

Summary of Exploration *
1974-1975

Lovitt Project

Chelan County, Washington

by

Dr. Eberhard A. Schmidt
Cyrans Exploration Company
March, 1976

Spokane, Washington

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and map figures.

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TABLE OF CONTENTS

	Page
SUMMARY	1
RECOMMENDATIONS	5
INTRODUCTION	8
HISTORY	10
CYPRUS EXPLORATION PROGRAM	13
LAND STATUS	16
GENERAL GEOLOGICAL SETTING	17
MINERALIZATION	22
Lovitt Mine	22
"B" Reef	26
"A" Reef	34
Compton's Knob	35
"C" Reef	36
Altered Arkose Exposures in the Vicinity of Saddle Rock	37
"F" Reef	38
"G" Reef	38
Unnamed Dozer Cuts North of "A" Reef	39
GEOPHYSICS	40
GEOCHEMICAL SAMPLING PROGRAM	42
Orientation Survey	42
"A" Reef Area	43
Lovitt Mine - "B" Reef Area	44
Dry Gulch - No. 2 Canyon Area	44
Detailed Rock Chip Sampling over the Lovitt Mine	45
Tailings Pond Sampling	46
UNDERGROUND SAMPLING	47
ROTARY DRILLING	49

TABLE OF CONTENTS (cont.)

	Page
DIAMOND DRILLING PROGRAM	54
"B" Reef	54
Vicinity of "C" Reef	56
Lovitt Mine	58
Drilling Performance	59
SAMPLE PREPARATION	61
ORE RESERVES	67
BIBLIOGRAPHY	70

INTRODUCTION

The purpose of this report is to summarize the exploration program carried out by Cyprus Exploration Company at the Lovitt gold mine from December 1974 to January 1976. The property, variously referred to as the Lovitt, Golden King or L-D mine, is located in the eastern foothills of the Cascade Mountains, a few miles south of Wenatchee, Chelan County, Washington (Figure 1). The optioned property covers parts of Section 8, 15, 16, 17, 21 and 22, T. 22 N., R. 20 E., and is easily accessible by several paved highways. Wenatchee is the county seat, railhead for Burlington Northern, and the largest business and population center in this part of Washington. The Lovitt mine was recognized as a potential disseminated gold deposit by J. E. Worthington and he recommended to commence negotiations for exploration rights in mid 1973. Negotiations proved difficult, but exploration did begin in late 1974 on the two patented claims and our activity spread to the surrounding areas as new land became available. During the last 14 months the mine was systematically explored by underground sampling, geologic and topographic mapping, surface sampling, geophysics, rotary drilling, and diamond drilling. At the time the project was turned over to Technical Services in January 1976, eighteen (18) diamond drill holes totalling 9,290 feet and 44 rotary drill holes totalling 16,620 feet were completed.

Ore reserve calculations done independently by Chadwick, Kortan and Technical Services on the Lovitt mine vary from 9,336,762 tons through 6,768,000 tons to 6,523,450 tons respectively with a corresponding grade of 0.173 oz. Au, 0.184 oz. Au and 0.112 oz. Au. Ore reserve calculations recently completed by the Exploration Staff on "B" Reef indicate 1,350,207 tons at a grade of 0.105 oz/ton Au.

Total expenditures charged to Exploration for the overall Lovitt Program
from its inception through December 1975 are tabulated below:

Acquisition	\$200,486
Salaries and Wages	103,204
Surveying and Mapping	29,068
Geophysics	3,407
Geochemistry	3,561
Outside Contract Services	22,912
Technical Services	17,693
Drilling	364,619
Excavation	56,600
Assaying and Sampling	44,283
Travel	48,301
Air Charter	108
Equipment	5,553
Miscellaneous	5,763
Water Quality Control	1,409
Reclamation	<u>89</u>
Sub Total	\$907,116
Less 30% of AZCON'S 1975 share	<u>290,719</u>
Total	<u><u>\$616,397</u></u>

HISTORY

In 1885, the prominently iron stained and silicified ridge within the friable sandstone and shale sequence was covered by two lode claims (Golden King and Macbeth) which later were patented. The mine was known as the Golden King. In 1894, a five-stamp mill was erected but it failed to sufficiently liberate the gold for amalgamation. Throughout the thirties intermittent exploration continued on the claims by various individuals, but it was not until 1949 that a successful mining operation commenced under the guidance of Ed Lovitt and the Lovitt Mining Company. After investing a modest amount of money (\$12,000) for development work, Mr. Lovitt mined in excess of one million tons of ore averaging 0.4 oz. gold and 0.6 oz. silver per ton between 1949 and 1967. Mr. Lovitt realized a net profit of \$1,630,641 on total production of \$11,904,809. Table 1 gives a year by year breakdown of the mine's production until its closure in 1967. Mining was primarily confined to major cross cutting quartz veins containing locally over 1 oz. gold per ton. The mine ranked as the 6th largest gold producer in the United States when it was closed in 1967 for economic reasons.

The status of the Lovitt mine was reviewed by Mr. Russell Chadwick (Consulting Economic Geologist) at the request of Mr. Joseph E. Worthington in 1973 to determine the mine's potential as a low-grade disseminated gold deposit. The property was subsequently recommended to Cyprus Mines management and land negotiations were initiated. The two patented claims covering the Lovitt mine proper were successfully secured from a Seattle bank and other individuals in late 1974. At

Table 1: LOVITT MINE PRODUCTION RECORD

	Year	Dry Tons	Grade oz/ton	
			Au	Ag
----- (Sent to Smelter) -----	1949	9,351	.5574	.5264
	1950	43,417	.7444	.6657
	1951	52,704	.4897	.6312
	1952	38,850	.3851	.4888
	1953	57,689	.4222	.5883
	1954	52,747	.4190	.5150
	1955	60,756	.4066	.4100
	1956	61,602	.3981	.4469
	1957	68,909	.3685	.4228
	1958	62,972	.3511	.4441
	1959	31,810	.9611	1.7266
	1960	40,339	.8592	1.7559
	1961 thru Nov.	40,239	.5759	1.1828
	Total W. M. P.	621,385	.4987	.6921
	L - D Mines			
	Dec. 1961	513	1.1846	1.9329
Total 1949 thru 1961	621,898	.4993	.6932	
Ore to Smelter 1962	3,622	.3480	.7110	
Ore to Mill 1962	40,554	.3931	.3863	
Ore to Smelter 1963	5,867	.1555	.2736	
Ore to Mill 1963	82,861	.2898	.2996	
Ore to Smelter 1964	6,229	.2665	.7386	
Ore to Mill 1964	88,034	.1934	.6092	
Total thru 1964	849,065	.4373	.6289	
Ore to Smelter 1965	2,344	.101	.246	
Ore to Mill 1965	85,716	.2256	.5974	
Total thru 1965	937,125	.417	.625	
Ore to Smelter 1966	1,512	.23	.38	
Ore to Mill 1966	90,984	.19	.456	
Total thru 1966	1,029,621	.397	.61	
Ore Milled 1967	6,951	.224	.25	
<hr/>				
Totals 1949 - Feb. 1967	1,036,572	.396	.607	

this time, underground sampling, preliminary geological investigations and some rotary drilling began on the two claims. In the meantime, several State Leases were obtained in the vicinity of "A" Reef, and additional ground was acquired from Vernon Neel and Ford. Negotiations for a lease/option on the Wenatchee Mining Partnership land, which surrounds the two patented claims and extends beyond the "B" Reef area, proved extremely difficult, but a final agreement was eventually reached in June 1975. Several members of the Cyprus staff and consultants participated in the laborious negotiations that eventually lead to acquisition, including M. W. Seery, J. E. Worthington, R. H. W. Chadwick, and members of the Musick, Peeler and Garrett staff.

CYPRUS EXPLORATION PROGRAM

Upon acquisition of the patented Golden King and Macbeth claims in late 1974, a rotary drilling program was initiated to test potential gold-bearing ground above and between the workings of the Lovitt mine. Ten (10) holes were completed ranging in depth from 107 to 840 feet for a total of 4,343 feet. Drill site selection was governed by the claim boundaries, ready access and topography. Rotary drilling proved difficult, and many of the holes did not extend deep enough to intersect the projected mineralized horizons.

Concurrently with the first rotary drilling phase, a number of the accessible underground workings in the Lovitt mine (south block) and at "B" Reef were channel sampled to confirm the reliability of the reported assay results by Lovitt Mining Company. Overall good agreement was obtained by this check sampling program. Geological mapping was carried out in most of the accessible Lovitt underground workings (north and south blocks), and in all of the accessible "B" Reef workings with special emphasis on degree and kind of alteration, extent of pyrite mineralization, trend of quartz veining, and nature of the numerous fault structures present. Because no agreement had yet been reached on the Wenatchee Mining Partnership land, all of the initial exploration efforts had to be confined to the two patented claims and to "B" Reef. Limited outside geological mapping and geochemical sampling was carried out by A. Robinson in the vicinities of "A", "F", and "G" Reefs on Neel's land and on various State Leases.

In April 1975, a preliminary agreement was reached with the Wenatchee Mining Partnership. Subsequently an Induced Polarization (IP) survey was conducted

between the Lovitt mine and "B" Reef to delineate zones of anomalous sulfide content and silicification. Several northwest-trending anomalies were detected (Van Blaricom, 1975a).

A claim survey was initiated by Kenneth Preston (licensed land and mineral surveyor of Kellogg, Idaho) between the Lovitt mine and the No. 2 Canyon which served as control for the preparation of a detailed topographic map (scale 1" = 200') by Aerial Mapping Company of Boise, Idaho. Color aerial photographs on a scale of 1" = 1000' were completed over a 34 square mile area.

The second rotary drilling program began in April 1975 with the objective to primarily test potential mineralized ground between the Lovitt mine and "B" Reef, to test some of the IP anomalies, and to define the limits of gold mineralization at "B" Reef proper. Thirty-four (34) holes were completed by June 1975 ranging in depth from 60 to 825 feet to a total of 12,277 feet of drilling. Several holes intercepted gold mineralization south and west of "B" Reef; others bottomed in barren Tertiary volcanic rocks north and east of "B" Reef; and a number of holes intercepted a weakly pyritic volcanic boulder conglomerate horizon initially considered to represent a silicified portion of the Swauk formation. The conglomerate contains no gold mineralization.

A follow-up IP survey was completed in the "A" Reef area, across the Lovitt mine proper, and at Compton's Knob. Results are very encouraging over the Lovitt mine, of moderate interest at "A" Reef, and of no interest at Compton's Knob (Van Blaricom, 1975b).

In July 1975, a diamond drilling program was initiated to follow up rotary drilling results in the "B" Reef area, test the nature and extent of mineralization

beneath "C" Reef, and eventually test the silicified capping material over the Lovitt mine. Of the 18 drill holes completed, eleven (11) contained encouraging gold mineralization.

A surface geochemical sampling program was completed during the summer and fall of 1975 to determine whether outcrop geochemistry would aid in the detection of concealed mineralized and silicified arkose portions. Except for some isolated sample stations containing anomalous gold values, the overall results are negative.

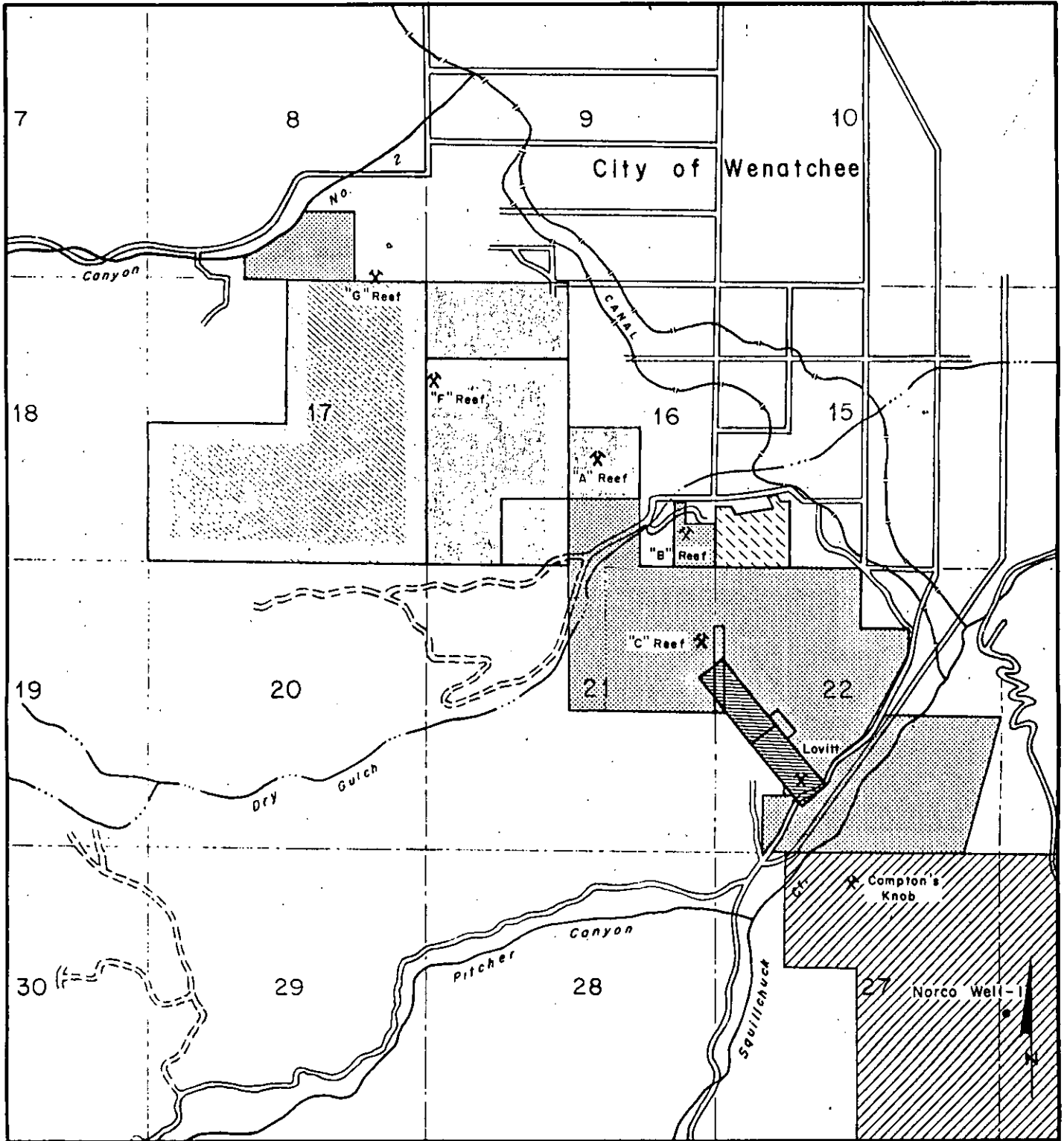
In order to expedite sample handling and sample preparation, the Lovitt crushing and pulverizing equipment was utilized to completely reduce rock chip, drill core and rotary drill samples to pulps. The latter were then shipped to two different laboratories for duplicate analyses. Internal check assays run at irregular intervals insured that no contamination occurred during sample processing.

A series of water quality control samples were collected from Dry Gulch and Squilchuck Creek at predetermined test stations to monitor variations in trace metal content from run-off waters at various times during the season and exploration stages. No contamination was detected.

LAND STATUS







Through various lease/option agreements with individuals and partnerships, and by obtaining several State leases, Cyprus Mines Corporation now controls a block of ground exceeding 2,000 acres (Figure 2, Plates 2 and 3). The following land is under option and lease:

1. Two patented lode claims (Golden King and Macbeth) held in trust by Seattle First National Bank. These claims cover the main portion of the Lovitt mine proper.
2. State lease No's. 61044 and 61144 totalling 280 acres. Wenatchee Silica Products State Lease No. 050139 (80 acres).
3. One 3/4 section of Fee land (Vernon Neel) totalling 480 acres.
4. About 30 acres of Fee land purchased from Ford. (SW 1/4 Section 15).
5. The majority of the Wenatchee Mining Partnership land between the Lovitt mine and "B" Reef, and some orchard land in No. 2 Canyon and Squilchuck Creek (about 700 acres).
6. About 640 acres southeast of the Lovitt mine covering Compton's Knob (Hallauer Lease).



E X P L A N A T I O N

OWNERSHIP

- | | | | |
|---|------------------------------|---|----------|
|  | NEEL |  | HALLAUER |
|  | STATE LEASE | | |
|  | CYPRUS | | |
|  | WENATCHEE MINING PARTNERSHIP | | |
|  | PATENTED CLAIMS | | |

0 1/4 1/2 1 MILE

CYPRUS EXPLORATION COMPANY	
Land Status Map	
LOVITT PROJECT	
CHELAN CO., WASHINGTON	
BY: d.b.c. DRAFTED BY: R.C.D. DATE: JULY 1975	Figure 2

GENERAL GEOLOGICAL SETTING

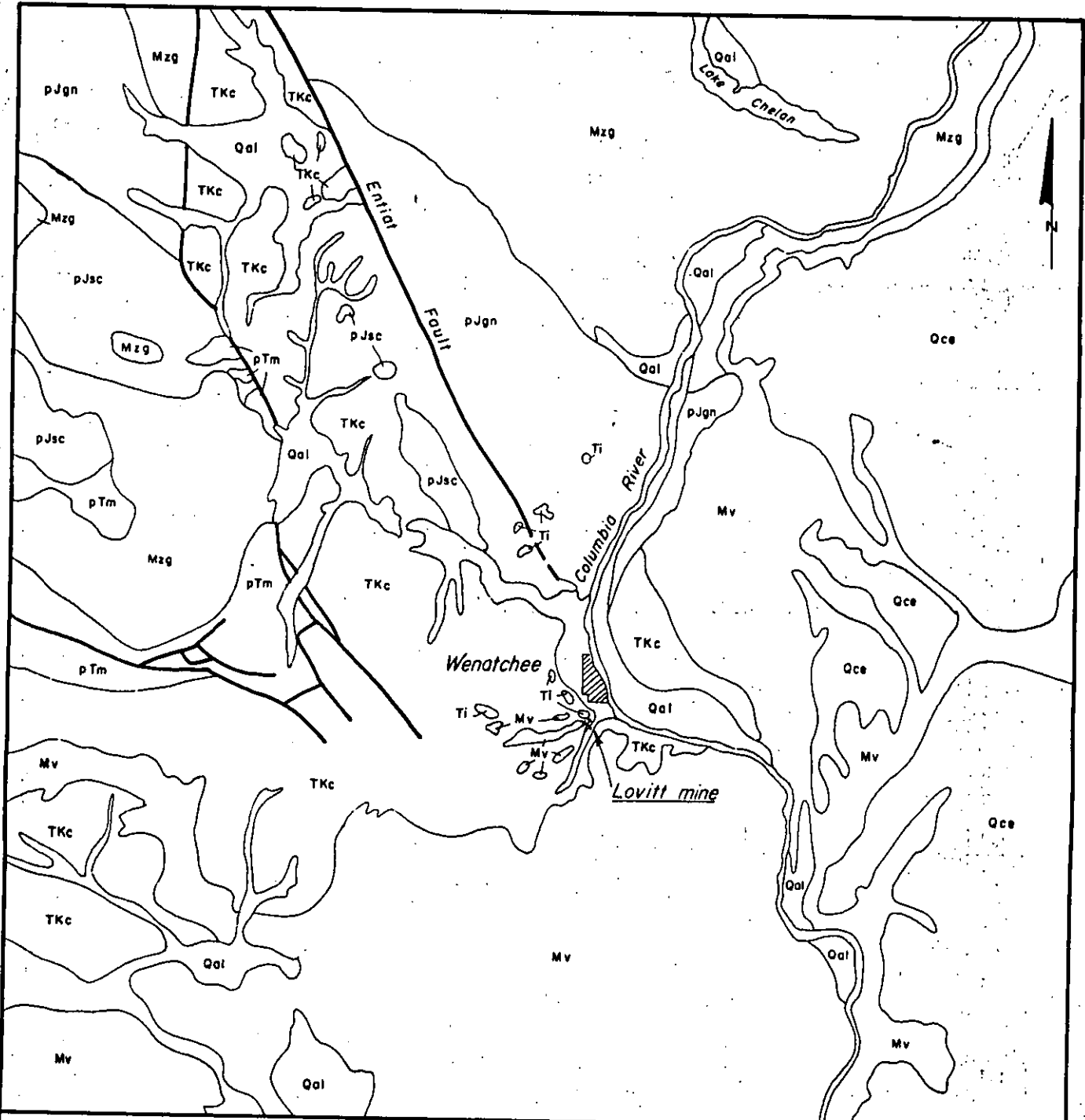
The Lovitt mine is in a strongly silicified portion of the Paleocene to Eocene Swauk Formation, a gently folded sequence of continental arkosic sandstones, shales and conglomerates (Figure 3). The mine is located in one of the more extensively silicified and mineralized arkose occurrences that is part of a narrow +2 mile long northwest-trending zone containing numerous altered arkose shows (Compton's Knob, "A" Reef, "B" Reef, "C" Reef, "G" Reef and "F" Reef). The various members of the Swauk Formation strike uniformly northwest between Wenatchee Hights and Number Two Canyon, but their dip varies considerably along strike. Post-depositional faulting has complicated the overall picture. In the vicinity of the mine, the unsilicified arkose beds are coarse grained, light yellowish gray, very friable and dip from about 40° at the mouth of Squilchuck Creek, to vertical near the position of the footwall fissure. The intervening siltstone and shale units are poorly exposed on the surface except for some good outcrops along the mine access road. On the west side of the Lovitt mine the sandstone units dip generally to the southwest, thus suggesting an anticlinal configuration over the Lovitt mine (Figure 4). This relationship is also suggested in the underground workings within the silicified arkose. A major synclinal structure is present about one-half mile southwest of the Lovitt mine.

A massive cobble and boulder conglomerate unit is exposed on the east side of the Lovitt mine, in the portal area of the 1150 level, in several shallow surface cuts west of Rooster Comb and in a few underground workings of "B" Reef. A

similar unit has also been intercepted by several Cyprus rotary drill holes and DDH- LV- 2 northwest of Rooster Comb, and by diamond drill hole DDH- LV-16 at "B" Reef. Considerable conglomerate float material is exposed between the above mentioned outcrop areas, and it is likely that one is dealing here with the same northwest- trending unit dislocated by numerous northeast- trending strike slip faults. The conglomerate is invariably composed of well- rounded felsic volcanic pebbles, cobbles and boulders set in an arkosic matrix. If better exposed, this conglomerate unit would constitute an excellent marker horizon within the generally monotonous Swauk arkose sequence.

Recent regional mapping by R. Gresens (1975) under the auspices of the Washington Department of Natural Resources (open- file) suggests that the massive sandstone- shale sequence in the Lovitt mine area can be subdivided into several formations and members. According to Gresens, the synclinal sequence west of Lovitt is younger than the sandstone- shale material east of Lovitt and unconformably overlies the latter. The entire sedimentary sequence is locally capped by the flat- lying flow remnants of the Miocene Yakima basalt (Figure 3 and Plate 1).

A series of isolated rhyodacite domes (Rooster Comb, Wenatchee dome) exhibiting well- developed flow- banding, and several elongated greenish gray hornblende andesite masses intrude the Swauk formation in a northwesterly alignment. Considerable speculation exists as to what importance the rhyodacite bodies played in the origin of the gold mineralization. With the exception of "A" Reef, nowhere are there volcanic rocks exposed in the presently accessible underground workings neither at Lovitt nor at "B" Reef.



- Qal Alluvium (Qal), glacial deposits (Oce)
- Mv Yakimo basalt 16 m.y.
- Ti Dikes, sills, small intrusive bodies
- TKc Swauk formation
- Mzg Granitic intrusive rocks 86 m.y.
- pJgn Gneiss
- pJsc Amphibolite schist
- pTm Peridotites, pyroxenites

0 4 8 16 MILES

CYPRUS EXPLORATION COMPANY	
Generalized Geologic Map LOVITT PROJECT CHELAN CO., WASHINGTON	
Data: U.S.G.S., EAS Drawn By: EAS Date: 4/76	Figure 6

Judging from underground and surface exposures at the Lovitt mine, the zone of silicification appears to have been developed along an anticlinal structure within the Swauk arkose. Bedding tends to dip steeply to the east in the eastern portion of the mine workings, and dip westerly in the western half of the workings (1100 and 1250 levels). The sedimentary rocks have been extensively disrupted by numerous northerly and northeasterly-trending fault structures. (Footwall fissure, N-S fault zone, 49 fault zone).

As seen in the underground workings, the individual fault structures are characterized by 2 - 20 foot wide slickensided gouge seams cutting silicified and unmineralized arkose alike. The major Footwall Fissure definitely terminates the mineralized portion of the Swauk arkose from the unmineralized, friable arkose along the eastern margin of the Lovitt mine. The northerly-trending N-S Fissure transects the Lovitt reef structure and displaces the northern block right-laterally for about 300 feet. It is certain that the last movement along these fault zones is of post-mineral age. They may genetically be related to the regional Entiat fault structure recognized a few miles north of Wenatchee (Lovitt and Skerl, 1950).

MINERALIZATION

The proximity of the various rhyodacite and andesite intrusive bodies to zones of silicification in arkose suggest a genetic relationship between the intrusive event and hydrothermal activity. No age dating has been done on the intrusive rocks nor the gold mineralization. However, it is very likely that hydrothermal solutions migrated into northwesterly-trending tensional zones during the waning stages of igneous activity in mid-Tertiary time causing large scale silicification in portions of the Swauk arkose.

On a regional scale, individual areas showing intense alteration and prominent iron oxide staining (jarosite and goethite) appear to be aligned in a northwest-trending belt (see land status map, Figure 2). These individual shows are referred to, in order of occurrence from southeast to northwest, as Compton's Knob, Lovitt mine, "C" Reef, "B" Reef, "A" Reef, "F" Reef, "G" Reef, and several unnamed alteration cuts in the vicinity of Saddle Rock. Because these occurrences differ to some extent in their appearance they will be discussed individually below in order of importance.

Lovitt Mine

The only detailed account on the gold-silver mineralization is by John M. Guilbert (1963) in a report to Day Mines, Inc. His examination is based on a suite of 10 selected specimens from various underground workings of the Lovitt mine given to him by Day Mines. Guilbert's conclusions are as follows:

1. Gold occurs as the native mineral and as electrum,
2. Silver is present as naumannite (Ag_2Se) and possibly aguilarite ($\text{Ag}_2\text{Se} \cdot \text{Ag}_2\text{S}$).

3. No tellurides of gold and silver have been identified.
4. Common gangue minerals are quartz, calcite, pyrite and marcasite; trace amounts of chalcopyrite, tetrahedrite, spalerite and stibnite are present.
5. Alteration in the arkose host rock yielded chlorite after biotite; sericite, kaolinite and illite after feldspars; and leucoxene after the titanium content in biotite.
6. Gold and naumaunite are very fine grained ranging in size from 1 to 80 . On the whole, crushing and grinding to - 400 mesh is necessary to liberate the majority of the precious metals.
7. Over 95% of the gold is not associated with (or encased by) pyrite-marcasite, but occurs with quartz veinlets.
8. Some of the gold and naumannite occurs with veinlets of very fine grained pyrite, but the precious metals surround the pyrite and thus insure easy liberation.
9. It is suspected that some of the pyrite may be auriferous and/or argentiferous, i.e. significant gold and silver values may be contained in the FeS_2 lattice. Analyses of pure pyrite concentrates should shed some light on this possibility.

Guilbert distinguishes several stages of silica introduction, an observation well substantiated by our own investigations. Three main modes of quartz occurrences are present:

- a. flood silica (silicification) in arkose adjacent to pyrite-marcasite veinlets

with finely disseminated gold and silver values in the silicified wall rock.

- b. fine grained, gray to milky white vein quartz
- c. coarse grained, clear coxcomb vuggy vein quartz.

The paragenetic sequence of ore and gangue minerals is not clearly understood, but Guilbert believes that gold was precipitated early in the overall hydrothermal cycle together with marcasite and quartz, followed by pyrite, and finally cross-cutting, barren quartz and quartz-calcite veinlets.

The emplacement of the hydrothermal solutions, at least in the Lovitt mine, occurred in a tensional stress field as evidenced by the systematic easterly trending gold-bearing quartz vein structures. In fact the same stress field must have remained in force throughout the entire hydrothermal activity, as the late-stage quartz-calcite veins follow a similar direction.

The main Lovitt reef forms a 50-200 foot wide zone of altered arkose that appears to dip steeply to the southwest. On the east side, the mineralized zone is definitely bounded by the steeply westerly dipping Footwall Fissure. The latter cuts the easterly trending quartz veins at nearly right angle and separates the pyritic arkose in the hanging wall from friable, unmineralized arkose in the footwall.

Even though the Lovitt reef appears uniformly silicified, gold mineralization within the reef is quite erratic. Past mining operations delineated three main ore zones (Blocks 1, 2 and 3) that probably reflect a higher concentration of quartz veins and attendant silicification at certain places within the zone of altered arkose.

Diamond and rotary drilling in the capping material (DDH-10 and 13; RDH-5, 6, 7, 8 and 17) gave somewhat discouraging results as far as near surface

"B" Reef appears to be an isolated structural block bounded on the west by a major north-northwest trending fault. A similar bounding fault structure is inferred on the north and east side of the prominent outcrop. Unfortunately, the reef structure is completely surrounded by gravel cover and over one-half of the underground workings are presently inaccessible (caved and flooded). But geologic information from earlier investigations and information from our recent diamond and rotary drill program tends to substantiate the above conclusions.

Fifteen (15) rotary-percussion drill holes and six angle diamond drill holes have been completed at "B" Reef amounting to 3,367 and 3,023 feet of drilling, respectively. Rotary drilling delineated the mineralized zone to the north and east, but confirmed gold mineralization to the south and along the west edge. The ensuing diamond drilling program then followed the mineralized trend with a series of angle holes southward beyond the last known underground workings (DDH-9). It was the objective of this drilling program to test the vertical extent of the mineralization below the deepest workings (873 level) and at the same time gain invaluable geological and structural information. Drilling has shown the following:

1. The main zone of "B" Reef mineralization continues southward but narrows considerably in the vicinity of DDH-9.
2. A second zone of gold mineralization exists west of the bounding fault as seen in drill holes DDH-1 and 11. This block of newly discovered mineralization appears to dip gently westward off Cyprus property and is covered by about 150 feet of gravel overburden (see ore reserve cross sections). The host rock is non-brecciated, biotite free, silicified

arkose containing 1-2% finely disseminated pyrite but no quartz veining.

In this section, the rock is firmly cemented by matrix silica surrounding and resorbing the original quartz and feldspar grains. Biotite, a major component in the unaltered arkose, is either absent or altered to chlorite. The gold content exceeds 0.04 oz and silver averages 0.15 oz. The precious metals must occur either with pyrite or as micronized constituents in the silica matrix.

3. The rhyolite-perlite sequence exposed at Wenatchee Dome extends partly beneath and to the north of "B" Reef, thus eliminating any depth potential for mineralization. The volcanic rocks contain no precious metals but a genetic relationship between the intrusive event and gold mineralization is not ruled out. Drill holes DDH-11 and 14 bottomed in perlite which is always in fault contact with the overlying sedimentary rocks.

A comprehensive ore reserve calculation has been completed on "B" Reef using all assay data presently available to us (channel samples, muck samples, information from over 150 Lovitt underground drill holes, and 21 Cyprus surface drill holes). The data are plotted on 1" = 50' plan maps and cross-sections on which mineralized blocks are outlined using a 0.04 oz Au cut off grade (see memos by E. A. Schmidt, 1976). Two independent ore reserve calculations were made; one using plan maps, the other cross-sections. The results are as follows:

	<u>Tonnage</u>	<u>Grade</u> <u>oz/ton Au</u>
Plan Maps	1,198,708	0.110
Cross Sections	1,284,322	0.109

The slightly higher tonnage figure for the cross-section calculation reflects a more realistic presentation of the geometry of the mineralized areas than can be shown on the level maps, especially the newly discovered mineralized block west of the bounding fault. No dilution factor has been taken into consideration, and past shipping ore has not been subtracted. No attempt was made to calculate a stripping ratio, but a close approximation would be 3:1.

"A" Reef

The "A" Reef structure is located about 2000 feet northwest of "B" Reef and is separated from the latter by alluvial and gravel cover. "A" Reef measures about 1250 by 100 to 150 feet, and consists of bleached, oxidized and silicified arkose breccia cut locally by few irregular quartz veins. Unlike "B" Reef and the Lovitt mine, a distinct porphyritic dacite (?) intrusive rock is exposed at "A" Reef in the underground workings and in a small surface cut at the north end of the outcrop. The intrusive rock is dark gray, highly siliceous with clay altered feldspar phenocrysts, and contains finely disseminated pyrite. Locally walls are coated with a bottle-green iron sulfate (rosenite?). The "A" Reef structure was investigated by A. Robinson in late 1974, and again in the spring of 1975 when Cyprus collected underground channel samples and surface trench samples. Thirty-nine (39) samples were analyzed for gold and silver by CMS and Union Assay Lab which average .025 oz/ton Au and 0.47 oz/ton Ag. These figures are slightly lower than Lovitt's muck samples from the same adit which average 0.037 oz Au and 0.51 oz Ag. Surface trench samples average 0.044 oz Au and 0.46 oz Ag. Previous underground drilling by Lovitt tends to confirm the muck assays. It appears that drilling consisted of long-holing into

various directions from one drill station. Average length of drill hole is 100 feet. Apparently, no deep drilling has yet been done at "A" Reef to test the vertical extent of mineralization. Additional drilling in this area is warranted to adequately define the geometry of the block of mineralized arkose, and also to test the IP anomaly detected a short distance to the south.

A series of narrow, completely silicified arkose exposures continue to the southeast from "A" Reef proper toward Appleatchee Riding Academy. One of the massive outcrops has been prospected by a 60 foot adit (lower "A" Reef adit) and our sampling indicates submarginal gold mineralization in this material (average 0.01 oz/ton Au). A continuation between "A" Reef and "B" Reef is certainly suggested by the outcrop pattern (Plate 3) although in detail the structural and geological relationships are much more complicated. As already discussed above, "B" Reef is terminated on the north side by unmineralized arkose and rhyolite at depth.

Compton's Knob

An isolated, iron stained arkose exposure measuring about 40 x 40 feet and generally referred to as Compton's Knob is located one-fourth mile southeast of the Lovitt mine completely surrounded by landslide material. Lovitt explored the property in the sixties by a 40 foot drift and six short drill holes into the face of the adit. One seven (7) foot interval indicates 0.21 oz/ton Au, but the remaining assays are less than 0.02 oz Au.

As seen in the adit, the silicified arkose block is overlain by sheared landslide material forming a several inch thick gently eastward dipping slickensided gouge surface at the contact. The origin of the altered arkose block is not clear, but it

appears to be part of the landslide material. Thus, its vertical and lateral extent may be limited. Only drilling will ultimately define its limits.

Trenching on the slopes above Compton's Knob failed to reveal bedrock, but some quartz float was recognized.

The silicified arkose exposure lies on the southeast extension of the regional zone containing similar and larger mineralized shows. Thus, its location constitutes a lucrative exploration target. Furthermore, a 4,903 foot deep oil well (NORCO No. 1) reportedly intersected rhyolitic intrusive rocks within Swauk arkose. One reported assay (905-923') indicates 0.016 - 0.048 oz/ton Au. The well is located on top of Wenatchee Heights about one-half mile southeast of Compton's Knob. Thus, there is some evidence that gold mineralization continues to the southeast past the Lovitt mine. A limited IP survey done by Van Blaricom over Compton's Knob in August 1975 did not reveal any substantial anomalies that would reflect sulfide mineralization beneath the landslide cover.

Cyprus Exploration proposed a fence of rotary drill holes across the inferred trend at Compton's Knob to prospect through the post-mineral cover and delineate the geometric configuration of the altered arkose at depth. Encouraging results would then be followed up by a diamond drilling program.

"C" Reef

Mineralization at "C" Reef was at one time considered to be a northwest extension of the Lovitt structure. "C" Reef has been explored by a 600 foot long adit (now caved) with muck samples averaging 0.02 oz/ton Au. One 20 foot interval assays 0.13 oz/ton Au and 0.24 oz/ton Ag. Surface geochemical sampling in a

small bulldozer cut on top of "C" Reef indicated 0.007 oz/ton Au. Three angle diamond drill holes were drilled underneath the "C" Reef workings (see Plates 1, 2 and 4, drill logs and assay logs) to determine possible increase in precious metal values with depth. Drill holes LV- 3 and 5 intercepted moderately silicified and sheared arkose containing abundant quartz- calcite veins with trace amounts of pyrite along their margins. Gold and silver values are universally low averaging 0.004 oz/ton Au and 0.06 oz/ton Ag. Drill hole DDH- LV- 4, collared near the portal and angled beneath the projected structure, never did intercept "C" Reef type material. Our exploration work at "C" Reef indicates that no precious metal mineralization of economic importance exists in this particular area.

Altered Arkose Exposures in the Vicinity of Saddle Rock

Several small road cuts and dozer trenches on the west side of Saddle Rock expose intensely bleached arkose with jarosite and goethite staining on fractures (Plate 3). Individual altered exposures vary from 20 to 100 feet in length, but heavy overburden and talus cover prevents direct observation of the total aerial extent of alteration involved. These altered areas are generally anomalous in gold mineralization averaging 0.03 to 0.04 oz/ton Au. The location of these altered areas in proximity to Saddle Rock may be fortuitous. Saddle Rock is an elongated intrusive body of dacite to andesitic composition. It is considerably sheared and contains abundant chlorite (deuteric?) after hornblende. Trace amounts of pyrite are present.

Without any further information on hand it is difficult to determine whether these individual outcrops interconnect to form a continuous alteration zone or not. Additional geochemical soil sampling is not recommended because of extensive talus

cover. Several IP test lines, however, using 50 to 100 feet dipole spacings should aid in delineating areas of possible sulfide concentrations.

"F" Reef.

A cluster of small pits and dozer cuts in the northwest 1/2 of Section 16 south of Old Butte expose limited iron staining and isolated blocks of silicified arkose. The latter are poorly exposed and invariably covered with talus debris. In many instances completely silicified blocks measuring 10 - 30 feet in length are in abrupt contact with unaltered, friable arkosic sandstone. These altered blocks are too discontinuous and erratic to represent in-place bedrock exposures. It is very likely that this material accumulated downslope from a source area to the south, perhaps in the vicinity of Saddle Rock. Rock chip and channel samples collected from various exposures in this area indicate 0.001 to 0.008 oz/ton Au. "F" Reef does not have the economic potential to be actively pursued any further.

"G" Reef

Here a small adit has been driven into iron stained and bleached arkose. Aside from the collection of several channel samples in the adjacent road and dozer cuts, no detailed work has yet been carried out at this location. The adit is just north of Wenatchee Silica State lease #050139 and off Cyprus owned land.

A 20 foot wide northwest-trending zone of altered arkose can be traced geochemically for about 300 feet between three different exposures south of the adit portal. Gold and silver are anomalous, ranging from 0.015 to 0.05 oz and 0.06 to 0.16 oz/ton respectively. A 120 foot continuous channel across the portal area of "G" Reef averages 0.012 oz/ton Au. The remaining channel samples average less than 0.01 oz/ton Au.

Some more detailed mapping and sampling, if possible underground, should be carried out here to delineate more closely the extent of precious metal mineralization.

Unnamed Dozer Cuts North of "A" Reef

A small outcrop of strongly silicified and iron stained arkose is located about 1200 feet north of "A" Reef off Cyprus controlled land. Detailed channel sampling revealed some anomalous gold values with one 10 foot channel assaying 2.55 oz/ton Au. A continuous channel along the north and west side of the outcrop averages 0.028 oz/ton Au and 0.5 oz/ton Ag. The silicified outcrop appears to be bounded by a westerly-trending fault zone on its north side. Heavy talus cover make geologic projections difficult, but it appears unlikely that this outcrop is a direct continuation of "A" Reef. In any event, the outcrop is not on Cyprus land at the present time and its proximity to the nearest Wenatchee housing development (about 600 feet away) may render this prospect off-limits to any kind of excavation in the near future.

GEOPHYSICS

Van Blaricom Geophysical Services of Spokane, Washington was contacted in April 1975 to carry out an Induced Polarization survey between the main Lovitt mine and "B" Reef. (Van Blaricom, 1975a). It was the objective to test a 3000 foot stretch of potentially mineralized ground which is largely covered by +50 feet of alluvial overburden. Six northeast-trending lines totalling about 3 miles were completed with each line spaced about 500 feet apart (Plate 2). The survey was run with time domain IP equipment manufactured by Elliott Geophysical Company of Tucson, Arizona. Two weak northwest-trending resistivity anomalies were detected which at that time were interpreted to represent silicified arkose. One anomaly lies in the vicinity of Rooster Comb, and the other follows more or less the trend of "C" Reef. Subsequent diamond drilling (DDH-LV-2), reinterpretation of rotary drill cuttings and some detailed surface mapping clearly shows that the Rooster Comb anomaly relates to the volcanic cobble conglomerate unit already discussed above. Nevertheless, IP is still considered to be a useful tool in this particular environment to delineate zones of silicification and sulfide mineralization in areas of poor exposure.

Total cost for this survey amounted to \$3,375.

A follow up IP survey was completed by Van Blaricom Geophysical Services in August 1975 in three areas (Van Blaricom, 1975b):

1. "A" Reef
2. Lovitt Mine
3. Compton's Knob

Underground and surface sampling and mapping at "A" Reef by A. Robinson (1975), Don Cooley and Wayne Peterson showed encouraging results to warrant follow up IP. Five (5) short lines were run totalling 4700 feet. Three of the lines cross the "A" Reef outcrop, and two lines were run across the gravel covered area south of "A" Reef. A distinct northwest-trending IP response is delineated covering "A" Reef and continuing to the southeast. A major shear zone (fault) appears to bound "A" Reef on the west side.

The "A" Reef area has been recommended by the Exploration Staff for future drilling.

A 1000 foot test IP line was run over known mineralization at the Lovitt mine. The line trends north-northeast across the north block in the vicinity of RDH-12 and the entrance to the 1550 level. The silicified arkose gave a good IP and resistivity response, and the results were used as a relative guide to measure other responses against.

Two lines totalling 1800 feet were completed over Compton's Knob to test potential continuity of silicified arkose beneath landslide material. Line G was run directly over the small outcrop in an approximate N 55 E direction but failed to detect any IP or resistivity responses of geological importance. A second line was run parallel to but 200 feet south of line G. No IP response was registered along the second line.

gives also a flat response with values ranging from 5- 125 ppm and averaging 73 ppm. Copper ranges from - 5 ppm to 50 ppm and averages 16 ppm.

