcite Crystals, Fe, Mn, Pb & Wo3
99' - 161	Bluish-white Conglomerate - Vuggy Yellow Partings (Fe & Wo3 ?) Brecciated 129 - 131
161' - 163'	Fine Grain Conglomerate - Marbelized
163' - 200'	Blue-white Conglomerate - Vuggy
200' - 220'	Fine Grain Conglomerate - Marbelized 211' - 213' Brecciated
220" - 222"	Blue-white Conglomerate - Vuggy
222' - 270'	Coarse Grained Conglomerate Occasional Vuggy
270' - 330'	Fine Grain Conglomerate

330' - 375'

Coarse-grained Conglomerate Bottom of Hole

Rotary Drill Hole

Assays

D. H. 41.10 Spectrographic Analysis

ANTHONY LANE & ASSOCIATES GEOLOGIST, ENGINEER'S AND CONTRACTORS

P. O. BOX 5843 TUCSON, ARIZONA 602-624-0951

January 24, 1973

GEOPHYSICAL STUDY

TEXAS CANYON PROJECT

COCHISE COUNTY, ARIZONA

Introduction

Based upon the low sulphide content and the lack of material which would create induced polarization anomalous as established prior to drilling on this project, this survey was undertaken. The drill results indicate a large zone of low grade mineralization over a 250' area occurring in a sedimentary conglomerate.

The core drill results were examined in detail. No polarizing material was established which could have created the strong anomalous induced polarization high previously determined.

This survey was undertaken utilizing "diapole-diapole" system of induced polarization. A total of 3,400 feet of traverse was completed on 100', 50' and 25' stations. Three additional lines were established 50' and 100' apart, spacings running parallel.

It was established that the anomalous induced polarization high was defined to exist on Line J on 50' Station and Line H on 100' Stations.

The anomaly is localized and the structures may dip to the Southwest.

This survey would indicate that the drilling completed on this project flanked this anomalous condition and that the I.P. high drilled was created from "side effects" from the extremely high I.P. anomaly now established.

Discussion of Results

The diamond and rotary drilling did not disclose mineralization of commercial values. However, all drill holes contained lead, molybdenum, zinc and copper values in assayable quantities.

The drill holes were spaced over a 250' span and all were completed in conglomerate. The conglomerate consisted of phenocrysts of limestone recemented by siliceous matrix.

The mineralization observed consisted of oxides with sparce sulphides (less than 1% total).

There was not sufficient sulphides to create the anomolous induced polarization results.

It is felt that the results of the drilling is indicative of a strong mineralizing source, with the I.P. anomaly being created either by a major occurrence creating side effects from off the drilling pattern or by a polarizing agent not identified.

Recommendations

It is felt that the mineralization established from the drill results is indicative of a strong mineralizing zone. It is recommended that further geological and geophysical studies be made of the area to determine if structural and anomalous interpretations warrant further drilling.

Repectfully submitted,

ANTHONY LANE & ASSOCIATES

Anthony Lane

CHARGES: \$5.00 LAB NO. 19841

Qualitative Spectrographic Analysis

Date 11/28/72 PM

SUBMITTED BY:

Mr. James Sorrell 438 W. Columbia Tucson, Arizona 85714 ELEMENTS FOUND AND ESTIMATED PERCENTAGE RANGE OF CONCENTRATION

SAMPLE MARK
Hole 4010

701-801

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum	3.0	6.0	Lithium	CALO CINTO CINTO	.008	Thallium		
Antimony		*	Magnesium Mg0	2.0	4.0	Thorium		
Arsenic	21		Manganese	0.05	0.15	Tin		Trace
Barium	.002	.007	Mercury			Titanium	.0007	.003
Beryllium			Molybdenum	0.10	0.30	Tungsten	0.08	0.20
Bismuth		•002	Nickel		.0004	Uranium		
Boron			Osmium		\	Vanadium	.002	.007
Calcium as Ca0	10.0	30.0	Palladium			Zinc	0,5	1.5
Cadmin	•003	•009	Phosphorus			Zirconium		
Cesium			PlatinumNot dete	cted in	sample	RARE EARTHS:	3	
Chromium	.0006	.002	Potassium	+	Trace	Cerium		
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium	1	× .	Erbium		
Copper	0.05	0.15	Rubidium			Europium		
Gallium	•002	.005	Ruthenium	1		Gadolinium		
Germanium			Scandium			Holmium		
Gold Below detec	tion li	mit	Silicon (as Si02)	10.0	25.0	Lanthanum		
Hafnium			Silver	.001	.005	Neodymium		
Indium			Sodium	0.5	1.5	Praseodymium		
Iridium	7 - 2		Strontium	.001	.006	Samarium		
Iron	4.0	8.0	Tantalum			Ytterbium		
Lead	2.0	4.0	Tellurium			Yttrium		

emarks:Percentages not shown in this report to equal 100% are largely due to carbon-dioxide, since this sample contains considerable Calcium-carbonate.