In all of these preceding analyses, the elements do not show a marked increase in rock chip samples collected from silicified arkose exposures (Lovitt mine and "B" Reef) with respect to the soil samples. Gold, silver, mercury and arsenic are, however, much more sensitive in discriminating between soil and rock chip samples. Gold was not detected in the soil samples but ranges from 0.2 to 2 ppm in outcrop samples. Similarly, silver is uniformly less than 1 ppm in soil but ranges up to 5 ppm in rock chip. Mercury and arsenic give a somewhat erratic response and show no consistent pattern. Background mercury in overburden is about 150- 200 ppb, with highs of 600- 1450 ppb corresponding to outcrop samples (silicified arkose). The arsenic content in overburden ranges from - 5 to 205 ppm, and ranges from 85 - 515 ppm in silicified arkose samples.

It should be noted that most of the soil samples represent transported overburden material (especially in the "B" Reef area) and do not reflect a true soil horizon.

Cooley concluded that gold and silver are the only reliable elements in the search for additional mineralized areas by sampling rock exposures.

"A" Reef Area

All accessible trenches and road cuts were systematically sampled on and around "A" Reef to determine the gold content in the surface exposures at "A" Reef Proper, and to detect any possible trend in the immediate vicinity. A total of 138 samples were collected and analyzed for gold and silver at CMS and Union Assay Lab. Each sample represents a 10 foot horizontal channel cut into the rock wall.

Sample locations and corresponding assay values (averaged) are shown on Plate 3. Thirty-nine (39) surface samples from "A" Reef average 0.0444 oz Au and 0.46 oz Ag (Union Assay Lab).

A number of roadcuts sampled north of "A" Reef expose only talus debris from nearby Saddle Rock, and the obtained values do not reflect underlying bedrock material. Assays are correspondingly low averaging <.001 oz Au and <.1 oz Ag.

A small isolated silicified arkose outcrop located about 1200 feet directly north of "A" Reef (off present Cyprus land) shows a few anomalous gold and silver readings. Fourteen (14) samples average 0.028 oz Au and 0.43 oz Ag. One 10 foot sample assays 2.5 oz Au and 1.17 oz Ag (not included in above average).

"A" Reef is a prospect that should definitely be evaluated further.

Lovitt Mine - "B" Reef Area

Dry Gulch - No. 2 Canyon Area

All available road and surface cuts between the north end of the Lovitt mine and "B" Reef, and Dry Gulch and No. 2 Canyon were systematically channel sampled in July 1975. Each sample represents a 20 foot cut made into the road bank or wall of a prospect pit. A total of 198 samples were analyzed for gold and silver at CMS and Cyprus Research Laboratory. Their location and average assay value is shown on Plates 3 and 4. The majority of the samples average less than 0.01 oz Au, but several widely spaced small silicified arkose exposures west and northwest of Saddle Rock show gold concentrations ranging from 0.04 to 0.08 oz Au. Unfortunately heavy talus cover and general alluvial debris prevents a more detailed sampling and mapping program in this particular area. It is very likely that these isolated silicified

exposures represent out-of-place megablocks without any depth continuation. Some of these exposures are referred to as "F" and "G" Reefs.

Detailed Rock Chip Sampling over the Lovitt Mine

In order to determine the gold content in the silicified outcrop areas directly above the Lovitt underground workings that are for the most part too rugged to explore by surface drilling, a program of detailed rock chip sampling was carried out in two separate areas. Area 1 encompasses the north ridge (northwest of the N-S fissure) and area 2 encompasses the main reef structure southeast of the N-S fissure (see Plates 5 and 6).

A total of seventy-seven (77) samples were collected on a random basis guided by the availability of bedrock exposures. Each sample represents rock chip material collected over a 20 foot wide radius. Enough material was collected at each sample station to fill a 7 x 10" sample bag weighing about 5 pounds. Individual sample stations are tied to nearby survey stations and drill holes by Brunton and tape.

Results from the North Reef Area (Plate 5) are uniformly low enough though the rock exposures show moderate to strong silicification, iron staining and easterly-trending quartz veining. The 22 samples analyzed average 0.002 oz Au and less than 0.1 oz Ag. This area has also been tested by DDH-LV-10 trending southeasterly across the vein structures. Results from LV-10 are equally discouraging averaging 0.004 oz Au and 0.04 oz Ag over the entire length of the hole. It is likely that the quartz veining represents a late stage hydrothermal event following the main period of gold precipitation.

Fifty-five (55) samples collected over the South Reef area show a wider range of gold values. The irregular shape of the sampled area is a function of outcrop

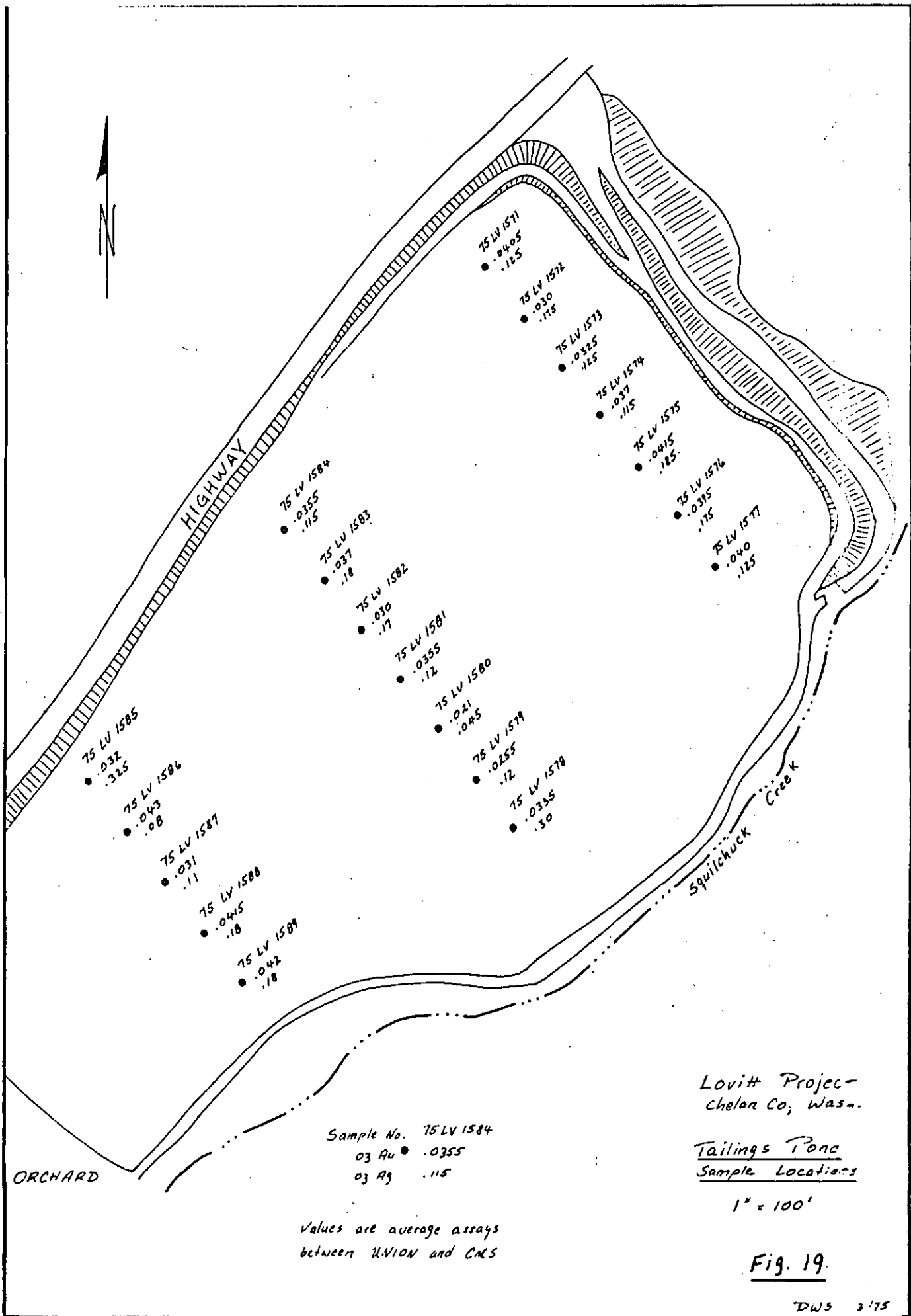
availability. The samples assaying $+0.02$ oz Au have been contoured and are shown on Plate 6.

Within the contoured areas values range up to 0.18 oz Au. Bedrock again consists of silicified and iron stained arkose cut extensively by easterly trending quartz veins. Some of the better gold values certainly reflect abundant quartz vein material in the sample. It is interesting to note that megascopically the gold-bearing quartz vein structures in the South Reef Area differ very little from the barren quartz veins in the North Reef Area. Likewise, the outcrop area in the vicinity of DDH-LV-13 appears as well mineralized as the iron stained exposures further south, but rock chip samples average only 0.002 oz Au. Similarly the upper 340 feet of DDH-13 average 0.004 oz Au in pyrite-bearing arkose. The lower 85 feet of the same hole, however, average $+0.05$ oz Au projecting beneath the barren surface exposures.

DDH-LV-17 trends beneath the southern portion of the reef structure but failed to intersect the projected downward extension of the silicified zone.

Tailings Pond Sampling

At the request of A. A. Bakewell, nineteen (19) auger samples were collected from the main tailings pond at Squilchuck Creek and analyzed for gold and silver. Only the top 5 feet were manually sampled because muddy conditions prevented heavy machinery to be moved onto the tailings pond at that time. Gold appears to be uniformly distributed in the sampled intervals averaging 0.035 oz. Silver appears somewhat more erratic but averages 0.155 oz. Figure 19 is a sketch of the sampled tailings pond showing sample location and corresponding gold and silver values.



UNDERGROUND SAMPLING

In order to confirm the reliability of the reported Lovitt assays, Cyprus personnel undertook an extensive underground sampling program at the Lovitt mine, "B" Reef and "A" Reef. Collectively, 572 channel samples were taken at the three localities. A tabulation of the check assays for each mine is given below:

<u>Lovitt Mine</u>	<u>No. of Lovitt Assays</u>	<u>No. of Cyprus Assays</u>	<u>Ave. oz. Au Lovitt</u>	<u>Ave. oz. Au Cyprus</u>
1100 Level	148	139	.084	.099
1250 Level	53	89	.086	.051
1550 Level (incl. highgrade)		44	.22	.053
1550 Level (less highgrade)		44	.058	.053
1550 Open Cut	None	30		.034
1315 Level	None	25		.040
1374 Level	None	17		.021
1442 Level	None	24		.021
		Total		
		<u>368</u>		
<u>"B" Reef</u>				
1000 Level	19 (mucks)	71	.47	.113
1040 Level	None	32		.135
Decline	None	44		.043
Fossil Leaf Bench	None	11		.059
		Total		
		<u>158</u>		
<u>"A" Reef</u>				
Upper Adit	54 (mucks)	39	.037	.025
Lower Adit	None	7		.010
		Total		
		<u>46</u>		

The Cyprus samples represent continuous 10 foot channels cut into the walls after surface encrustations and mine dust had been removed. On the average, every sample contains about 10 pounds of material. The Lovitt samples represent for the most part small channels 1 - 5 feet long taken during the drift advance from the back, breast or rib. About 250 of the tabulated assays can directly be compared between Lovitt and Cyprus, and the overall results are in good agreement. Higher Lovitt assays probably represent areas already mined or no longer accessible. Also, a small bias may be present in the Lovitt assays that fall into the 0.01 to 0.02 oz. Au range. This kind of material was certainly of no economic interest during the mining operation and little attention was paid to accurately determine its gold content.

Because only portions of the main levels (1100 and 1250) were accessible when the work was carried out in the spring of 1975, sampling became very selective, and large areas still remain where neither Lovitt nor Cyprus report any assay results.

ROTARY DRILLING

A total of 44 rotary drill holes (Plate 2) have been completed between December 1974 and July 1975 amounting to 16,620 feet of drilling. Hugh M. Harris Drilling Company was contracted to carry out the program. Drilling was carried out in two phases. Phase I commenced in December 1974 and was completed in January 1975. Phase II commenced in April 1975 and was completed in June 1975. The initial drilling had to be confined to the two patented claims (Macbeth and Golden King) because of difficulties in land negotiations at that time. Ten (10) holes were drilled (RDH 5 through 17) following to some extent R. Chadwick's drill site recommendations. (See Summary Logs and Assay Logs, appended).

The ten holes range in depth from 107 to 840 feet and amount to 4,343 feet of drilling. It was the objective to test the potentially mineralized ground above the indicated ore bodies on the various levels and to test the southern extension of "C" Reef. Only four holes (LV- 6, 12, 12B and 17) intersected encouraging gold mineralization. However, there is some doubt about the quality of the returned samples in holes 12 and 12B. The two holes are collared on dump material in front of the present entrance to the 1550 level, and the holes apparently never went into bedrock.

Drill holes (LV- 9, 10 and 11) were designed to test the southward extension of "C" Reef, but all three are barren of mineralization. With the exception of some oxidized and silicified arkose in the upper portion of LV-11, all three holes penetrated completely unmineralized friable arkose and shale.

The remaining holes (LV- 5, 7 and 8) collared in well oxidized and silicified arkose in the northern Lovitt block but even though the holes intercepted a fair amount of pyrite and quartz veining, gold mineralization remained in the 0.00x oz/ton range.

Total drilling cost for Phase I is \$27,778 which amounts to \$6.40/ft.

Drilling Phase II commenced in April 1975 after a preliminary agreement was reached with the Wenatchee Mining Partnership. It was the objective to test potentially mineralized ground between the Lovitt mine and "B" Reef, a distance of over 1 mile, to follow up some weak to moderate IP anomalies and to test "B" Reef. Thirty-four (34) rotary-percussion holes were completed by June 1975 totalling 12,277 feet of drilling. The holes range in depth from 60 - 825 feet. The second phase drilling program started at "B" Reef where several holes confirmed ore-grade gold mineralization to the west and south of the outcrop area. Drilling also indicated that the post-mineral rhyolite-perlite sequence exposed at Wenatchee Dome just east of "B" Reef, dips toward and partly beneath the "B" Reef structure. Drilling also indicated that "B" Reef is bounded by some major post-mineral fault zones, particularly on the west side.

A fence of rotary holes was laid out along some of the northeast-trending IP lines at 50 to 100 foot spacings. Several holes penetrated what was originally thought to be a silicified and weakly mineralized horizon of the Swauk arkose dipping about 50° to the east. Assay results, however, were very discouraging (0.00x oz/ton Au range) and subsequent detailed relogging of the drill cuttings indicated that the "silicified horizon" is in actuality a cobble and boulder conglomerate unit composed

mainly of dense, felsic volcanic material. Weak pyrite mineralization occurs in the matrix. The presence of the conglomerate horizon was later substantiated by diamond drill hole LV- 2.

Rotary drilling continued in the No. 3 ore block area of the Lovitt mine, but assay results again were not very encouraging in spite of the presence of silicified and pyritic arkose in the holes. The rotary drilling program finished by drilling several additional holes north and east of "B" Reef to determine possible mineralized extensions, and to define the rhyolite - brecciated arkose relationship.

Total cost for drilling Phase II is \$73,989.78 which amounts to \$6.03/ft.

Table 2: ENGINEERING DATA FOR ROTARY DRILL HOLES

Drill Hole	Depth	Collar Elevation	Bottom Elevation	Lovitt Coordinates	
				N	E
LV- 5	473'	1947.59'	1474.59'	7,215.13	25,935.93
x 6	523'	1941.16'	1418.16'	7,305.28	25,990.02
7	325'	1935.62'	1610.62'	7,099.49	25,975.60
8	580'	1932.55'	1352.55'	6,989.37	26,117.41
9	195'	1989.97'	1794.97'	7,291.60	25,412.37
10	840'	1983.71'	1143.71'	7,377.43	25,473.55
11	840'	1981.05'	1141.05'	7,398.47	25,552.80
x 12	107'	1543.48'	1436.48'	6,517.73	26,561.03
y 12B	140'	1543.70'	1403.70'	6,496.02	26,586.74
x 17	320'	1509.27'	1189.27'	6,198.71	26,617.98
18	170'	1048.59'	878.59'	10,525.03	24,786.38
19	140'	1051.37'	911.37'	10,574.26	24,761.46
20	324'	1123.45'	799.45'	10,283.95	25,030.74
21	68'	1134.76'	1066.76'	10,289.31	24,831.41
22	250'	1134.04'	884.04'	10,285.81	24,878.59
23	365'	1131.58'	766.58'	10,282.84	24,930.37
24	505'	1288.52'	783.52'	9,652.95	25,234.23
25	445'	1277.31'	832.31'	9,619.70	25,133.10
26	325'	1273.67'	948.67'	9,590.14	25,035.05
27	505'	1271.62'	766.62'	9,555.33	24,934.74
28	60'	1273.50'	1213.50'	9,598.89	25,084.41
29	505'	1497.68'	992.68'	8,671.45	25,445.10

Table 2: ENGINEERING DATA FOR ROTARY DRILL HOLES (cont.)

Drill Hole	Depth	Collar Elevation	Bottom Elevation	Lovitt Coordinates	
				N	E
LV- 30	825'	1480.36'	655.36'	8,701.55	25,534.47
31	500'	1491.07'	991.07'	8,732.19	25,634.63
32	525'	1667.26'	1142.67'	8,180.66	25,819.72
33	725'	1862.74'	1137.47'	7,672.56	26,076.92
34	725'	1856.98'	1131.98'	7,848.26	26,150.05
35	505'	1654.45'	1149.45	8,314.32	25,876.35
36	500'	1648.87'	1148.87'	8,351.77	25,910.34
37	370'	1501.82'	1131.82'	8,746.39	25,688.36
38	430'	1503.07'	1073.07'	8,774.14	25,728.67
39	410'	1522.46'	1112.46'	8,687.73	25,769.90
40	310'	1484.44'	1174.44'	9,114.77	25,564.02
41	230'	1459.42'	1229.42'	9,378.17	25,550.66
42	510'	1302.31'	792.31'	9,682.53	25,328.37
43	230'	1048.77'	818.77'	10,625.62	24,741.72
44	170'	1049.05'	879.05'	10,601.62	24,751.81
45	310'	1046.80'	736.80'	10,767.7	24,679.2
46	350'	1050'	700'	10,765	24,780
47	250'	1060'	810'	10,677	24,876
48	170'	1060'	890'	10,598	24,984
49	230'	1060'	830'	10,655	24,930
50	190'	1060'	870'	10,677	24,926
51	150'	1060'	910'	10,675	24,981

DIAMOND DRILLING PROGRAM

A diamond drilling program was initiated in late July 1975 to follow up results from the previously completed rotary drilling program, to test the extent of mineralization near "C" Reef, and to explore the silicified capping material over the Lovitt mine proper. Eighteen (18) drill holes were completed by mid January 1976 when the entire program was turned over to Technical Services. Diamond drilling totals 9,290 feet with individual holes ranging in depth from 185 to 933 feet. Pertinent engineering data for each hole is given in Table 3. Drilling was primarily concentrated in three areas discussed in more detail below:

1. "B" Reef
2. Vicinity of "C" Reef
3. Lovitt mine

"B" Reef

It was the objective to test first of all the encouraging results obtained from some of the rotary drill holes south of "B" Reef. Diamond drill hole DDH-LV-1 was placed in such a position as to transect a number of rotary drill holes (LV-22 and 23) containing ore-grade mineralization, and at the same time learn something about the nature and control of the mineralization. The underground workings in this particular area of interest are not accessible any more for observation and sampling. Results from DDH-1 are encouraging in many respects. The hole confirmed the gold mineralization encountered in the rotary drill holes, but also intersected a 91 foot zone of moderated silicified arkose west of the bounding fault assaying .02 to .08 oz. Au and averaging .04 oz/ton Au. This mineralized zone is covered by

about 150 feet of alluvial overburden and its existence had not been known before (see cross section). This mineralized zone was further tested by drill hole LV-11 located about 100 feet north of DDH- LV-1 with similar results.

DDH- 9 is the furthest hole drilled to the south, and it intersected 60 feet of moderately silicified arkose averaging .062 oz/ton Au. It is apparent that the zone of gold mineralization diminishes southward, but the limits have not yet been completely delineated. (See ore reserve cross sections.)

Two additional angle holes (LV-14 and 16) were drilled in close proximity to "B" Reef to test oxidized capping material and vertical extent of mineralization. Diamond drilling results in the "B" Reef area can be summarized as follows:

1. A narrow zone of gold mineralization in the 0.04 oz/ton range has been defined in the vicinity of drill holes LV-1 and 11; the zone appears to dip gently to the west off Cyprus- controlled land and it is still open in that direction.
2. The main zone of "B" Reef gold mineralization narrows considerably southward, but it has been intersected by DDH- 9 (about 200 feet south of DDH-1).
3. "B" Reef mineralization is bounded by a steeply easterly dipping fault zone on the west side of the main outcrop area. A similar fault structure may terminate brecciated arkose to the north and east.
4. Angle hole diamond drilling beneath "B" Reef (LV-11 and 16) shows that mineralization does not extent for any considerable distance below the 873 level (see ore reserve cross- sections). The post- mineral

rhyolite and perlite sequence extends partly beneath "B" Reef but appears to be in fault contact with the sedimentary rocks. Drill hole LV-11 bottomed in perlite beneath the 873 level.

5. "B" Reef itself appears to be an isolated mass of silicified brecciated and mineralized arkose without direct connection with the main Lovitt reef structure. Its limits are well defined to the east and north, but not yet well defined to the south and west.

Vicinity of "C" Reef

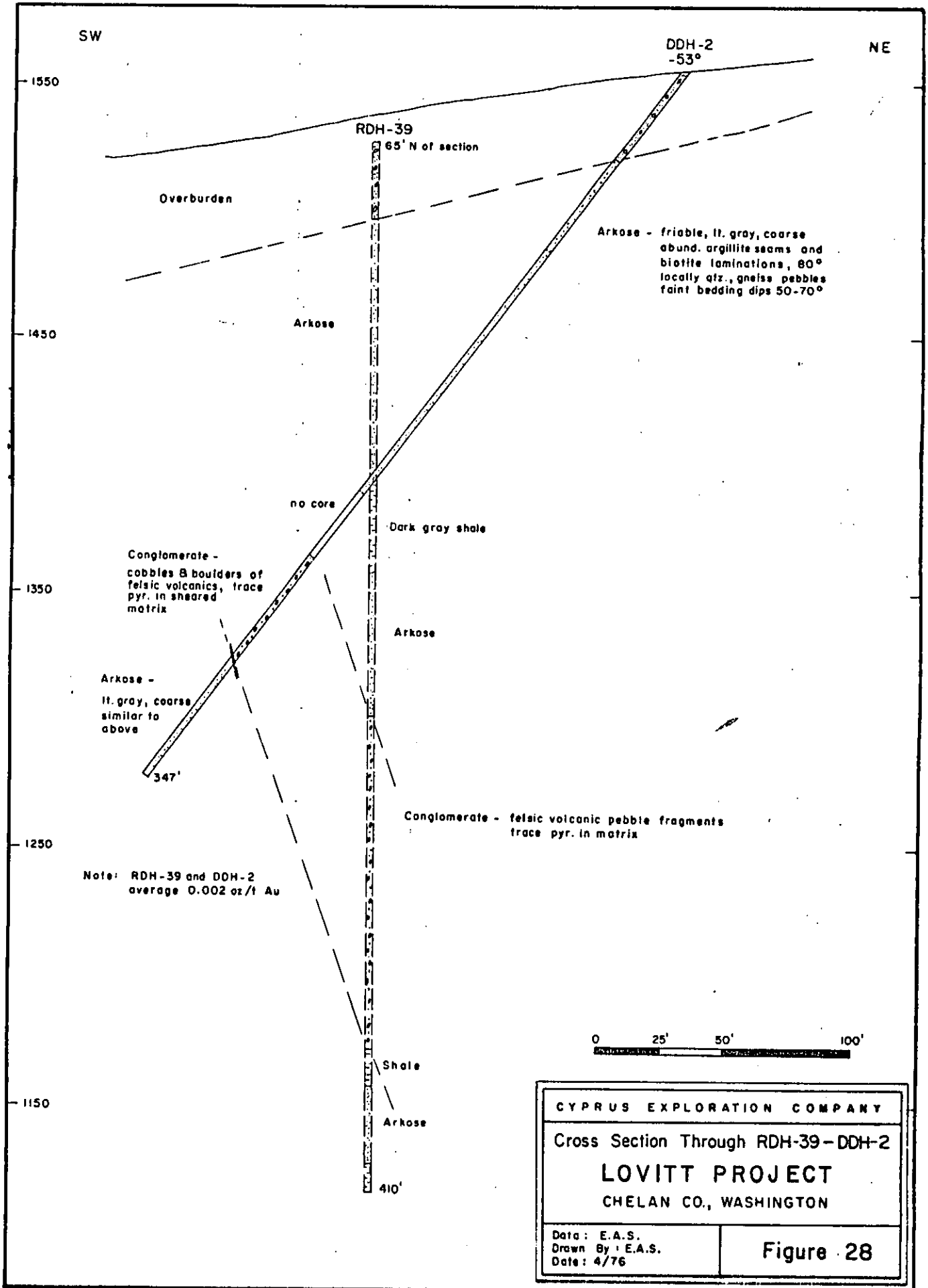
Four angle holes (DDH- LV- 2 through 5) have been drilled in the "C" Reef area. Three holes tested the projected reef zone at depth and the fourth (LV- 2) was collared several hundred feet to the east in a weak to moderate IP anomaly, "C" Reef is developed by a 600 foot long adit completed by the Anaconda Company during the early fifties. The adit is now inaccessible, but assay results average 0.02 oz Au. Our drilling program was designed to intersect the "C" Reef structure below the adit level and varify Anaconda's assay results. Two drill holes (LV- 3 and 5) transected either wholly or partly the mineralized structure but results are very discouraging (Figure 27). The gold content in both holes averages 0.004 oz/ton. DDH- LV- 4 was positioned in front of the caved portal and plunges toward the moderately iron stained outcrop area of the adit. The hole remained entirely in the friable unmineralized shaly arkose and never transected the "C" Reef structure. Accordingly, gold values in this hole average 0.00x oz/ton.

Drill hole LV- 3 bottomed in a hornblende andesite intrusive rock which crops out a few hundred feet west of "C" Reef. The occurrence of andesite in LV- 3

suggests that the intrusive rock forms an easterly dipping sill-like (?) body within the arkosic sandstone sequence. The andesite is unmineralized.

Drill hole LV- 2 was collared to test the weak IP anomaly, and to determine the character of the "siliceous and pyritic" material encountered in a number of rotary drill holes in this area. As pointed out above, the "siliceous" material corresponds to a thick cobble and boulder conglomerate unit composed predominantly to felsic volcanic fragments with some pyrite in the matrix. The conglomerate is believed to be an easterly- dipping (50- 65°) unit of the Swauk formation and probably correlates with similar conglomerate exposures on the east side of "B" Reef (1046 level and decline), on the west side of Rooster Comb, and on the east side of the Lovitt reef structure. The gold content averages 0.002 oz/ton throughout the entire hole and shows no particular increase in the conglomerate. Results of diamond drilling in the "C" Reef area can be summarized as follows:

1. "C" Reef shows no increase in gold content with depth.
2. The mineralized structure is dipping moderately to the east.
3. The "silicified arkose" thought to have been found by the previous rotary drilling program several hundred feet east of "C" Reef corresponds to a felsic volcanic cobble conglomerate unit within the overall Swauk formation containing less than 1% disseminated pyrite in the matrix. The conglomerate contains no gold.
4. The Lovitt mine and "B" Reef are not connected by a continuous zone of mineralization.



Lovitt Mine

Eight holes (DDH-LV- 7, 8, 10, 12, 13, 15, 17 and 18) were drilled in the vicinity of the main Lovitt reef structure ranging in depth from 192 to 933 feet. It was the aim to:

1. Test the silicified and oxidized capping material over the Block 3 ore zone.
2. Test the extent of mineralization below the existing mine workings.
3. Cross- cut the easterly trending vein structures with several angle holes.

Drilling in the capping material so far failed to intersect near- surface economic gold mineralization. Drill holes LV- 8, 10 and 13 were specifically oriented to test this concept. DDH-LV- 8, however, did intersect encouraging gold mineralization at some depth where a previous rotary hole (RDH- 34) reported only trace amounts of mineralization. It is likely that angle hole DDH- 8 transected steeply- dipping gold- bearing quartz veins at a more favorable angle than the vertical rotary hole, and thus accounting for the apparent discrepancies.

Drill holes LV-10 and 13 transected a myriad of quartz- calcite veins and veinlets in silicified arkose but with the exception of the deeper portion of LV-13, no gold mineralization is associated with these vein structures.

Drill holes LV-15 and 18 substantiated encouraging gold mineralization in the Block 3 area, whereas DDH- LV-12, drilled vertically from site 15, failed to intersect any gold mineralization.

DDH- LV-17, located at the southeastern end of the Lovitt reef structure, was aimed to test the continuation of the mineralized zone below the 875 level

and eventually cut the southwest-dipping foot wall fissure zone. The hole bottomed at 933 feet in friable unmineralized arkose without ever transecting the projected continuation of the Lovitt structure. A 30' brecciated and partly silicified arkose section containing minor amounts of disseminated pyrite, dark gray, cherty quartz fragments and chloritic shear planes is present in the lower portion of the hole (750 - 780'). This interval is bounded by massive fault gouge and may represent a faulted segment of the Lovitt reef. Gold, however, averages only .002 oz/ton in this particular interval. The remaining portion of DDH-17 assays between <.001 and .003 oz/ton Au.

Drilling Performance

The drilling contract was assigned to Connors Drilling Company of Spokane, Washington. Two skid-mounted angle rigs (a Longyear 44 and a new Wesdrill) were put on the job. Considerable difficulties were encountered during the initial drilling phase to penetrate loosely consolidated overburden and to prevent the holes from sanding in once drilling continued in friable arkose bedrock. The use of heavy drill mud, large diameter bit size (HQ) and experienced drilling personnel eventually solved the problems. Core recoveries dropped locally below 50% especially in the friable arkose. Overall core recoveries in the mineralized portions remained above 90%. Longyear Drilling Company was contracted toward the end of the program to complete two holes (DDH-LV-13 and 17).

Connor's drilling costs are relatively high averaging \$30.00/foot. Lonyear's drilling costs average \$25.78/foot. Connor's high drilling cost reflects the considerable amount of drill steel, core barrels and bits lost in the holes during the early phase of the diamond drilling program.

LOVITT PROJECT

Table 3: Engineering Data of Diamond Drill Holes

Drill Hole	Depth	Washington State Coordinates		Collar Elevation	Trend	Inclination
		N	E			
1	574'	144,317.65	2,125,882.65	1138.17'	N86E	- 60°
2	347'	142,723.28	2,127,105.15	1554.70'	S70W	- 53°
3	337'	142,390.63	2,126,613.93	1602.23'	S75W	- 53° 65°
4	321'	142,594.01	2,126,441.35	1572.90'	S30W	- 65°
5	185'	142,101.83	2,126,743.70	1673.95'	S70W	- 50°
6	408'	144,228.04	2,125,938.39	1150.28'	Due East	- 65°
7	192'	142,110.97	2,127,612.07	1815.99'	Vertical	
8	975'	141,982.43	2,127,410.41	1849.96'	S40W	- 70°
9	572'	144,136.50	2,125,970.48	1163.91'	Due East	- 60°
10	729'	141,140.64	2,127,221.74	1934.97'	S40E	- 53°
11	681'	144,392.35	2,125,843.07	1114.88'	N75E	- 65°
12	528'	141,562.37	2,127,426.96	1783.29' at 529'	Vertical Vertical	
13	465'	140,239.93	2,127,687.62	1606.18'	S50E	- 55°
14	260'	144,584.58	2,126,047.46	1103.58' at 245'	S65E S67E	- 68° - 69°
15	453'	141,560.05	2,127,423.37	1783.32' at 430'	S50W S59W	- 55° - 62°
16	530'	144,662.66	2,126,160.64	1060.63' at 500'	S70W S78W	- 55° - 59°
17	933'	139,341.72	2,128,293.09	1158.43 at 511'	N20E N21E	- 75° - 76.5°
18	800'	141,712.82	2,127,424.97	1788.93' at 535' at 790'	S60W S60W S64W	- 55° - 61° - 63°
<u>9,290'</u>						

SAMPLE PREPARATION

With the start up of the second rotary drilling phase and the accumulation of underground channel and surface geochemical samples, it became necessary to process the material locally rather than to ship bulk samples to our regular crushing facilities in Philipsburg, Montana. Experienced Cyprus personnel was moved to Wenatchee to ready the old Lovitt laboratory for sample handling. The crushing and pulverizing equipment at the lab needed little repair and it was generally in good running condition.

Incoming material was dried (if necessary), crushed, split and pulverized. Generally, three 70 gram pulps were prepared from each sample of which two went to assay laboratories for duplicate analyses and one was retained for future use.

The following laboratories were used:

CMS Laboratory, Salt Lake City, Utah (AA)

Union Assay Laboratory, Salt Lake City, Utah (Fire)

Cyprus Research Laboratory, Los Angeles, California (Fire)

Good agreement in assay results have been obtained by CMS and Union even though CMS uses Atomic Absorption for their analyses, and Union uses strictly fire assaying. Initial assay problems at Cyprus Research Laboratory were overcome as time went on.

Diamond drill core was carefully logged, and then split using manual and hydraulic core splitters. One-half of the core was retained for future reference. In order to determine whether one-half split of drill core represents a reliable sample for the average gold content in that particular core portion, a number of

continuous intervals from selected drill holes were chosen, and the second half of the core processed in the usual manner. Pulps were sent to CMS and CRL for duplicate analyses, and the results are given in Table 4. The expression "1st $\frac{1}{2}$ " in the table refers to the original split core portion and the expression "2nd $\frac{1}{2}$ " denotes the check assay on the remaining core portion. The agreement between a set of two assays is generally quite good for a certain laboratory, but it tends to vary substantially in places between CMS and CRL. Assay results from CRL tend to be higher by 11% to 55%. This discrepancy may reflect differences in assay methods employed: CMS uses AA and fire assay for high grade samples, whereas CRL uses fire assaying exclusively.

It is certain that splitting the Lovitt drill core in no way biased the overall gold assay. The check sampling also indicates that gold is quite uniformly distributed in the tested intervals and that the bulk of the metal does not occur as coarse sporadic free gold in fractures or along quartz veins.

As a precaution against contamination during sample handling, internal check assays were run on a more or less regular basis. Unaltered basalt was used as a blank, and previously processed pulps selected at random were used to give an additional assay check. The results are shown in Table 5.

Basalt uniformly assays <0.001 to 0.001 oz/ton Au, and the check assays compare well with the original results.

PAGES 63-64
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Table 5: INTERNAL CHECK ASSAYS

Sample No.	Au* Ag*		Sample No./Rock Type	Au		Ag	
	CMS			CMS	Union	CMS	Union
75-LV- 601 thru 619			Basalt*				
620	.36	.95	75-LV- 1922	.426	.510	.90	1.0
621 thru 626			Basalt				
627	.001	.04	75-LV- 1955	.003	tr.	.06	None
628 thru 629			Basalt				
630	.21	.42	75-LV- 1971	.168	.175	.46	.2
631			Basalt				
632	.072	.14	75-LV- 1975	.087	.07	.14	.1
633 thru 634			Basalt				
635	.036	.15	75-LV- 1988	.04	.04	.15	.2
636 thru 642			Basalt				
643	.029	.22	75-LV- 1912	.032	.025	.18	.1
644	.001	.03	75-LV 1964	.001	tr.	.06	None
645	.058	.10	1983	.058	.06	.07	.1
646	.030	.18	1995	.034	.02	.08	None
647 thru 650			Basalt				
651	.023	.12	75-LV- 2012	.027	.02	.15	None
652	.001	.01	2044	.001	None	.01	None
653	.001	.01	2090	.001	None	.02	None
654	<.001	.02	2136	.002	None	.03	None
655	<.001	.01	2169	<.001		.03	
656 thru 662			Basalt				
663	.004	.03	75-LV- 2360	.003	tr.	.02	None
664	.008	.03	75-LV -2373	.008	tr.	.01	.02
665 thru 668			Basalt				
669	.002	.03	75-LV- 2389	.009	tr.	.04	.01
670	<.001	.02	2393	.003	None	.02	None
671	<.001	.02	2440	.001	tr.	.05	None
672	.001	.02	2461	.005	tr.	.03	None
673 thru 674			Basalt				
675	.013	.06	75-LV- 2507	.01	.01	.03	.1
676	.006	.06	2512	.004	.005	.06	None
677	.001	.05	2527	.001	tr.	.02	tr.
678	.005	.04	2543	.005	.005	.04	None
679 thru 682			Basalt				
683	.001	.03	75-LV- 2625	.002	tr.	.04	None
684	.003	.03	2628	.003	tr.	.03	None
685	.001	.03	2633	.002	None	.03	None
686	<.001	.02	2639	.002	tr.	.04	None

* values are oz/ton

Table 5: INTERNAL CHECK ASSAYS (cont.)

Sample No.	Au		Sample No./Rock Type	Au		Ag	
	CMS	Ag		CMS	Union	CMS	Union
75- LV- 687 thru 690			Basalt				
691	.002	.04	75- LV- 2741	<.001	None	.02	None
692	<.001	.02	2747	.001	None	.05	None
693	<.001	.02	2766	.002	None	.04	.02
694	<.001	.03	2769	.001	None	.03	.01
695 thru 698			Basalt				
699	.019	.04	75- LV- 2542	.018	.030	.03	.1
700	.002	.02	2785	.002	None	.03	None
701	.001	.02	2800	<.001	None	.03	None
702	.002	.02	2822	<.001	tr.	.03	None
703 thru 708			Basalt				
709	.001	.03	75- LV- 2777	<.001	None	.03	.1
710	<.001	.02	2825	<.001	None	.02	.1
711	.001	.02	2855	.002	None	.03	None
712	.001	.02	2916	.004	tr.	.03	None
713 thru 751			Basalt				
752	.02	.07	75- LV- 4004	<u>.018</u>	<u>CRL</u>	<u>.01</u>	<u>CRL</u>
753	.267	.03	4016	.243	.222	.63	.12
754	.060	.17	4017	.075	.068	.16	tr.
755	.018	.16	4028	.026	.040	.17	tr.
756 thru 766			Basalt				
767	.051	.18	Puddin's Sample (FeOx Gossan, Montana)				
768	.001	.35	Pyrite concentrate from Sludge of DDH#8 @ 640'				
769 thru 777			Basalt				

*Basalt was used as a standard. This rock uniformly assays <.001 to 0.001 oz Au.

ORE RESERVES

Realizing that production at the Lovitt mine was limited by a 0.1 to 0.2 oz/ton Au cut-off grade at the \$35.00/oz gold price, substantial tonnage of lower grade material then should still remain in the mine that would be of economic interest at the current prices. Three independent ore reserve calculations had been done in 1974/75 to determine the mine's gold potential and their results are compared in the chart below. A detailed account of the studies is given in a previously written report by J. E. Worthington and E. A. Schmidt (1975), and only a summary of the results is given here.

Comparison Chart of Ore Reserve Calculations
Lovitt Mine, Chelan County, Washington

Area	R. Chadwick (0.04 oz cut-off)		O, Kortan (0.04 oz cut-off)		Technical Services (0.05 oz cut-off)	
	Tons	Grade*	Tons	Grade*	Tons	Grade*
Block 1	3,431,594	0.085	2,600,000	0.126	3,329,970	0.111
Block 2	2,497,000	0.23	2,000,000	0.247	3,685,450	0.198
Block 3	3,408,166	0.22	3,205,000	0.237	543,600	0.094
Sub Total	9,336,760	0.173	7,805,000	0.202	7,559,020	.152
less pro- duction 1949- 67	already included in above figures.		1,037,000	0.396	1,036,570	.405
Total	9,336,760	0.173	6,768,000	0.184	6,523,450	.112

*values are oz/ton Au

Russell H. W. Chadwick, Consulting Geologist, prepared the first study in mid 1974 by utilizing the then available assay data (muck, wall and drill hole

Underground channel sampling by Cyprus Exploration personnel to verify

samples). Because of time limitations, the data were not replotted. A 0.04 oz Au cut-off grade was used, but no allowance was made for dilution. An arbitrary 0.02 oz Au was deducted from the total to allow for possible analytical errors.

In August 1974, Dr. Oskar Kortan performed a check calculation on Chadwick's work using the same assumptions and procedures. Kortan arrived at a smaller tonnage but higher grade for the deposit. Both calculations, however, are at the same order of magnitude and they suggest that the Lovitt mine still contains a sizeable tonnage and grade sufficiently attractive for a present-day mining operation.

In June 1975, Technical Services under the direction of Eugene Allen, prepared a third ore reserve calculation and computed a trial open pit for the deposit. All available data were examined and replotted on bench level maps and cross-sections at a scale of 1" = 50'. A cut-off grade of 0.05 oz Au was used. Steeply inclined up or down drill holes were not taken into consideration.

It is interesting to note that the largest discrepancy in tonnage appears in the Block 3 area. Technical Services' tonnage estimate of Block 3 ore is only 16% of the tonnage Chadwick and Kortan arrived at. Thus, the total tonnage by Technical Services is considerably less than Chadwick's estimate.

Stripping ratio of about 9:1 was calculated by Technical Services for the trial pit including only Block 1 and 2 ore material and applying 10% dilution. Chadwick estimated in his calculation a stripping ratio of about 6:1.

Without declassifying the oxidized capping material from waste to ore, an improvement in the stripping ratio necessitates reduction in tonnage. Thus, it is important to continue evaluating the as yet untested capping material, and also

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FIGURES

	Page
1. Location	Following page 8
2. Land Status	Following page 16
3. Lovitt Mine	18
4. View Northwest over Lovitt Mine from NORCO Well #1	19
5. Drill Core Specimen DDH-15 - 308'	19
6. Generalized Geology Map.	Following page 20
7. Drill Core Specimen DDH-15 - 254	25
8. Photomicrograph	25
9. Drill Core Specimen DDH-14 - 71	27
10. Drill Core Specimen DDH-14 - 81	27
11. Drill Core Specimen DDH- 9 - 303	28
12. Drill Core Specimen DDH- 6 - 280	28
13. Drill Core Specimen DDH- 6 - 268	29
14. Photomicrograph DDH- 6 - 272	29
15. Drill Core Specimen DDH-14 - 136	30
16. Drill Core Specimen DDH- 6 - 246	30
17. Photomicrograph DDH-1 - 218	31
18. Photomicrograph DDH- 9 - 324	31
19. Sketch of Lovitt Tailings Pond with Sample Locations	Following page 46
20. Cross Section through DDH-1, RDH- 20, 21, 22 & 23 - "B" Reef	Following page 53
21. Cross Section through RDH-19, 49 & 51 - "B" Reef	Following page 53
22. Cross Section through RDH-18 and 48 - "B" Reef	Following page 53

FIGURES (cont.)

	Page
X 23. Cross Section through RDH-18, 19, 43, 44 and 45 - "B" Reef . .	Following page 53
X 24. Cross Section through DDH- 6 - "B" Reef	Following page 55
X 25. Cross Section through DDH- 9 - "B" Reef	Following page 55
X 26. Cross Section through DDH-14 - "B" Reef	Following page 55
27. Cross Section through DDH- 3 - "C" Reef	Following page 56
28. Cross Section through DDH- 2 and RDH- 39	Following page 57

PLATES (In Pocket)

- X1. Geologic Map (Lovitt Mine - "B" Reef Area). 1" = 200'
- X 2. Base Map - Land Status, Cross Section Lines, Drill Hole Locations, Underground Workings, IP Lines (Lovitt Mine - "B" Reef Area). 1" = 200'
- X 3. Land Status, Geochem Survey, Geology, IP Lines (Saddle Rock - "A" Reef Area). 1" = 200'
- X4. Geochem Survey, Drill Hole Locations, Underground Workings (Lovitt Mine - "B" Reef Area). 1" = 200'
5. Rock Chip Sampling - North Reef Area, Lovitt Mine. 1" = 50'
6. Rock Chip Sampling - South Reef Area, Lovitt Mine. 1" = 50'
- X 7. "B" Reef Base Map - Cross Section Lines, Underground Workings, Drill Hole Locations and Surface Geology. 1" = 50'
- X 8. "B" Reef Underground Workings with Geology and Drill Hole Locations. 1" = 50'
- X 9. Cross Section through DDH-11 ("B" Reef) 1" = 50'
- X10. Cross Section through DDH-16 ("B" Reef) 1" = 50'
11. Cross Section through RDH- 32, 35 and 36. 1" = 50'
12. Cross Section through RDH- 29, 30, 31, 37 and 38. 1" = 50'
13. Cross Section through RDH- 24, 25, 26, 27, 28 and 42. 1" = 50'
14. Cross Section through DDH-10, RDH- 7 and 8. 1" = 50'
15. Cross Section through DDH-13
16. Cross Section through DDH-17

- X Set of 11 Bench Level Maps - "B" Reef. 1" = 50'
- X Set of 14 Cross Sections (10, 100 N - 10,750 N) "B" Reef. 1" = 50'
- Set of 31 Cross Sections (13 S through 17 N) Lovitt Mine. 1" = 50'
- Interpretive Geologic Map (G. Priest, 1975)

LIST OF TABLES

	Page
1. Lovitt Mine Production Record	11
2. Engineering Data for Rotary Drill Holes	52 & 53
3. Engineering Data for Diamond Drill Holes	60
4. Diamond Drill Core Check Assays	63 & 64
5. Internal Check Assays	65 & 66

APPENDIX A

Summary Diamond Drill Logs

APPENDIX B

Diamond Drill Assays

APPENDIX C

Summary Rotary Drill Logs

APPENDIX D

Rotary Drill Assays

APPENDIX E

Proposed Program at Lovitt in 1976

SUMMARY

The Lovitt mine, located a few miles south of Wenatchee in Chelan County, Washington, has been intermittently explored and mined for gold and silver since 1885 when two claims were staked to cover the prominent iron stained outcrop area. Serious mining started in 1949 by Mr. Ed Lovitt and the Lovitt Mining Company. When the mine closed in 1967 for economic reasons, the property had produced 1,036,572 tons of gold ore containing an average of 0.396 oz/ton Au and 0.607 oz/ton Ag. Out of this material, Mr. Lovitt realized a net profit of \$1,630,641 after investing about \$12,000 in 1949.

The Lovitt mine lies within one of the most silicified and mineralized arkose outcrops which is part of a north-westerly trending mineralized zone. This zone can be followed for over 2 miles from Compton's Knob in the southeast to No. 2 Canyon in the northwest containing a number of smaller altered exposures visible as silicified ribs or recognized in dozer cuts. Mineralization at the Lovitt mine consists of intense silicification and accompanying pyritization of the Paleocene Swauk arkose with subsequent quartz vein development. Native gold and electrum occur in quartz veins and in the silicified arkose adjacent to the vein structures. At "B" Reef, gold is contained in silicified and brecciated arkose without quartz veining. The silicified arkose is interrupted and offset by numerous post-mineral fault structures. The Footwall Fissure constitutes the eastern margin of the Lovitt mine and separates mineralized arkose from friable, unmineralized arkosic sandstone. The N-S Fissure offsets the Lovitt block right-laterally for more than 300 feet. A series of mid-Tertiary

rhyodacite and andesite intrusive rocks are present in Swauk arkose within the Lovitt mine area and a genetic relationship between precious metal mineralization and igneous intrusive activity is suggested. However, the intrusive rock is only mineralized at "A" Reef. In all other locations, the igneous rocks are barren of mineralization.

The Cyprus exploration program commenced in late December 1974 with rotary drilling on the patented claims, and continued with additional rotary drilling and diamond drilling through the summer and fall of 1975 after land negotiations proved successful. A total of 44 rotary holes amounting to 16,620 feet, and 18 diamond drill holes amounting to 9,290 feet were completed by January 1976. The drill holes tested weak to moderate Induced Polarization responses, tested potentially mineralized ground between the Lovitt mine and "B" Reef, tested the extent of mineralization around "B" Reef proper, and probed the silicified capping material in the Lovitt mine area. Drilling has shown the following results:

1. There is no direct continuation of mineralization between the Lovitt mine and "B" Reef.
2. The weak to moderate IP response is related to a slightly pyritic felsic volcanic cobble and boulder conglomerate horizon within the overall unmineralized Swauk arkose. The conglomerate assays 0.001 oz/ton Au.
3. "C" Reef consists of slightly pyritic (0.5%) and silicified arkose with a network of quartz-calcite veins. Gold content averages 0.005 oz/ton.
4. Mineralization at "B" Reef has been intersected on the west side of the outcrop and followed to the south. A major northerly-trending

post-mineral fault structure bounds the mineralized arkose on the west. The barren mid-Tertiary rhyolite-perlite sequence extends partly beneath "B" Reef from the east. A previously unrecognized block of mineralized arkose has been intercepted on the west side of the "B" Reef outcrop and to the west of the bounding fault structure beneath 150 feet of gravel overburden. The mineralized block appears to extend further west off Cyprus-controlled land and possibly to the north. The limits have not yet been defined.

5. The silicified capping material over the Lovitt mine shows weak gold mineralization in some holes, and encouraging gold mineralization in others. The capping has not been completely evaluated through drilling and further work is necessary to fully determine the presence of shallow gold mineralization.

Extensive underground channel sampling at the Lovitt mine, "B" Reef and "A" Reef by Cyprus personnel has substantiated the overall reported grade as given in the Lovitt records. Surface geochemical sampling at the Lovitt mine and in the outlying areas has detected isolated iron stained arkose exposures with anomalous gold values. Some of these outcrops are probably remnants of landslide material, others are definitely in-place exposures. Extensive soil and talus cover hampers geological investigation in these particular areas, but future geophysical work and drilling should delineate the extent of mineralization.

Ore reserve calculations done on the Lovitt mine by Technical Services, O. Kortan and R. Chadwick range from 6.5 million tons to 9.3 million tons with a

corresponding grade of 0.112 oz/ton Au to 0.173 oz/ton Au. Differences in tonnage reflect different cut-off grades used (0.05 vs. 0.04 oz Au) and some disagreement in the tonnage potential of the Block 3 area. Ore reserve calculations recently completed by E. Schmidt and P. Chapman at "B" Reef indicate 1.4 million tons averaging 0.105 oz/ton Au amenable to open pit mining methods.

Work to date is not sufficient to determine a mining method because the extent and geometry of the ore blocks are not completely known. In view of Wenatchee Silica Products nearby successful open pit operation, potential environmental problems at the Lovitt mine should not be insurmountable. The mine is not visible from the town of Wenatchee and possible dust pollution can effectively be kept to a minimum. A slurry system could carry the tailings downstream and deposit the material in one of the undeveloped side canyons. Cyprus's exploration work has shown that the mine still contains a substantial amount of low-grade gold-bearing material that can be economically extracted under present market conditions.

RECOMMENDATIONS

Based on the Cyprus Exploration Company's overall encouraging results the following additional work is recommended (these recommendations are supplementary to those made by memo dated January 5, 1976, Appendix E).

1. Continued core drilling of the mineralized capping in the Lovitt mine area to classify the material into ore or waste. Large portions of the capping are now classified as waste particularly in the Block 2 and 3 areas. Parts of this silicified and pyritic material, however, does contain gold mineralization as demonstrated by DDH- 8. The detection of additional gold-bearing ground in this area would favorably change the presently assumed stripping ratio. The minimum amount of proposed drill holes is shown on the map in Appendix E.
2. Continued core drilling beneath the Lovitt mine to test continuity of the silicified structure and potential mineralization with depth. The steeply inclined drill hole DDH-17 failed to intersect mineralized arkose, but additional angle holes are required to delineate the geometry of the Lovitt structure beneath the 850 level. The latter is flooded and inaccessible.
3. Test the southeast extension of the Lovitt structure with several vertical diamond drill holes. This area is now occupied by the tailings pond in Squilchuck Creek. It is very likely that the silicified structure is shifted to the southwest where the prominent outcrop abruptly ends at the old highway.
4. Continue core drilling at "B" Reef to test the southward continuation of the gold-bearing silicified arkose beyond DDH-9. This mineralized zone is covered

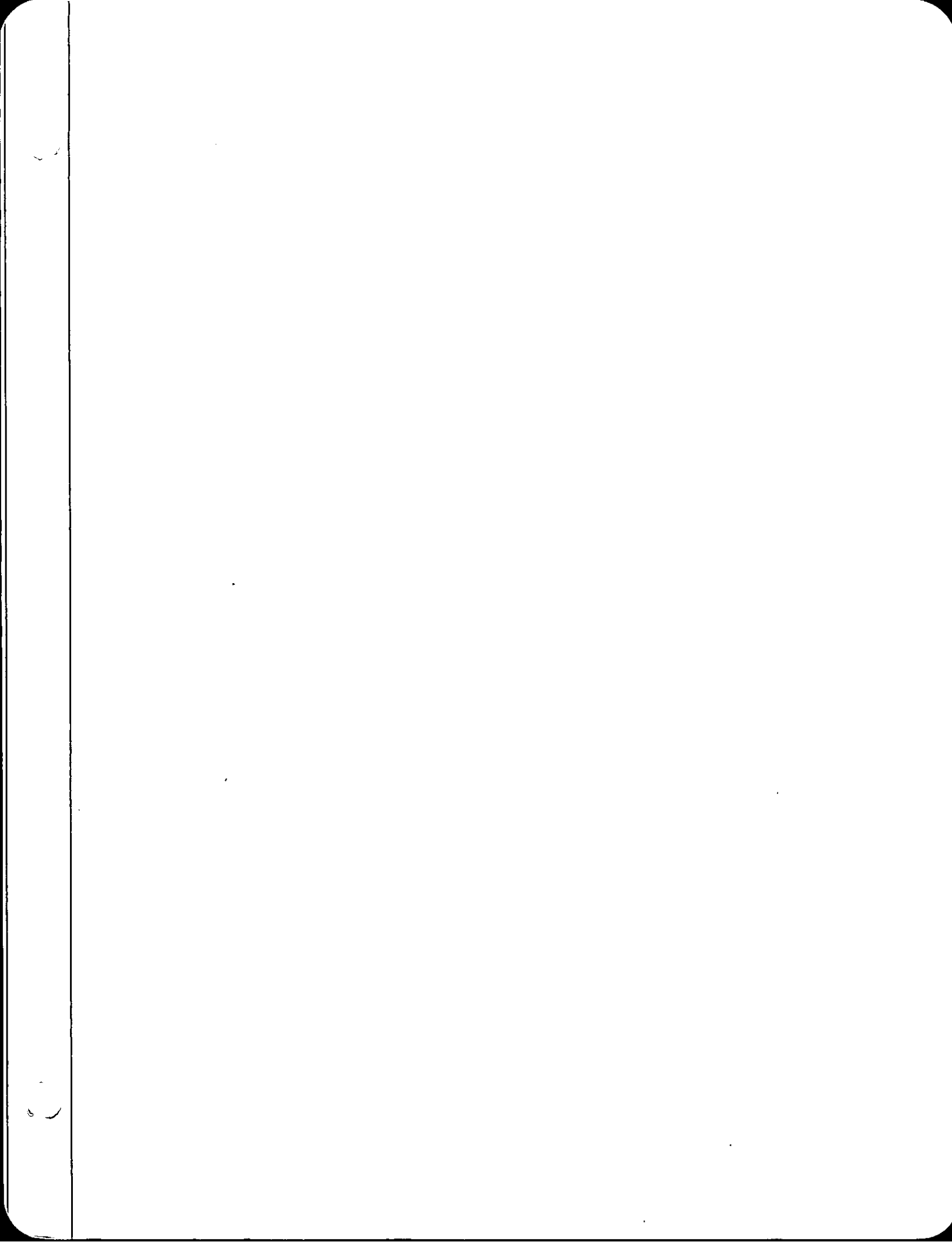
by up to 100' of overburden. A series of angle holes to transect the zone, and several vertical holes to test depth of mineralization are necessary.

5. Follow up the newly detected gold-bearing arkose block west of the "B" Reef bounding fault in the vicinity of DDH-1 and 11. This mineralized material has no surface exposure and it is covered by over 100 feet of overburden. The mineralization appears to trend off presently controlled Cyprus land to the west but its limits to the north and south have not yet been determined.
6. Drill one or two additional angle core holes beneath the northern portion of "B" Reef to clearly define the deeper limits of mineralization beneath the 1000 level.
7. Test the positive IP response south of "A" Reef with one or two drill holes. This area is covered by alluvium and talus debris. The IP anomaly most likely represents sulfide-bearing and silicified arkose as a continuation of "A" Reef.
8. Test the deeper portion of the "A" Reef structure with several angle holes. Assays from previously completed long hole drilling in the main adit of "A" Reef average 0.03 oz/ton Au. Surface trench samples average 0.044 oz/ton Au. Considering the areal extent of "A" Reef, several million tons of gold-bearing material are potentially contained here.
9. Drill several fences of rotary holes in the vicinity of Compton's Knob to determine depth and nature of bedrock beneath the landslide material. Encouraging results should then be followed up with diamond drilling. Compton's Knob is a displaced outcrop of silicified and brecciated arkose within the landslide material. Its source area could be a fair distance up-slope beneath Columbia River basalt in the vicinity of the old NORCO well. Thus, drilling Compton's

Knob alone would not adequately evaluate the overall potential of this area.

10. Carry out additional IP surveys over the isolated altered arkose shows west and northwest of Saddle Rock. Because of their small surface expression, a 50 to 100 foot dipole spacing should be utilized. Encouraging results should then be tested with a number of drill holes. The tonnage potential of these various shows is small if compared to the main Lovitt mine, "B" Reef and possibly "A" Reef, but until proven otherwise, these altered areas constitute potentially gold-bearing prospects.

It is also recommended, that the core specimens from any future core drilling phase be saved for reference and detailed study. As pointed out in the report, check gold analyses on split drill core portions agree very well. There is no danger of downgrading by splitting the core and submitting only one-half for analysis as long as the sample handling procedure is carried out properly.



APPENDIX A

SUMMARY DIAMOND DRILL LOGS

BY EAS DATE 9/75
CHKD. BY _____ DATE _____

SUBJECT Summary Log DDH-LV-1
Louitt Project - Chelan Co. Wash.

SHEET NO. 2 OF 2
JOB NO. Scale: 1" = 50'
N85E; -60°

03/6 Au
10 06 07

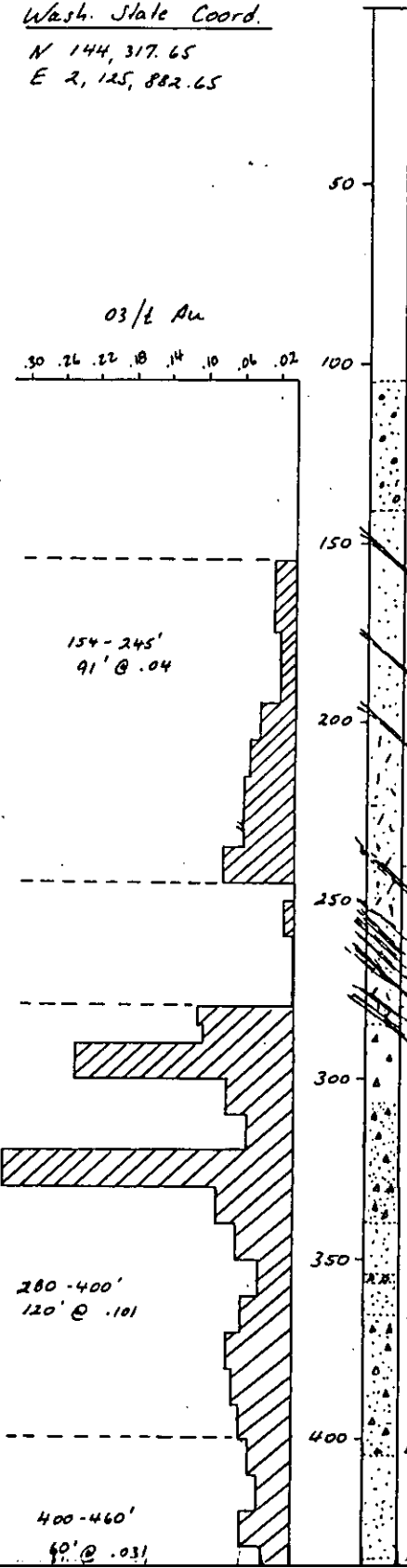
499-545' Arkose - med. to coarse grained, H. gray, poorly sorted, few argillac. seams, laminat. dips 50-70°, no visible pyr, virtually no silicification.

BY EAS DATE 9/75
CHKD. BY _____ DATE _____
Elev. 1138.17'

SUBJECT Summary Log - DDH-LV-1
Louitt Project
Chelan Co, Wash.

SHEET NO. 1 OF 2
JOB NO. Scale: 1" = 50'
Bearing: N86E; inclinat.: -60°

Wash. State Coord.
N 144, 317.65
E 2, 125, 882.65



0-105' Rockbit - no core

105 105-141.5 Overburden - cobbles & boulders of basalt in arkosic sand matrix

141.5-285' Arkose - H. gray, med. to coarse grained; few interbedded argillite seams, generally sheared & gouged; rock slightly more indurated below 150' becoming more siliceous below 200'; amount of pyrite increases gradually;

240 Fault, 65° 245-250' no core recovery

281-285' Fault zone - black clay gouge, 80°, cuts moderately silicified arkose

285-404' Strongly silicified arkose - rock is dense, locally completely brecciated & cemented by fine gr. siliceous arkose; rock is dark gray, contains up to 2.5% pyr.; no obvious qb. veining

- intermixed portions of argillaceous arkose, w/ fine dk. gray carbonaceous seams, little dissem. pyr.
argillac. arkose generally not as strongly silicified.

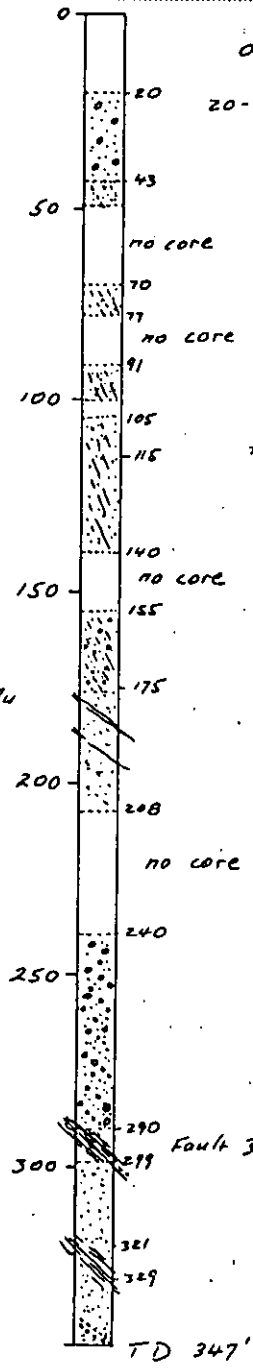
404-434' Fine gr. sandstone & argillac. sandstone - finely laminated, dip 55-65°; increasing silicific. toward bottom w/ finely dissem. pyr.

BY SAS DATE 10/75
 CHKD. BY _____ DATE _____
 Elev. 1554.70'

SUBJECT Summary Log DDH-LV-2
Louitt Project, Chelan Co. Wash.

SHEET NO. 1 OF 1
 JOB NO. Scale: 1"=50'
 Bearing: _____

Wash. State Coord.
 N 142, 723.28
 E 2, 127, 105.15



0-20' Rock bit - no core

20-43' Overburden - mainly cobbles & talus debris of Rooster Comb rhyolite

Arkose - weathered, H. gray, coarse to med. gr; abund. argillite partings, slickens; dip 50-90°
 - faint bedding outlined by argillite seams & biotite laminations, steep dip. 80°

trace dissem. pyr. 105-115'

Arkose - H. gray, generally coarse grained, contains some qtz, gneiss & argillite pebbles (to 175'); faint bedding dips 50-70°
 - remaining portion is H. gray arkose, very coarse, & heavily sheared (40°).
 tr dissem. pyr.

entire hole
 averages .002 oz/t Au

240-290' Conglomerate - well-rounded cobbles & boulders of felsic volcanics, few qtz & gneiss pebbles. matrix is sheared & gouged arkose, faint alignment of pebbles at 30-50°, locally to 70°.
 - tr pyrite dissem. in arkose matrix
 - lower cgl. contact gouged, dip 75° (to 299')

Fault zone -

299-347' Arkose - H. gray, fine to coarse-grained, contains abund. argillaceous partings; some graded bedding (30%).
 321-329' slickens. closely spaced argillite seams w/ tr pyrite; slickens dip 30-40°.
 pebble layer @ 345', dip 20°

TD 347'

BY EAS DATE 9/25

SUBJECT Summary Log DDH-LU-3

SHEET NO. 1 OF 1

CHKD. BY _____ DATE _____

Lowitt Project - Chelan Co, Wash.

JOB NO. Scale 1"=50'

Elev. 1602.23

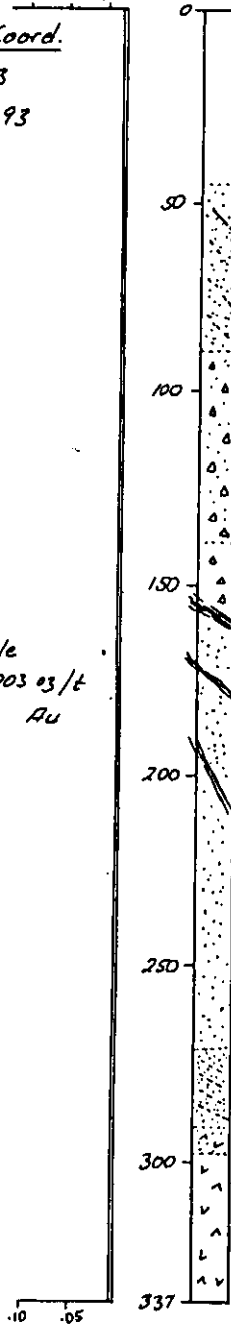
03/t Au
10 .06 .02

Wash. State Coord.

N 142,390.63

E 2,126,613.93

entire hole
averages .003 oz/t
Au



0-45' Rock bit - no core

45-88' Arkose - ll. gray, med. gr. minor biot. laminations; dip 55°; minor calcite cement throughout; locally calcite veining. toward bottom (76-88') increasing amount of calcite / qtz. vlt.

88-138' Mod. silicified arkose - well indurated, rock cut by various milky qtz. vlt., no pyr. some argillac. layering, up to 0.5% pyr. in arkose; locally more intense silicif. of arkose near qtz. - calcite vein intersections - locally biot. laminae preserved.

138-158' Intense silicification of arkose -

ll. gray, brecciated, cemented by cryptocrystalline qtz. abund. open vugs, tr. dissem. pyr. and calcite

158-175' Fault zone

175-200' Arkose - ll. gray, med. grained, abund. argillac. layers, latter generally sheared along bedding planes. no visible pyr., faint lamination (0-10°) thru biot. concentrations & argillite layers.

200-271' shear zone (70-90°)

271-291' Silty argillite - alternating sequence of arkose and silty, laminae dip 0-20°; rock locally strongly sheared along bedding.

291-297' Mixture of arkose and intruding dacite - no pyrite

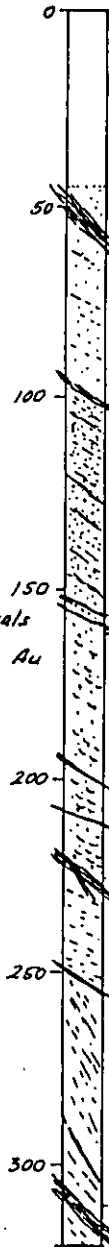
297-337' Dacite breccia - green gray, plag. phenos & chloritic hbl. set in aphanitic chloritic matrix rock cut by few dk. gray qtz. vlt., mainly irregular cryptocrystalline concentrations, no pyr.

BY EMS DATE 10/75
CHKD. BY _____ DATE _____
ELU. 1572.90'

SUBJECT Summary Log DDH-LV-4
Louitt Project; Chelan Co. Wash.

SHEET NO. 1 OF 1
JOB NO. Scale: 1"=50'
Bearing: S80W. incl. = -65°

Wash. State Coord.
N 142,594.01
E 2,126,441.35



0-45' Rockbit - no core

45-98' Fault zone - argillite gouge, slickens, 70-90°

Arkose - distinct biotite laminations, 0-15°;
locally calcite cement in arkose;
- rock is unaltered; no sulfides
- frequent dk. gray argillite clasts

98-162' gouge - dip 20-30°

Argillaceous arkose - fine to med. grained;
finely laminated; abundant 1/8-3"
Argillite seams; arkose cemented by
Calcite; no sulfides
laminations dip 20-30°

selected 10' intervals
average .002 oz/6 Au

162-226'

Mud chip arkose - rock is essentially lt. gray arkose
containing abund. dk. gray argillaceous
& clay chips; arkose coarse gr. w/
bleached feldspars; variable amts. calcite
matrix.
- laminations dip 10-15°
- no sulfides

226-321'

Argillaceous arkose - lt. to med. gray, fine grained,
locally some coarser portions w/ calcite
cement; laminations 5-10°

below 250' - fine laminations steepen to 50-60°;
separated by narrow argillac. gouge from
upper part;
argillaceous partings always slickensided
(bedding plane slips).
- no sulfides

310 Fault breccia
w/ gouge, 50-60°
TD 321'

BY EAS DATE 10/75 SUBJECT Summary Log DDH-LV-7 SHEET NO. 1 OF 1

BY EAS DATE 4/4/76 SUBJECT Summary Log DDH-LV-5 SHEET NO. 1 OF 1

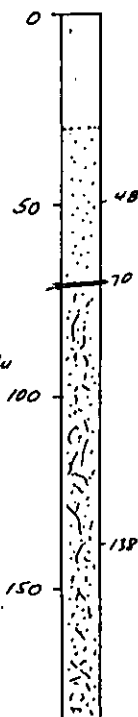
CHKD. BY _____ DATE _____ Levitt Project, Chelan Co. Wash JOB NO. Scale: 1"=50'
Elev. 1673.95' 570W; -50°

Wash. State Coord.

N 142, 101.83
E 2, 126, 743.70

30-185'

155' @ 0.004 g/t Au
0.06 g/t Ag



TO 185'

0-30' no core - rock bit

30-48' oxidized, H. gray biot. arkose -
friable, faint lamination, no sulf.

48-70' H. gray, coarse, biot. arkose - friable, no sulf.
Silty interval from 48-68'

@ 68' irregular 1/4" calcite vlt., steep
70-71' Fault - black gouge, horiz. slip planes

71-138' H. gray, sheared biot. arkose - cut by abund. 1-2mm
dk. gray pyr. vlt. locally; fair amt. of white qb. - calcite vlt.
- overall rock is firm but sheared,
126-127' fault gouge, 75°

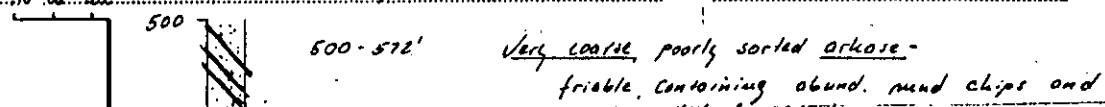
138-153' silicified, dk. gray arkose, firm, 1-3mm qb. - calcite vlt.

153-185' silicified H. gray biot. arkose, abund. qb. - calcite vlt.,
155-159' massive qb. vein w/ calcite
little pyr. along vlt. margins; locally dissem. in sheared
arkose.

Rock from 71-185' represents "C" reef material.
Hole had to be abandoned because of drifting
difficulties.

BY SAS DATE 11/75 SUBJECT Summary Log DDH-LV-9
 CHKD. BY _____ DATE _____ Louitt Project
Chelan Co. Wash.

SHEET NO. 2 OF 2
 JOB NO. Scale: 1"=50'
 Bearing: E; inclin.: -60°



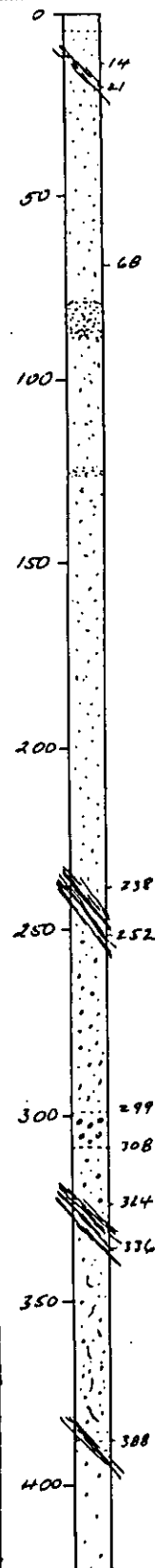
BY SAS DATE 11/75 SUBJECT Summary Log DDH-LV-9 SHEET NO. 1 OF 2
 CHKD. BY _____ DATE _____ Louitt Project
Chelan Co. Wash.

SHEET NO. 1 OF 2
 JOB NO. Scale: 1"=50'
 Bearing: S 40 W; inclination: -70°

EleV. 1849.96'
Wash. State Coord.
N 141,982.43
E 2,227,410.41

5 - 250'
245' @ .005 g/t Au

250-340'
90' @ .017 g/t Au



Rock bit 0-5'

Fault zone - 11. gray slickens. siltstone w/ clay, dip 75°

Arkose - oxidized to G8';
rock is 11. gray to brown. gray w/ Fe ox
on fract., med. to coarse gr.
some muscov. & biot.
- grades locally into fine gr. portions

below 100' - Predominantly coarse arkose,
11. gray, moderately indurated
locally few 1/4-1/8" white, milky qtz. vltts;
tr pyr.
up 1% pyrite clasts. intermittently,

Fault zone - black slickens. argillite, dip 50-60°, tr pyrite
interlayered fine gr. arkose

Very coarse arkose, 11. gray, mod. indurated,
becomes more silicified below 275'

Conglomerate - well rounded pebbles of arkose & qtz. in fine gr. arkose
matrix w/ pyr., silicified

Fault zone - dk. gray, slickens. argillite, dip 60°

Arkose - coarse, 11. gray
moderately silicified, cut by abund.
pyrite seams & qtz. vltts.

Fault zone (388-391') - black argillite, slickensided in coarse
arkose

Arkose - coarse grained, 11. gray,
moderately silicified, locally cut by veins

BY EAS DATE 11/25
 CHKD. BY DATE
ELU. 1934.97'

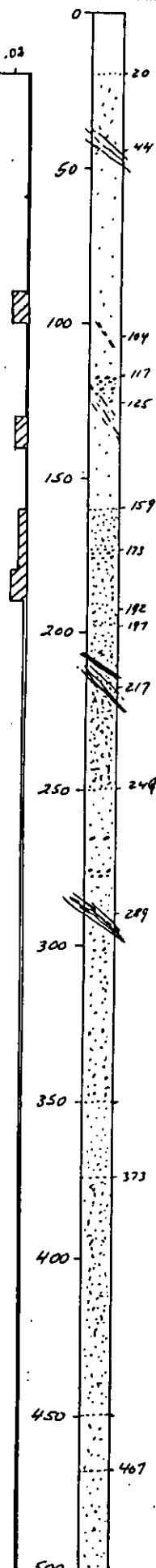
SUBJECT Summary Log DDH -LV-10
Louisa Project
Chelan Co, Wash.

SHEET NO. 1 OF 2
 JOB NO. Scale: 1"=50'
 Bearing: S40E; inclin: -53°

Wash. State Coord.
 N 141, 140.64
 E 2, 127, 221.74

20-729'
709' @ .004 B Au
.04 B Ag

03 Au
.10 .06 .03



Rock bit - no core

20-44' Arkose - coarse, friable, $\approx 10\%$ black biot. no pyr.
 40-44' few black clay gauge seams; Fe ox on fract.

44-159' Bleached Arkose - no biot; fair amount of muscov. goeth. - jarus. on fract.
 - rock is lt. yellow. gray to white, coarse, completely oxidized, locally few dk. gray fs. vts (2-4mm).
 @ 117-122' pebbly arkose
 @ 125-130' silty interval, finely laminated (80°)
 @ 153' $\frac{1}{2}$ " gray q.v. , 15°

159-217' Dark gray, fine gr. arkose - firm, well indurated up to 5% dk. brown biotite,
 - rock cut by abund. dk. gray silty lenses + vts, locally $\frac{1}{4}$ " pyr.; material appears introduced (mobilized? fluidized?)
 - pyr. finely dissem. (20-5%) and in irregular clots & stringers
 @ 211' 4" clay gauge, 45°
 217-218' clay gauge, 75°

217-249' Dark green. gray wacke - coarse, poorly sorted, friable, over 10% biot, clay matrix, no pyr.

249-296' Lt. gray Arkose - med. to coarse gr, 0.5-1% finely dissem. pyr, $\approx 5\%$ dk. red biot, rock is firm, poorly sorted, faint laminations 45°

289-296' Fault zone -

296-350' Coarse, gray arkose - abund. dk. brown biotite, little dissem. pyr
 - interval cut by abund. white fs. vts , locally coalesce and form breccia-like configurations,
 332-336' abund. dk. gray silty material penetrates arkose in vts w/ fine gr. cubic pyr, rate attains breccia-like appearance - fluidization?

350-373' Silty arkose - lt. gray, fine gr, low biot. interval cut by 1-4mm white fs. vts . finely dissem. cubic pyr.

373-450' Biotite Arkose - med. grained, firm
 Cut by abund. white fs. vts $< \frac{1}{8}$ " - 2", veins are wuggy, no pyr.
 - locally pyr. concentrated in arkose as irregular seams & vts. (1-3mm), cut by barren fs. vts .
 @ 382' biot. laminations, 40°
 429-434' rock fract. & rehealed by dk. gray pyr. - silty material

450-467' Silicified Arkose - dk. gray, very firm
 1/4% dissem. blotchy pyr; interval cut by 2-4mm white fs. vts .

467' Lt. gray biotite Arkose - firm, med. grained,
 Cut by abund. 2-4mm white fs. vts . to dissem. pyr. few dk. gray more siliceous portions

BY SAS DATE 11/75

SUBJECT Summary Log DDH-LV-11

SHEET NO. 1 OF 2

CHKD. BY _____ DATE _____

Lovitt Project

JOB NO. Scale: 1"=50'

Stn. 1114.88'

Chelan Co, Wash.

Bearing: N75E; inclin.: -65°

Wash. state Coord.

BY SAS DATE 12/75

SUBJECT Summary Log DDH-LV-10

SHEET NO. 2 OF 2

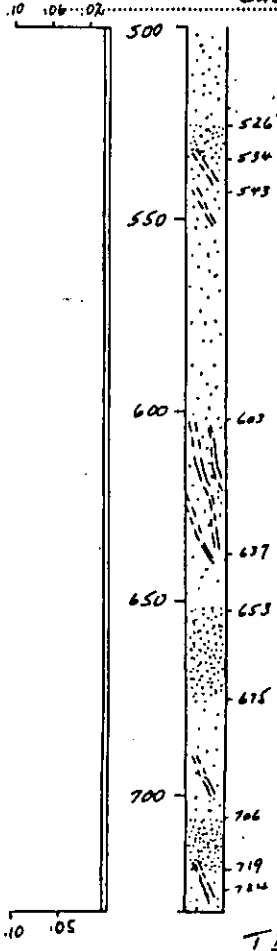
C D. BY _____ DATE _____

Lovitt Project

JOB NO. Scale: 1"=50'

Chelan Co, Wash.

Bearing: S40E; inclin.: -53°



Biotite Arkose - lt. gray, med. to coarse,
biot. is golden brown, some green. chlorite,
some dissem. pyr.

- rock cut by numerous 2-4mm white qtz.
vts., dip 30-60°.

locally few calcite vts. (1-2mm).

526-534' dk. gray, more silicified arkose,
w/abund. white comb qtz. vts.

534-540' white qtz. vein, no sulf.

543-547' massive white qtz. vein, 80°

603-637' concentr. of white qtz. veins w/ comb
structure, adjacent arkose little silicified.
w/ dissem. pyr.

- qtz. veins + 1" - 12" diam.

653-675' silty arkose - lt. gray, fine gr.
faint biot. lamination dips 40°;
little fine gr. dissem. pyr.

675-706' Biot. arkose - coarse, lt. gray
w/ dissem. pyr; rock cut by some
1/8-1/4" white comb qtz. veins

688-690' massive qtz. v., no pyr.

706-719' silty arkose - lavender gray, ~1% dissem. pyr;
rock cut by abund. 1-3mm qtz. - calcite vts.
no pyr. in qtz. veins

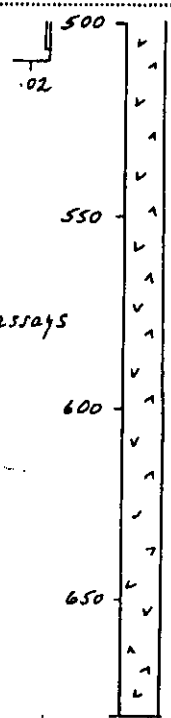
719-724' white comb qtz. vein, no pyr, dip ~45°
contains some coarse calcite

724-729' Biotite arkose - coarse, lt. gray,
rock very firm, little dissem. pyr.

BY JAS DATE 11/15
CHKD. BY _____ DATE _____

SUBJECT Summary Log DDH-LV-11
Louitt Project
Chelan Co, Wash.

SHEET NO. 2 OF 2
JOB NO. _____ Scale: 1" = 50'
Bearing: N75E; inclin. = 65°



Perlite - glassy, massive
dark gray, coarse
does not contain any sulfide mineraliz.

TD 681"

BY EAS DATE 12/75
CHKD. BY _____ DATE _____

SUBJECT Summary Log DDH-LV-12
Louitt Project, Chelan Co, WA

SHEET NO. 2 OF 2
JOB NO. Scale: 1"=50'
vertical

BY EAS DATE 12/75
CHKD. BY _____ DATE _____
Elev. 1783.29'

SUBJECT Summary Log DDH-LV-12
Louitt Project, Chelan Co, WA

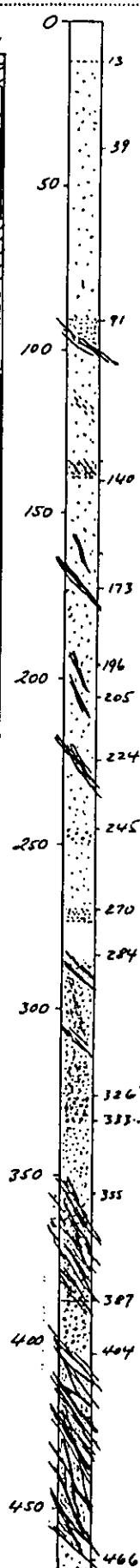
SHEET NO. 1 OF 2
JOB NO. Scale: 1"=50'
vertical

Wash. State Coord

N 141,562.37
E 2,127,426.96

entire hole
averages .001 g Au

03 Au
.14 .10 .06 .02



- 0-13' No core - Rock bit
- 13-39' Oxidized & bleached arkose, quartz-jarvis on fract,
22-39' oxidized biotite arkose, friable.
- 39-91' Biotite arkose - coarse, locally pebbly
contains few 2-4mm black pyr. seams;
44-50' dk. gray, sheared siltstone, slip planes dip 15°
below 60' - sheared lt. gray, friable biot. arkose
no silicific., finely dissem. pyr. (1%-1%), also
concentr. in clots + vits.
- 91-100' Silty arkose - up to 1/4" clots & vits. of pyr., some
cubic pyr. dissem.
- 100-140' Coarse biot. arkose - lt. gray, friable, numerous 1-3mm
pyr. vits; rock not silicified; locally 1/4-1/2" pebbles.
116' - closely spaced carbon? laminae, dip 65°
- 140-173' Biotite arkose - lt. gray, <0.5-1% dissem. pyr.
few steep calcite vits.
- 163' - Fault gouge, 70°
170.5-173' Fault gouge, 45°
- 173-270' Fine biotite arkose -
contains abund. 1-2mm pyr. vits., locally 1/4-1/2" pyr.
concentrations
- 196-199' Fault gouge; 75-85°
205-207' Fault gouge; 75°
224-228' Fault gouge, 75-85°
243-245' Fault gouge, black, 45-75°, striae plunge 15°
245-247' pebbly arkose, grades downward into biot. arkose,
- widely spaced 1/8-1/4" white gr. vits. (every 10')
- 270-274' Silty arkose - slickensided, w/up to 1/4" black gouge
seams; 7° gouge seams @ 280.5', 281.5', dip 25-40°
- 274-284' Coarse arkose - very little dissem. cubic pyr.
- 284-326' Silty arkose - arkosic wacke
brown. gray, finely dissem. pyr & in clots
steep bedding; fair amount of local slip planes
- 326' } coarse, pebbly arkose - lt. gray, little dissem. pyr., numerous
333.5' } bedding plane slips, dip 80-90°
- 333.5 - 387' Silty arkose - brown. gray, contains abund.
cubic pyr. grains up to 3mm diam.
- rock extens. faulted in zones:
339-344' brown clay gouge, 45-90°
346-354' fault gouge, 45-75°
355-387' Fault zone in silty arkose, 65-90°
cubic pyr. in gouge, also fine gr. pyr.
concentr.
- 387-404' Biot. arkose - friable, locally lamin. (80-90°) - arkose
very coarse to pebbly - 0.5% pyr
- 404-466' Fault zone - black lustrous gouge, 80-90°
isolated pyr. grains
1-3' arkose blocks locally present in
fault zone.