Respectfully Submitted

WARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)

1.0% = 20.0 Lbs. AVOIR. 0.10% = 2.0 Lbs. AVOIR.

0.01% = 3.2 oz. AVOIR

0.001% = 0.32 oz. AVOIR. 0.0001% = 0.032 oz. AVOIR.

Priposa, California 95338

Telephone 966-2591

Mr. James Sorrell 438 W. Columbia Tucson, Arizona 85714 November 28th, 1972 PM

Dear Mr. Sorrell:

Enclosed, find spectrographic analysis report #19841, covering the analysis of your submitted sample as marked.

The sample is principally composed of limestone of a mild dolomitic nature Mr. Sorrell. Tungsten is present, but appears to be in the form of Powellite we are sorry to report. This is based upon the quantity of Tungsten as related to the quantity of Molybdenum found. Quartz and a quantity of Plagioclase are present.

We also noted good Lead value, along with some Copper and Zinc. Gold was not detected down to 15 parts per million, and Silver is present at about 1.0 ounce per ton of the sample analyzed.

Again, our sincere thanks to you Mr. Sorrell and of course, our best wishes for a happy Holiday Season.

Sincerely.

George R. Graves

1ce

CHARGES: \$5.00 LAB NO. 19065 SUBMITTED BY:

Qualitative Spectrographic Analysis .

Date 7/7/72 PM

Mr. James Sorrell 438 W. Columbia Tucson, Arizona 85714 ELEMENTS FOUND AND ESTIMATED PERCENTAGE RANGE OF CONCENTRATION

SAMPLE MARK

O/C No mark

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than
Aluminum Antimony Arsenic Barium Beryllium Bismuth Boron Colcium as Ca0 Coemium Cesium Chromium Cobalt Columbium	Less	More	Lithium Magnesium Mg0 Manganese Mercury Molybdenum Nickel Osmium Palladium Phosphorus Platinum Not dett Potassium Rhenium	1.0 3.0 .0005	More Than % 3.0 7.0 .001 .003	Thallium Thorium Tin Titanium Tungsten Uranium Vanadium Zinc Zirconium RARE EARTHS: Cerium Dysprosium	Less	
Copper Gallium Germanium Gold Below detec Hafnium Indium Iridium			Rhodium Rubidium Ruthenium Scandium Silicon (as Si02) Silver Sodium Strontium	3.0 .00008 0.01 .0007	7.0 .0002 0.04 .003	Erbium Europium Gedolinium Holmium Lanthanum Neodymium Praseodymium Samarium		
Iron Lead	4.0 0.01	10,0 0,05	Tantalum Tellurium			Ytterbium Yttrium		

Remarks: Percentages not shown in this report to equal 100% are largely due to carbon-dioxide, since this sample contains considerable Calcium-carbonate.

percent to ton (2,000 lbs.)

1.0% = 20.0 Lbs. AVOIR. 0.10% = 2.0 Lbs. AVOIR.

0.01% = 3.2 oz. AVOR

0.001% = 0.32 oz. AVOIR. 0.0001% = 0.032 oz. AVOIR.

Respectfully Submitted.

(Spectrographe

mariposa spectrographic laborator

Mariposa, California 95338

Telephone 966-2591

Mr. James Sorrell 438 W. Columbia Tucson, Arizona 85714 July 7th, 1972 PM

Dear Mr. Sorrell:

Enclosed, find spectrographic analysis report #19065, covering the analysis of your submitted sample, unmarked.

The sample analyzed is largely composed of Calcite and what appears to be Manganocalcite(a Manganese bearing Calcite), along with considerable Iron-oxide. Only minor siliceous mineral is present.

An interesting quantity of Copper is present in the form of the secondary mineral Malachite. Under the microscope, we noted that all of the Copper mineral appears to be present in the Calcium-carbonate. It would seem to us that the primary Copper mineral zone has been either completely replaced or the leach process has removed the Copper from the primary zone and re-deposited it as Malachite. Note also, that we detected some minor Molybdenum, which is also characteristic of good Arizona Copper ore.

Again, our sincere thanks to you Mr. Sorrell and of course, our best wishes in your mining.

Sincerely,

George/R. Graves

100

SOUTHWESTERN ASSAYERS & CHEMISTS, Inc.

REGISTERED ASSAYERS

FELIX K. DURAZO WIL WRIGHT

P. O. BOX 7517 TUCSON, ARIZONA 85713 710 E. EVANS BLVD. PHONE 602-294-5811

Mr. Anthony Lane P.O. Box 5843 Tucson, Arizona

JOB#___011953
RECEIVED 8-28-72
REPORTED 9-5-72

SAMPLE NUMBER	GOLD OZ.*	SILVER OZ.*	LEAD %	COPPER %	ZINC	MOLYBDENUI
	oz.*	oz.*	%	%	%	 %
Canyon:						
	_		4 07	2.70	011	006
1	Trace	.20	<.01	3.10	.04	.006
2	Trace	1.40	4.80	.71	5.8	.006
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CHARGE \$ 29.00

SOUTHWESTERN ASSAYERS & CHEMISTS, Inc.