BY EAS DATE 12/75
 CHKD. BY _____ DATE _____
 Elev. _____

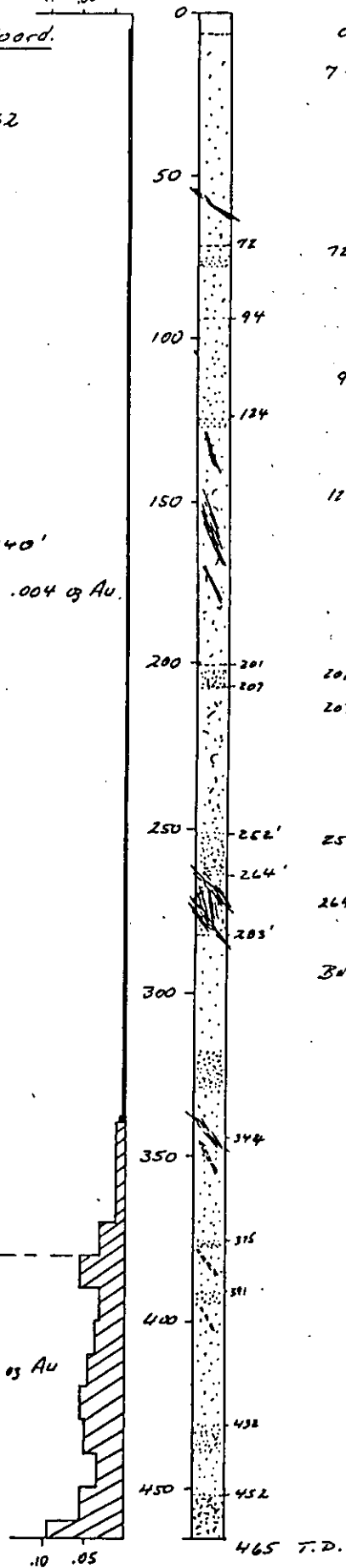
SUBJECT Summary Log DDH-LV-13
Louitt Project, Chelan Co., WA

SHEET NO. 1 OF 1
 JOB NO. Scale: 1"=50'
S50E, -55°

Wash. State Coord.
 N 140, 239.93
 E 2, 127, 687.62

5-340'
 335' @ .004 g Au.

380-465'
 85' @ .051 g Au



0-7' Rock bit - no core

7-72' Oxidized and bleached arkose -
 very coarse, sheared, w/ sericite - muscov.
 - abund. quartz - jarosite on fract.
 - rock is fragmented & rehealed by rock flour;
 no gouge or definite clay slip planes
 58' fault zone w/ white gouge, 75°

72-94' mixed sulfide-oxide zone
coarse arkose w/ sericite w/ FeO on fract.
 - finely dissem. pyr. & in 1-3mm irregular ults.
 75-94' silty arkose - 3-5% dissem. pyr.

94-124' coarse arkose - sheared, w/ sericite, muscov., no biot.
 3-5% dissem. pyr. & concentr. in irregular ults.
 locally siliceous fragments embedded in arkose

124-127' Silty arkose

127-201' Coarse sheared arkose -
 H. gray, bleached, sericite/muscov.,
 1-2% pyr. concentr. in irregular veinlets (1-3mm)
 fair amount of faulting: 134-135'; 174'
 150-168'
 - overall rock appears shattered & rehealed by pyrite -
 clay veinlets, random orientation.
 - abund. shattered qtz. ults. & fragments.

201-207' silty arkose - shattered w/ pyr.

207-252' coarse arkose -
 bleached, shattered, fairly well indurated but
 not silicified, abund. 1-2mm pyr.-clay seams,
 locally seams up to 1/2" wide

252-264' biotite silty arkose w/ biotite laminae (45%).
 grad. contact w/ shattered arkose above,

264-283' Fault zone - in silty arkose, slickens. black clay
gouge, dip 45°-90°

Below 283' - essentially coarse, bleached arkose,
 w/ irregular pyr.-clay seams.
 locally shattered gray qtz. ults.

318-322' arkose wacke, very coarse, green gray, black-
clay matrix, w/ pyr.

322-329' silty arkose, faint mica lamination, 20°

342-344' Fault zone

347-382' glassy qtz. v. w/ cherty bands, 1-2", 75-90°

375-377' Silty arkose

379-382' white qtz. vein, 1/2-2", 45-65°

391-395' black arkose wacke w/ lustrous carbon
concentrations, 1-2% pyr. in matrix

397.5' 1/2" qtz. vein, 65°

432-440.5' silty arkose - ~1% dissem. pyr.

440.5-452' bleached arkose, abund. 1/2-1" qtz. veins

452-465' no real core - material looks like backfill
of old workings, white qtz. vein fragments
 - rods dropped 3 to 5'

∴ hole apparently bottomed in old drift.

BY PLS DATE 12/75

SUBJECT Summary Log DDH-LV-14

SHEET NO. 1 OF 1

CHKD. BY _____ DATE _____

Louitt Project

JOB NO. Scale: 1" = 50'

Elev. 1103.58'

.03 Au

Chelan Co, Wash.

565E, -68°

Wash. State Coord.

N 144, 584.58

E 2,126,047.46

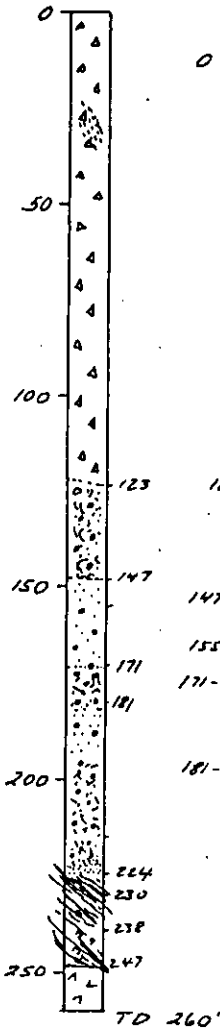
0-90'

90' @ .083 g Au

90-160'

70' @ .024 g Au

.10 .05



0-123' Oxidized & brecciated mixture of arkose, siltstone
 and locally dk. gray cherty material, breccia is
 well-indurated and cemented by finer grained rock
 material; carbonaceous chips in siltstone

- abund. goethite on fract.

29-32' carbon-rich laminations (75-90°)

99-105' intensely oxidized interval of shattered/brecciated
glassy arkose

123-147' Conglomeratic wacke - dk. gray to black, well-rounded
 chert pebbles (1/2-1") set in dk. gray silty matrix;
 - rock well indurated, no visible pyr.
 - several + 2" pebbles @ 145-146'

147-155' Arkose - gray, well sorted, friable, abund. 1-2mm black
 pyr. bits.

155-171' Arkose conglomerate - 1/2-2" pebbles of chert, lotite porph,
 Gneiss.

171-181' Conglomeratic wacke - dk. gray, silty matrix, tr pyrite
 in matrix; lost abund. core

181-224' Alternating sequence of gray arkose & arkosic conglomerate -
 tr finely dissem. pyr.; cgl. contains 1/2-2" chert, Gneiss
 pebbles; locally arkose well laminated (10-20°)

221-224' siltstone w/ ≈ 1% dissem pyr., well-indurated,
 rock appears shattered & reheated by own material.

224-230' Fault zone - black gouge in laminated siltstone,
 slip planes dip 20-40°

230-238' Fault zone - white gouge in volcanic(?) rock,
 soft, some gray siliceous volcanic fragments,
 lost 50% core

238-247' shattered siliceous fragments of same gouge,
 lost 50% core

247-260' Perlite - dk. gray, w/ some 2mm sandstone(?)
 phenos.

BY EAS DATE 1/76

SUBJECT Summary Log DDH-LV-15

SHEET NO. 1 OF 1

CHKD. BY _____ DATE _____

Louitt Project, Chelan Co, WA

JOB NO. Scale: 1"=50'

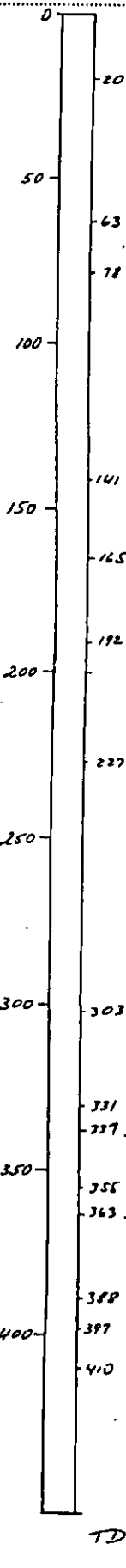
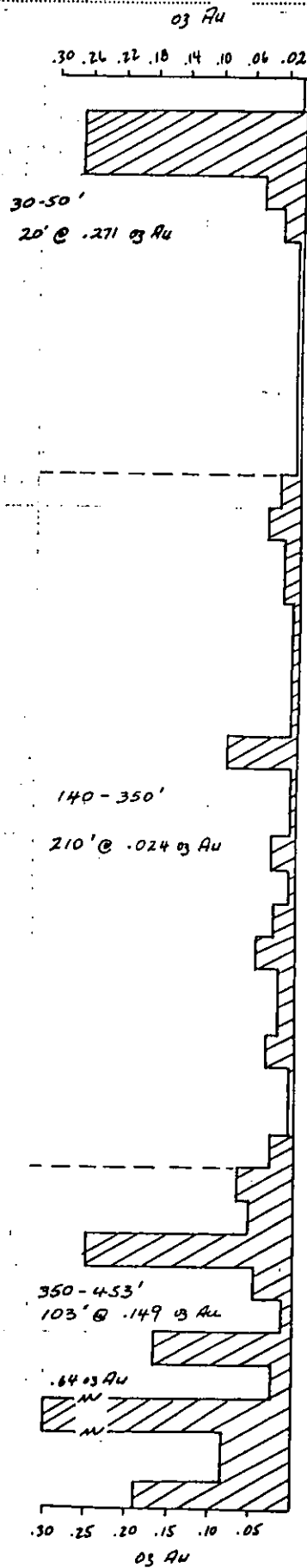
Elev. 1783.32'

S50W, -55°

Wash. State Coord.

N 141,560.05

E 2,127,423.37



- 0-20' no core - rock bit
- 20-63' Oxidized & bleached arkose - very coarse; friable, locally heavy goethite on steep fract., few 1/4-1/2" qb. veins. 44-48' bluish gray silty arkose w/ slips & pyr. @ 61' remnant pyr. concentrations
- 63-78' Very coarse arkose - ~1% dissem. pyr; few 1/4" qb. vlt. silty arkose w/ pyr. @ 75-78'
- 78-141' Alternating sequence of friable, unmineralized biotite arkose & sheared silty arkose - abund. clay gouge slips w/ pyr. slips commonly follow silty intervals, dip 45-60° 136-141' sheared silty arkose w/ pyr.
- 141-165' Bleached, coarse arkose, no biot., abund. irregular pyr. vlt., rock slightly silicified few widely spaced white qb. vlt.
- below 165' - biotite arkose, rock still cut by 1-3 mm pyr. & qb. vlt.
- 182-183' fault gouge, 15°
- 200-227' lt. gray, fine grained arkose 1-2% biotite, 0.5% pyr., occasional pyr. vlt., widely spaced qb.-calcite vlt. (1/2-1") @ 204' 2" glassy qb. vein
- 227-331' lt. gray, coarse biotite arkose - 0.5-1% dissem. pyr. rock cut by few qb.-calcite vlt. 239-248' sheared silty arkose w/ pyr 303-305' irregular 1/4-1/2" branching, steep qb. veins w/ fine gr. pyr. along margins = entire interval contains fair amount 1-3 mm dk. gray chalcidonic qb. vlt. w/ pyr.
- 331-337' } Fault zone - steep slip planes w/ pyr.
- 337-355' dk. gray arkosic wacke - somewhat gouged, fair amt pyr. on steep fract., few 1/4" qb. vlt.
- 355-363' } sheared, coarse siliceous arkose w/ abund. qb. vlt. + pyr.
- 363-388' homogeneous, lt. gray biot. arkose finely dissem. pyr., numerous clear calcite vlt. and 1-3mm dk. gray cherty qb. vlt.
- 388-391' brown. gray arkosic wacke ~1% pyr; few pyr./rock matrix vlt.
- 391-397' lt. gray arkose w/ pyr., as above
- 397-453' coarse arkosic wacke - little dissem. pyr. few widely spaced 1/4" cherty qb. vlt. below 410' - increase in 1-4mm calcite vlt. w/ pyr. margins, and increase in pyr. on fract. - coarse calcite concent. @ 422-431'; 444' w/ banded qb.
- 447-453' some oxide staining in rock Hole bottomed in workings @ 453'

TD 453'

BY EAS DATE 12/25

SUBJECT Summary Log DDH-LV-16

SHEET NO. 1 OF 2

CHKD. BY _____ DATE _____

Louisa Project

JOB NO. Scale: 1"=50'

Elev. 1060.63'

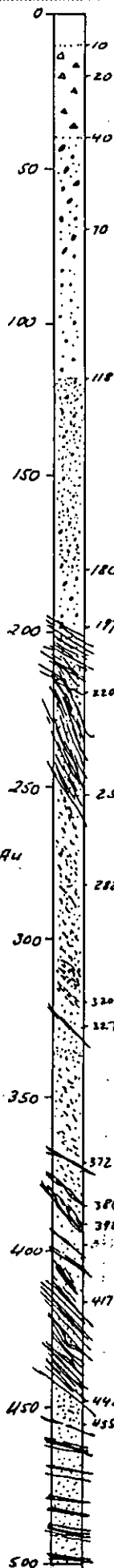
Chelan Co. Wash.

S70W¹; -55°

Wash. State Coord.

N 144, 662. 66

E 2, 126, 160. 64



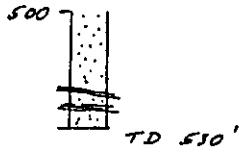
- 0-10' no core - rock bit
- 10-20' oxidized arkose breccia, bleached, abund. goeth.-jarosite on fract. & in seams within rock; lower part conglomeratic
- 20-40' Arkose - oxidized, very friable, few chert pebbles
- 40-118' Cobble-boulder conglomerate - oxidized to ss¹ dacite porph. cobbles (up to 6") and black chert pebbles set in dk. gray matrix material, latter poorly recovered in core, - very poor core recovery in cobble cgl. to 70' below 70' - pebbles decrease in size, more fine grained matrix material recovered; few granite-grain cobbles below 95';
: generally thin pyrite film coating pebbles & cobbles.
- 118-180' Pebble siltstone - dk. gray to black, somewhat silicified, sheared & shattered;
- rock is fine grained, firm; containing 1/4-1" black chert pebbles; some pyr. in black matrix forming irregular seams locally
⇒ rock appears locally fluidized (155-155') w/ banded appearance of elongated pebbles + stringers; no pyr. visible
- 180-197' mixture of chert congl. & dk. gray clastic rock - sheared, clastic matrix material w/ patchy pyr. locally.
- 197-253' Fault zone - brown/black slickens. gouge seams, dip 15-25°, steepen to 65° below 220'; 1/2-1' unsh. arkose blocks within gouge seams; some green, gray to black arkosic wackes locally
- 253-282' Lt. gray arkose - very coarse, friable, unsilicified, no pyr., grades into very coarse mudchip arkose - friable, nearly conglomeratic; mud bitite laminations dip 80-90° @ 254' dip 45° @ 270-72'
- 282-386' Alternating sequence of dk. gray arkose and mud chip arkosic conglomerate - gradational boundaries, rock is friable, no pyr. somewhat pebbly. local laminations dip 45° (@ 320') - isolated black gouge slip planes @ 327' (2°); @ 372.5' (3°) following laminations, 20° @ 380-382' dip 45°
- 386-392' Fault zone - brown/black lustrous clay gouge, 75°
- 392-417' Arkosic wacke - friable, bluish gray, no pyr. abund. slickens. slips @ 397-398'; 400-403'; 406-411'; 413-416' all dip 75-85°
- 417-448' Major Fault zone - brown/black gouge, 75° w/ very coarse, bluish gray arkosic wacke portions, 1/2-1' blocks, friable.
- 448-500' Sequence of faulted lt. gray to green. gray coarse arkose - friable, no pyr. rock extensively gouged at irregular intervals by closely spaced clay gouge slip planes, dip 20-45°

entire hole averages
less than .01 oz/t Au

BY EAS DATE 1/14/76
CHKD. BY _____ DATE _____

SUBJECT Summary Log DDH-LV-16
Lovitt Project, Clallam Co, Wash.

SHEET NO. 2 OF 2
JOB NO. Scale: 1"=50'
570W; -55°



lt. gray, very coarse arkose - friable
cut locally by brown clay gouge slips; 20-45°
hole bottomed in friable unmineralized arkose

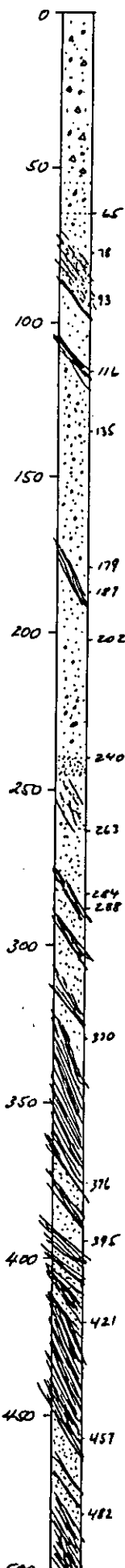
BY EAS DATE 12/25
 CHKD. BY DATE 1/76
 Elev. 1158.43'

SUBJECT Summary Log DDH-LV-17
Louitt Project
Chelan Co, Wash.

SHEET NO. 1 OF 2
 JOB NO. Scale: 1"=50'
N 20 E, -75°

Wash. State Coord.

N 139,341.72
 E 2,128,293.09



0-65' Overburden -
 0-55' silicified, oxidized arkose w/ some black basalt cobbles

55-65' arkosic sand & weathered arkose - part of overburden

65-116' Lt. gray, friable biotite arkose - very coarse locally silty intervals, generally gouged (78-93') slip planes 75-90° no pyr.
 1' block gouge zone @ 93', dip 75°
 - friable arkose internally gouged along abund. 1-3 mm slip planes
 113-116' faulted silty arkose, 75°

116-179' Pebbly, very coarse arkose -
 unit contains up to 1" granite gneiss pebbles below 135' abund. 2-4 mm block gouge seams rock is sheared, contains no sulfides except on few fract. @ 141 and below 150.

179-187' } Fault zone, dip 80° sheared siltstone & coarse arkose w/ block gouge dips
 187-202' mid. to coarse lt. gray biot. arkose, somewhat sheared

202-263' Pebbly, very coarse arkose -
 interval contains 1/4-1" granite & aplite pebbles up to 2" pebbles between 215-225' @ 235' 4" granite cobbles
 friable fine gr. arkose 240-246'
 rock becomes sheared below 246' w/ abund. 1-3 mm block gouge slip planes; no pyrite

263-284' Lt. gray coarse biot. arkose
 somewhat sheared & recemented along 1-2 mm clay gouge seams.

284-288' } Fault zone 80-90°

288-395' Alternating sequence of med. to coarse grained arkose, friable extensively faulted and gouged along black slip planes at irregular interval; slickens. slip planes dip 75-90° @ 303-315' several 1-2 mm calcite vltz.

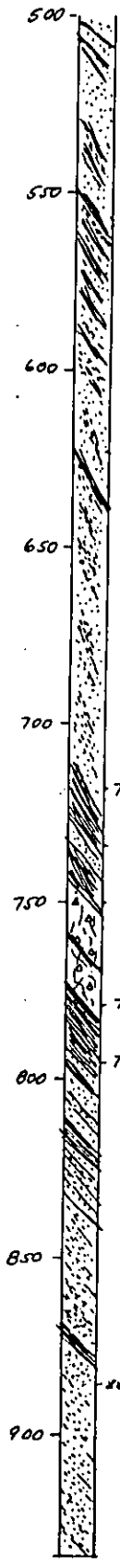
330-376.5 Fault zone - massive; black lustrous clay gouge, 75-90° w/ 0.5' arkosic crack portions no sulfides

395-421' Fault zone - black, massive clay gouge seams enclosing up to 1' arkose blocks

421-457' Massive fault zone - black gouge slip planes, dip 75-90°

Below 457' - essentially very coarse, lt. to med. gray arkose - friable, cut at irregular intervals by concentrations of block gouge slip planes, dip 75-90° 1-6" thick.
 - massive fault @ 482-501' dips 75-90°

entire hole averages
 .001 03 16 Au



Below 501' - essentially brown gray, med. to coarse arkosic wacke w/ abund. shredded biot. and chlorite, no sulfides
 - rock cut extensively by irregularly spaced black gouge slip planes following bedding especially in laminated arkose, dip 75-90°
 - overall rock is very friable, poorly sorted

below 540' - arkose becomes increasingly laminated, 75-90° generally followed by black gouge slips.
 no sulfides, no py. veining

entire hole averages
 .001 g/t Au

718-750' Massive fault zone - black gouge slips (slickens.) dip 75-90°, fault in sheared arkose @ 734-738' coarse arkosic wacke block within fault zone.

750-779' Brecciated & sheared, green-gray arkose mixture - partly silicified, finely dissem. pyr. in matrix locally, abund. dk. gray chert fragm. chloritic shear planes dip 45-75° - lower contact bounded by gouged black siltstone layer, dip 45° to 75°

Below 795' - Alternating sequence of firm, med. grained, biotite arkose, dk. gray and black siltstone seams, dip uniformly 45-65°
 no sulfides; no py. veining
 - siltstone layers generally gouged with obliquely-sided black clay seams. slip planes follow bedding;
 - dk. gray, firm arkose has different character from loosely consolidated arkose above.

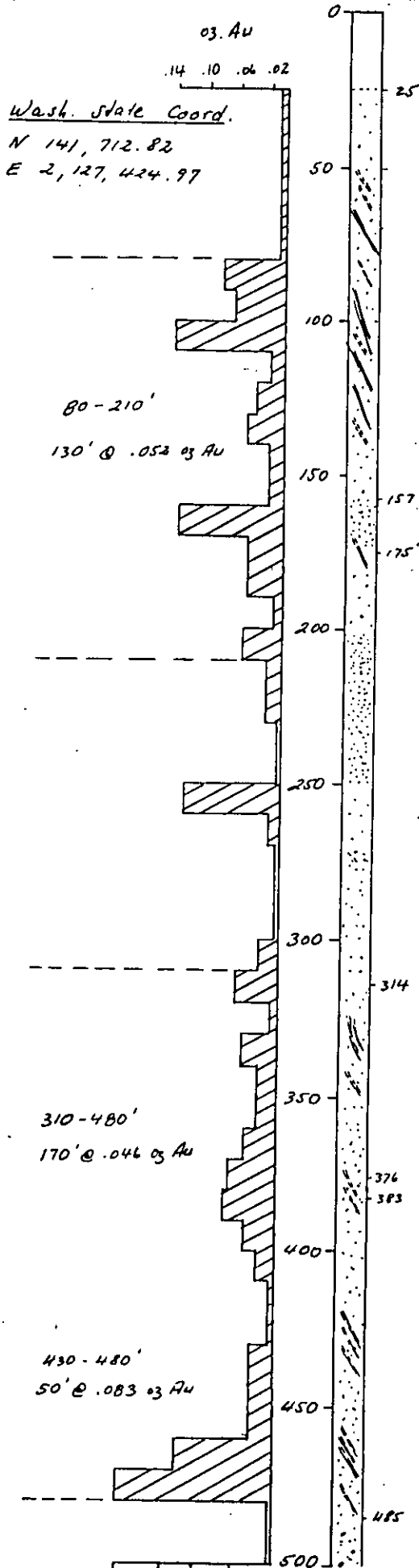
below 896 - to bottom of hole -
 alternating sequence of coarse, dk. gray arkose and 1-5" black siltstone layers; latter are closely spaced; intervening arkose is 1-2' thick slip planes follow siltstone layers, dip 45°
 no sulfides, no py. veining

TD 933'

BY SAS DATE 1/16/76
 CHKD. BY _____ DATE _____
ELW. 1788.93

SUBJECT Summary Log DDH-LU-18
Louitt Project, Chelon Co, Wash.

SHEET NO. 1 OF 2
 JOB NO. Scale: 1" = 50'
560W; -55°



0-25 no core - rock bit

25-50' light to heavily Fe stained arkose w/ few Pyr. remnants.

50-157' light gray, very coarse arkose -
 Pyr. finely dissem. and in irregular clots,
 Pyr. content \approx 1%
 - locally dark gray silty arkose intervals, friable
 w/ little dissem. Pyr., little sheared, 75°
 @ 69-74'
 115-117' and 124-131'
 isolated white qtz veins; 1-6" @ 55', 60', 85'
 6" qtz. v. @ 107', dip 15°, fine gr. Pyr. along
 margins
 93-105' shear zone, 75°
 below 105' - less Pyr, more biotite, rock cut
 infrequently by 1/8-1/4" gray qtz. vits.
 5" white qtz. v. @ 134'

157-175' med. gr. bleached silty arkose, locally brecciated,
 w/ dk. gray cherty fragm. - Pyr.
 abund. black gouge slip planes (1-2mm)
 175-176' white qtz. v. w/ dk. gray cherty material

176-200' essentially very coarse arkose, H. Gray, w/ biot.
 Pyr. on fract.

207-250' arkose grades into silty arkose (to 207') and
 then into bleached, fine gr. arkose below 207'.
fine gr. bleached arkose - 1-2% irregularly dissem.
 Pyr. in clots + vits; some 1/2" white qtz. veins,
 below 234' - Pyr. content diminishes, biot. stable
 few - 1-2' silty intervals

250-314' alternating sequence of coarse to fine grained
arkose & silty arkose, biot. stable, fair amount
of steep fract. w/ black clay gouge;
 locally laminated siltstone intervals w/ up to 5% dissem.
 Pyr.

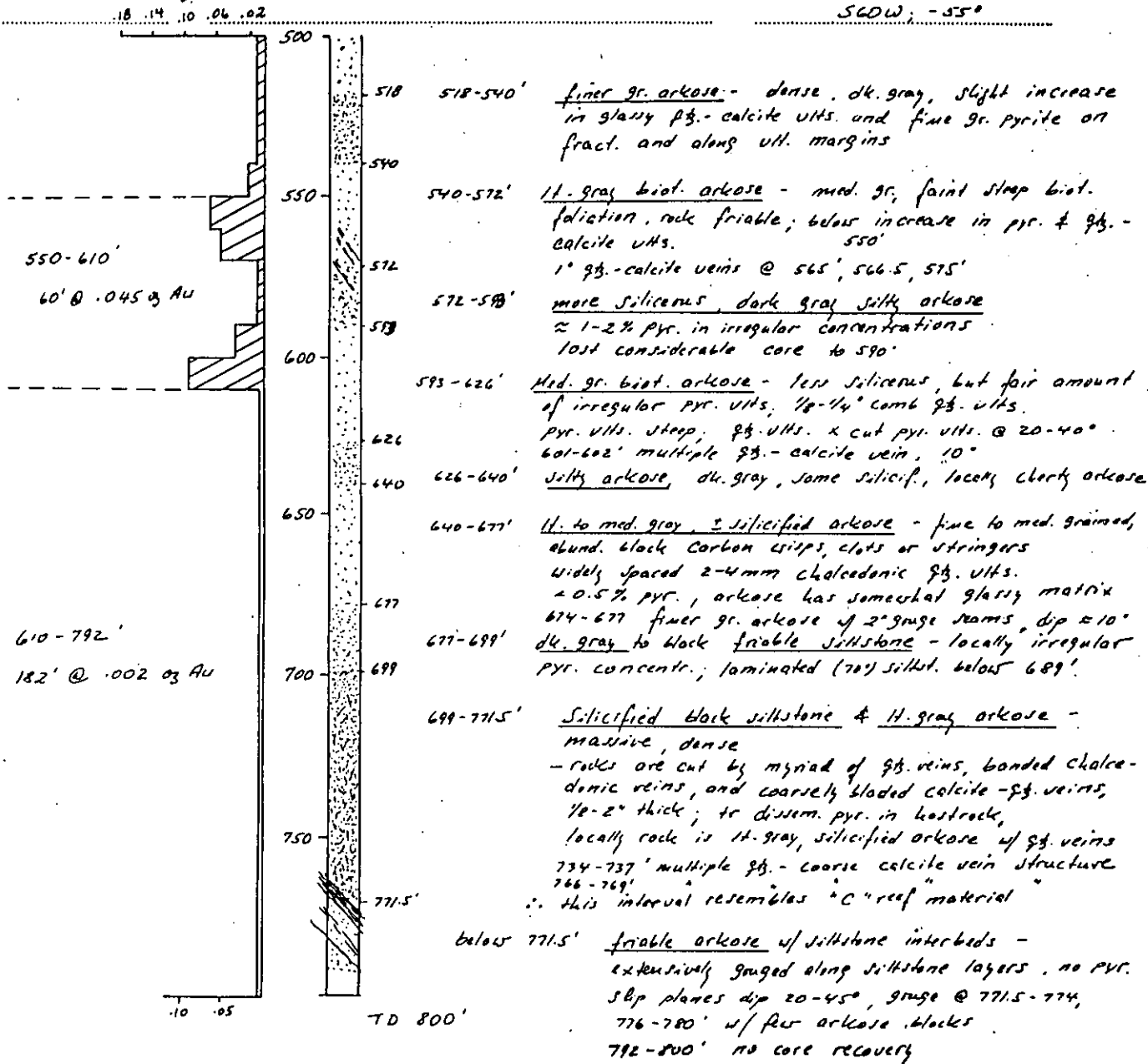
309-314' silty arkose - sheared along steep fract.

314-376' homogeneous med. to coarse biot. arkose -
 3" white qtz. vein @ 345', dip 45°
 concentr. of 1/8" white qtz. vits. @ 328-330'
 fair amount dk. gray qtz. - Pyr. vits. throughout.

376-383' fine gr. silty arkose - w/ fine gr. biot.
 1" white qtz. veins @ 379', 381' dip 45°

383-485' homogeneous med. to coarse biotite arkose -
 contains locally 1-2" white qtz. - calcite veins, 45°
 403-413' shear zone developed along steep fract.,
 thin black clay gouge films
 - rock becomes coarser grained below 445'.
 widely spaced 1-2" white qtz. - calcite veins @ 420', 455',
 462, 466, 463', 478' dip 40-45°
 5" qtz. vein @ 425-426'
 - numerous 1-3 mm qtz. - calcite vits. w/ Pyr. margins.

485-518' Pebbly arkose - up to 2" isolated granite pebbles
 416-417' concentr. of dk. gray cherty qtz. vits. (1/4-1/6") w/
 fine gr. Pyr.



APPENDIX B

DIAMOND DRILL ASSAYS

LOVITT PROJECT

DDH-LV-1

Sample No.	Interval	Footage	Recovery	Au oz/ton		Ag oz/ton	
				CMS	CRL	CMS	CRL
75-LV-4001	141 - 151	10	5.9'	.001		.02	
	151 - 154	3		no core recovery			
4002	154 - 164	10	10'	.023		.06	
4003	164 - 174	10	10'	.025		.04	
4004	174 - 184	10	10'	.018		.01	
4005	184 - 194	10	10'	.017		.04	
4006	194 - 204	10	10'	.039	< 0.01	.09	
4007	204 - 214	10	10'	.048	0.047	.14	
4008	214 - 224	10	10'	.054	0.072	.19	
4009	224 - 234	10	9.7'	.054		.09	
4010	234 - 245	11	9.2'	.078	< 0.01	.18	0.14
	245 - 250	5		no core recovery			
4011	250 - 260	10	9.5'	.010	0.014	.02	Tr
4012	260 - 270	10	10'	.002	< 0.01	.02	Tr
4013	270 - 280	10	8.7'	< .001	< 0.01	.01	Tr
4014	280 - 286	6	3.7'	.105	0.100	.30	Tr
4015	286 - 290	4	0.3'	.100	0.096	.40	Tr
4016	290 - 300	10	5.8'	.243	0.222	.63	0.12
4017	300 - 310	10	7.7'	.075	0.068	.16	Tr
4018	310 - 320	10	8.9'	.045	0.068	.20	Tr
4019	320 - 330	10	9.8'	.366	0.284	.66	0.44
4020	330 - 340	10	10'	.081	0.084	.22	0.02
4021	340 - 350	10	8.7'	.056	0.066	.18	Tr
4022	350 - 360	10	10'	.050	0.020	.21	0.14
4024	360 - 370	10	10'	.047	0.062	.18	Tr
4023	370 - 380	10	10'	.071	0.068	.16	0.06
4025	380 - 390	10	10'	.069	0.064	.14	Tr
4026	390 - 400	10	10'	.054	0.062	.18	Tr
4027	400 - 410	10	10'	.039	0.048	.24	Tr
4028	410 - 420	10	10'	.026	0.040	.17	Tr
4029	420 - 430	10	10'	.054	0.050	.44	0.16
4030	430 - 440	10	10'	.027	0.030	.11	0.04
4031	440 - 450	10	10'	.026	0.036	.19	Tr
4032	450 - 460	10	10'	.016	0.020	.13	Tr
4033	460 - 470	10	10'	.007	0.010	.04	Tr
4034	470 - 480	10	8.4'	.004	< 0.010	.03	Tr
4035	480 - 490	10	10'	.002	< 0.010	.03	Tr

LOVITT PROJECT

DDH-LV-1
(continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4036	490 - 500	10	10'	.002	<0.010	.02	0.08
4037	500 - 510	10	10'	<.001	<0.010	.02	Tr
4038	510 - 520	10	10'	.002	<0.010	.03	Tr
4039	520 - 530	10	9.7'	.002	<0.010	.03	Tr
4040	530 - 540	10	9.3'	.001	<0.010	.02	Tr
4041	540 - 550	10	9.1'	.002	<0.010	.03	Tr
4042	550 - 560	10	9.5'	.002	<0.010	.03	Tr
4043	560 - 570	10	10	.004	<0.010	.01	Tr
4044	570 - 574	4	4'				

LOVITT PROJECT

DDH-LV-2

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4101	43 - 49	6	1.7'	.004		.01	
	49 - 70	21'		no core recovery			
4102	70 - 77	7	1.5'	.001		.01	
	77 - 91	14		no core recovery			
4103	91 - 100	9	2.3'	.002		.01	
	100 - 105	5		no core recovery			
4104	105 - 115	10	9.3'	.002	< 0.01	.01	
4105	115 - 125	10	6.7'	.004	< 0.01	.01	
4106	125 - 135	10	9.25'	.003	< 0.01	.01	
4107	135 - 140	5	4.6'	.002		.02	
	140 - 155	15		no core recovery			
4108	155 - 165	10	10'	.003		.02	
4109	165 - 175	10	10'	.002		.01	
4110	175 - 185	10	8.1'	.003	< 0.01	.01	0.14
4111	185 - 195	10	10'	.002	0.14	.01	Tr
4112	195 - 205	10	4.5'	.002	< 0.01	.01	Tr
4113	205 - 208	3	1.7'	.002	< 0.01	.02	Tr
4123	208 - 220	12		< .001	< 0.01	.04	Tr
4124	220 - 230	10		.001	< 0.01	.02	0.06
4125	230 - 240	10		.001	< 0.01	.03	Tr
4114	240 - 250	10	6.6'	.002	< 0.01	< .01	Tr
4115	250 - 260	10	10'	< .001	< 0.01	< .01	Tr
4116	260 - 270	10	10'	< .001	< 0.01	< .01	Tr
4117	270 - 280	10	10'	.001	< 0.01	< .01	Tr
4118	280 - 290	10	10'	.001	< 0.01	.03	Tr
4119	290 - 300	10	8.1'	< .001	< 0.01	.03	Tr
4120	300 - 310	10	7.5'	.001	< 0.01	.02	Tr
4121	310 - 320	10	8.2'	< .001	< 0.01	.02	Tr
4122	342 - 347	5	4.0'	< .001	< 0.01	.04	Tr

LOVITT PROJECT

DDH-LV-3

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4126	45 - 55	10	10'	<.001	<0.01	.02	Tr
4127	55 - 65	10	10'	.008	0.016	.08	Tr
4128	65 - 75	10	10'	.004	0.054	.08	Tr
4129	75 - 85	10	10'	.004	0.010	.25	Tr
4130	85 - 90	5	4.2'	.003	0.012	.10	Tr
4131	90 - 95	5	5'	.003	0.010	.07	Tr
4132	95 - 100	5	5'	.004	<0.01	.06	Tr
4133	100 - 110	10	9.3'	.007	<0.01	.09	Tr
4134	110 - 120	10	10'	.005	<0.01	.06	Tr
4135	120 - 130	10	10'	.006	<0.01	.04	Tr
4136	130 - 140	10	9.7'	.005	0.010	.08	Tr
4137	140 - 150	10	6.2'	.002	<0.01	.06	Tr
4138	150 - 160	10	7.5'	.006	<0.01	.08	Tr
4139	160 - 170	10	9.2'	.002	<0.01	.07	Tr
4145	217 - 227	10	8.9'		<0.010		Tr
4146	258 - 268	10	9'		<0.010		Tr
4140	290 - 300	10	10'	.002	<0.01	.05	Tr
4141	300 - 310	10	10'	.002	<0.01	.06	Tr
4142	310 - 320	10	10'	.001	<0.01	.04	Tr
4143	320 - 330	10	10'	.001	<0.01	.06	Tr
4144	330 - 337	7	7'	.002	<0.01	.04	Tr
4145	217 - 227	10		.002		.02	
4146	258 - 268	10		.001		.03	

LOVITT PROJECT

DDH-LV-4

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4147	34 - 45	10	9'	.002		.03	
4148	45 - 55	10	6.5'	.003		.04	
4149	100 - 110	10	10.0'	.002		.04	
4150	150 - 160	10	9.6'	.002		.03	
4151	200 - 210	10	10.0'	.002		.03	
4152	250 - 260	10	10.0'	.001		.04	
4153	311 - 321	10	10.0'	.001		.03	
	end of hole						

LOVITT PROJECT

DDH-LV-5

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4154	30 - 35	5	5.2'	.001	<0.010	.04	Tr
4155	35 - 45	10	10'	.001	<0.010	.03	Tr
4156	45 - 55	10	9.4'	.002	<0.010	.04	Tr
4157	55 - 65	10	9.0'	.002	<0.010	.03	Tr
4158	65 - 75	10	9.4'	.005	<0.010	.18	Tr
4159	75 - 85	10	9.0'	.007	<0.010	.06	Tr
4160	85 - 95	10	10'	.006	<0.010	.10	Tr
4161	95 - 105	10	10'	.007	<0.010	.06	Tr
4162	105 - 115	10	10'	.007	<0.010	.05	Tr
4163	115 - 125	10	9.8'	.003	<0.010	.04	Tr
4164	125 - 135	10	9.9'	.004	<0.010	.03	Tr
4165	135 - 145	10	9.3'	.004	<0.010	.04	Tr
4166	145 - 155	10	10.0'	.004	<0.010	.04	Tr
4167	155 - 165	10	10.0'	.003	<0.010	.09	Tr
4168	165 - 175	10	10.0'	.003	<0.010	.09	Tr
4169	175 - 185	10	10.0'	.004	<0.010	.10	Tr

LOVITT PROJECT

DDH-LV-6

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4045	141 - 150	9	5.1'	.002	< 0.010	.05	Tr
4046	150 - 160	10	9.2'	.003	< 0.010	.05	Tr
4047	160 - 170	10	9.6'	.002	< 0.010	.03	Tr
4048	170 - 180	10	8.5'	.004	< 0.010	.04	Tr
4049	180 - 190	10	10.0	.005	< 0.010	.06	Tr
4050	190 - 200	10	10'	.004	< 0.010	.04	Tr
4051	200 - 210	10	12.5	.004	< 0.010	.04	Tr
4052	210 - 220	10	8.8'	.004	< 0.010	.05	Tr
4053	220 - 230	10	9.7'	.004	< 0.010	.04	Tr
4054	230 - 240	10	10.0'	.007	< 0.010	.04	Tr
4055	240 - 250	10	10.0'	.007	< 0.010	.03	Tr
4056	250 - 260	10	9.5'	.021	0.036	.07	Tr
4057	260 - 270	10	10.0'	.150	0.190	.27	0.02
4058	270 - 280	10	10.0'	*.560	0.844	.60	0.20
4059	280 - 290	10	8.7'	.062	0.082	.10	Tr
4060	290 - 294	4	3.5'	.126	0.191	.22	0.10
4061	294 - 302	8	1.3'	.120	0.144	.22	Tr
4062	302 - 310	8	7.7'	.255	0.350	.40	0.35
4063	310 - 320	10	8.9'	.039	< 0.010	.17	Tr
4064	320 - 330	10	9.0	.006	0.010	.08	Tr
4065	330 - 340	10	10'	.005	0.010	.08	Tr
4066	340 - 350	10	10'	.007	0.012	.05	Tr
4067	350 - 360	10	9.1'	.008	0.010	.06	Tr
4068	360 - 370	10	9.5'	.014	0.020	.03	Tr
4069	370 - 380	10	10.0	.015	0.010	.04	Tr
4070	380 - 390	10	10.0+	.023	0.026	.02	Tr
4071	390 - 400	10	8.5'	.010	0.020	.02	Tr
4072	400 - 408	8	6.5'	.008	0.012	.02	Tr

Bottom

* Rechecked at .620

LOVITT PROJECT

DDH-LV-7

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4073	0 - 51	51	muck	.001	< 0.010	.03	Tr
4074	51 - 60	9	9'	.002	< 0.010	.06	Tr
4075	60 - 70	10	10'	.001	< 0.010	.03	Tr
4076	70 - 80	10	10'	.026	0.034	.07	Tr
4077	80 - 90	10	10'	.005	0.011	.02	Tr
4078	90 - 100	10	10'	.017	0.021	.04	Tr
4079	100 - 110	10	10'	.129	0.141	.23	0.02
4080	110 - 120	10	10'	.011	0.018	.06	Tr
4081	120 - 130	10	10'	.007	0.012	.05	Tr
4082	130 - 140	10	10'	.006	< 0.010	.06	Tr
4083	140 - 150	10	10'	.001	< 0.010	.04	Tr
4084	150 - 160	10	9.6'	< .001	< 0.010	.05	Tr
4085	160 - 170	10	10'	< .001	< 0.010	.04	Tr
4086	170 - 180	10	10'	< .001	< 0.010	.04	Tr
4087	180 - 192	12	9'	< .001	< 0.010	.05	Tr

LOVITT PROJECT

DDH-LV-8

Sample No.	Interval	Footage	Recovery	Au oz/ton		Ag oz/ton	
				CMS	CRL	CMS	CRL
75-LV-4088	5 - 10	5	2'	.001	<0.010	.06	Tr
4089	10 - 20	10	7.5'	.002	<0.010	.05	Tr
4090	20 - 30	10	2.5'	.002	0.010	.06	Tr
4091	30 - 40	10	1.7'	.007	0.010	.07	Tr
4092	40 - 50	10	6.0'	.007	0.010	.03	Tr
4093	50 - 60	10	9.0'	.004	<0.010	.04	Tr
4094	60 - 70	10	9.5'	.002	<0.010	.06	Tr
4095	70 - 80	10	10'	<.001	<0.010	.05	Tr
4096	80 - 90	10	10'	<.001	<0.010	.05	Tr
4097	90 - 100	10	9.8'	.001	<0.010	.04	Tr
4098	100 - 110	10	10'	.002	0.010	.05	Tr
4099	110 - 120	10	9.8'	.007	<0.010	.07	Tr
4100	120 - 130	10	9.2'	.004	0.010	.07	Tr
4201	130 - 140	10	9.0'	.004	0.010	.08	Tr
4202	140 - 150	10	9.1'	.003	0.010	.05	Tr
4203	150 - 160	10	10'	.002	<0.010	.06	Tr
4204	160 - 170	10	10'	.018	<0.010	.03	Tr
4205	170 - 180	10	6.8'	.009	<0.010	.04	Tr
4206	180 - 190	10	10'	.007	<0.010	.04	Tr
4207	190 - 200	10	10'	.008	0.014	.03	Tr
4208	200 - 210	10	8.5'	.010	<0.010	.04	Tr
4209	210 - 220	10	7.7'	.004	<0.010	.04	Tr
4210	220 - 230	10	10'	.003	<0.010	.03	Tr
4211	230 - 240	10	10'	.002	<0.010	.02	Tr
4212	240 - 250	10	10'	.005	<0.010	.02	Tr
4213	250 - 260	10	10'	.011	0.016	.07	0.16
4214	260 - 270	10	10'	.020	0.024	.05	Tr
4215	270 - 280	10	10'	.010	0.010	.04	Tr
4216	280 - 290	10	10'	.005	<0.010	.04	Tr
4217	290 - 300	10	10'	.021	0.022	.04	Tr
4218	300 - 310	10	10'	.020	0.022	.05	Tr
4219	310 - 320	10	10'	.014	0.018	.03	Tr
4220	320 - 330	10	9.5'	.020	0.040	.09	Tr
4221	330 - 340	10	10'	.006	0.010	.04	Tr
4222	340 - 350	10	10'	.096	0.094	.10	Tr
4223	350 - 360	10	10'	.041	0.036	.08	Tr
4224	360 - 370	10	10'	.077	0.072	.13	Tr
4225	370 - 380	10	10'	.038	0.046	.07	Tr

LOVITT PROJECT

DDH-LV-8
(continued)

Sample No.	Interval	Footage	Recovery	Au oz/ton		Ag oz/ton	
				CMS	CRL	CMS	CRL
75-LV-4226	380 - 390	10	10'	.012	0.010	.03	Tr
4227	390 - 400	10	9.8'	.030	0.010	.05	Tr
4228	400 - 410	10	10'	.080	0.082	.05	Tr
4229	410 - 420	10	10'	.025	0.010	.04	Tr
4230	420 - 430	10	10'	.047	0.066	.04	Tr
4231	430 - 440	10	10'	* .345	# 0.180	.20	# Tr
4232	440 - 450	10	10'	.020	0.014	.05	Tr
4233	450 - 460	10	10'	.022	0.036	.04	Tr
4234	460 - 470	10	10+	.021	0.024	.07	Tr
4235	470 - 480	10	9.5'	.004	0.010	.05	Tr
4236	480 - 490	10	10'	.007	0.014	.03	0.20
4237	490 - 500	10	10'	.110	0.122	.13	Tr
4238	500 - 510	10	10'	.020	0.030	.07	Tr
4239	510 - 520	10	10'	.035	0.042	.05	Tr
4240	520 - 530	10	10'	.005	0.010	.05	Tr
4241	530 - 540	10	10'	.025	0.060	.04	Tr
4242	540 - 550	10	10'	.027	0.034	.05	Tr
4243	550 - 560	10	10'	.004	0.010	.03	Tr
4244	560 - 570	10	10'	.006	0.010	.05	Tr
4245	570 - 580	10	10'	.016	0.020	.08	0.18
4246	580 - 590	10	10'	.030	0.034	.08	0.08
4247	590 - 600	10	10'	.024	0.030	.07	Tr
4248	600 - 610	10	10'	.081	0.130	.05	0.11
4249	610 - 620	10	10'	.008	0.020	.05	Tr
4250	620 - 630	10	10'	.014	0.020	.04	Tr
4251	630 - 640	10	10'	.240	0.240	.20	0.02
4252	640 - 650	10	10'	.054	0.046	.11	Tr
4253	650 - 660	10	10'	.021	0.036	.05	Tr
4254	660 - 670	10	10'	.010	0.010	.04	Tr
4255	670 - 680	10	10'	.014	0.022	.05	Tr
4256	680 - 690	10	10'	.033	0.050	.10	Tr
4257	690 - 700	10	10'	.007	0.016	.08	0.10
4258	700 - 710	10	10'	.004	0.018	.08	Tr
4259	710 - 720	10	10'	<.001	0.010	.07	Tr
4260	720 - 730	10	10'	.003	0.030	.04	0.07
4261	730 - 740	10	10'	.004	<0.010	.05	0.06
4262	740 - 750	10	10'	.002	<0.010	.04	Tr
4263	750 - 760	10	10'	.003	<0.010	.04	Tr
4264	760 - 770	10	10'	.002	0.010	.05	Tr
4265	770 - 780	10	9.7'	.001	0.010	.03	Tr

* (rechecked at .320)

(rechecked at - Au 0.183 / Ag 0.27)

LOVITT PROJECT

DDH-LV-8
(continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4266	780 - 790	10	10'	.001	0.012	.05	Tr
4267	790 - 800	10	10'	.002	0.010	.04	Tr
4268	800 - 810	10	10'	.002	<0.010	.03	Tr
4269	810 - 820	10	10'	.004	0.010	.05	Tr
4270	820 - 830	10	9.5'	.004	0.010	.02	Tr
4271	830 - 840	10	5.3'	.002	<0.010	.02	Tr
4272	840 - 850	10	10'	.002	0.010	.02	Tr
4273	850 - 860	10	9.3'	.004	<0.010	.02	Tr
4274	860 - 870	10	10'	.002	<0.010	.03	Tr
4275	870 - 880	10	9.9'	.004	<0.010	.05	Tr
4276	880 - 890	10	10'	.001	<0.010	.02	Tr
4277	890 - 900	10	10'	.001	<0.010	.03	1.75
4278	900 - 910	10	10'	.001	<0.010	.02	Tr
4279	910 - 920	10	10'	<.001	<0.010	.02	Tr
4280	920 - 930	10	10'	.001	<0.010	.02	Tr
4281	930 - 940	10	10'	<.001	<0.010	.02	Tr
4282	940 - 950	10	9.4'	<.001	<0.010	.01	Tr
4283	950 - 960	10	10'	<.001	<0.010	.01	Tr
4284	960 - 970	10	10'	.001	<0.010	.02	Tr
4285	970 - 975	5	5'	.001	<0.010	.02	Tr
End of hole 975'							

LOVITT PROJECT

DDH-LV-9

Sample No.	Interval	Footage	Recovery	Au oz/ton		Ag oz/ton	
				CMS	CRL	CMS	CRL
75-LV-4170	190 - 200	10	10.0	.002	0.010	.03	Tr
4171	200 - 210	10	9.1	.002	0.010	.01	Tr
4172	210 - 220	10	10.0	.008	0.020	.03	Tr
4173	220 - 230	10	10.0	.005	0.014	.02	Tr
4174	230 - 240	10	10.0	.006	0.014	.06	0.30
4175	240 - 250	10	9.6	.005	0.014	.06	Tr
4176	250 - 260	10	10.0	.010	0.022	.08	Tr
4177	260 - 270	10	10.0	.005	<0.010	.04	Tr
4178	270 - 280	10	10.0	.005	<0.010	.03	Tr
4179	280 - 290	10	9.8	.013	0.016	.06	Tr
4180	290 - 300	10	9.3	.041	0.048	.10	Tr
4181	300 - 310	10	10.0	.080	0.092	.13	0.06
4182	310 - 320	10	10.0	.077	0.104	.15	0.04
4183	320 - 330	10	10.0	.077	0.100	.14	Tr
4184	330 - 340	10	8.5	.035	0.066	.07	Tr
4185	340 - 350	10	6.0	.001	< 0.010	.03	Tr
4186	350 - 360	10	10.0	.001	< 0.010	.03	Tr
4187	360 - 370	10	5.5	< .001	< 0.010	.02	Tr
4188	370 - 380	10	9.5	.004	< 0.010	.01	Tr
4189	380 - 390	10	10.0	< .001	< 0.010	.01	Tr
4190	390 - 400	10	9.7	.004	< 0.010	.01	Tr
4191	400 - 410	10	10.0	.002	0.010	.02	Tr
4192	410 - 420	10	10.0	.001	< 0.010	.02	Tr
4193	420 - 430	10	10.0	.002	< 0.010	.02	Tr
4194	430 - 440	10	10.0	.018	< 0.010	.02	Tr
4195	440 - 450	10	10.0	.020	< 0.010	.01	Tr
4196	450 - 460	10	10.0	.013	0.026	.03	Tr
4197	460 - 470	10	7.6	.005	0.022	.01	Tr
4198	470 - 480	10	10.0	.004	< 0.010	.02	Tr
4199	480 - 490	10	5.5	.004	< 0.010	.02	Tr
4200	490 - 500	10	10.0	.001	< 0.010	.02	Tr
4301	500 - 510	10	10.0	.001	< 0.010	.01	Tr
4302	510 - 520	10	10.0	< .001	< 0.010	.02	Tr
4303	520 - 530	10	10.0	< .001	< 0.010	.02	Tr
4304	530 - 540	10	10.0	.001	< 0.010	.02	Tr
4305	540 - 550	10	10.0	< .001	< 0.010	.02	Tr
4306	550 - 560	10	10.0	.001	< 0.010	.03	Tr
4307	560 - 572	12	11.0	< .001	< 0.010	.02	Tr

LOVITT PROJECT

DDH-LV-10

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4286	20 - 30	10	6.7	.001	< 0.010	.02	Tr
4287	30 - 40	10	7.1	.003	< 0.010	.01	Tr
4288	40 - 50	10	8.9	.004	< 0.010	.03	Tr
4289	50 - 60	10	10	.002	< 0.010	.02	Tr
4290	60 - 70	10	10	.002	< 0.010	.01	Tr
4291	70 - 80	10	10	.002	< 0.010	.02	Tr
4292	80 - 90	10	10	.001	< 0.010	.01	Tr
4293	90 - 100	10	10	.019	< 0.010	.03	Tr
4294	100 - 110	10	10	.002	< 0.010	.02	0.06
4295	110 - 120	10	10	.001	< 0.010	.02	Tr
4296	120 - 130	10	10	.003	< 0.010	.02	Tr
4297	130 - 140	10	7.1	.017	< 0.010	.01	Tr
4298	140 - 150	10	10	.001	< 0.010	.02	Tr
4299	150 - 160	10	10	.004	< 0.010	.02	Tr
4300	160 - 170	10	10	.010	< 0.010	.02	Tr
4401	170 - 180	10	10	.011	< 0.010	.02	Tr
4402	180 - 190	10	10	.020	< 0.010	.02	0.14
4403	190 - 200	10	10	.002	< 0.010	.02	Tr
4404	200 - 210	10	10	.002	< 0.010	.03	0.08
4405	210 - 220	10	10	.003	< 0.010	.02	0.26
4406	220 - 230	10	10	.004	< 0.010	.08	Tr
4407	230 - 240	10	10	.001	< 0.010	.02	Tr
4408	240 - 250	10	10	.003	< 0.010	.04	0.02
4409	250 - 260	10	10	.004	< 0.010	.03	Tr
4410	260 - 270	10	10	.007	< 0.010	.03	Tr
4411	270 - 280	10	10	.004	< 0.010	.02	Tr
4412	280 - 290	10	10	.007	0.010	.02	0.03
4413	290 - 300	10	10	.007	< 0.010	.03	0.05
4414	300 - 310	10	9.2	.003	< 0.010	.03	Tr
4415	310 - 320	10	4.5	.002	0.010	.03	Tr
4416	320 - 330	10	3.8	.002	< 0.010	.02	Tr
4417	330 - 340	10	9.8	.002	< 0.010	.01	Tr
4418	340 - 350	10	10	.001	< 0.010	.02	Tr
4419	350 - 360	10	10	.001	< 0.010	.03	0.04
4420	360 - 370	10	10	.001	< 0.010	.02	Tr
4421	370 - 380	10	10	.002	< 0.010	.02	Tr
4422	380 - 390	10	9	.004	< 0.010	.01	0.10

LOVITT PROJECT

DDH-LV-10
(Continued)

Sample No.	Interval	Footage	Recovery	Au oz/ton		Ag oz/ton	
				CMS	CRL	CMS	CRL
75-LV-4423	390 - 400	10	6.6	.001	<0.010	.03	Tr
4424	400 - 410	10	3	.004	0.010	.05	0.12
4425	410 - 420	10	8.1	.003	<0.010	.06	Tr
4426	420 - 430	10	10	.001	<0.010	.03	0.06
4427	430 - 440	10	9.5	.002	<0.010	.04	Tr.
4428	440 - 450	10	10	.002	<0.010	.03	0.01
4429	450 - 460	10	8.2	.003	<0.010	.02	Tr
4430	460 - 470	10	9.7	.003	<0.010	.03	Tr
4431	470 - 480	10	10	.003	<0.010	.02	Tr
4432	480 - 490	10	10	.002	<0.010	.04	Tr
4433	490 - 500	10	10	.002	<0.010	.05	Tr
4434	500 - 510	10	10	.003	<0.010	.04	Tr
4435	510 - 520	10	10	<.001	<0.010	.02	Tr
4436	520 - 530	10	10	<.001	<0.010	.04	0.16
4437	530 - 540	10	10	<.001	<0.010	.03	0.02
4438	540 - 550	10	10	.003		.15	
4439	550 - 560	10	10	.003		.04	
4440	560 - 570	10	10	.004		.03	
4441	570 - 580	10	10	.003		.03	
4442	580 - 590	10	10	.002		.04	
4443	590 - 600	10	10	.002		.03	
4444	600 - 610	10	9.6	.002		.07	
4445	610 - 620	10	10	.002		.04	
4446	620 - 630	10	10	.003		.10	
4447	630 - 640	10	10	.001		.04	
4448	640 - 650	10	10	.002		.03	
4449	650 - 660	10	10	.003		.04	
4450	660 - 670	10	10	.004		.04	
4451	670 - 680	10	10	.003		.03	
4452	680 - 690	10	10	.003		.13	
4453	690 - 700	10	10	.004		.04	
4454	700 - 710	10	10	.004		.05	
4455	710 - 720	10	10	.003		.05	
4456	720 - 729	9	9	.002		.22	

LOVITT PROJECT

DDH-LV-11

Sample No.	Interval	Footage	Recovery	Au oz/ton		Ag oz/ton	
				CMS	CRL	CMS	CRL
75-LV-4308	120 - 130	10	8.3	.075	0.040	.18	Tr
4309	130 - 140	10	10	.023	0.024	.16	0.20
4310	140 - 150	10	10	.032	0.052	.25	0.12
4311	150 - 160	10	10	.055	0.062	.45	0.30
4312	160 - 170	10	10	.024	0.058	.16	0.08
4313	170 - 180	10	9.3	.026	0.040	.09	0.04
4314	180 - 190	10	10	.030	0.056	.13	Tr
4315	190 - 200	10	10	.044	0.052	.16	Tr
4316	200 - 210	10	10	.020	<0.010	.09	Tr
4317	210 - 220	10	10	.004	<0.010	.06	Tr
4318	220 - 230	10	10	.006	<0.010	.05	Tr
4319	230 - 240	10	10	.004	<0.010	.03	Tr
4320	240 - 250	10	10	.004	<0.010	.02	Tr
4321	250 - 260	10	10	.007	<0.010	.02	0.08
4322	260 - 268.5	8.5	8.5	.005	<0.010	.02	0.02
	268.5-272	No Core					
4323	272 - 280	8	8	.010	<0.010	.01	Tr
4324	280 - 290	10	10	.007	<0.010	.02	0.16
4325	290 - 300	10	10	.007	<0.010	.01	Tr
4326	300 - 310	10	10	.007	<0.010	.03	Tr
4327	310 - 320	10	10	.008	<0.010	.01	Tr
4328	320 - 330	10	10	.008	<0.010	.01	Tr
4329	330 - 340	10	10	.011	<0.010	.01	Tr
4330	340 - 350	10	10	.004	0.010	.02	Tr
4331	350 - 360	10	10	.011	<0.010	.02	Tr
4332	360 - 370	10	10	.013	0.022	.02	Tr
4333	370 - 380	10	10	.010	0.022	.04	Tr
4334	380 - 390	10	10	.013	0.024	.03	Tr
4335	390 - 400	10	10	.012	0.026	.04	Tr
4336	400 - 410	10	10	.004	0.022	.02	Tr
4337	410 - 420	10	10	.004	0.018	.01	Tr
4338	420 - 430	10	10	.003	<0.010	.02	Tr
4339	430 - 440	10	10	.004	<0.010	.02	Tr
4340	440 - 450	10	10	.004	<0.010	.02	Tr
4341	450 - 460	10	10	.002	<0.010	.02	Tr
4342	460 - 470	10	10	.002	<0.010	.01	Tr
4343	470 - 480	10	10	.003	<0.010	.01	Tr
4344	480 - 487	7	7	.002	<0.010	.02	Tr
4345	487 - 497	10	10	.002	<0.010	.02	Tr
4346	497 - 507	10	9.5	.002	<0.010	.02	Tr

LOVITT PROJECT

DDH-LV-12

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4457	13 - 20	7	5.5	.013	<0.010	.04	Tr
4458	20 - 30	10	7	.004	<0.010	.03	Tr
4459	30 - 40	10	10	.004	<0.010	.02	Tr
4460	40 - 50	10	10	.003	<0.010	.01	Tr
4461	50 - 60	10	10	.004	<0.010	.03	Tr
4462	60 - 70	10	10	.012	<0.010	.04	Tr
4463	70 - 80	10	10	.017	0.024	.07	0.04/0.12
4464	80 - 90	10	10	.009	<0.010	.04	Tr
4465	90 - 100	10	10	.006	0.020	.07	Tr
4466	100 - 110	10	10	.012	<0.010	.08	Tr
4467	110 - 120	10	10	.004	<0.010	.09	Tr
4468	120 - 130	10	10	.002	<0.010	.05	Tr
4469	130 - 140	10	10	<.001	<0.010	.06	Tr
4470	140 - 150	10	10	.002	<0.010	.04	Tr
4471	150 - 160	10	10	<.001	<0.010	.03	0.02
4472	160 - 170	10	10	.001	<0.010	.04	Tr
4473	170 - 180	10	10	.001	0.014	.03	Tr
4474	180 - 190	10	10	<.001	0.010	.04	0.08
4475	190 - 200	10	10	.001	<0.010	.03	Tr
4476	200 - 210	10	10	<.001	<0.010	.03	Tr
4477	210 - 220	10	10	<.001	<0.010	.05	Tr
4478	220 - 230	10	10	.002	<0.010	.03	Tr
4479	230 - 240	10	10	.002	<0.010	.03	Tr
4480	240 - 250	10	10	.001	<0.010	.05	Tr
4481	250 - 260	10	10	.001	<0.010	.04	Tr
4482	260 - 270	10	10	<.001	<0.010	.04	Tr
4483	270 - 280	10	10	<.001	<0.010	.02	Tr
4484	280 - 290	10	10	.001	0.012	.03	Tr
4485	290 - 300	10	10	.001	<0.010	.02	Tr
4486	300 - 310	10	10	<.001	<0.010	.03	Tr
4487	310 - 320	10	10	<.001	<0.010	.04	Tr
4488	320 - 330	10	10	<.001	<0.010	.04	0.06
4489	330 - 340	10	10	.001	<0.010	.04	Tr
4490	340 - 350	10	10	<.001	<0.010	.03	0.04
4491	350 - 360	10	10	<.001	<0.010	.03	Tr
4492	360 - 370	10	9	<.001	<0.010	.04	Tr
4493	370 - 380	10	10	<.001	<0.010	.03	Tr

LOVITT PROJECT

DDH-LV-12
(Continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4494	380 - 390	10	10	<.001	<0.010	.04	Tr
4495	390 - 400	10	10	.001	<0.010	.04	Tr
4496	400 - 410	10	10	.001	<0.010	.03	Tr
4497	410 - 420	10	10	<.001	<0.010	.05	Tr
4498	420 - 430	10	10	<.001	<0.010	.04	0.02
4499	430 - 440	10	10	<.001	<0.010	.03	Tr
4500	440 - 450	10	10	.001	<0.010	.02	Tr
4347	450 - 460	10	10	<.001	<0.010	.02	0.10
4348	460 - 470	10	10	<.001	<0.010	.03	Tr
4349	470 - 480	10	10	<.001	<0.010	.03	Tr
4350	480 - 490	10	10	<.001	<0.010	.03	Tr
4351	490 - 500	10	10	.001	<0.010	.03	Tr
4352	500 - 510	10	8.5	<.001	<0.010	.02	Tr
4353	510 - 520	10	10	.001	<0.010	.02	Tr
4354	520 - 528	8	8	<.001	<0.010	.02	Tr

LOVITT PROJECT

DDH-LV-13

Sample No.	Interval	Footage	Recovery	Au oz/ton		Ag oz/ton	
				CMS	CRL	CMS	CRL
75-LV-4501	5 - 10	5	4	.004	<0.010	.03	Tr
4502	10 - 20	10	10	.004	<0.010	.03	0.16
4503	20 - 30	10	10	.004	<0.010	.02	0.02
4504	30 - 40	10	10	.005	<0.010	.01	Tr
4505	40 - 50	10	10	.008	<0.010	.04	Tr
4506	50 - 60	10	10	.005	<0.010	.04	Tr
4507	60 - 70	10	10	.006	<0.010	.03	Tr
4508	70 - 80	10	10	.007	<0.010	.03	Tr
4509	80 - 90	10	10	.004	<0.010	.03	Tr
4510	90 - 100	10	10	.004	<0.010	.03	Tr
4511	100 - 110	10	10	.005	<0.010	.04	Tr
4512	110 - 120	10	10	.004	<0.010	.03	0.12
4513	120 - 130	10	10	.007	<0.010	.02	0.24
4514	130 - 140	10	10	.006	<0.010	.03	Tr
4515	140 - 150	10	10	.004	<0.010	.03	Tr
4516	150 - 160	10	10	.002	<0.010	.03	Tr
4517	160 - 170	10	10	.002	<0.010	.03	Tr
4518	170 - 180	10	10	.007	0.020	.02	Tr
4519	180 - 190	10	10	.005	<0.010	.07	Tr
4520	190 - 200	10	10	.004	<0.010	.04	Tr
4521	200 - 210	10	10	.004	0.010	.03	Tr
4522	210 - 220	10	10	.002	<0.010	.03	Tr
4523	220 - 230	10	10	.004	<0.010	.04	Tr
4524	230 - 240	10	10	.007	<0.010	.03	0.30
4525	240 - 250	10	10	.004	<0.010	.02	Tr
4526	250 - 260	10	10	.002	<0.010	.04	Tr
4527	260 - 270	10	10	.001	<0.010	.04	Tr
4528	270 - 280	10	10	.002	<0.010	.04	Tr
4529	280 - 290	10	10	.004	<0.010	.03	0.10
4530	290 - 300	10	10	.005	0.022	.01	Tr
4531	300 - 310	10	10	.005	0.010	.02	Tr
4532	310 - 320	10	10	.005	0.010	.02	Tr
4533	320 - 330	10	10	.003	0.010	.03	Tr
4534	330 - 340	10	10	.004	0.010	.02	Tr
4535	340 - 350	10	9.6	.010	0.014	.07	0.16
4536	350 - 360	10	9.8	.012	<0.010	.04	Tr
4537	360 - 370	10	10	.012	0.018	.03	Tr
4538	370 - 380	10	10	.027	0.042	.04	Tr
4539	380 - 390	10	10	.045	0.070	.07	Tr
4540	390 - 400	10	10	.016	0.046	.04	Tr

LOVITT PROJECT

DDII-LV-13
(Continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4541	400 - 410	10	10	.027	0.046	.02	0.04
4542	410 - 420	10	10	.039	0.052	.03	Tr
4543	420 - 430	10	10	.041	0.066	.02	Tr
4544	430 - 440	10	10	.042	0.060	.04	Tr
4545	440 - 450	10	10	.030	0.046	.04	0.20
4546	450 - 460	10	6.6	.050	0.086	.13	0.18
4547	460 - 465	5	3	.085	0.110	.14	0.08

LOVITT PROJECT

DDH-LV-14

Sample No.	Interval	Footage	Recovery	Au oz/ton		Ag oz/ton	
				CMS	CRL	CMS	CRL
75-LV-4355	0 - 10	10	5.5	.032	0.040	.11	Tr
4356	10 - 20	10	10	.026	0.040	.11	Tr
4357	20 - 30	10	10	.020	0.010	.10	Tr
4358	30 - 40	10	10	.045	0.052	.06	Tr
4359	40 - 50	10	10	.066	0.080	.06	Tr
4360	50 - 60	10	10	.061	0.074	.08	0.20
4361	60 - 70	10	9.6	.033	0.034	.04	Tr
4362	70 - 80	10	10.4	.186	0.204	.19	0.12
4363	80 - 90	10	10.1	.255	0.240	.35	0.42
4364	90 - 100	10	10	.015	0.030	.04	0.07
4365	100 - 110	10	10	.014	0.024	.03	Tr
4366	110 - 120	10	10	.035	0.052	.10	0.05
4367	120 - 130	10	10	.010	0.030	.04	Tr
4368	130 - 140	10	10	.012	0.024	.04	0.02
4369	140 - 150	10	10	.020	0.028	.05	Tr
4370	150 - 160	10	7.8	.015	0.032	.03	Tr
4371	160 - 170	10	7.5	.005	<0.010	.03	Tr
3272	170 - 180	10	4	.004	<0.010	.02	Tr
4373	180 - 190	10	7.2	.004	<0.010	.02	Tr
4374	190 - 200	10	8.4	.004	<0.010	.04	Tr
4375	200 - 210	10	5	<.001	<0.010	.02	Tr
4376	210 - 220	10	10.4	.010	<0.010	.24	0.10
4377	220 - 224	4	3.5	.018	0.020	.26	0.20
4378	224 - 230	6	5.2	.001	<0.010	.03	Tr
4379	230 - 240	10	5	.002	<0.010	.03	Tr
4380	240 - 248	8	3	<.001	<0.010	.03	Tr
4381	248 - 260	12	10.2	<.001	<0.010	.01	Tr

LOVITT PROJECT

DDH-LV-15

Sample No.	Interval	Footage	Recovery	Au oz/ton		Ag oz/ton	
				CMS	CRL	CMS	CRL
75-LV-4382	20 - 30	10	10	.004	0.336	.02	0.56
4383	30 - 40	10	10	.264	0.250	.24	0.28
4384	40 - 50	10	10.1	.234	<0.010	.25	Tr
4385	50 - 60	10	10.6	.006	0.054	.02	0.04
4386	60 - 70	10	10	.009	0.034	.02	Tr
4387	70 - 80	10	10.1	.018	<0.010	.06	0.04
4388	80 - 90	10	9.2	.002	<0.010	.03	Tr
4389	90 - 100	10	10.3	.003	<0.010	.03	Tr
4390	100 - 110	10	9.8	.004	<0.010	.02	Tr
4391	110 - 120	10	10.2	.003	<0.010	.03	Tr
4392	120 - 130	10	10.2	.003	<0.010	.02	Tr
4393	130 - 140	10	10	.004	<0.010	.03	Tr
4394	140 - 150	10	10	.023	0.030	.04	Tr
4395	150 - 160	10	10	.032	0.050	.06	0.10
4396	160 - 170	10	10.7	.017	0.018	.04	Tr
4397	170 - 180	10	10	.014	0.022	.02	Tr
4398	180 - 190	10	10.1	.008	0.012	.02	Tr
4399	190 - 200	10	9.0	.010	0.022	.03	Tr
4400	200 - 210	10	9.7	.009	0.010	.03	Tr
4701	210 - 220	10	10	.012	0.022	.08	Tr
4702	220 - 230	10	10.1	.066	0.122	.05	Tr
4703	230 - 240	10	10.3	.008	0.010	.04	Tr
4704	240 - 250	10	9.6	.007	0.010	.03	Tr
4705	250 - 260	10	10	.025	0.034	.07	Tr
4706	260 - 270	10	10.1	.008	0.014	.07	Tr
4707	270 - 280	10	9.9	.035	0.014	.05	Tr
4708	280 - 290	10	10	.036	0.062	.06	Tr
4709	290 - 300	10	9.7	.012	0.030	.03	Tr
4710	300 - 310	10	9.9	.009	0.034	.06	Tr
4711	310 - 320	10	10.2	.020	0.042	.06	Tr
4712	320 - 330	10	10	.004	0.010	.05	Tr
4713	330 - 340	10	9.5	.005	0.010	.05	Tr
4714	340 - 350	10	10.2	.029	0.010	.06	Tr
4715	350 - 360	10	10.2	.056	0.070	.08	Tr
4716	360 - 270	10	10	.017	0.062	.07	Tr
4717	370 - 380	10	10	.240	0.268	.20	Tr
4718	380 - 390	10	10	.038	0.062	.04	0.10
4719	390 - 400	10	10.1	.009	0.020	.02	Tr
4720	400 - 410	10	10.1	.162	0.170	.12	Tr

LOVITT PROJECT

DDH-LV-15
(Continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4721	410 - 420	10	9.9	.014	0.032	.02	Tr
4722	420 - 430	10	8.5	.618	0.662	.36	0.04
4723	430 - 440	10	10	.077	0.090	.05	Tr
4724	440 - 445	5	4.5	.065	0.096	.07	Tr
4725	445 - 453	8	7.5	.204	0.172	.13	Tr

LOVITT PROJECT

DDH-LV-16

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4601	10 - 20	10	2	.054	0.062	.38	0.32
4602	20 - 30	10	2	.003	<0.010	.03	Tr
4603	30 - 40	10	8.2	<.001	<0.010	.02	Tr
4604	40 - 50	10	5.0	.001	<0.010	.02	Tr
4605	50 - 60	10	2	<.001	<0.010	.03	0.16
4606	60 - 70	10	2	.001	<0.010	.02	0.04
4607	70 - 80	10	6	.002	<0.010	.03	Tr
4608	80 - 90	10	11	.007	<0.010	.04	Tr
4609	90 - 100	10	10	.004	<0.010	.05	Tr
4610	100 - 110	10	6	.012	0.012	.05	Tr
4611	110 - 120	10	9.5	.023	0.026	.11	Tr
4612	120 - 130	10	9.9	.020	0.026	.08	Tr
4613	130 - 140	10	10.2	.012	<0.010	.08	Tr
4614	140 - 150	10	10	.011	0.010	.04	Tr
4615	150 - 160	10	10.1	.008	0.010	.04	0.07
4616	160 - 170	10	10	.008	<0.010	.03	Tr
4617	170 - 180	10	10	.004	<0.010	.03	0.06
4618	180 - 190	10	9.7	.003	<0.010	.03	0.02
4619	190 - 200	10	9.5	.004	<0.010	.05	Tr
4620	200 - 210	10	10	.004	<0.010	.02	Tr
4621	210 - 220	10	9.5	.008	0.010	.05	Tr
4622	220 - 230	10	9.6	.009	0.010	.03	Tr
4623	230 - 240	10	9	.002	<0.010	.02	Tr
4624	240 - 250	10	9.9	.003	<0.010	.03	Tr
4625	250 - 260	10	9.9	.001	<0.010	.02	Tr
4626	No sample						
4627	260 - 270	10	10.1	.002	<0.010	.01	Tr
4628	270 - 280	10	10	.001	<0.010	.02	Tr
4629	280 - 290	10	9.9	<.001	<0.010	.01	Tr
4630	290 - 300	10	10.1	.002	<0.010	.02	Tr
4631	300 - 310	10	10.1	.001	<0.010	.01	Tr
4632	310 - 320	10	10	.001	<0.010	.02	Tr
4633	320 - 330	10	10	.003	<0.010	.02	Tr
4634	330 - 340	10	10	.003	<0.010	.02	Tr
4635	340 - 350	10	10	.004	<0.010	.01	Tr
4636	350 - 360	10	10	.005	<0.010	.02	Tr
4637	360 - 370	10	10	.004	<0.010	.01	0.04
4638	370 - 380	10	9.9	.005	<0.010	.02	Tr
4639	380 - 386	6	6.2	.004	<0.010	.02	0.06

LOVITT PROJECT

DDH-LV-16
(Continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4640	386 - 391.5	5.5	5.5	.006		.02	
4641	391.5-400	8.5	8.5	.004	<0.010	.03	Tr
4642	400 - 410	10	10	.005	<0.010	.01	Tr
4643	410 - 420	10	10	.005	<0.010	.01	Tr
4644	420 - 430	10	10	.002	<0.010	.02	Tr
4645	430 - 440	10	9.6	.005	<0.010	.02	0.20
4646	440 - 450	10	10	.002	<0.010	.02	Tr
4647	450 - 460	10	10	.001	<0.010	.02	Tr
4648	460 - 470	10	9.9	.002	0.010	.02	0.03
4649	470 - 480	10	9.8	<.001	<0.010	.02	Tr
4650	480 - 490	10	10.5	.001	<0.010	.02	Tr
4651	490 - 500	10	9.9	<.001	0.010	.01	Tr
4652	500 - 510	10	9.9	<.001	<0.010	.02	Tr
4653	510 - 520	10	10	.001	<0.010	.03	Tr
4654	520 - 530	10	10.5	<.001	<0.010	.02	Tr

LOVITT PROJECT

DDH-LV-17

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4548	10 - 20	10	5.5	.005	0.010	.03	Tr
4549	20 - 55	35	6.	.011	0.010	.05	0.15
4550	55 - 65	10	5.	.004	<0.010	.04	Tr
4551	65 - 70	5	4.7	<.001	<0.010	.04	Tr
4552	70 - 80	10	9.4	<.001	<0.010	.02	Tr
4553	80 - 90	10	8.	.002	<0.010	.02	Tr.
4554	90 - 100	10	10.	.001	<0.010	.01	Tr
4555	100 - 110	10	10.	<.001	<0.010	.01	Tr
4556	110 - 120	10	10.	<.001	<0.010	.02	Tr
4557	120 - 130	10	10.	<.001	<0.010	.03	Tr
4558	130 - 140	10	10.	.001	<0.010	.03	Tr
4559	140 - 150	10	10.	.002	<0.010	.02	Tr
4560	150 - 160	10	10.	.001	<0.010	.02	Tr
4561	160 - 170	10	10.	.004	<0.010	.03	0.08
4562	170 - 180	10	8.4	.002	<0.010	.02	Tr
4563	180 - 190	10	10.	.004	<0.010	.03	Tr
4564	190 - 200	10	9.8	.005	<0.010	.03	Tr
4565	200 - 210	10	10.	.004	<0.010	.02	Tr
4566	210 - 220	10	10.	.003	<0.010	.01	Tr
4567	220 - 230	10	10.	.001	<0.010	.03	Tr
4568	230 - 240	10	10.	.004	<0.010	.02	Tr
4569	240 - 250	10	10.	.002	<0.010	.01	Tr
4570	250 - 260	10	10.	.001		.03	
4571	260 - 270	10	9.8	.001	<0.010	.04	Tr
4572	270 - 280	10	10.2	<.001	<0.010	.03	Tr
4573	280 - 290	10	10.1	.001	<0.010	.04	Tr
4574	290 - 300	10	9.7	<.001	<0.010	.04	Tr
4575	300 - 310	10	10.	.001	<0.010	.02	Tr
4576	310 - 320	10	10.	.001	<0.010	.03	Tr
4577	320 - 330	10	10	.001	<0.010	.03	Tr
4578	330 - 340	10	9.7	.001	<0.010	.02	Tr
4579	340 - 350	10	10.	.001	<0.010	.02	Tr
4580	350 - 360	10	10.	.001	<0.010	.03	Tr
4581	360 - 370	10	12.	<.001	<0.010	.03	Tr
4582	370 - 380	10	10.	<.001	<0.010	.02	Tr
4583	380 - 390	10	10.	.001	<0.010	.02	0.12
4584	390 - 400	10	9.5	.001	<0.010	.03	Tr
4585	400 - 410	10	9.5	.001	<0.010	.02	Tr

LOVITT PROJECT

DDH-LV-17
(Continued)

Sample No.	Interval	Footage	Recovery	Au oz/ton		Ag oz/ton	
				CMS	CRL	CMS	CRL
75-LV-4586	410 - 420	10	10.	.002	<0.010	.04	Tr
4587	420 - 430	10	8.9	<.001	<0.010	.04	Tr
4588	430 - 440	10	8.1	.001		.04	
4589	440 - 450	10	6.7	.001	<0.010	.05	Tr
4590	450 - 460	10	10.	<.001	<0.010	.02	Tr
4591	460 - 470	10	9.1	<.001	<0.010	.03	Tr-
4592	470 - 480	10	9.8	<.001	<0.010	.02	Tr
4593	480 - 490	10	9.7	.001	<0.010	.03	Tr
4594	490 - 500	10	10.	.001	<0.010	.03	Tr
4595	500 - 510	10	8.9	.001	<0.010	.04	Tr
4596	510 - 520	10	10.	<.001	<0.010	.02	Tr
4597	520 - 530	10	8.4	<.001	<0.010	.02	0.10
4598	530 - 540	10	10.	.001	<0.010	.02	Tr
4599	540 - 550	10	9.9	<.001	<0.010	.02	Tr
4600	550 - 560	10	9.5	<.001	<0.01	.02	
4655	560 - 570	10	10.	<.001	<0.010	.01	Tr
4656	570 - 580	10	10.	<.001	<0.010	.02	Tr
4657	580 - 590	10	9.8	.001	0.012	.03	Tr
4658	590 - 600	10	9.8	<.001	0.014	.03	Tr
4659	600 - 610	10	10.	.001	0.014	.02	Tr
4660	610 - 620	10	9.4	<.001	<0.010	.02	Tr
4661	620 - 630	10	10.	<.001	<0.010	.01	Tr
4662	630 - 640	10	9.9	<.001	<0.010	.02	Tr
4663	640 - 650	10	10.	<.001	0.010	.02	Tr
4664	650 - 660	10	9.6	<.001	<0.010	.02	0.14
4665	660 - 670	10	10	<.001	<0.010	.01	Tr
4666	670 - 680	10	10	<.001	<0.010	.01	Tr
4667	680 - 690	10	10	<.001	0.022	.02	Tr
4668	690 - 700	10	10	.001	0.012	.02	Tr
4669	700 - 710	10	10	.001	0.014	.01	Tr
4670	710 - 720	10	10	.001	0.010	.01	Tr
4671	720 - 730	10	10	.002	<0.010	.02	Tr
4672	730 - 740	10	9.6	.002	<0.010	.01	Tr
4673	740 - 750	10	9.5	.002	<0.010	.02	Tr
4674	750 - 760	10	10.	.001	<0.010	.03	Tr
4675	760 - 770	10	10.	.002	<0.010	.02	Tr
4676	770 - 780	10	10.	.001	<0.010	.03	Tr
4677	780 - 790	10	10.	.002	<0.010	.03	Tr
4678	790 - 800	10	10.	.002	<0.010	.02	0.06

LOVITT PROJECT

DDH-LV-17
(Continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4679	800 - 810	10		.002	<.001	.04	Tr
4680	810 - 820	10		.003	<.001	.03	Tr
4681	820 - 830	10		.001	<.001	.02	Tr
4682	830 - 840	10		<.001	<.001	.03	Tr
4683	840 - 850	10		<.001	<.001	.01	.06
4684	850 - 860	10		<.001	<.001	.02	.18
4685	860 - 870	10		.001	<.001	.01	Tr
4686	870 - 880	10		.002	<.001	.02	Tr
4687	880 - 890	10		.001	<.001	.02	Tr
4688	890 - 900	10		.001	<.001	.01	Tr
4689	900 - 910	10		.001	<.001	.01	Tr
4690	910 - 920	10		<.001	<.001	.01	Tr
4691	920 - 933	13		.001	<.001	.01	Tr

LOVITT PROJECT

DDH-LV-18

Sample No.	Interval	Footage	Recovery	Au oz/ton		Ag oz/ton	
				CMS	CRL	CMS	CRL
75-LV-4726	25.5-30	4.5	4.5	.004	<0.010	.03	Tr
4727	30 - 40	10	9.4	.011	<0.010	.03	Tr
4728	40 - 50	10	9.9	.011	<0.010	.03	Tr
4729	50 - 60	10	10.1	.014	0.018	.03	Tr
4730	60 - 70	10	9.1	.003	<0.010	.03	Tr
4731	70 - 80	10	10.1	.014	0.014	.04	Tr
4732	80 - 90	10	9.2	.081	<0.010	.09	0.12
4733	90 - 100	10	9.	.057	0.072	.08	0.06
4734	100 - 110	10	8.1	.126	0.154	.11	Tr
4735	110 - 120	10	9.5	.014	0.022	.05	Tr
4736	120 - 130	10	9.4	.021	0.052	.04	Tr
4737	130 - 140	10	11.1	.033	0.054	.05	Tr
4738	140 - 150	10	10.3	.011	0.022	.04	Tr
4739	150 - 160	10	10.6	.016	0.022	.06	Tr
4740	160 - 170	10	9.	.121	0.150	.10	Tr
4741	170 - 180	10	9.9	.057	0.030	.12	Tr
4742	180 - 190	10	11.4	.041	0.052	.07	Tr
4743	190 - 200	10	10.4	.017	0.010	.02	Tr
4744	200 - 210	10	9.8	.053	0.054	.10	Tr
4745	210 - 220	10	10.5	.024	0.030	.07	Tr
4746	220 - 230	10	10.5	.017	0.022	.04	Tr
4747	230 - 240	10	10.	<.001	0.012	.02	0.04
4748	240 - 250	10	10.4	.002	0.010	.04	Tr
4749	250 - 260	10	10.	.129	0.122	.11	Tr
4750	260 - 270	10	10.	.013	0.018	.05	Tr
4751	270 - 280	10	9.9	.003	0.014	.08	Tr
4752	280 - 290	10	10.	.005	0.022	.06	Tr
4753	290 - 300	10	10.5	<.001	0.016	.04	Tr
4754	300 - 310	10	9.6	.017	0.038	.05	Tr
4755	310 - 320	10	10.5	.039	0.074	.03	Tr
4756	320 - 330	10	10.1	.011	0.010	.02	Tr
4757	330 - 340	10	10.2	.045	<0.010	.03	Tr
4758	340 - 350	10	10.	.024	<0.010	.04	Tr
4759	350 - 360	10	9.9	.030	0.026	.04	Tr
4760	360 - 370	10	10.4	.029	0.050	.07	Tr
4761	370 - 380	10	9.7	.051	0.072	.03	Tr
4762	380 - 390	10	10.	.048	0.080	.03	Tr
4763	390 - 400	10	10.2	.020	0.052	.03	Tr
4764	400 - 410	10	9.5	.018	0.030	.06	Tr
4765	410 - 420	10	10.5	.008	0.010	.05	Tr