REGISTERED ASSAYERS

FELIX K. DURAZO WIL WRIGHT ARIZONA REG. NO. 5875 P.O. BOX 7517 TUCSON, ARIZONA 85713 710 E. EVANS BLVD. PHONE 602-294-5811

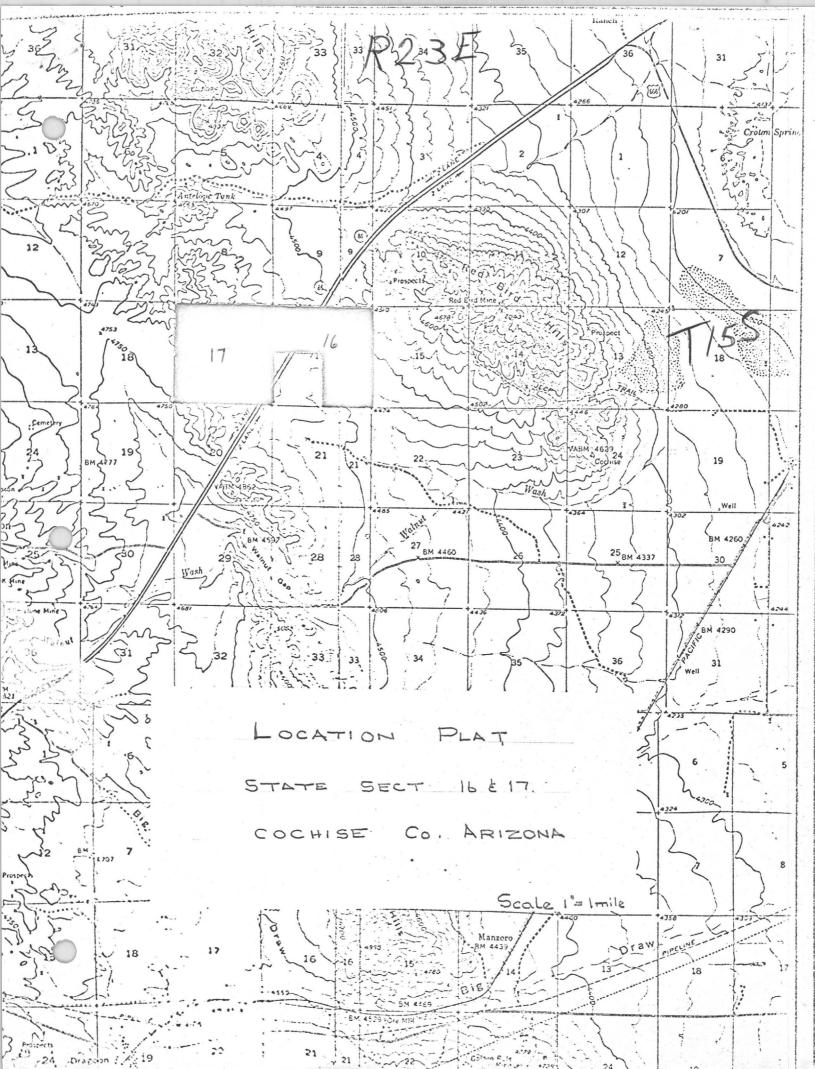
Mr. Anthony Lane P.O. Box 5843 Tucson, Arizona

JOB# 012373

RECEIVED 10-17-72

REPORTED 10-21-72

SAMPLE NUMBER	GOLD OZ.*	SILVER OZ.*	LEAD	COPPER %	ZINC %	Tungsten %	MOLYBDENUM %
G-42:							
50-60	Nil	.16	1.15			N.D.	.006
90-100	Nil	.12	.51			N.D.	.143
140-150	Nil	Trace	.054			N.D.	.009
Liberty		Trace	.003	.015			<.001
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Date	September 8, 1	2164
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STATE OF ARIZONA	Land Div	Res Pa Data l Public
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GEORGE A. SCHIEBEL , the	exclusive right,	for a
period of one (1) year from date, subject to renewal	s as hereinafte	3 004
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P.P. No. 22244

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)	Date September 8, 19	72
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	STATE OF ARIZONA Land Div	Res Prog_ Data Pro_
	PROSPECTING PERMIT Appraise Minerals	Title & S.
	(To prospect for minerals other than oil and gas upon State lands)	Planning_ Purchase_
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	period of one (1) year from date, subject to renewals as hereinafter	set
	forth, but in no event beyond the 7th day of September	
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	hereinafter described upon the following expressed conditions which are	
	part of the permit, the same as though set forth over the signatures of	the
	parties.	alo Lond alorenes
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	By State Land Commissioner	a Nexunia.
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	1972.	<u> </u>
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STATE LAND DEPARTMENT

STATE OF ARIZONA

P.P. No. 22310

Date October 19, 1972

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Land Div Res P.

Ad 1:: Sv

Forest_

Soil C_____

	P.P. No	02	2311	
	Date	October	19,	1972
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