LOVITT PROJECT

DDH-LV-18
(Continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Recovery</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
				<u>CMS</u>	<u>CRL</u>	<u>CMS</u>	<u>CRL</u>
75-LV-4766	420 - 430	10	10.2	.009	0.015	.18	0.06
4767	430 - 440	10	10.	.030	<0.010	.09	Tr
4768	440 - 450	10	9.5	.030	0.022	.06	Tr
4769	450 - 460	10	9.3	.036	0.040	.05	Tr
4770	460 - 470	10	10.6	.126	0.010	.11	Tr
4771	470 - 480	10	9.8	.195	0.200	.13	0.20
4772	480 - 490	10	10.4	.009	0.010	.07	Tr
4773	490 - 500	10	10.2	.001	0.010	.03	0.02
4774	500 - 510	10	10.	.009	0.010	.02	Tr
4775	510 - 520	10	10.	.002	0.020	.07	Tr
4776	520 - 530	10	10.	<.001	0.012	.05	Tr
4777	530 - 540	10	4.7	.002	0.020	.04	Tr
4778	540 - 550	10	10.	.020	0.018	.04	Tr
4779	550 - 560	10	10.	.038	0.094	.04	Tr
4780	560 - 570	10	10.	.043	0.062	.05	Tr
4781	570 - 580	10	7.7	<.001	0.020	.06	0.02
4782	580 - 590	10	4.	.005	0.020	.13	0.10
4783	590 - 600	10	10.	.023	0.050	.04	Tr
4784	600 - 610	10	8.5	.084	0.104	.20	0.30
4785	610 - 620	10	9.6	.003	0.010	.04	Tr
4786	620 - 630	10	9.8	.001	0.010	.03	Tr
4787	630 - 640	10	6.3	.004	0.010	.05	Tr
4788	640 - 650	10	8.1	.001	<0.010	.04	Tr
4789	650 - 660	10	9.6	.004	<0.010	.05	Tr
4790	660 - 670	10	8.7	<.001	<0.010	.04	Tr
4791	670 - 680	10	10.	.002	<0.010	.05	Tr
4792	680 - 690	10	9.	.002	<0.010	.08	Tr
4793	690 - 700	10	10.	.001	<0.010	.06	Tr
4794	700 - 710	10	9.5	.004	<0.010	.10	Tr
4795	710 - 720	10	10.	.002	<0.010	.08	Tr
4796	720 - 730	10	10.	.002	<0.010	.06	Tr
4797	730 - 740	10	10.	.004	0.010	.30	0.34
4798	740 - 750	10	10.	.004	0.010	.29	Tr
4799	750 - 760	10	10.	.003	<0.010	.45	0.24
4800	760 - 771.5	11.5	11.5	.002	<0.010	.33	0.08
4801	771.5-780	8.5	7.5	.002	0.010	.03	Tr
4802	780 - 792	12	9.5	.002	0.012	.02	Tr
	792 - 800	8.	0.	No core in barrel			

2

2

APPENDIX C

SUMMARY ROTARY DRILL LOGS

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-5
TD 473'
Logged by E. A. Schmidt

Lovitt Coordinates
N 7,215.13; E 25,935.93
Collar Elevation 1947.59
Bottom Elevation 1474.59

- 0 - 100' Oxidized Arkose - coarse grained, 1 - 2% chloritic biotite, little FeOx after pyr (?).
- 100 - 120' Finer grained, light gray arkose with about 2% finely foliated red-brown biotite.
- 120 - 310' Light gray, homogeneous medium to fine grained biotite arkose, locally few pyrite grains (120-130'; 270-310') feldspars are chalky; remaining portion of interval contains no pyrite.
- 310 - 320' Black gouge chips with little pyrite; fault zone?
- 320 - 420' Light gray, more siliceous arkose with 0.5 - 1% finely disseminated pyrite; no biotite; abundant large milky-white quartz fragments, probably representing quartz vein material; few quartz fragments show fine sulfide banding.
- 420 - 473' Fine grained, gray silty arkose with about 1% finely disseminated pyrite and milky-white quartz fragments; below 460' increase in biotite arkose fragments again.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>	<u>% Cu</u>
10-320'	310'	.001	.03	tr.
320-370'	50'	.003	.04	.01
370-473'	103'	.001	.04	.02

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-6
TD 523'

Logged by E. A. Schmidt

Lovitt Coordinates

N 7,305.28; E 25,990.02

Collar Elevation 1941.16

Bottom Elevation 1418.16

- 0 - 90' Oxidized arkose, abundant chloritic biotite, rock is medium grained with rounded clear quartz grains.
- 90 - 170' Light gray arkose with red-brown biotite and little chlorite - mixed oxide - sulfide zone; finely disseminated pyrite (0.5%) coating quartz grains; majority of fragments show FeOx staining.
- 170 - 310' Light gray, medium grained arkose with fine grained red brown biotite, about 0.5% disseminated pyrite, few milky quartz fragments (vein material ?), few fragments show 1 mm fine grained pyrite veinlets.
- 310 - 360' Medium grained arkose, less biotite, some chlorite, increase in quartz fragments with calcite, locally carbonaceous chips.
- 360 - 390' Darker gray silty arkose, finely disseminated pyrite, few quartz-calcite fragments.
- 390 - 410' Light gray arkose, appears more siliceous, much less biotite, isolated coarse pyrite grains.
- 410 - 480' Silty arkose, darker gray, fine grained with chloritic biotite and some red brown biotite, finely disseminated pyrite (0.5%), few white quartz-calcite fragments.
- 480 - 490' Increase in cherty quartz and glassy quartz fragments with fine grained pyrite (up to + 2%).
- 490 - 523' Light gray siliceous arkose - trace biotite, rock is coarse grained with chalky feldspars; over 50% glassy and dark gray cherty quartz fragments with pyrite; some white quartz-calcite fragments.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>	<u>% Cu</u>
10-490'	480'	.002	.03	tr.
490-523'	33'	.24	.15	tr.

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-7
TD 325'
Logged by E. A. Schmidt

Lovitt Coordinates
N 7,099.49; E 25,975.60
Collar Elevation 1935.62
Bottom Elevation 1610.62

- 0 - 110' Oxidized arkose, bleached, medium to coarse grained, chloritic biotite, some sericite, abundant FeOx on fractures, few FeOx specks after pyr (?), white quartz fragments 70-110' few isolated pyrite grains.
- 110 - 280' Coarse arkose, fairly uniform in composition, minor red brown biotite, some chlorite, feldspar appears chalky, little disseminated pyrite, few cubic pyrite grains. Locally dark gray micaceous chips with finely disseminated pyrite.
- 280 - 290' Dark gray shale fragments or clay gouge, Fault zone (?), finely disseminated pyrite, few clear quartz grains.
- 290 - 325' Sudden increase in glassy quartz fragments (+ 40%) with little fine grained pyrite; remaining rock is medium grained chloritic arkose with some golden brown biotite; trace disseminated pyrite overall (<0.5%).

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>	<u>% Cu</u>
10-325'	315'	.003	.03	.01

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-8
TD 580'
Logged by E. A. Schmidt

Lovitt Coordinates
N 6,989.37; E 26,117.41
Collar Elevation 1932.55
Bottom Elevation 1352.55

- 0 - 120' Oxidized arkose - bleached, considerable amount of FeOx on fractures, abundant chloritic biotite, few white quartz fragments.
- 120 - 160' Mixed oxide - sulfide zone, generally light gray arkose with finely disseminated pyrite (0.5 - 1%), moderate amount of FeOx.
- 160 - 180' Arkose with clayey material, fault zone (?), little pyrite.
- 180 - 260' Light gray arkose with finer grained silty fragments, arkose contains fine grained golden brown biotite, some chlorite, little disseminated pyrite (0.5 - 1%), locally 1 - 2 mm dark gray cherty quartz veinlets with pyrite, some chips contain up to 5% pyrite.
- 260 - 280' Increase in dark gray silty fragments with finely disseminated pyrite and fine quartz veinlets.
- 280 - 330' Medium to fine grained arkose with chloritic biotite, trace disseminated pyrite in arkose, isolated silty fragments contain more pyrite (up to 5%).
- 330 - 410' Medium grained chloritic arkose with higher content in dark gray silty fragments, about 1% finely disseminated pyrite, few fragments show 1 mm pyrite veinlets.
- 410 - 450' Sudden increase in white quartz fragments and dark gray cherty quartz fragments with finely disseminated pyrite.
- 450 - 500' Finer grained chloritic arkose with 30% white quartz fragments, no biotite, rock appears more silicified, finely disseminated pyrite (0.5 - 1%)
- 500 - 580' Increase in dark gray to black silty fragments with fine grained pyrite, about 20% white quartz fragments.

LOVITT PROJECT
Chelan County, Washington

Rotary Drill Hole LV-8 (continued)

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>	<u>% Cu</u>
10-460'	450'	.002	.03	.01
460-530'	70'	.002	.14	.01
530-580'	50'	.002	.04	.01

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-10
TD 840'
Logged by E. A. Schmidt

Lovitt Coordinates
N 7,377.43; E 25,473.55
Collar Elevation 1983.71
Bottom Elevation 1143.71

0 - 840' Entire hole is in dark gray to black shale sequence; upper part (0-420') contains few fine grained silty arkose fragments with black biotite, friable, no pyrite; lower portion of hole (420-840') is in homogeneous black shale sequence, no pyrite, fragments are soft, 690-740' increase in white quartz grains, no pyrite, probably derived from unconsolidated arkose wall rock. No silicification, no mineralization in entire hole.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>	<u>% Cu</u>
40-840'	800'	.001	.02	.01

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-11
TD 840'
Logged by E. A. Schmidt

Lovitt Coordinates

N 7,398.47; E 25,552.80
Collar Elevation 1981.05
Bottom Elevation 1141.05

- 0 - 90' Oxidized arkose, bleached, chlorite, white quartz grains.
- 90 - 160' Mixed oxide-sulfide zone, light gray arkose contains trace disseminated pyrite, some golden brown biotite, locally few coarse pyrite cubes.
- 160 - 220' Light gray arkose, little chlorite and biotite, fragments contain dark gray chalcedonic quartz veinlets, trace disseminated pyrite.
- 220 - 440' Uniform, soft dark gray shale sequence, no pyrite, fragments contain abundant biotite, very friable.
- 440 - 470' Mixture of dark gray/black shale fragments and arkose, no pyrite.
- 470 - 660' Mainly dark gray to black shale sequence, no pyrite. Fragments are very soft and friable.
- 660 - 840' Mixture of dark gray shale and lighter gray arkose, friable, abundant fine grained black biotite, no pyrite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>	<u>% Cu</u>
20-90'	70'	.014	.89	.02
90-840'	750'	.002	.02	<.01

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-12
TD 107'
Logged by E. A. Schmidt

Lovitt Coordinates
N 6,517.73; E 26,561.03
Collar Elevation 1543.48
Bottom Elevation 1436.48

0 - 20' No sample

20 - 65' Oxidized, bleached arkose, dump material (?)

65 - 100' Silica-flooded arkose with milky-white quartz veinlets, moderate amount of cubic pyrite throughout.

100 - 107' Silicified arkose with jarosite staining on fractures, irregular pyrite concentrations.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>	<u>% Cu</u>
20- 40'	20'	.031		tr.
40- 70'	30'	.010	.25	tr.
70- 90'	20'	.81	2.88	tr.
90-107'	17'	.036	.29	tr.

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-12B

TD 140'

Logged by E. A. Schmidt

Lovitt Coordinates

N 6,496.02; E 26,586.74

Collar Elevation 1543.70

Bottom Elevation 1403.70

- 0 - 40' No sample
- 40 - 50' Oxidized, bleached arkose, dump material (?)
- 50 - 125' Clayey silicified arkose (?), all fragments coated with light gray clay, fair amount of pyrite concentrations.
- 125 - 140' Silicified arkose, dense, fine grained, medium gray little disseminated pyrite, some fragments coated with FeOx.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>	<u>% Cu</u>
40-50'	10'	.744	.63	tr.
50-100'	50'	.003	.03	tr.
100-140'	40'	.020	.06	tr.

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-17

TD 320'

Logged by E. A. Schmidt

Lovitt Coordinates

N 6, 198.71; E 26, 617.98

Collar Elevation 1509.27

Bottom Elevation 1189.27

- 0 - 80' Oxidized, bleached arkose (jarosite staining)
abundant sericite/muscovite after biotite (?), feldspars
kaolinized, arkose generally silicified with milky white
quartz vein fragments.
- 80 - 120' Gray silicified arkose with finely disseminated cubic pyrite,
abundant finer grained silty arkose fragments with pyrite.
- 120 - 145' Bleached, altered arkose, chalky white feldspars.
- 145 - 160' Gray silicified arkose with disseminated pyrite.
- 160 - 190' Light gray arkose with white clay material - fault zone (?)
- 190 - 320' Conglomerate, medium gray, dense, microcrystalline felsic
volcanic fragments, somewhat porphyritic, few fragments
still show rounded pebble-cobble edges, locally get very
fine grained pyrite enveloping pebbles, few arkose fragments
contain disseminated cubic pyrite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>	<u>% Cu</u>
10-30'	30'	.006	.03	tr.
30-130'	100'	.02	.05	tr.
130-320'	190'	.002	.03	tr.

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-18
TD 170'
Logged by E. A. Schmidt

Lovitt Coordinates
N 10,525.03; E 24,786.38
Collar Elevation 1048.59
Bottom Elevation 878.59

- 0 - 50' Siliceous arkose, medium gray, little FeOx on fractures, fragments are dark gray cherty material, glassy quartz veinlets, and silicified arkose; few milky-white quartz fragments.
- 50 - 140' Strongly silicified arkose, medium to dark gray, contains about 1% disseminated pyrite.
- 140 - 145' Dark gray silty arkose and soft shaly material.
- 145 - 160' Biotite-chlorite arkose, light gray, fine to medium grained, no pyrite.
- 160 - 170' Light gray arkose as above but containing some dark gray silicified fragments and oxidized silicified arkose (may be contamination from top of hole).

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
4- 50'	46'	.158	.34
50-170'	120'	.046	.18

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-19
TD 140'
Logged by E. A. Schmidt

Lovitt Coordinates
N 10,574.26; E 24,761.46
Collar Elevation 1051.37
Bottom Elevation 911.37

- 0 - 10' No sample, overburden
- 10 - 60' Oxidized and silicified arkose, medium gray; abundant dark gray glassy quartz fragments.
- 60 - 100' Silicified arkose, dark gray, trace disseminated pyrite. Entire rock silicified, no real quartz vein material.
- 100 - 140' Friable, light gray biotite arkose, little muscovite, no pyrite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
2-100'	98'	.197	.46
100-140'	40'	.003	.03

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-20
TD 324'
Logged by E. A. Schmidt

Lovitt Coordinates
N 10,283.95; E 25,030.74
Collar Elevation 1123.45
Bottom Elevation 799.45

- 0 - 20' Overburden; arkose sand, oxidized.
- 20 - 100' Silty arkose; dark to medium gray, abundant fine grained friable silt fragments and biotite arkose fragments.
- 100 - 120' Siltstone - dark gray, friable, fine grained.
- 120 - 150' Silty arkose.
- 150 - 195' Conglomerate - dark gray siliceous volcanic fragments with some arkose.
- 195 - 300' Silty arkose - dark gray, soft, friable, abundant silt and fine grained biotite arkose fragments.
- 300 - 324' Light greenish gray volcanic rock - perlite ?
Siliceous fragments contain isolated black biotite flakes (<0.5%), clear quartz phenocrysts, set in microcrystalline greenish gray siliceous matrix, fragments have vitreous aspect, definitely no arkose, no pyrite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
2-110'	108'	<.001	.02
110-150'	40'	.020	.04
150-240'	90'	.003	.04
240-290'	50'	.015	.08
290-324'	34'	.003	.05

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-21
TD 68'
Logged by E. A. Schmidt

Lovitt Coordinates
N 10,289.31; E 24,831.41
Collar Elevation 1134.76
Bottom Elevation 1066.76

0 - 68' Overburden - mixture of black basalt, arkosic sand and clay;
hole was lost in very loose sand, entire hole averages 0.002 oz/t
Au.

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-22
TD 250'
Logged by E. A. Schmidt

Lovitt Coordinates
N 10,285.81; E 24,878.59
Collar Elevation 1134.04
Bottom Elevation 884.04

- 0 - 110' No sample - overburden ?
- 110 - 165' Silicified arkose, dark gray, fine grained, few white cherty quartz veinlets (2-3 mm), little disseminated pyrite.
- 165 - 175' Siltstone - dark gray, friable, fine grained.
- 175 - 250' Silicified arkose - dark gray, fine grained, considerable amount of fine grained pyrite on fractures, hole dropped into underground workings.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
110-140'	30'	.163	.29
140-250'	110'	.057	.12

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-23
TD 365'
Logged by E. A. Schmidt

Lovitt Coordinates
N 10,282.84; E 24,930.37
Collar Elevation 1131.58
Bottom Elevation 766.58

- 0 - 90' No sample - overburden ?
- 90 - 145' Silty arkose - medium gray, little pyrite on fractures locally.
- 145 - 360' More siliceous arkose - fragments are dense, dark gray, chloritic arkose, minor pyrite.
Below 270' rock becomes more siliceous and darker gray; abundant pyrite between 330-360'.
- 360 - 365' Mixture of silicified arkose and yellow-gray arkose fragments.
No pyrite; yellow gray fragments consist of gray quartz surrounded by quartz-sericite (?) - rock flour matrix.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
90-220'	130'	.045	.13
220-365'	145'	.033	.12

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-24
TD 505'
Logged by E. A. Schmidt

Lovitt Coordinates
N 9,652.95; E 25,234.23
Collar Elevation 1288.52
Bottom Elevation 783.52

- 0 - 60' Overburden; mixture of basalt, arkose and siliceous volcanic fragments.
- 60 - 135' Siltstone, dark gray with some arkose fragments.
- 135 - 150' Arkose, light gray, little biotite, no pyrite.
- 150 - 200' Siltstone, dark gray with few arkose fragments.
- 200 - 505' Probably contaminated samples - mixture of various rock fragments; basalt, rounded felsic volcanic fragments, arkose, quartz, oxidized rock fragments. Portion of this sequence may be conglomerate unit.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
0-505'	505'	.002	.03

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-25
TD 445'
Logged by E. A. Schmidt

Lovitt Coordinates
N 9,619.70; E 25,133.10
Collar Elevation 1277.31
Bottom Elevation 832.31

- 0 - 100' Overburden - predominately black basalt fragments with some arkosic sand.
- 100 - 140' Arkose - light gray, friable, somewhat contaminated by overlying overburden; light gray clay horizon @ 130-140'.
- 140 - 160' Contaminated interval of arkose and basalt.
- 160 - 200' Arkose - light gray, few basalt fragments.
- 200 - 220' Contaminated interval of arkose and basalt.
- 220 - 345' Arkose - light gray, fairly homogeneous, few shale horizons.
- 345 - 445' Fine grained sand, probably derived from very friable and soft arkose.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
0-445'	445'	.001	.03

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-26
TD 325'
Logged by E. A. Schmidt

Lovitt Coordinates
N 9,590.14; E 25,035.05
Collar Elevation 1273.67
Bottom Elevation 948.67

- 0 - 40' Overburden - predominately arkosic sand and basalt cobbles and boulders.
- 40 - 325' Conglomerate - light gray pebbles of felsic volcanic rocks (rhyolite, latite), some are porphyritic, few gneiss and granite fragments, locally very coarse red-brown biotite in gneiss pebbles; some arkose fragments near bottom of hole; no pyrite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
10-325'	315'	.001	.02

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-27
TD 505'
Logged by E. A. Schmidt

Lovitt Coordinates
N 9,555.33; E 24,934.74
Collar Elevation 1271.62
Bottom Elevation 766.62

- 0 - 80' Overburden - arkosic sand, basalt cobbles and boulders.
- 80 - 300' Fairly homogeneous interval of arkose - abundant clear quartz fragments, no siltstone, no pyrite; arkose appears coarse, friable; all mineral fragments are easily liberated.
- 300 - 350' Increasing amount of dark gray siltstone fragments in arkose sequence; no pyrite.
- 350 - 505' Hornblende latite dike or sill - very similar in appearance to rock exposed and cored at "C" reef. No pyrite; sample contaminated by \pm 15% arkosic material.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
0-420'	420'	.001	.02
420-505'	85'	.002	.02

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-28
TD 60'
Logged by E. A. Schmidt

Lovitt Coordinates
N 9,598.89; E 25,084.41
Collar Elevation 1273.50
Bottom Elevation 1213.50

- 0 - 20' No sample.
- 20 - 60' Overburden - mainly arkosic sand with some clay material;
40' interval averages .001 oz/t Au, and .01 oz/t Ag.

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-29
TD 505'
Logged by E. A. Schmidt

Lovitt Coordinates
N 8,671.45; E 25,445.10
Collar Elevation 1497.68
Bottom Elevation 992.68

- | | |
|------------|---|
| 0 - 40' | Overburden - light gray arkosic fragments, little oxidized, few quartz grains. |
| 40 - 160' | Silty arkose - dark gray, fine grained, soft, somewhat clayey, fragments contain abundant fine grained black mica, no pyrite. |
| 160 - 180' | Light gray arkose - few dark gray silty arkose fragments, no pyrite. |
| 180 - 230' | Silty arkose - dark gray, no pyrite. |
| 230 - 240' | Slickensided black shale fragments, fault (?) |
| 240 - 350' | Light gray arkose - few darker gray, friable silty arkose fragments, arkose contains fair amount fine grained biotite, no pyrite. |
| 350 - 370' | Silty arkose - dark gray, soft, friable, fine grained, no pyrite. |
| 370 - 400' | Black shale - slickensided, fault zone (?), no pyrite. |
| 400 - 505' | Predominantly dark gray silty arkose, soft, crumbly, with few light gray arkose fragments, no pyrite. |

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
0-505'	505'	.002	.02

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-30
TD 825'
Logged by E. A. Schmidt

Lovitt Coordinates
N 8,701.55; E 25,534.47
Collar Elevation 1480.36
Bottom Elevation 655.36

- 0 - 20' Overburden
- 20 - 40' Silty arkose - dark gray with fine grained biotite, no pyrite.
- 40 - 130' Light gray arkose - coarse, some chloritic biotite, few soft dark gray silty arkose fragments, no pyrite.
- 130 - 290' Dark gray silty arkose - soft, friable, no pyrite, few coarse light gray arkose fragments.
150-180' black, slickensided shaly material, fault (?).
- 290 - 350' Light gray coarse arkose - friable, with fine grained biotite, abundant clear quartz grains, no pyrite.
- 350 - 450' Black shale unit - locally (380-400') extensively slickensided, fault zone (?), some cubic pyrite in fault.
- 450 - 630' Light gray arkose - medium to fine grained, few dark gray silty arkose fragments, appears to be laminated arkose - siltstone sequence.
- 630 - 680' Dark gray silty arkose - soft, fine grained, shaly portions are slickensided.
- 680 - 825' Light gray arkose - few slickensided black shale fragments and laminated silty arkose grains; unit becomes cleaner toward bottom of hole with less shale and more quartz grains, no pyrite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-150'	130'	.001	.02
150-370'	220'	.003	.02
370-825'	455'	.004	.03

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-31
TD 500'
Logged by E. A. Schmidt

Lovitt Coordinates
N 8,732.19; E 25,634.63
Collar Elevation 1491.07
Bottom Elevation 991.07

- 0 - 20' Overburden
- 20 - 40' Silty arkose - dark gray, clayey, becomes more shaly between 30-40' with some cubic pyrite.
- 40 - 260' Conglomerate - light bluish gray, very dense felsic volcanic fragments, somewhat porphyritic in places, also few gneiss fragments, a number of chips show rounded edges (pebbles or cobbles), matrix is arkosic, fine grained pyrite occurs locally in volcanic fragments and as coatings on pebble fragments.
- 260 - 330' Black shale - soft, slickensided, fault zone (?), silty arkose portion between 310-320'.
- 330 - 390' Coarse arkose - light gray, mainly clear quartz grains with arkose fragments and some friable, silty material, no pyrite.
- 390 - 420' Black shale - similar to above.
- 420 - 450' Mixture of coarse arkose and dark gray siltstone.
- 450 - 500' Arkose - medium to coarse grained, friable, contains fine grained biotite, some chlorite, no pyrite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-260'	240'	.001	.02
260-500'	240'	.001	.02

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-32
TD 525'
Logged by E. A. Schmidt

Lovitt Coordinates
N 8,180.66; E 25,819.72
Collar Elevation 1667.26
Bottom Elevation 1142.26

- 0 - 80' Oxidized arkose - yellow brown FeOx staining (mixture of jarosite and goethite) on quartz grains.
- 80 - 365' Arkose, light gray, medium grained, 1-3% fine grained golden brown biotite; chalky feldspars, some large silty arkose fragments with faint biotite lamination, trace disseminated pyrite (fine grained brassy cubes).
- 365 - 525' Predominately silty arkose - darker gray, fragments contain finely laminated biotite and trace cubic pyrite; pyrite occurs as individual grains or as clusters of cubic grains.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-250'	230'	.007	.03
250-525'	275'	.003	.02

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-33
TD 725'
Logged by E. A. Schmidt

Lovitt Coordinates
N 7,672.56; E 26,076.92
Collar Elevation 1862.74
Bottom Elevation 1137.74

0 - 90'	Silty arkose - brownish gray, friable, somewhat oxidized.
90 - 290'	Biotite arkose - light gray, fine grained, few darker gray glassy quartz fragments (vein material ?), trace pyrite.
290 - 520'	Bleached arkose with higher amount of glassy quartz fragments and pyrite, biotite essentially chloritized especially below 400'.
520 - 620'	Light gray, soft, clayey arkose, fair amount of fine grained pyrite, less gray quartz fragments.
620 - 650'	Dark gray to black shale sequence - fault zone (?), no pyrite.
650 - 670'	Mixture of dark gray shale and friable arkose, trace pyrite.
670 - 700'	Light gray, clean friable arkose, trace pyrite.
700 - 710'	Black shale - fault zone (?).
710 - 725'	Arkose - shale mixture, no pyrite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-150'	130'	.003	.04
150-540'	390'	.014	.05
540-725'	185'	.006	.04

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-34
TD 725'
Logged by E. A. Schmidt

Lovitt Coordinates
N 7,848.26; E 26,150.05
Collar Elevation 1856.98
Bottom Elevation 1131.98

- 0 - 50' Oxidized arkose - slightly silicified, few quartz fragments.
- 50 - 90' Bleached arkose - light gray, little disseminated pyrite.
- 90 - 140' Silty arkose - dark gray, friable, clayey, little pyrite, few glassy quartz fragments.
- 140 - 210' Clayey arkose - light gray to white, host rock probably fine grained silty arkose, few larger pieces contain red brown biotite, fair amount of faulting indicated.
- 210 - 250' Biotite arkose - light gray, medium grained, friable few dark gray, fine grained quartz fragments with pyrite (210-230').
- 250 - 440' Bleached arkose - friable, medium grained, biotite altered to chlorite and sericite, fair amount of white clay, little disseminated pyrite, between 290-310' dark gray glassy quartz fragments.
- 440 - 550' Slightly silicified arkose - light gray, biotite altered to chlorite, little sericite, considerable amount of gray glassy quartz fragments, little pyrite.
- 550 - 590' Silty arkose - dark gray, fine grained, about 2-5% finely disseminated pyrite, few glassy quartz fragments.
- 590 - 685' Black shale - fault zone with some silty arkose blocks, no pyrite.
- 685 - 700' Arkose - light gray, friable, no pyrite.
- 700 - 725' Siltstone - dark gray, fine grained, no pyrite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20- 90'	70'	.02	.02
90-420'	330'	.004	.03
420-570'	150'	.025	.08
570-725'	155'	.005	.04

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-35
TD 505'
Logged by E. A. Schmidt

Lovitt Coordinates
N 8,314.32; E 25,876.35
Collar Elevation 1654.45
Bottom Elevation 1149.45

- 0 - 50' Oxidized arkose.
- 50 - 140' Light gray arkose - medium grained, about 1% biotite, chalky feldspars.
- 140 - 260' Silty arkose - darker gray, fine grained, fragments contain finely laminated biotite, fair amount of white clay.
- 260 - 350' Black shale - slickensided, fault zone (?), few quartz grains.
- 350 - 420' Mixture of shale fragments and quartz grains.
- 420 - 495' Arkosic sand - grains are easily liberated, rock appears very friable.
- 495 - 505' Black shale - slickensided, fault zone (?).

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-505'	485'	.002	.05

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-36

TD 500'

Logged by E. A. Schmidt

Lovitt Coordinates

N 8,351.77; E 25,910.34

Collar Elevation 1648.87

Bottom Elevation 1148.87

- 0 - 50' Oxidized arkose sand.
- 50 - 70' Biotite arkose - light gray, trace cubic pyrite.
- 70 - 210' Arkose - light gray, considerable amount of white clay material enveloping fragments, little biotite, trace disseminated pyrite.
- 210 - 230' Clay material - light gray to white with clear quartz grains.
- 230 - 330' Silty arkose - medium gray, contains few black shale fragments.
- 330 - 375' Nearly pure arkosic sand.
- 375 - 500' Silty arkose - darker gray with clear quartz fragments (sample may be contaminated), fair amount of dark gray clay material.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-400'	380'	.002	.03
400-500'	100'	.006	.05

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-37
TD 370'
Logged by E. A. Schmidt

Lovitt Coordinates
N 8,746.39; E 25,688.36
Collar Elevation 1501.82
Bottom Elevation 1131.82

0 - 20'	Overburden
20 - 30'	Silty arkose - dark gray, friable.
30 - 135'	Light gray arkose - friable, fine grained laminated biotite.
135 - 318'	Conglomerate - light bluish gray, dense, felsic volcanic fragments, some are porphyritic, few gneiss fragments, trace amount pyrite locally in arkosic matrix material.
318 - 340'	Silty arkose - soft, dark gray.
340 - 350'	Arkose - light gray with fine grained biotite.
350 - 360'	Black shale and silty arkose interval.
360 - 370'	Biotite arkose

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-370'	350'	.002	.02

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-38
TD 430'
Logged by E. A. Schmidt

Lovitt Coordinates
N 8,774.14; E 25,728.67
Collar Elevation 1503.07
Bottom Elevation 1073.07

- 0 - 30' Overburden - clayey sand.
- 30 - 165' Light gray arkose - salt/pepper texture, 3-5% fine grained biotite, soft.
- 165 - 200' Silty arkose - mainly dark gray silty fragments, soft with some light gray arkose (similar in appearance to above) - few isolated cubic pyrite grains.
- 200 - 220' White clayey gouge (?) with fine grained arkose.
- 220 - 250' Arkose - soft, friable, fine grained - salt/pepper texture, 5-8% fine grained black biotite.
- 250 - 350' Conglomerate - mainly dense, bluish gray felsic volcanic fragments, locally porphyritic, few arkose and gneiss fragments, some muscovite flakes.
- 350 - 395' Dark gray siltstone, soft.
- 395 - 430' Light gray, friable arkose, coarse, some chlorite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-430'	410'	.001	.03

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-39
TD 410'
Logged by E. A. Schmidt

Lovitt Coordinates
N 8,687.73; E 25,769.90
Collar Elevation 1522.46
Bottom Elevation 1112.46

- 0 - 30' Overburden - arkosic sand.
- 30 - 140' Arkose - light gray, fine to medium grained, friable, with white silty matrix; some dark brown biotite, no pyrite.
- 140 - 170' Shale - dark gray with clay, micaceous, no pyrite.
- 170 - 225' Silty arkose - light gray, clayey with about 1% biotite, no pyrite.
- 225 - 355' Conglomerate - light bluish gray, dense, felsic volcanic fragments, locally porphyritic; few granite fragments; conglomerate appears to have arkosic matrix; trace pyrite in fractures and surrounding individual pebbles.
- 355 - 370' Shale - dark gray.
- 370 - 400' Arkose - light gray, friable, no pyrite.
- 400 - 410' Shale - dark gray, very fine grained.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-410'	390'	.002	.03

LOVITT PROJECT
Chealn County, Washington

SUMMARY LOG
Rotary Drill Hole LV-40
TD 310'
Logged by E. A. Schmidt

Lovitt Coordinates
N 9, 114.77; E 25, 564.02
Collar Elevation 1484.44
Bottom Elevation 1174.44

0 - 30'	No sample.
30 - 60'	Overburden - rhyolite and sand.
60 - 80'	Arkosic sand.
80 - 125'	Silty arkose - fine grained, dark gray, friable, biotite-rich.
125 - 245'	Conglomerate - various felsic volcanic and hypabyssal fragments, porphyritic, few biotite gneiss grains; locally trace pyrite coating fractures.
245 - 310'	Siltstone - dark gray, friable, soft, fine grained, about 5% fine grained black biotite in siltstone, no pyrite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-310'	290'	.002	.02

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-41
TD 230'
Logged by E. A. Schmidt

Lovitt Coordinates
N 9,378.17; E 25,550.66
Collar Elevation 1459.42
Bottom Elevation 1229.42

- 0 - 20' No sample.
- 20 - 60' Overburden - mainly rhyolite fragments with clay; becoming more clay-rich toward bottom.
- 60 - 85' Silty arkose - dark gray, friable, sample very sandy, no pyrite.
- 85 - 230' Conglomerate - assortment of rounded felsic volcanic fragments, locally porphyritic, few biotite gneiss and arkose fragments.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-230'	210'	.001	.02

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-42
TD 510'
Logged by E. A. Schmidt

Lovitt Coordinates
N 9,682.53; E 25,328.37
Collar Elevation 1302.31
Bottom Elevation 792.31

- 0 - 30' Overburden - rhyolite fragments and arkosic sand.
- 30 - 150' Shale - dark gray to black, some slickensiding, probably some faulting in this interval; hit much water at 155'. No pyrite.
- 150 - 510' Arkose - medium to coarse, light gray, fairly clean sample with predominantly clear quartz grains; few dark gray shale fragments at 220' and intermittently at 270-280'; 290-320'; 370-430'; 460-470'; no pyrite.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-510'	490'	.002	.03

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-44
TD 170'
Logged by E. A. Schmidt

Lovitt Coordinates
N 10,601.62; E 24,751.81
Collar Elevation 1049.05
Bottom Elevation 879.05

- 0 - 20' No sample.
- 20 - 40' Dump material (?) - variety of felsic volcanic rocks with some oxidized and silicified arkose.
- 40 - 85' Siliceous arkose - dark gray, dense, fine grained, .5-1% disseminated pyrite.
- 85 - 170' Biotite arkose - light gray, friable, medium to fine grained, no pyrite; few dark gray shale fragments at 160-170'.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-40'	20'	.03	.08
40-90'	50'	.234	.47
90-170'	80'	.006	.03

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-45
TD 310'

Logged by E. A. Schmidt

Lovitt Coordinates

N 10,767.7; E 24,679.2

Collar Elevation 1046.80

Bottom Elevation 736.80

- 0 - 125' Overburden and dump material - mixture of rhyolite, basalt, quartz and arkose fragments:
100-110' No sample
110-125' Black basalt
- 125 - 150' Clayey arkose - probably represents weathering horizons, no pyrite.
- 150 - 190' Arkose - light gray, friable, appears argillized; locally trace pyrite with quartz fragments.
- 190 - 200' Contaminated sample - arkose with basalt.
- 200 - 310' Arkose - light gray, friable, up to 5% chloritic biotite, medium grained, no pyrite.

Assay Summary

<u>Interval*</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-310'	290'	.003	.03

*Intermittent assay intervals.

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-46

TD 350'

Logged by E. A. Schmidt

Lovitt Coordinates

N 10,765.5; E 24,780

Collar Elevation 1050'

Bottom Elevation 700'

- 0 - 110' Overburden and dump material - mixture of rhyolite, arkose and few basalt fragments.
- 110 - 145' Arkose - gray with some silty material, no pyrite.
- 145 - 275' Siltstone/shale - dark gray, fine grained, sample somewhat contaminated by oxidized rhyolite from surface.
- 275 - 310' Perlite - crumbly, dark greenish gray.
- 310 - 350' Rhyolite - light pinkish gray, dense, faint flow banding present, contains fine grained black biotite and glassy quartz grains.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-110'	90'	.008	.04
110-280'	170'	.012	.05

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG

Rotary Drill Hole LV-47

TD 250'

Logged by E. A. Schmidt

Lovitt Coordinates

N 10,677; E 24,876

Collar Elevation 1060'

Bottom Elevation 810'

- 0 - 20' No sample.
- 20 - 50' Oxidized and bleached arkose with cherty quartz and few rhyolite fragments (probably contamination from surface).
- 50 - 125' Dark gray to black silicified fragments - no definite sedimentary texture visible - may be conglomerate unit, trace pyrite coating fractures; some black clay gouge (?) seams.
- 125 - 170' Silty arkose - dark gray, fine grained, friable.
- 170 - 200' Clay gouge (?) - no rock fragments recovered, just gougry material.
- 200 - 235' Perlite - dark greenish gray.
- 235 - 250' Rhyolite - light pinkish gray, dense, faint flow banding.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-125'	105'	.024	.05
125-200'	75'	.003	.03
200-250'	50'	.002	.01

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-48
TD 170'
Logged by E. A. Schmidt

Lovitt Coordinates
N 10,598; E 24,984
Collar Elevation 1060'
Bottom Elevation 890'

- 0 - 20' No sample.
- 20 - 70' Conglomerate - rounded light gray felsic volcanic fragments, dense, some clayey material; trace pyrite; no fractures.
- 70 - 85' Clay zone - greenish gray.
- 85 - 110' Perlite - greenish gray.
- 110 - 170' Rhyolite - light pinkish gray, dense, flow banded 1 mm glassy quartz phenocrysts.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-50'	30'	.01	.02
50-85'	35'	.004	.02
85-170'	85'	.001	.02

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-49
TD 230'
Logged by E. A. Schmidt

Lovitt Coordinates
N 10,655; E 24,930
Collar Elevation 1060'
Bottom Elevation 830'

- 0 - 20' No sample.
- 20 - 100' Conglomerate - dark gray felsic volcanic fragments, locally somewhat porphyritic; fragments show rounded pebble margins; trace pyrite on fractures locally.
- 100 - 140' Siltstone - dark gray to black, somewhat clayey, some shearing toward bottom.
- 140 - 165' Perlite - greenish gray, glassy.
- 165 - 230' Rhyolite - light pinkish gray, dense, flow banded, few 1 mm clear quartz grains.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-120'	100'	.007	.02
120-230'	110'	.001	.03

LOVITT PROJECT
Chelan County, Washington

SUMMARY LOG
Rotary Drill Hole LV-50
TD 190'
Logged by E. A. Schmidt

Lovitt Coordinates
N 10,677; E 24,926
Collar Elevation 1060'
Bottom Elevation 870'

- 0 - 20' No sample.
- 20 - 60' Dump material - oxidized and silicified arkose with dark gray cherty quartz.
- 60 - 80' Clayey material - dark gray to black with some felsic volcanic fragments.
- 80 - 110' Conglomerate - dark gray felsic volcanic fragments, somewhat porphyritic locally, few fragments show rounded pebble margins.
- 110 - 125' Clay zone - greenish gray with siltstone fragments; shear (?)
- 125 - 155' Perlite
- 155 - 190' Rhyolite - light gray, dense, flow banded.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
20-110'	90'	.005	.05
110-190'	80'	.001	.03

LOVITT PROJECT
Chelan County, Washington

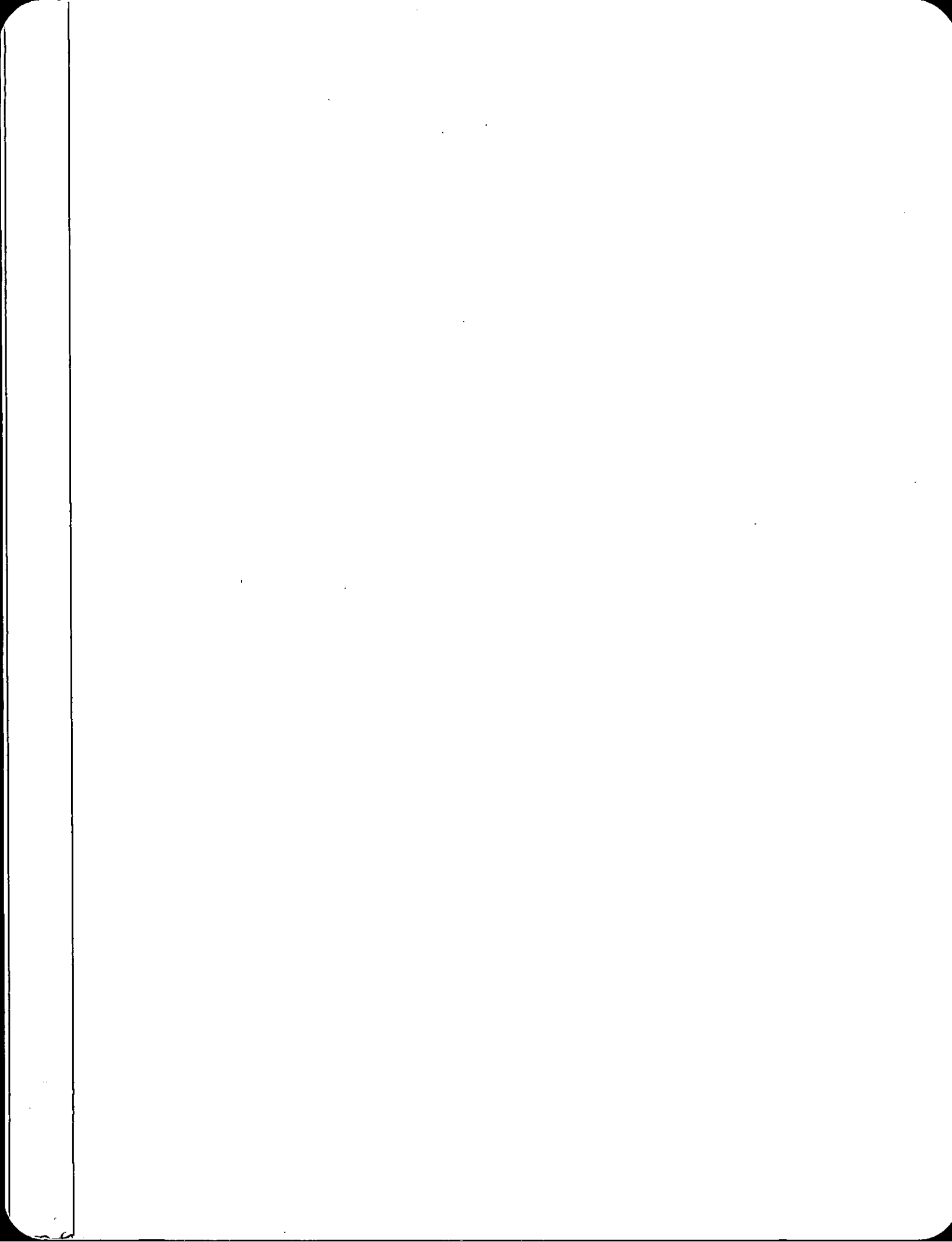
SUMMARY LOG
Rotary Drill Hole LV-51
TD 150'
Logged by E. A. Schmidt

Lovitt Coordinates
N 10,675; E 24,981
Collar Elevation 1060'
Bottom Elevation 910'

- 0 - 10' No sample.
- 10 - 60' Overburden (?) - mixture of rhyolite, oxidized arkose; material could be old fill.
- 60 - 95' Perlite - greenish gray; between 70-80' get some rounded volcanic pebble fragments; hole may have just missed conglomerate horizon.
- 95 - 150' Rhyolite - light gray, dense, flow banded.

Assay Summary

<u>Interval</u>	<u>Footage</u>	<u>Oz/T Au</u>	<u>Oz/T Ag</u>
10-60'	50'	.007	.04
60-150'	90'	.001	.03



APPENDIX D

ROTARY DRILL ASSAYS

LOVITT MINE

Hole 75-LV-5

Sample No.	Interval	Footage	Ag oz/ton		Au oz/ton		Cu %	
			CMS	Union	CMS	Union	CMS	Union
75-LV-372	10 - 20	10	.03	none	.001	none	.006	none
373	20 - 30	10	.02	none	.001	none	.005	0.006
374	30 - 40	10		none		none		0.006
375	40 - 50	10	.02	0.1	.002	trace	.008	none
376	50 - 60	10	.03	none	.001	none	.006	0.006
377	60 - 70	10	.03	none	.001	none	.009	none
378	70 - 80	10	.02	none	.001	none	.008	none
379	80 - 90	10	.02	none	.001	none	.005	none
380	90 - 100	10	.03	0.1	.001	none	.006	none
381	100 - 110	10	.04	0.5	.001	none	.004	none
382	110 - 120	10	.04	0.1	.001	none	.005	none
383	120 - 130	10	.04	0.2	.001	trace	.007	0.006
384	130 - 140	10	.02	none	.002	none	.005	none
385	140 - 150	10	.04	0.5	.001	none	.009	0.006
386	150 - 160	10	.02	none	.001	none	.035	0.025
387	160 - 170	10	.04	0.1	.001	none	.014	none
388	170 - 180	10	.02	0.2	.001	none	.009	0.006
389	180 - 190	10	.03	0.2	.001	none	.008	none
390	190 - 200	10	.03	none	.001	none	.008	0.006
391	200 - 210	10	.04	none	.001	none	.006	none
392	210 - 220	10	.03	none	.001	none	.007	none
393	220 - 230	10	.02	0.1	.002	none	.008	0.006
394	230 - 240	10	.02	none	.001	none	.007	none
395	240 - 250	10	.04	none	.001	none	.004	none
396	250 - 260	10	.02	none	.001	none	.006	0.006
397	260 - 270	10	.03	0.1	.001	none	.006	0.006
398	270 - 280	10	.03	none	.001	none	.005	none
399	280 - 290	10	.03	none	.001	none	.004	0.012
400	290 - 300	10	.02	0.2	.001	none	.007	none
401	300 - 310	10	.02	none	.001	none	.007	none
402	310 - 320	10	.04	0.1	.001	none	.007	0.006
403	320 - 330	10	.02	0.1	.002	trace	.009	0.006
404	330 - 340	10	.03	none	.002	trace	.009	0.006
405	340 - 350	10	.03	0.1	.005	none	.012	none
406	350 - 360	10	.07	none	.006	trace	.013	0.006
407	360 - 370	10	.04	none	.005	trace	.011	0.012
408	370 - 380	10	.03	none	.001	trace	.013	none
409	380 - 390	10	.04	0.1	.001	trace	.010	0.006
410	390 - 400	10	.04	none	.001	trace	.013	0.006

LOVITT MINE

Hole 75-LV-5
(continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Ag oz/ton</u>		<u>Au oz/ton</u>		<u>Cu %</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-411	400 - 410	10	.03	0.2	.003	0.010	.011	none
412	410 - 420	10	.03	none	.002	trace	.009	0.006
413	420 - 430	10	.04	none	.001	trace	.018	0.012
414	430 - 440	10	.04	none	.001	trace	.018	0.006
415	440 - 450	10	.04	0.6	.001	trace	.028	0.018
416	450 - 460	10	.05	none	.001	trace	.025	0.018
417	460 - 470	10	.04	none	.002	trace	.024	0.012
418	470 - 473	3	.04	none	.002	trace	.026	0.018

LOVITT MINE

Hole 75-LV-6

Sample No.	Interval	Footage	Ag oz/ton		Au oz/ton		Cu %	
			CMS	Union	CMS	Union	CMS	Union
75-LV-419	10 - 20	10	.04	none	.002	trace	.007	none
420	20 - 30	10	.04	none	.001	trace	.006	none
421	30 - 40	10	.03	0.1	.001	trace	.007	none
422	40 - 50	10	.02	none	.001	trace	.003	0.006
423	50 - 60	10	.02	none	.001	trace	.002	none
424	60 - 70	10	.05	none	.001	trace	.004	0.006
425	70 - 80	10	.03	none	.002	trace	.004	none
426	80 - 90	10	.04	none	.001	trace	.003	none
427	90 - 100	10	.04	0.1	.003	trace	.003	none
428	100 - 110	10	.03	0.1	.001	trace	.004	none
429	110 - 120	10	.04	none	<.001	trace	.002	0.006
430	120 - 130	10	.03	0.1	.002	trace	.002	none
431	130 - 140	10	.03	none	.004	0.015	.004	none
432	140 - 150	10	.03	0.6	.007	0.016	.004	none
433	150 - 160	10	.04	none	.003	trace	.003	0.006
434	160 - 170	10	.02	0.3	.002	0.005	.002	none
435	170 - 180	10	.04	none	.001	0.010	.004	0.006
436	180 - 190	10	.03	none	.001	trace	.004	none
437	190 - 200	10	.04	0.2	<.001	trace	.004	none
438	200 - 210	10	.03	0.2	<.001	trace	.003	none
439	210 - 220	10	.02	none	.001	trace	.002	none
440	220 - 230	10	.04	none	.001	trace	.002	none
441	230 - 240	10	.04	none	.005	0.010	.004	none
442	240 - 250	10	.02	none	.002	trace	.002	none
443	250 - 260	10	.04	none	<.001	trace	.004	none
444	260 - 270	10	.03	none	.004	trace	.002	none
445	270 - 280	10	.04	none	.006	trace	.004	none
446	280 - 290	10	.05	none	.002	trace	.002	none
447	290 - 300	10	.04	none	<.001	none	.002	none
448	300 - 310	10	.04	none	.002	none	.003	none
449	310 - 320	10	.04	none	.002	trace	.003	none
450	320 - 330	10	.02	0.2	.004	trace	.002	none
451	330 - 340	10	.02	none	.002	trace	.004	none
452	340 - 350	10	.03	none	.002	trace	.002	none
453	350 - 360	10	.03	0.1	.002	trace	.004	none
454	360 - 370	10	.03	none	.005	trace	.002	none
455	370 - 380	10	.04	none	.003	trace	.003	none

LOVITT MINE

Hole 75-LV-6

Sample No.	Interval	Footage	Ag oz/ton		Au oz/ton		Cu %	
			CMS	Union	CMS	Union	CMS	Union
75-LV-456	380 - 390	10	.03	none	.002	trace	.002	none
458A	390 - 400	10	.07	none	.001	trace	.003	none
458B	400 - 410	10	.04	0.2	<.001	trace	.003	none
459	410 - 420	10	.03	none	.002	trace	.005	none
460	420 - 430	10	.03	none	<.001	trace	.003	none
461	430 - 440	10	.02	none	.004	trace	.007	none
462	440 - 450	10	.03	none	.004	trace	.005	none
463	450 - 460	10	.03	none	.003	trace	.004	none
464	460 - 470	10	.02	0.1	.002	trace	.002	none
465	470 - 480	10	.03	none	.003	trace	.004	none
466	480 - 490	10	.04	0.7	.001	trace	.004	none
467	490 - 500	10	.08	0.5	.054	0.410	.004	none
468	500 - 510	10	.33	0.3	.579	0.365	.002	0.006
469	510 - 520	10	.07	none	.075	0.065	.002	none
470	520 - 523	3	.04	none	.036	0.035	.004	none

Sample No.	Interval	Footage	Au oz/ton (Denver) (SLC)				Ag oz/ton (Denver) (SLC)			Cu ppm (Denver) (SLC)	
			CMS	Skyline	RMGC	Union	CMS	Skyline	RMGC	Skyline	RMGC
75-LV-466	480 - 490	10		0.006	0		<0.01	0	20	20	
467	490 - 500	10	0.060	0.078	0.044	0.420	0.06	<0.01	.06	10	15
468	500 - 510	10	0.62	0.56	0.335		0.30	0.08	.20	5	15
469	510 - 520	10	0.074	0.25	0.140		0.05	<0.01	.03	10	15
470	520 - 523	3	0.038	0.042	0.044		0.05	<0.01	.03	20	25

LOVITT MINE

Hole 75-LV-7

Sample No.	Interval	Footage	Ag oz/ton		Au oz/ton		Cu %	
			CMS	Union	CMS	Union	CMS	Union
75-LV-340	10 - 20	10	.02	none	.004	trace	.015	0.012
341	20 - 30	10	.03	none	.001	trace	.014	0.006
342	30 - 40	10	.01	0.1	.002	trace	.006	0.006
343	40 - 50	10	.01	none	.002	trace	.014	0.012
344	50 - 60	10	.02	none	.003	trace	.012	0.006
345	60 - 70	10	.02	0.1	.001	trace	.010	none
346	70 - 80	10	.02	none	.001	0.005	.014	0.006
347	80 - 90	10	.04	0.4	.004	0.005	.018	0.012
348	90 - 100	10	.02	none	.002	trace	.014	0.006
349	100 - 110	10	.03	0.3	.003	0.005	.012	0.012
350	110 - 120	10	.03	none	.002	0.005	.012	none
351	120 - 130	10	.02	0.1	.001	0.005	.011	0.012
352	130 - 140	10	.02	0.1	.001	0.005	.012	0.006
353	140 - 150	10	.03	0.2	.001	trace	.012	0.006
354	150 - 160	10	.02	0.1	.001	trace	.012	0.006
355	160 - 170	10	.03	0.2	.001	trace	.011	0.006
356	170 - 180	10	.03	0.2	.002	0.010	.009	0.006
357	180 - 190	10	.02	0.2	.001	0.010	.018	0.012
358	190 - 200	10	.01	0.1	.002	trace	.014	0.012
359	200 - 210	10	.02	none	.001	trace	.008	none
360	210 - 220	10	.05	0.1	.009	0.010	.011	0.012
361	220 - 230	10	.03	0.1	.014	0.010	.008	0.006
362	230 - 240	10	.03	0.1	.007	0.010	.004	none
363	240 - 250	10	.02	0.1	.001	trace	.007	0.006
364	250 - 260	10	.03	none	.001	trace	.007	0.006
365	260 - 270	10	.02	none	.001	trace	.007	none
366	270 - 280	10	.02	0.1	.004	trace	.008	0.006
367	280 - 290	10	.03	none	.002	trace	.012	0.012
368	290 - 300	10	.08	none	.001	trace	.014	0.012
369	300 - 310	10	.05	0.1	.003	trace	.013	0.006
370	310 - 320	10	.05	0.1	.001	trace	.013	0.012
371	320 - 325	5	.02	0.1	.001	0.005	.009	0.006

LOVITT MINE

Hole 75-LV-8

Sample No.	Interval	Footage	Ag oz/ton		Au oz/ton		Cu %	
			CMS	Union	CMS	Union	CMS	Union
75-LV-283	10 - 20	10	.03	none	.001	none	.009	none
284	20 - 30	10	.01	none	.002	trace	.006	none
285	30 - 40	10	.01	none	.003	trace	.009	none
286	40 - 50	10	.01	none	.004	trace	.009	0.006
287	50 - 60	10	.02	none	.003	trace	.008	0.006
288	60 - 70	10	.02	0.3	.002	trace	.009	none
289	70 - 80	10	.01	0.8	.005	0.010	.008	none
290	80 - 90	10	.01	none	.002	0.005	.011	0.006
291	90 - 100	10	.02	none	.002	trace	.010	0.006
292	100 - 110	10	.03	none	.003	trace	.018	0.006
293	110 - 120	10	.01	none	.004	trace	.014	0.012
294	120 - 130	10	.02	none	.002	trace	.006	0.006
295	130 - 140	10	.08	0.1	.002	trace	.016	0.006
296	140 - 150	10	.05	0.2	.004	trace	.022	0.012
297	150 - 160	10	.02	0.2	.001	trace	.014	0.006
298	160 - 170	10	.04	none	.002	trace	.014	0.006
299	170 - 180	10	.04	none	.003	trace	.012	0.006
300	180 - 190	10	.03	0.4	.003	trace	.013	0.006
301	190 - 200	10	.04	none	.001	trace	.014	0.006
302	200 - 210	10	.04	0.2	.002	trace	.012	0.006
303	210 - 220	10	.03	0.2	.002	trace	.012	0.006
304	220 - 230	10	.03	0.1	.004	trace	.013	0.006
305	230 - 240	10	.04	0.1	.002	trace	.013	0.006
306	240 - 250	10	.02	0.1	.002	trace	.012	none
307	250 - 260	10	.03	0.2	.002	trace	.011	0.006
308	260 - 270	10	.01	0.2	.002	trace	.008	none
309	270 - 280	10	.04	0.1	.001	trace	.014	0.006
310	280 - 290	10	.02	0.2	.002	trace	.010	0.006
311	290 - 300	10	.02	0.1	.004	trace	.007	none
312	300 - 310	10	.02	none	<.001	trace	.021	0.012
313	310 - 320	10	.03	0.1	.001	trace	.018	0.012
314	320 - 330	10	.03	none	.002	trace	.018	0.006
315	330 - 340	10	.06	none	.004	trace	.022	0.006
316	340 - 350	10	.02	0.1	.003	trace	.008	0.006
317	350 - 360	10	.04	0.1	.003	trace	.012	none
318	360 - 370	10	.04	0.2	.002	trace	.012	none
319	370 - 380	10	.04	0.1	.004	trace	.010	0.006
320	380 - 390	10	.02	none	.002	trace	.010	none

LOVITT MINE

Hole 75-LV-8
(continued)

Sample No.	Interval	Footage	Ag oz/ton		Au oz/ton		Cu %	
			CMS	Union	CMS	Union	CMS	Union
75-LV-321	390 - 400	10	.04	none	.002	trace	.012	none
322	400 - 410	10	.04	0.2	.001	trace	.009	0.006
323	410 - 420	10	.06	none	.002	trace	.007	none
324	420 - 430	10	.03	none	<.001	trace	.009	0.006
325	430 - 440	10	.02	0.2	.004	trace	.012	none
326	440 - 450	10	.08	0.9	.003	trace	.010	0.006
327	450 - 460	10	.03	0.2	.005	trace	.008	none
328	460 - 470	10	.18	none	.003	trace	.014	0.006
329	470 - 480	10	.26	0.3	.004	trace	.003	0.006
330	480 - 490	10	.14	0.1	.002	trace	.013	0.006
331	490 - 500	10	.04	0.1	.003	trace	.012	0.006
332	500 - 510	10	.05	none	<.001	trace	.012	0.006
333	510 - 520	10	.17	0.5	.003	trace	.010	none
334	520 - 530	10	.12	0.2	.001	trace	.012	0.006
336A	530 - 540	10	.02	none	<.001	trace	.008	0.012
336B	540 - 550	10	.05	0.1	<.001	trace	.015	0.006
337	550 - 560	10	.06	0.3	.003	trace	.008	0.006
338	560 - 570	10	.04	none	.004	trace	.012	0.006
339	570 - 580	10	.02	none	.002	trace	.012	0.006

LOVITT MINE

Hole 74-LV-9

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Ag oz/ton</u>		<u>Au oz/ton</u>		<u>Cu %</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
74-LV-101	20 - 30	10	.02	none	.001	trace	.006	0.157
102	30 - 40	10	.02	none	<.001	trace	.009	none
103	40 - 50	10	.01	0.1	<.001	trace	.001	0.006
104	50 - 60	10	.01	none	<.001	none	.008	none
105	60 - 70	10	.01	none	<.001	none	.005	none
106	70 - 80	10	.02	none	<.001	trace	.010	0.006
107	80 - 90	10	.03	none	<.001	trace	.001	none
108	90 - 100	10	.02	0.2	.001	trace	.006	none
109	100 - 110	10	.01	none	.001	trace	.006	none
110	110 - 120	10	.02	none	<.001	trace	.001	0.006
111	120 - 130	10	.02	none	<.001	trace	.008	none
112	130 - 140	10	.02	none	.001	trace	.006	none
113	140 - 150	10	.02	none	<.001	none	.010	0.069
114	150 - 160	10	.01	none	.001	trace	.007	0.006
115	160 - 170	10	.01	none	<.001	trace	.006	none
116	170 - 180	10	.03	none	<.001	trace	.009	none
117	180 - 190	10	.03	none	<.001	trace	.008	none
118	190 - 200	10	.02	none	<.001	trace	.010	0.006

LOVITT MINE

Hole 74-LV-10

Sample No.	Interval	Footage	Ag oz/ton		Au oz/ton		Cu %	
			CMS	Union	CMS	Union	CMS	Union
74-LV-119	40 - 50	10	.02	none	.001	none	.009	none
120	50 - 60	10	.02	0.1	.001	none	.006	none
121	60 - 70	10	.02	none	<.001	trace	.011	none
122	70 - 80	10	.01	none	<.001	trace	.010	0.006
123	80 - 90	10	.02	none	<.001	trace	.009	0.006
124	90 - 100	10	.02	none	.001	trace	.007	0.006
125	100 - 110	10	.01	none	.001	trace	.009	0.006
126	110 - 120	10	.02	0.2	.001	0.005	.008	none
127	120 - 130	10	.02	none	<.001	trace	.006	0.006
128	130 - 140	10	.01	none	<.001	trace	.007	none
129	140 - 150	10	.01	none	.001	trace	.008	0.006
130	150 - 160	10	.02	0.2	<.001	trace	.009	none
131	160 - 170	10	.02	none	<.001	trace	.011	0.006
132	170 - 180	10	.03	none	<.001	trace	.011	none
133	180 - 190	10	.01	0.1	.001	trace	.008	0.006
134	190 - 200	10	.02	none	<.001	trace	.008	none
135	200 - 210	10	.03	0.2	<.001	trace	.008	none
136	210 - 220	10	.01	none	<.001	trace	.009	0.006
137	220 - 230	10	.03	0.2	<.001	trace	.008	none
138	230 - 240	10	.02	none	<.001	trace	.009	0.006
139	240 - 250	10	.01	none	.001	none	.009	none
140	250 - 260	10	.01	none	.001	trace	.012	0.006
141	260 - 270	10	.02	0.1	.001	trace	.012	0.006
142	270 - 280	10	.04	none	<.001	trace	.010	none
143	280 - 290	10	.03	none	<.001	trace	.009	0.006
144	290 - 300	10	.03	none	.001	trace	.012	none
145	300 - 310	10	.03	none	.001	trace	.010	0.006
146	310 - 320	10	.02	none	<.001	trace	.006	0.006
147	320 - 330	10	.04	none	.001	trace	.009	0.006
148	330 - 340	10	.03	none	.002	trace	.009	none
149	340 - 350	10	.03	none	.001	trace	.012	0.006
150	350 - 360	10	.04	none	<.001	trace	.006	none
151	360 - 370	10	.02	none	.001	trace	.006	none
152	370 - 380	10	.03	none	<.001	trace	.012	none
153	380 - 390	10	.03	none	<.001	none	.008	0.006
154	390 - 400	10	.02	none	<.001	trace	.009	none
155	400 - 410	10	.03	none	.001	trace	.011	none

LOVITT MINE

Hole 74-LV-10
(continued)

Sample No.	Interval	Footage	Ag oz/ton		Au oz/ton		Cu %	
			CMS	Union	CMS	Union	CMS	Union
74-LV-156	410 - 420	10	.03	none	<.001	none	.011	none
157	420 - 430	10	.02	0.1	<.001	trace	.008	none
158	430 - 440	10	.02	none	<.001	trace	.008	none
159	440 - 450	10	.04	none	.001	trace	.010	none
160	450 - 460	10	.04	none	.001	trace	.008	0.006
161	460 - 470	10	.03	none	.001	trace	.010	none
162	470 - 480	10	.04	none	.001	trace	.008	0.006
163	480 - 490	10	.03	none	.002	trace	.009	0.006
164	490 - 500	10	.04	none	.002	trace	.009	none
165	500 - 510	10	.05	none	.001	trace	.008	0.006
166	510 - 520	10	.05	none	<.001	none	.009	none
167	520 - 530	10	.04	none	<.001	none	.008	0.006
168	530 - 540	10	.04	none	<.001	none	.010	none
169	540 - 550	10	.03	0.2	<.001	none	.009	0.006
170	550 - 560	10	.03	none	<.001	none	.009	none
171	560 - 570	10	.04	none	.001	none	.012	none
172	570 - 580	10	.03	none	.001	none	.010	0.006
173	580 - 590	10	.04	none	.001	none	.009	none
174	590 - 600	10	.02	none	<.001	none	.008	0.006
175	600 - 610	10	.03	none	<.001	none	.008	none
176	610 - 620	10	.02	none	.001	none	.009	none
177	620 - 630	10	.03	none	<.001	none	.010	none
178	630 - 640	10	.02	none	.002	none	.007	none
179	640 - 650	10	.01	none	<.001	none	.007	none
180	650 - 660	10	.01	none	.001	none	.006	none
181	660 - 670	10	.03	none	<.001	none	.007	none
182	670 - 680	10	.02	none	<.001	none	.008	none
183	680 - 690	10	.04	none	<.001	none	.006	none
184	690 - 700	10	.02	none	<.001	none	.006	none
185	700 - 710	10	.01	none	.001	none	.005	none
186	710 - 720	10	.02	none	<.001	none	.011	none
187	720 - 730	10	.01	none	<.001	none	.009	none
188	730 - 740	10	.01	none	<.001	none	.006	none
189	740 - 750	10	.02	none	<.001	trace	.006	none
190	750 - 760	10	.01	none	<.001	none	.008	none

LOVITT MINE

Hole 74-LV-10
(continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Ag oz/ton</u>		<u>Au oz/ton</u>		<u>Cu %</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
74-LV-191	760 - 770	10	.02	0.2	<.001	none	.008	none
192	770 - 780	10	.02	none	<.001	none	.006	none
193	780 - 790	10	.01	none	.001	none	.010	none
194	790 - 800	10	.02	none	.001	none	.006	none
195	800 - 810	10	.01	none	<.001	none	.001	none
196	810 - 820	10	.01	none	<.001	none	.003	none
197	820 - 830	10	.02	none	.001	none	.005	none
198	830 - 840	10	.01	none	<.001	none	.006	none

LOVITT MINE

Hole 75-LV-11

Sample No.	Interval	Footage	Ag oz/ton		Au oz/ton		Cu %	
			CMS	Union	CMS	Union	CMS	Union
75-LV-201	20 - 30	10	.02	none	.004	0.010	.011	0.012
202	30 - 40	10	.03	0.1	.005	0.010	.012	none
203	40 - 50	10	.05	none	.007	0.010	.010	0.012
204	50 - 60	10	.21	0.2	.006	0.010	.016	0.012
205	60 - 70	10	.46	0.5	.010	0.010	.016	0.012
206	70 - 80	10	4.70	5.0	.045	0.035	.018	0.011
207	80 - 90	10	.75	0.8	.011	0.010	.018	0.006
208	90 - 100	10	.04	0.1	<.001	0.015	.018	0.163
209	100 - 110	10	.04	none	.002	0.015	.017	0.018
210	110 - 120	10	.03	none	.004	0.010	.018	0.006
211	120 - 130	10	.04	none	.002	0.010	.010	0.037
212	130 - 140	10	.04	none	.003	0.010	.012	0.012
213	140 - 150	10	.02	none	.002	0.015	.009	0.006
214	150 - 160	10	.02	none	.003	0.010	.010	0.037
215	160 - 170	10	.03	none	.001	trace	.020	0.018
216	170 - 180	10	.02	none	.002	0.010	.008	0.012
217	180 - 190	10	.03	none	<.001	trace	.005	0.006
218	190 - 200	10	.04	none	.001	trace	.005	0.050
219	200 - 210	10	.02	none	.003	trace	.006	0.006
220	210 - 220	10	.02	none	.005	trace	.009	0.012
221	220 - 230	10	.04	none	<.001	trace	.005	0.018
222	230 - 240	10	.03	none	<.001	trace	.006	0.006
223	240 - 250	10	.03	none	<.001	trace	.005	0.012
224	250 - 260	10	.02	0.1	<.001	trace	.006	none
225	260 - 270	10	.02	none	.011	trace	.006	0.006
226	270 - 280	10	.03	none	.002	trace	.004	0.006
227	280 - 290	10	.03	none	<.001	trace	.009	0.006
228	290 - 300	10	.03	none	<.001	trace	.009	0.006
229	300 - 310	10	.02	none	.001	trace	.007	0.006
230	310 - 320	10	.02	none	<.001	trace	.008	0.006
231	320 - 330	10	.02	0.1	<.001	trace	.010	0.006
232	330 - 340	10	.04	none	.004	trace	.007	0.006
233	340 - 350	10	.03	none	.002	trace	.009	0.006
234	350 - 360	10	.03	0.1	.001	trace	.006	0.006
235	360 - 370	10	.02	none	.006	trace	.007	none
236	370 - 380	10	.05	none	.004	none	.006	none
237	380 - 390	10	.03	none	.001	trace	.007	none
238	390 - 400	10	.02	0.1	.001	trace	.005	none
239	400 - 410	10	.03	none	<.001	none	.008	none
240	410 - 420	10	.04	none	.002	none	.008	none

LOVITT MINE

Hole 75-LV-11
(continued)

Sample No.	Interval	Footage	Ag oz/ton		Au oz/ton		Cu %	
			CMS	Union	CMS	Union	CMS	Union
75-LV-241	420 - 430	10	.03	none	<.001	none	.005	none
242	430 - 440	10	.02	none	<.001	none	.005	none
243	440 - 450	10	.03	none	.002	none	.005	none
244	450 - 460	10	.02	none	.002	none	.006	0.006
245	460 - 470	10	.02	none	<.001	none	.008	0.006
246	470 - 480	10	.03	none	.003	trace	.009	none
247	480 - 490	10	.01	0.1	.002	trace	.010	0.006
248	490 - 500	10	.01	0.1	.001	none	.005	none
249	500 - 510	10	.02	none	<.001	trace	.005	0.006
250	510 - 520	10	.02	none	<.001	trace	.005	none
251	520 - 530	10	.02	none	<.001	trace	.008	0.012
252	530 - 540	10	.04	0.7	<.001	trace	.013	0.006
253	540 - 550	10	.03	none	<.001	trace	.008	0.012
254	550 - 560	10	.03	none	<.001	none	.007	0.006
255	560 - 570	10	.03	0.1	<.001	none	.009	0.012
256	570 - 580	10	.03	none	.002	none	.008	none
257	580 - 590	10	.03	0.4	.001	none	.008	0.006
258	590 - 600	10	.03	none	.001	none	.011	0.006
259	600 - 610	10	.02	0.1	<.001	none	.009	none
260	610 - 620	10	.01	none	<.001	none	.007	0.006
261	620 - 630	10	.01	0.1	.002	none	.006	0.006
262	630 - 640	10	.02	none	.001	none	.007	0.006
263	640 - 650	10	.01	0.1	.002	none	.009	none
264	650 - 660	10	.02	0.1	.002	none	.009	0.006
265	660 - 670	10	.01	0.4	<.001	none	.007	none
266	670 - 680	10	.02	0.2	<.001	none	.010	none
267	680 - 690	10	.01	none	.001	trace	.007	none
268	690 - 700	10	.02	none	.001	none	.009	0.006
269	700 - 710	10	.03	0.2	.002	none	.012	none
270	710 - 720	10	.02	0.1	<.001	none	.008	0.006
271	720 - 730	10	.01	none	<.001	none	.011	none
272	730 - 740	10	.01	none	.001	none	.010	0.006
273	740 - 750	10	.02	0.2	<.001	none	.009	0.006
274	750 - 760	10	.01	none	<.001	none	.011	none
275	760 - 770	10	.03	0.1	<.001	trace	.012	none
276	770 - 780	10	.02	0.7	.001	none	.010	none
277	780 - 790	10	.02	none	.001	none	.011	0.012
278	790 - 800	10	.01	none	<.001	none	.008	none
279	800 - 810	10	.02	none	.001	none	.010	none
280	810 - 820	10	.01	none	.001	none	.010	none
281	820 - 830	10	.02	0.1	.001	none	.009	none
282	830 - 840	10	.02	none	.001	none	.009	none

LOVITT MINE

Hole 75-LV-12

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Ag oz/ton</u>		<u>Au oz/ton</u>		<u>Cu %</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-1002	20 - 30	10	.05	0.1	.035	0.060	.004	none
1003	30 - 40	10	.04	0.2	.012	0.015	.005	none
1004	40 - 50	10	.03	0.1	.008	trace	.008	0.006
1005	50 - 60	10	.03	0.1	.006	trace	.008	none
1006	60 - 70	10	.44	0.8	.019	0.020	.005	none
1007	70 - 80	10	4.40	5.6	1.050	1.815	.007	none
1008	80 - 90	10	.53	1.0	.195	0.180	.006	none
1009	90 - 100	10	.06	0.2	.008	0.010	.004	none
1010	100 - 107	7	.14	0.2	.032	0.030	.004	none

LOVITT MINE

Hole 75-LV-12B

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Ag oz/ton</u>		<u>Au oz/ton</u>		<u>Cu %</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-1011	40 - 50	10	.46	0.8	.642	0.845	.008	none
1012	50 - 60	10	.02	0.3	.006	trace	.003	none
1013	60 - 70	10	.02	none	.002	trace	.002	none
1014	70 - 80	10	.03	0.2	.002	trace	.003	none
1015	80 - 90	10	.05	0.2	.001	trace	.003	none
1016	90 - 100	10	.05	0.3	.005	trace	.003	none
1017	100 - 110	10	.06	0.3	.026	0.015	.007	none
1018	110 - 120	10	.08	0.3	.026	0.020	.004	none
1019	120 - 130	10	.06	1.0	.016	0.030	.007	none
1020	130 - 140	10	.04	none	.011	0.015	.004	none

LOVITT MINE

Hole 75-LV-17

Sample No.	Interval	Footage	Ag oz/ton		Au oz/ton		Cu %	
			CMS	Union	CMS	Union	CMS	Union
75-LV-471	10 - 20	10	.02	none	.003	0.005	.005	none
472	20 - 30	10	.03	0.1	.007	0.010	.002	none
473	30 - 40	10	.04	0.1	.012	0.015	.002	none
474	40 - 50	10	.04	none	.008	0.015	.003	none
475	50 - 60	10	.04	0.1	.017	0.010	.003	none
476	60 - 70	10	.03	none	.012	0.010	.004	0.006
477	70 - 80	10	.05	0.1	.012	0.015	.008	none
478	80 - 90	10	.04	0.1	.013	0.010	.006	none
479	90 - 100	10	.06	0.1	.020	0.015	.004	none
480	100 - 110	10	.05	0.1	.026	0.040	.007	0.006
481	110 - 120	10	.07	none	.047	0.075	.004	none
482	120 - 130	10	.03	0.2	.011	0.015	.002	0.006
483	130 - 140	10	.04	none	.007	trace	.002	none
484	140 - 150	10	.04	0.1	.006	trace	.005	none
485	150 - 160	10	.02	none	.001	trace	.002	none
486	160 - 170	10	.03	none	.002	trace	.004	none
487	170 - 180	10	.03	none	.001	trace	.005	none
488	180 - 190	10	.02	0.2	<.001	none	.005	none
489	190 - 200	10	.02	0.2	.001	trace	.003	none
490	200 - 210	10	.03	none	.002	trace	.003	none
491	210 - 220	10	.03	none	.001	trace	.004	none
492	220 - 230	10	.02	none	.002	trace	.005	none
493	230 - 240	10	.02	none	.002	none	.004	none
494	240 - 250	10	.02	none	.002	trace	.004	none
495	250 - 260	10	.02	none	.001	none	.005	none
496	260 - 270	10	.02	none	<.001	none	.003	none
497	270 - 280	10	.03	0.1	.002	none	.003	none
498	280 - 290	10	.01	none	<.001	none	.005	none
499	290 - 300	10	.02	0.2	.001	none	.002	none
500	300 - 310	10	.03	0.2	.001	none	.004	none
1001	310 - 320	10	.02	none	.001	none	.005	none

LOVITT MINE

Hole 75-LV-18

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-	0 - 4	4				
1901	4 - 10	6	.105	0.120	.24	0.4
1902	10 - 20	10	.168	0.210	.42	0.5
1903	20 - 30	10	.246	0.250	.60	0.7
1904	30 - 40	10	.144	0.165	.50	0.6
1905	40 - 50	10	.044	0.065	.22	0.2
1906	50 - 60	10	.032	0.040	.06	0.1
1907	60 - 70	10	.020	0.025	.09	0.1
1908	70 - 80	10	.040	0.045	.24	0.3
1909	80 - 90	10	.035	0.040	.19	0.1
1910	90 - 100	10	.058	0.070	.32	0.3
1911	100 - 110	10	.017	0.025	.16	0.1
1912	110 - 120	10	.032	0.025	.18	0.1
1913	120 - 130	10	.032	0.030	.16	0.1
1914	130 - 140	10	.084	0.095	.36	0.4
1915	140 - 145	5	.107	0.150	.34	0.4
1916	145 - 150	5	.017	0.020	.07	None
1917	150 - 160	10	.005	0.010	.03	None
1918	160 - 170	10	.093	0.115	.22	0.3

Bottom

LOVITT MINE

Hole 75-LV-19

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-	0 - 2	2				
1919	2 - 10	8	.081	0.100	.24	0.3
1920	10 - 20	10	.156	0.170	.29	0.2
1921	20 - 30	10	.210	0.220	.56	0.6
1922	30 - 40	10	.426	0.510	.90	1.0
1923	40 - 50	10	.087	0.110	.30	0.4
1924	50 - 60	10	.276	0.270	.56	0.5
1925	60 - 70	10	.135	0.135	.58	0.6
1926	70 - 80	10	.354	0.390	.64	0.5
1927	80 - 90	10	.107	0.140	.38	0.4
1928	90 - 100	10	.026	0.030	.10	none
1929	100 - 110	10	.002	Trace	.03	0.1
1930	110 - 120	10	.001	none	.01	none
1931	120 - 130	10	.003	Trace	.02	none
1932	130 - 140	10	.004	Trace	.04	none

Bottom

LOVITT MINE

Hole 75-LV-20

Sample No.	Interval	Footage	Au oz/ton		Ag oz/ton	
			CMS	Union	CMS	Union
75-LV-	0 - 2	2				
1933	2 - 10	8	<.001	none	.02	0.2
1934	10 - 20	10	<.001	none	.02	none
1935	20 - 30	10	.002	none	.02	0.1
1936	30 - 40	10	.002	none	.02	none
1937	40 - 50	10	.001	Trace	.02	none
1938	50 - 60	10	<.001	Trace	.03	0.2
1939	60 - 70	10	<.001	None	.01	none
1940	70 - 80	10	<.001	none	.02	none
1941	80 - 90	10	.001	none	.01	0.2
1942	90 - 100	10	<.001	none	.01	0.2
1943	100 - 110	10	.005	Trace	.04	none
1944	110 - 120	10	.022	0.030	.04	0.1
1945	120 - 130	10	.030	0.030	.04	0.1
1946	130 - 140	10	.006	0.015	.04	None
1947	140 - 150	10	.008	0.015	.02	0.1
1948	150 - 160	10	.005	Trace	.02	None
1949	160 - 170	10	.002	Trace	.03	None
1950	170 - 180	10	<.001	Trace	.01	0.1
1951	180 - 190	10	.004	0.015	.05	None
1952	190 - 200	10	.005	0.015	.04	None
1953	200 - 210	10	.005	Trace	.04	0.1
1954	210 - 220	10	.001	Trace	.05	None
1955	220 - 230	10	.003	Trace	.06	None
1956	230 - 240	10	.002	Trace	.04	None
1957	240 - 250	10	.015	0.025	.10	0.2
1958	250 - 260	10	.014	0.025	.12	None
1959	260 - 270	10	.010	0.010	.06	0.1
1960	270 - 280	10	.011	0.015	.07	None
1961	280 - 290	10	.005	0.015	.04	None
1962	290 - 300	10	.005	Trace	.05	0.1
1963	300 - 310	10	.003	Trace	.04	0.1
1964	310 - 320	10	.001	Trace	.06	None
1965	320 - 324	4	.001	Trace	.02	0.1

Bottom

LOVITT MINE

Hole 75-LV-21

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-	0 - 25	25				
1966	25 - 30	5	.004	Trace	.04	None
1967	30 - 40	10	.001	Trace	.06	None
1968	40 - 50	10	.001	Trace	.02	0.1
1969	50 - 60	10	.002	Trace	.04	None
1970	60 - 68	8	.001	Trace	.05	None

Bottom

LOVITT MINE

Hole 75-LV-22

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-1971	110 - 120	10	.168	0.175	.46	0.2
1972	120 - 130	10	.072	0.085	.22	0.2
1973	130 - 140	10	.258	0.220	.18	0.3
1974	140 - 150	10	.051	0.065	.10	0.1
1975	150 - 160	10	.087	0.070	.14	0.1
1976	160 - 170	10	.032	0.050	.12	0.2
1977	170 - 180	10	.018	0.030	.08	None
1978	180 - 190	10	.041	0.050	.12	0.2
1979	190 - 200	10	.075	0.085	.20	None
1980	200 - 210	10	.069	0.070	.24	0.2
1981	210 - 220	10	.051	0.060	.08	0.1
1982	220 - 230	10	.076	0.070	.12	None
1983	230 - 240	10	.058	0.060	.07	0.1
1984	240 - 250	10	.036	0.055	.08	None

Bottom

LOVITT MINE

Hole 75-LV-23

Sample No.	Interval	Footage	Au oz/ton		Ag oz/ton	
			CMS	Union	CMS	Union
75-LV-	0 - 90	90				
1985	90 - 100	10	.056	0.060	.07	0.3
1986	100 - 110	10	.059	0.050	.10	0.1
1987	110 - 120	10	.060	0.050	.12	0.1
1988	120 - 130	10	.040	0.040	.15	0.2
1989	130 - 140	10	.024	0.020	.08	0.1
1990	140 - 150	10	.077	0.060	.19	None
1991	150 - 160	10	.048	0.050	.07	0.3
1992	160 - 170	10	.034	0.020	.08	None
1993	170 - 180	10	.042	0.040	.10	0.1
1994	180 - 190	10	.040	0.030	.13	None
1995	190 - 200	10	.034	0.020	.16	0.3
1996	200 - 210	10	.030	0.030	.16	0.2
1997	210 - 220	10	.064	0.075	.22	0.3
1998	220 - 230	10	.025	0.020	.07	None
1999	230 - 240	10	.024	0.030	.05	None
2000	240 - 250	10	.025	0.030	.07	0.1
2001	250 - 260	10	.035	0.040	.05	0.3
2002	260 - 270	10	.034	0.040	.04	0.2
2003	270 - 280	10	.033	0.040	.13	0.1
2004	280 - 285	5	.035	0.050	.16	0.4
2005	285 - 290	5	.049	0.040	.14	0.2
2006	290 - 300	10	.035	0.040	.13	None
2007	300 - 310	10	.029	0.030	.14	0.1
2008	310 - 320	10	.041	0.045	.14	0.2
2009	320 - 330	10	.023	0.030	.11	0.2
2010	330 - 340	10	.022	0.020	.11	0.1
2011	340 - 350	10	.043	0.050	.14	0.2
2012	350 - 360	10	.027	0.020	.15	None
2013	360 - 365	5	.015	0.015	.04	0.1

LOVITT MINE

Hole 75-LV-24

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2014	0 - 10	10	.001	None		.02	None	
2015	10 - 20	10	.002	Trace		.04	None	
2016	20 - 30	10	<.001	Trace		.03	None	
2017	30 - 40	10	.002	None		.02	None	
2018	40 - 50	10	.003	None		.04	None	
2019	50 - 60	10	<.001	None		.04	0.1	
2020	60 - 70	10	.005	Trace		.05	None	
2021	70 - 80	10	<.001	None		.02	None	
2022	80 - 90	10	.002	None		.04	None	
2023	90 - 100	10	.004	Trace		.04	None	
2024	100 - 110	10	.005	Trace		.03	None	
2025	110 - 120	10	.004	Trace		.06	None	
2026	120 - 130	10	.003	Trace		.03	None	
2027	130 - 140	10	.002	Trace		.04	0.1	
2028	140 - 150	10	.001	Trace		.02	None	
2029	150 - 160	10	<.001	Trace		.04	None	
2030	160 - 170	10	.001	Trace		.04	None	Tr
2031	170 - 180	10	.001	None		.05	None	
2032	180 - 190	10	.002	None		.04	None	
2033	190 - 200	10	.002	Trace		.04	None	
2034	200 - 210	10	.001	None	<0.01	.02	None	Tr
2035	210 - 220	10	<.001	None	<0.01	.02	None	Tr
2036	220 - 230	10	.002	None	<0.01	.04	None	.04
2037	230 - 240	10	.001	None	<0.01	.03	0.2	0.18
2038	240 - 250	10	.001	None	<0.01	.03	0.1	Tr
2039	250 - 260	10	<.001	None	<0.01	.04	None	Tr
2040	260 - 270	10	.001	None	<0.01	.03	None	Tr
2041	270 - 280	10	<.001	Trace	<0.01	.04	None	Tr
2042	280 - 290	10	.002	None	<0.01	.03	None	Tr
2043	290 - 300	10	.002	None	<0.01	.02	None	Tr
2044	300 - 310	10	.001	None	<0.01	.01	None	0.06
2045	310 - 320	10	<.001	None	<0.01	.03	0.1	0.02
2046	320 - 330	10	.001	None	<0.01	.01	None	Tr
2047	330 - 340	10	<.001	None	<0.01	.02	None	0.02
2048	340 - 350	10	.002	None	<0.01	.03	0.1	0.02
2049	350 - 360	10	.002	None	<0.01	.01	0.1	Tr
2050	360 - 370	10	.002	None	<0.01	.02	None	.02
2051	370 - 380	10	.002	None	<0.01	.02	None	Tr

LOVITT MINE

Hole 75-LV-24
(continued)

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2052	380 - 390	10	.003	None	< 0.01	.03	0.1	0.12
2053	390 - 400	10	.002	None	< 0.01	.03	None	0.08
2054	400 - 410	10	< .001	None	< 0.01	.01	None	Tr
2055	410 - 420	10	.003	None	< 0.01	.02	None	0.08
2056	420 - 430	10	.002	Trace	< 0.01	.04	None	Tr
2057	430 - 440	10	.002	Trace	< 0.01	.03	None	Tr
2058	440 - 450	10	.003	Trace	< 0.01	.04	None	0.06
2059	450 - 460	10	.005	None	< 0.01	.04	None	0.02
2060	460 - 470	10	.003	None	< 0.01	.04	None	Tr
2061	470 - 480	10	.001	None	< 0.01	.04	None	0.02
2062	480 - 490	10	< .001	None	< 0.01	.03	None	Tr
2063	490 - 500	10	.003	None	< 0.01	.01	None	Tr
2064	500 - 505	5	.001	None	< 0.01	.02	None	0.10

LOVITT MINE

Hole 75-LV-25

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2065	0 - 10	10	.001	Trace	<0.01	.05	None	Tr
2066	10 - 20	10	<.001	None	<0.01	.04	0.1	Tr
2067	20 - 30	10	<.001	None	<0.01	.03	0.1	0.12
2068	30 - 40	10	.002	Trace	<0.01	.02	None	Tr
2069	40 - 50	10	.001	None	<0.01	.02	None	0.02
2070	50 - 60	10	<.001	None	<0.01	.03	None	0.06
2071	60 - 70	10	.002	None	<0.01	.04	0.1	0.20
2072	70 - 80	10	.001	None	<0.01	.03	None	Tr
2073	80 - 90	10	<.001	Trace	<0.01	.02	None	Tr
2074	90 - 100	10	.002	Trace	<0.01	.01	None	Tr
2075	100 - 105	5	<.001	None	<0.01	.02	None	0.10
2076	105 - 110	5	.001	None	<0.01	.04	None	Tr
2077	110 - 120	10	.001	None	<0.01	.01	0.1	Tr
2078	120 - 130	10	<.001	None	<0.01	.04	0.1	Tr
2079	130 - 140	10	<.001	None	<0.01	.04	0.1	Tr
2080	140 - 150	10	<.001	None	<0.01	.03	0.2	0.06
2081	150 - 160	10	.001	None	<0.01	.02	None	0.10
2082	160 - 170	10	.001	None	<0.01	.03	None	Tr
2083	170 - 180	10	<.001	None	<0.01	.02	None	Tr
2084	180 - 190	10	.001	None	<0.01	.03	None	Tr
2085	190 - 200	10	<.001	None	<0.01	.03	None	0.08
2086	200 - 210	10	.002	None	<0.01	.02	None	Tr
2087	210 - 220	10	.003	None	<0.01	.04	0.1	0.02
2088	220 - 230	10	<.001	None	<0.01	.01	0.1	Tr
2089	230 - 240	10	<.001	None	<0.01	.02	None	0.28
2090	240 - 250	10	.001	None	<0.01	.02	None	0.04
2091	250 - 260	10	<.001	None	<0.01	.03	0.2	0.02
2092	260 - 270	10	<.001	None	<0.01	.03	0.1	Tr
2093	270 - 280	10	.001	None	<0.01	.02	None	0.08
2094	280 - 290	10	.001	None	<0.01	.02	0.1	0.10
2095	290 - 300	10	<.001	None	<0.01	.04	None	0.02
2096	300 - 310	10	.002	None	<0.01	.02	0.1	0.14
2097	310 - 320	10	.001	None	<0.01	.03	0.1	0.16
2098	320 - 330	10	.001	None	<0.01	.02	0.1	0.18
2099	330 - 340	10	.001	None	<0.01	.02	None	0.14
2100	340 - 345	5	<.001	None	<0.01	.03	0.1	0.32
2101	345 - 350	5	.002	Trace		.02	None	
2102	350 - 360	10	.002	Trace		.04	None	

LOVITT MINE

Hole 75-LV-25
(continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>		<u>Ag oz/ton.</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-2103	360 - 370	10	.002	None	.02	0.1
2104	370 - 380	10	.002	None	.03	0.1
2105	380 - 390	10	.001	None	.03	None
2106	390 - 400	10	.002	None	.04	0.2
2107	400 - 410	10	<.001	None	.04	None
2108	410 - 420	10	<.001	None	.02	0.1
2109	420 - 430	10	.001	None	.04	None
2110	430 - 440	10	.001	None	.03	0.1
2111	440 - 445	5	<.001	None	.02	0.1

LOVITT MINE

Hole 75-LV-26

Sample No.	Interval	Footage	Au oz/ton		Ag oz/ton	
			CMS	Union	CMS	Union
75-LV-2112	10 - 20	10	<.001	None	.03	None
2113	20 - 30	10	.001	None	.02	0.1
2114	30 - 40	10	.002	None	.04	None
2115	40 - 50	10	.002	None	.02	None
2116	50 - 60	10	.001	None	.02	None
2117	60 - 70	10	<.001	None	.02	None
2118	70 - 80	10	.002	None	.01	None
2119	80 - 90	10	.002	None	.02	None
2120	90 - 100	10	.002	None	.04	None
2121	100 - 110	10	.003	None	.02	None
2122	110 - 120	10	.001	None	.02	None
2123	120 - 130	10	.003	None	.02	None
2124	130 - 140	10	<.001	None	.02	None
2125	140 - 150	10	.001	None	.01	None
2126	150 - 160	10	.002	None	.01	None
2127	160 - 170	10	.002	None	.03	None
2128	170 - 180	10	.005	Trace	.02	None
2129	180 - 190	10	.002	Trace	.04	None
2130	190 - 200	10	<.001	Trace	.02	None
2131	200 - 210	10	<.001	None	.02	None
2132	210 - 220	10	.002	None	.04	None
2133	220 - 230	10	.002	None	.02	0.1
2134	230 - 240	10	<.001	Trace	.02	0.1
2135	240 - 250	10	<.001	None	.04	None
2136	250 - 260	10	.002	None	.03	None
2137	260 - 270	10	.002	None	.02	None
2138	270 - 280	10	.001	None	.02	None
2139	280 - 290	10	<.001	None	.02	0.1
2140	290 - 300	10	<.001	None	.02	None
2141	300 - 310	10	.001	None	.03	0.1
2142	310 - 320	10	<.001	None	.02	None
2143	320 - 325	5	<.001	None	.02	None

LOVITT MINE

Hole 75-LV-27

Sample No.	Interval	Footage	Au oz/ton		Ag oz/ton	
			CMS	Union	CMS	Union
75-LV-2144	0 - 10	10	< .001	Trace	.02	None
2145	10 - 20	10	< .001	Trace	.01	0.1
2146	20 - 30	10	< .001	Trace	.02	None
2147	30 - 40	10	< .001	Trace	.01	0.1
2148	40 - 50	10	.001	Trace	.02	None
2149	50 - 60	10	.001	Trace	.02	None
2150	60 - 70	10	.001	None	.03	None
2151	70 - 80	10	.001	None	.03	0.1
2152	80 - 90	10	< .001	None	.02	None
2153	90 - 100	10	.001	None	.02	None
2154	100 - 110	10	.001	None	.02	None
2155	110 - 120	10	< .001	None	.02	None
2156	120 - 130	10	< .001	Trace	.01	None
2157	130 - 140	10	< .001	Trace	.01	None
2158	140 - 150	10	< .001	None	.02	None
2159	150 - 160	10	.001	Trace	.01	None
2160	160 - 170	10	.001	None	.02	0.1
2161	170 - 180	10	.001	Trace	.03	None
2162	180 - 190	10	.001	Trace	.03	None
2163	190 - 200	10	.002	Trace	.04	None
2164	200 - 210	10	.001	Trace	.02	None
2165	210 - 220	10	< .001	Trace	.02	None
2166	220 - 230	10	< .001	Trace	.03	None
2167	230 - 240	10	.001	Trace	.02	0.1
2168	240 - 250	10	< .001	Trace	.03	None
2169	250 - 260	10	< .001	Trace	.03	None
2170	260 - 270	10	< .001	Trace	.02	None
2171	270 - 280	10	.001	None	.03	None
2172	280 - 290	10	< .001	None	.01	0.1
2173	290 - 300	10	.001	Trace	.03	None
2174	300 - 310	10	< .001	None	.02	None
2175	310 - 320	10	< .001	Trace	.02	None
2176	320 - 325	5	.001	Trace	.03	None
2177	325 - 330	5	.001	Trace	.02	0.2
2178	330 - 340	10	.001	Trace	.04	0.1
2179	340 - 350	10	.001	Trace	.03	None
2180	350 - 360	10	< .001	None	.02	None
2181	360 - 370	10	.001	None	.02	None
2182	370 - 380	10	.002	Trace	.02	None
2183	380 - 390	10	.001	None	.02	None
2184	390 - 400	10	.001	Trace	.01	None
2185	400 - 410	10	.001	Trace	.02	None

LOVITT MINE

Hole 75-LV-27
(continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-2186	410 - 420	10	.001	Trace	.02	None
2187	420 - 430	10	.002	Trace	.03	0.1
2188	430 - 440	10	.002	Trace	.03	None
2189	440 - 450	10	.001	Trace	.01	None
2190	450 - 460	10	.002	Trace	.02	0.1
2191	460 - 470	10	.001	Trace	.02	None
2192	470 - 480	10	.001	None	.01	None
2193	480 - 490	10	.002	None	.02	None
2194	490 - 500	10	.002	None	.02	None
2195	500 - 505	5	.001	Trace	.02	None

LOVITT MINE

Hole 75-LV-28

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-	0 - 20	10				
2196	20 - 30	10	<.001	Trace	.02	0.1
2197	30 - 40	10	<.001	Trace	.01	None
2198	40 - 50	10	.001	Trace	.01	None
2199	50 - 60	10	.001	Trace	.01	None

LOVITT MINE

Hole 75-LV-29

Sample No.	Interval	Footage	Au oz/ton		Ag oz/ton	
			CMS	Union	CMS	Union
75-LV-2200	0 - 10	10	.001	Trace	.02	0.1
2201	10 - 20	10	.004	Trace	.01	None
2202	20 - 30	10	.001	None	.01	None
2203	30 - 40	10	< .001	None	.02	None
2204	40 - 50	10	< .001	None	.01	None
2205	50 - 60	10	.001	None	.01	None
2206	60 - 70	10	< .001	None	.01	None
2207	70 - 80	10	.001	Trace	.02	None
2208	80 - 90	10	.002	Trace	.02	0.2
2209	90 - 100	10	.001	Trace	.01	None
2210	100 - 110	10	.002	None	.01	None
2211	110 - 120	10	< .001	Trace	.01	0.1
2212	120 - 130	10	.001	Trace	.02	None
2213	130 - 140	10	.003	Trace	.03	None
2214	140 - 150	10	.002	None	.02	None
2215	150 - 160	10	< .001	None	.03	None
2216	160 - 170	10	.001	None	.01	None
2217	170 - 180	10	.001	None	.01	None
2218	180 - 190	10	.002	Trace	.02	None
2219	190 - 200	10	.001	None	.02	None
2220	200 - 210	10	< .001	None	.03	None
2221	210 - 220	10	< .001	None	.02	None
2222	220 - 230	10	< .001	None	.02	None
2223	230 - 240	10	.003	None	.03	None
2224	240 - 250	10	.002	None	.01	None
2225	250 - 260	10	.001	None	.01	None
2226	260 - 270	10	.002	Trace	.02	None
2227	270 - 280	10	.001	None	.02	None
2228	280 - 290	10	< .001	None	.02	None
2229	290 - 300	10	< .001	None	.02	None
2230	300 - 310	10	.001	None	.01	None
2231	310 - 320	10	.001	None	.03	None
2232	320 - 330	10	.001	None	.02	None
2233	330 - 340	10	.002	None	.01	None
2234	340 - 350	10	.002	None	.02	None
2235	350 - 360	10	.003	Trace	.01	None
2236	360 - 370	10	.001	None	.02	None
2237	370 - 380	10	.001	Trace	.02	None
2238	380 - 390	10	.002	None	.03	None
2239	390 - 400	10	.002	None	.04	None
2240	400 - 410	10	.002	None	.02	None

LOVITT MINE

Hole 75-LV-29
(continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-2241	410 - 420	10	<.001	None	.02	None
(not received) 2242	420 - 430	10	-		-	
2243	430 - 440	10	.001	None	.01	None
2244	440 - 450	10	.002	None	.02	0.1
2245	450 - 460	10	.001	None	.01	None
2246	460 - 470	10	.002	None	.02	None
2247	470 - 480	10	.001	None	.02	None
2248	480 - 490	10	.001	None	.01	None
2249	490 - 500	10	<.001	None	.02	None
2250	500 - 505	5	<.001	None	.01	0.1

LOVITT MINE

Hole 75-LV-30

Sample No.	Interval	Footage	Au oz/ton		Ag oz/ton	
			CMS	Union	CMS	Union
75-LV-2251	20 - 30	10	< .001	None	.02	None
2252	30 - 40	10	.001	Trace	.01	None
2253	40 - 50	10	.002	Trace	.02	None
2254	50 - 60	10	< .001	None	.02	None
2255	60 - 70	10	.002	Trace	.01	None
2256	70 - 80	10	.001	None	.02	None
2257	80 - 90	10	.002	None	.01	None
2258	90 - 100	10	.001	None	.02	0.1
2259	100 - 110	10	.002	Trace	.01	0.1
2260	110 - 120	10	.001	Trace	.02	0.1
2261	120 - 130	10	< .001	Trace	.02	0.1
2262	130 - 140	10	.001	Trace	.02	None
2263	140 - 150	10	< .001	Trace	.02	None
2264	150 - 160	10	.005	Trace	.02	None
2265	160 - 170	10	.006	Trace	.04	0.1
2266	170 - 180	10	.002	Trace	.03	0.1
2267	180 - 190	10	.003	Trace	.02	None
2268	190 - 200	10	.004	Trace	.04	0.1
2269	200 - 210	10	.002	Trace	.02	0.1
2270	210 - 220	10	.002	Trace	.03	None
2271	220 - 230	10	.003	Trace	.01	None
2272	230 - 240	10	.004	Trace	.03	None
2273	240 - 250	10	.002	Trace	.03	None
2274	250 - 260	10	.002	Trace	.02	None
2275	260 - 270	10	.002	Trace	.01	None
2276	270 - 280	10	.002	Trace	.02	0.1
2277	280 - 290	10	.002	Trace	.02	None
2278	290 - 300	10	.001	Trace	.02	None
2279	300 - 310	10	.004	Trace	.03	None
2280	310 - 320	10	.002	Trace	.02	None
2281	320 - 330	10	.002	0.015	.02	0.2
2282	330 - 340	10	.002	Trace	.02	None
2283	340 - 350	10	.003	None	.03	None
2284	350 - 360	10	.006	Trace	.02	0.2
2285	360 - 370	10	.002	Trace	.02	None
2286	370 - 380	10	.005	Trace	.02	None
2287	380 - 390	10	.004	Trace	.05	0.2
2288	390 - 400	10	.004	Trace	.04	None
2289	400 - 410	10	.006	Trace	.04	None
2290	410 - 420	10	.004	Trace	.03	None

LOVITT MINE

Hole 75-LV-30

(continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>		<u>Ag oz/ton</u>	
			<u>CMS</u>	<u>Union</u>	<u>CMS</u>	<u>Union</u>
75-LV-2291	420 - 430	10	.004	Trace	.02	None
2292	430 - 440	10	.006	Trace	.04	None
2293	440 - 450	10	.004	Trace	.02	0.1
2294	450 - 460	10	.002	Trace	.03	None
2295	460 - 470	10	.003	None	.03	None
2296	470 - 480	10	.003	Trace	.02	None
2297	480 - 490	10	.002	Trace	.04	0.1
2298	490 - 500	10	.006	Trace	.03	0.1
2299	500 - 510	10	.004	Trace	.02	None
2300	510 - 520	10	.007	Trace	.02	0.1
2301	520 - 530	10	.003	Trace	.04	0.1
2302	530 - 540	10	.002	Trace	.03	0.1
2303	540 - 550	10	.003	Trace	.04	0.1
2304	550 - 560	10	.003	None	.01	None
2305	560 - 570	10	.003	None	.02	0.1
2306	570 - 580	10	.008	Trace	.03	0.1
2307	580 - 590	10	.002	Trace	.02	None
2308	590 - 600	10	.005	Trace	.03	None
2309	600 - 610	10	.002	Trace	.02	0.3
2310	610 - 620	10	.004	Trace	.02	0.2
2311	620 - 630	10	.005	Trace	.04	None
2312	630 - 640	10	.005	Trace	.02	0.1
2313	640 - 650	10	.002	Trace	.04	None
2314	650 - 660	10	.004	Trace	.04	0.1
2315	660 - 670	10	.007	0.010	.02	None
2316	670 - 680	10	.008	0.005	.03	None
2317	680 - 690	10	.005	0.010	.03	None
2318	690 - 700	10	.002	Trace	.02	0.1
2319	700 - 710	10	.003	None	.01	None
2320	710 - 720	10	.005	Trace	.02	None
2321	720 - 730	10	.003	Trace	.01	None
2322	730 - 740	10	.002	None	.01	0.1
2323	740 - 750	10	.004	None	.02	None
2324	750 - 760	10	.003	Trace	.02	None
2325	760 - 770	10	.004	None	.02	0.1
2326	770 - 780	10	.002	None	.01	None
2327	780 - 790	10	.003	None	.01	None
2328	790 - 800	10	.002	None	.02	0.1
2329	800 - 810	10	.001	None	.01	None
2330	810 - 820	10	.002	None	.02	None
2331	820 - 825	5	.003	Trace	.01	None

LOVITT MINE

Hole 75-LV-31

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>			<u>Ag oz/ton</u>		
			<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>	<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>
75-LV-2332	20 - 30	10	.002	None	< 0.01	.01	None	0.02
2333	30 - 40	10	.002	None	< 0.01	.03	0.1	0.16
2334	40 - 50	10	<.001	None	< 0.01	.02	None	0.18
2335	50 - 60	10	<.001	None	< 0.01	.02	None	Tr
2336	60 - 70	10	.001	None	< 0.01	.02	0.1	Tr
2337	70 - 80	10	.001	None	< 0.01	.02	0.2	0.02
2338	80 - 90	10	.002	None	< 0.01	.03	None	Tr
2339	90 - 100	10	.001	None	< 0.01	.01	0.1	0.22
2340	100 - 110	10	<.001	None	< 0.01	.02	0.1	Tr
2341	110 - 120	10	<.001	None	< 0.01	.02	0.1	0.14
2342	120 - 130	10	.001	None	< 0.01	.02	None	Tr
2343	130 - 140	10	<.001	None	< 0.01	.03	0.1	Tr
2344	140 - 150	10	.001	None	< 0.01	.01	None	0.14
2345	150 - 160	10	<.001	None	< 0.01	.01	None	Tr
2346	160 - 170	10	<.001	None	< 0.01	.02	0.1	0.14
2347	170 - 180	10	.001	None	< 0.01	.01	None	0.08
2348	180 - 190	10	<.001	None	< 0.01	.03	0.2	0.12
2349	190 - 200	10	<.001	None	< 0.01	.01	0.1	Tr
2350	200 - 210	10	.008	0.020	0.016	.02	0.1	Tr
2351	210 - 220	10	.002	None	< 0.01	.01	None	0.12
2352	220 - 230	10	<.001	None	< 0.01	.01	None	Tr
2353	230 - 240	10	.003	None	< 0.01	.02	None	Tr
2354	240 - 250	10	.004	Trace	< 0.01	.01	0.1	Tr
2355	250 - 260	10	<.001	None	< 0.01	.02	None	Tr
2356	260 - 270	10	.006	0.010	0.010	.01	0.1	0.12
2357	270 - 280	10	.004	Trace	< 0.01	.01	0.1	Tr
2358	280 - 290	10	.006	Trace	< 0.01	.02	None	0.38
2359	290 - 300	10	.004	Trace	< 0.01	.03	0.1	0.02
2360	300 - 310	10	.003	Trace	< 0.01	.02	None	0.04
2361	310 - 320	10	.006	0.005		.01	None	
2362	320 - 330	10	.006	0.005		.02	None	
2363	330 - 340	10	.002	Trace		.01	None	
2364	340 - 350	10	.002	Trace		.02	0.1	
2365	350 - 360	10	.001	None		.01	None	
2366	360 - 370	10	.002	Trace		.02	None	
2367	370 - 380	10	.003	Trace		.01	None	
2368	380 - 390	10	.004	Trace		.01	None	
2369	390 - 400	10	.011	0.010		.01	None	
2370	400 - 410	10	.004	0.005		.02	None	

LOVITT MINE

Hole 75-LV-32

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2380	20 - 30	10	.011	Trace	< 0.01	.04	None	0.04
2381	30 - 40	10	.004	Trace	< 0.01	.02	0.1	0.10
2382	40 - 50	10	.003	Trace	0.018	.02	0.1	0.08
2383	50 - 60	10	.004	Trace	0.042	.03	None	0.14
2384	60 - 70	10	.007	Trace	< 0.01	.02	0.1	Tr
2385	70 - 80	10	.007	0.010	0.022	.04	0.2	0.06
2386	80 - 90	10	.006	Trace		.03	0.1	
2387	90 - 100	10	.005	Trace		.03	None	
2388	100 - 110	10	.006	Trace		.02	0.2	
2389	110 - 120	10	.009	Trace		.04	0.1	
2390	120 - 130	10	.007	Trace		.05	0.2	
2391	130 - 140	10	.011	Trace		.02	None	
2392	140 - 150	10	.008	Trace		.02	None	
2393	150 - 160	10	.003	None		.02	None	
2394	160 - 170	10	.010	Trace		.01	0.1	
2395	170 - 180	10	.013	0.010		.01	0.1	
2396	180 - 190	10	.008	Trace		.03	None	
2397	190 - 200	10	.009	0.010		.03	0.1	
2398	200 - 210	10	.005	Trace		.03	None	
2399	210 - 220	10	.007	Trace		.03	0.1	
2400	220 - 230	10	.004	Trace		.02	0.1	
2401	230 - 240	10	.006	Trace		.02	0.1	
2402	240 - 250	10	.003	Trace		.03	0.1	
2403	no sample							
2404	no sample							
2405	250 - 260	10	.002	Trace		.02	None	
2406	260 - 270	10	.005	Trace		.03	None	
2407	270 - 280	10	.004	Trace		.02	None	
2408	280 - 285	5	.003	Trace		.02	0.1	
2409	285 - 290	5	.008	Trace		.01	0.1	
2410	290 - 300	10	.003	Trace		.03	None	
2411	300 - 310	10	.001	Trace		.03	0.1	
2412	310 - 320	10	.001	Trace		.02	None	
2413	320 - 330	10	.002	Trace		.02	0.1	
2414	330 - 340	10	.006	Trace		.02	0.1	
2415	340 - 350	10	.005	Trace		.02	0.1	
2416	350 - 360	10	.007	Trace		.04	0.1	
2417	360 - 370	10	.002	Trace		.02	None	
2418	370 - 380	10	.003	None		.02	None	

LOVITT MINE

Hole 75-LV-33

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2434	20 - 30	10	.002	None	<0.01	.04	None	0.02
2435	30 - 40	10	.002	None	<0.01	.03	0.1	0.12
2436	40 - 50	10	.001	None	<0.01	.04	None	Tr
2437	50 - 60	10	.004	Trace	<0.01	.05	0.1	0.24
2438	60 - 70	10	.003	Trace	<0.01	.03	0.2	0.10
2439	70 - 80	10	.002	Trace	<0.01	.04	None	Tr
2440	80 - 90	10	.001	Trace	<0.01	.05	None	0.15
2441	90 - 100	10	.002	None	<0.01	.02	None	Tr/0.10
2442	100 - 110	10	.002	0.010	<0.01	.04	0.1	0.07
2443	110 - 120	10	.004	Trace	<0.01	.04	0.1	Tr/0.26
2444	120 - 130	10	.002	Trace	<0.01	.04	0.1	0.06
2445	130 - 140	10	.002	Trace	<0.01	.03	0.1	0.04
2446	140 - 150	10	.002	Trace	<0.01	.06	None	Tr
2447	150 - 160	10	.010	0.015	0.014	.04	None	Tr
2448	160 - 170	10	.008	0.015	<0.01	.05	None	Tr
2449	170 - 180	10	.017	Trace	0.01	.06	None	Tr
2450	180 - 190	10	.022	0.025	0.024	.06	0.1	Tr/0.26
2451	190 - 200	10	.009	0.015	<0.01	.05	None	Tr
2452	200 - 210	10	.009	0.010	0.010	.05	0.2	0.18
2453	210 - 220	10	.032	0.030	0.032	.08	0.3	Tr
2454	220 - 230	10	.008	0.010	0.020	.06	0.1	Tr
2455	230 - 240	10	.002	Trace	<0.01	.04	None	Tr
2456	240 - 250	10	.002	Trace	<0.01	.05	None	0.28
2457	250 - 260	10	.004	Trace	<0.01	.04	0.1	Tr
2458	260 - 270	10	.008	Trace	<0.01	.06	None	Tr
2459	270 - 280	10	.007	0.010	0.010	.06	None	0.26
2460	280 - 290	10	.018	0.020	0.020	.06	None	0.26
2461	290 - 300	10	.005	Trace	<0.01	.03	None	0.10
2462	300 - 310	10	.010	0.010	<0.01	.03	None	0.08
2463	310 - 320	10	.005	0.010	<0.01	.02	None	Tr
2464	320 - 330	10	.025	0.030	<0.01	.04	None	0.20
2465	330 - 340	10	.024	0.030	<0.01	.03	0.2	0.24
2466	340 - 350	10	.012	0.005	<0.01	.02	0.3	0.02
2467	350 - 360	10	.011	0.010	<0.01	.05	0.1	0.06
2468	360 - 370	10	.014	0.020	<0.01	.07	0.2	0.06
2469	370 - 380	10	.011	0.020	<0.01	.03	None	Tr
2470	380 - 390	10	.008	0.010	<0.01	.04	0.1	Tr
2471	390 - 400	10	.008	Trace	<0.01	.05	None	0.28

LOVITT MINE

Hole 75-LV-34

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2505	20 - 30	10	.013	0.010	0.010	.05	None	0.02
2506	30 - 40	10	.008	0.010	0.010	.05	0.1	0.30
2507	40 - 50	10	.010	0.010	< 0.01	.03	0.1	0.22
2508	50 - 60	10	.047	0.040	0.010	.23	0.3	0.32
2509	60 - 70	10	.038	0.040	< 0.01	.16	0.1	0.28
2510	70 - 80	10	.011	0.020	< 0.01	.08	0.1	0.30
2511	80 - 90	10	.014	0.010	< 0.01	.06	0.1	0.12
2512	90 - 100	10	.004	0.005	< 0.01	.06	None	0.08
2513	100 - 110	10	< .001	Trace	< 0.01	.01	None	Tr
2514	110 - 120	10	< .001	0.005	< 0.01	.01	None	0.10
2515	120 - 130	10	.001	Trace	< 0.01	.03	None	Tr
2516	130 - 140	10	.001	Trace	< 0.01	.04	None	Tr
2517	140 - 150	10	.001	Trace	< 0.01	.03	None	0.08
2518	150 - 160	10	.004	0.005	< 0.01	.03	None	Tr
2519	160 - 170	10	.002	0.005	< 0.01	.02	None	Tr
2520	170 - 180	10	.004	Trace	< 0.01	.03	None	Tr
2521	180 - 190	10	.002	Trace	< 0.01	.03	None	Tr
2522	190 - 200	10	.002	Trace	< 0.01	.04	None	Tr
2523	200 - 210	10	< .001	Trace	< 0.01	.02	None	Tr
2524	210 - 220	10	.003	0.005	< 0.01	.02	None	Tr
2525	220 - 230	10	.002	Trace	< 0.01	.02	None	Tr
2526	230 - 240	10	.002	Trace	< 0.01	.03	None	0.02
2527	240 - 250	10	.001	Trace	< 0.01	.02	None	0.06
2528	250 - 260	10	.007	0.005	< 0.01	.02	None	0.20
2529	260 - 270	10	.002	Trace	< 0.01	.03	None	Tr
2530	270 - 280	10	.003	0.005	< 0.01	.02	None	Tr
2531	280 - 290	10	.003	Trace	< 0.01	.03	None	0.18
2532	290 - 300	10	.004	0.005	< 0.01	.04	None	0.28
2533	300 - 310	10	.003	Trace	< 0.01	.04	None	0.22
2534	310 - 320	10	.005	0.005	< 0.01	.04	None	0.02
2535	320 - 330	10	.003	0.005	< 0.01	.04	None	Tr
2536	330 - 340	10	.004	Trace	< 0.01	.03	0.1	0.02
2537	340 - 350	10	.006	Trace	< 0.01	.03	None	0.26
2538	350 - 360	10	.006	0.005	< 0.01	.03	None	Tr
2539	360 - 370	10	.008	0.005	< 0.01	.03	None	Tr
2540	370 - 380	10	.023	0.020	< 0.01	.06	None	Tr
2541	380 - 390	10	.002	Trace	< 0.01	.04	None	Tr
2542	390 - 400	10	.018	0.030	< 0.01	.03	0.1	Tr

LOVITT MINE

Hole 75-LV-35

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>			<u>Ag oz/ton</u>		
			<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>	<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>
75-LV-2576	20 - 30	10						
2577	30 - 40	10						
2578	40 - 50	10						
2579	50 - 60	10						
2580	60 - 70	10	.002	None < 0.01		.04	None	Tr
2581	70 - 80	10						
2582	80 - 90	10						
2583	90 - 100	10						
2584	100 - 110	10						
2585	110 - 120	10	.001	Trace < 0.01		.04	None	0.18
2586	120 - 130	10						
2587	130 - 140	10						
2588	140 - 150	10						
2589	150 - 160	10						
2590	160 - 170	10	< .001	None < 0.01		.04	None	Tr
2591	170 - 180	10						
2592	180 - 190	10						
2593	190 - 200	10						
2594	200 - 210	10						
2595	210 - 220	10	.002	Trace < 0.01		.05	None	Tr
2596	220 - 230	10						
2597	230 - 240	10						
2598	240 - 250	10						
2599	250 - 260	10						
2600	260 - 270	10	.002	0.005 < 0.01		.05	None	0.30
2601	270 - 280	10						
2602	280 - 290	10						
2603	290 - 300	10						
2604	300 - 310	10						
2605	310 - 320	10	.001	Trace < 0.01		.05	None	Tr
2606	320 - 330	10						
2607	330 - 340	10						
2608	340 - 350	10						
2609	350 - 360	10						
2610	360 - 370	10	.002	0.005 < 0.01		.06	0.2	0.08
2611	370 - 380	10						
2612	380 - 390	10						
2613	390 - 400	10						
2614	400 - 410	10						
2615	410 - 420	10	.002	Trace < 0.01		.05	None	0.04

LOVITT MINE

Hole 75-LV-35
(continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>			<u>Ag oz/ton</u>		
			<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>	<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>
75-LV-2616	420 - 430	10						
2617	430 - 440	10						
2618	440 - 450	10						
2619	450 - 460	10						
2620	460 - 470	10	.002	Trace	< 0.01	.06	0.1	0.10
2621	470 - 480	10						
2622	480 - 490	10						
2623	490 - 500	10						
2624	500 - 505	5	.007	0.005	< 0.01	.05	0.1	0.16

LOVITT MINE

Hole 75-LV-36

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2625	20 - 30	10	.002	Trace	< 0.01	.04	None	0.12
2626	30 - 40	10	.002	Trace	< 0.01	.04	None	0.32
2627	40 - 50	10	.003	Trace	< 0.01	.03	0.1	Tr
2628	50 - 60	10	.003	Trace	< 0.01	.03	None	0.20
2629	60 - 70	10	.002	Trace	< 0.01	.04	None	Tr
2630	70 - 80	10	.002	None	< 0.01	.04	None	Tr
2631	80 - 90	10	.001	None	< 0.01	.04	None	0.10
2632	90 - 100	10	.002	None	< 0.01	.04	0.1	0.08
2633	100 - 110	10	.004	None	< 0.01	.05	0.2	Tr
2633	110 - 120	10	.002	None	< 0.01	.03	None	0.12
2635	120 - 130	10	.002	Trace	< 0.01	.04	0.1	0.02
2636	130 - 140	10	.001	Trace	< 0.01	.02	0.1	0.06
2637	140 - 150	10	.002	Trace	< 0.01	.05	None	0.14
2638	150 - 160	10	.001	Trace	< 0.01	.04	None	Tr
2639	160 - 170	10	.002	Trace	< 0.01	.04	None	Tr
2640	170 - 180	10	.002	Trace	< 0.01	.03	None	Tr
2641	180 - 190	10	.004	Trace	< 0.01	.03	None	Tr
2642	190 - 200	10	.003	Trace	< 0.01	.05	None	0.10
2643	200 - 210	10	.004	Trace	< 0.01	.04	None	0.28
2644	210 - 220	10	.004	Trace	< 0.01	.05	None	Tr
2645	220 - 230	10	.003	None	< 0.01	.03	0.1	0.04
2646	230 - 240	10	.002	None	< 0.01	.04	None	Tr
2647	240 - 250	10	.001	Trace	< 0.01	.02	None	Tr
2648	250 - 260	10	.004	Trace	< 0.01	.04	None	0.14
2649	260 - 270	10	.002	Trace	< 0.01	.02	0.1	0.18
2650	270 - 280	10	.003	Trace	< 0.01	.04	0.1	Tr
2651	280 - 290	10	.001	None	< 0.01	.02	None	Tr
2652	290 - 300	10	.001	None	< 0.01	.04	None	0.02
2653	300 - 310	10	<.001	None	< 0.01	.03	0.2	Tr
2654	310 - 320	10	.004	0.010	< 0.01	.04	0.1	0.06
2655	320 - 330	10	.002	Trace	< 0.01	.02	None	0.44
2656	330 - 340	10	.003	None	< 0.01	.05	None	Tr
2657	340 - 350	10	.002	None	< 0.01	.03	0.1	0.12
2658	350 - 360	10	.001	Trace	< 0.01	.02	None	0.06
2659	360 - 370	10	.002	Trace	< 0.01	.02	None	Tr
2660	370 - 380	10	.002	Trace	< 0.01	.03	None	Tr
2661	380 - 390	10	.002	Trace	< 0.01	.05	None	0.06
2662	390 - 400	10	.002	None	< 0.01	.03	0.1	Tr
2663	400 - 410	10	.004	Trace	< 0.01	.05	None	0.80
2664	410 - 420	10	.005	Trace	< 0.01	.04	None	0.06
2665	420 - 430	10	.008	Trace	< 0.01	.07	0.1	Tr
2666	430 - 440	10	.010	Trace	< 0.01	.07	None	0.26

LOVITT MINE

Hole 75-LV-36
(continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>			<u>Ag oz/ton</u>		
			<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>	<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>
75-LV-2667	440 - 450	10	.008	0.010	<0.01	.06	0.1	0.02
2668	450 - 460	10	.007	0.010	<0.01	.07	0.1	0.06
2669	460 - 470	10	.005	0.010	<0.01	.03	0.1	0.14
2670	470 - 480	10	.005	0.010	<0.01	.04	None	0.10
2671	480 - 490	10	.002	Trace	<0.01	.03	None	0.08
2672	490 - 500	10	.004	Trace	<0.01	.05	None	0.08

LOVITT MINE

Hole 75-LV-38

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2708	20 - 30	10	<.001	None	<0.01	.01	None	0.02
2709	30 - 40	10						
2710	40 - 50	10						
2711	50 - 60	10						
2712	60 - 70	10	<.001	None	<0.01	.02	None	Tr
2713	70 - 80	10						
2714	80 - 90	10						
2715	90 - 100	10						
2716	100 - 110	10						
2717	110 - 120	10	.002	None	<0.01	.03	None	Tr
2718	120 - 130	10						
2719	130 - 140	10						
2720	140 - 150	10						
2721	150 - 160	10						
2722	160 - 170	10	.001	None	<0.01	.02	None	0.20
2723	170 - 180	10						
2724	180 - 190	10						
2725	190 - 200	10						
2726	200 - 210	10						
2727	210 - 220	10	.001	None	<0.01	.02	None	Tr
2728	220 - 230	10	<.001	None	<0.01	.01	0.1	Tr
2729	230 - 240	10	<.001	None	<0.01	.02	None	Tr
2730	240 - 250	10	.001	None	<0.01	.03	None	0.14
2731	250 - 260	10	<.001	None	<0.01	.03	None	0.16
2732	260 - 270	10	.001	None	<0.01	.02	None	0.32
2733	270 - 280	10	.002	None	<0.01	.03	0.2	0.20
2734	280 - 290	10	.001	Trace	<0.01	.05	None	Tr
2735	290 - 300	10	.002	None	<0.01	.06	None	Tr
2736	300 - 310	10	.002	None	<0.01	.06	0.1	Tr
2737	310 - 320	10	.001	None	<0.01	.06	0.1	0.16
2738	320 - 330	10	.001	None	<0.01	.05	None	Tr
2739	330 - 340	10	.003	None	<0.01	.02	None	Tr
2740	340 - 350	10	.002	None	<0.01	.03	None	0.12
2741	350 - 360	10	<.001	None	<0.01	.02	None	0.12
2742	360 - 370	10	<.001	None	<0.01	.02	0.1	Tr
2743	370 - 380	10	<.001	None	<0.01	.03	None	Tr
2744	380 - 390	10	<.001	None	<0.01	.05	0.1	0.04
2745	390 - 400	10	<.001	None	<0.01	.04	None	0.18
2746	400 - 410	10	<.001	None	<0.01	.04	None	0.40
2747	410 - 420	10	.001	None	<0.01	.05	None	0.18
2748	420 - 430	10	.002	None	<0.01	.03	0.2	Tr

LOVITT MINE

Hole 75-LV-39

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2749	20 - 30	10						
2750	30 - 40	10	.001	None	< 0.01	.05	0.2	0.20
2751	40 - 50	10						
2752	50 - 60	10						
2753	60 - 70	10						
2754	70 - 80	10	.002	None	< 0.01	.05	0.1	0.22
2755	80 - 90	10						
2756	90 - 100	10						
2757	100 - 110	10						
2758	110 - 120	10	.001	None	< 0.01	.03	None	0.20
2759	120 - 130	10						
2760	130 - 140	10						
2761	140 - 150	10						
2762	150 - 160	10	.003	None	< 0.01	.04	None	0.16
2763	160 - 170	10						
2764	170 - 180	10						
2765	180 - 190	10	.002	None	< 0.01	.02	0.2	0.04
2766	190 - 200	10	.002	None	< 0.01	.04	0.2	0.18
2767	200 - 210	10	.003	None	< 0.01	.06	0.1	0.26
2768	210 - 220	10	.002	None	< 0.01	.04	None	0.34
2769	220 - 230	10	.001	None	< 0.01	.03	0.1	0.20
2770	230 - 240	10	.002	None	< 0.01	.06	0.2	0.08
2771	240 - 250	10	.001	None	< 0.01	.06	None	0.08
2772	250 - 260	10	.001	None	< 0.01	.04	None	Tr
2773	260 - 270	10	< .001	None	< 0.01	.06	None	0.28
2774	270 - 280	10	< .001	None	< 0.01	.02	None	0.12
2775	280 - 290	10	.003	None	< 0.01	.02	0.1	Tr
2776	290 - 300	10	.002	None	< 0.01	.02	0.2	0.04
2777	300 - 310	10	< .001	None	< 0.01	.03	0.1	Tr
2778	310 - 320	10	< .001	None	< 0.01	.03	None	0.14
2779	320 - 330	10	.001	None	< 0.01	.03	0.1	Tr
2780	330 - 340	10	.001	None	< 0.01	.02	0.1	Tr
2781	340 - 350	10	< .001	None	< 0.01	.02	0.1	0.14
2782	350 - 360	10	.002	None	< 0.01	.03	0.1	0.02
2783	360 - 370	10	.001	Trace	< 0.01	.01	None	Tr
2784	370 - 380	10	.001	None	< 0.01	.02	None	Tr
2785	380 - 390	10	.002	None	< 0.01	.03	None	0.16
2786	390 - 400	10	.002	None	< 0.01	.02	0.1	Tr
2787	400 - 410	10	.003	Trace	< 0.01	.02	None	1.10

LOVITT MINE

Hole 75-LV-40

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2788	20 - 30	10						
2789	30 - 40	10						
2790	40 - 50	10						
2791	50 - 60	10						
2792	60 - 70	10						
2793	70 - 80	10	.001	Trace	< 0.01	.02	0.1	0.06
2794	80 - 90	10						
2795	90 - 100	10						
2796	100 - 110	10						
2797	110 - 120	10						
2798	120 - 130	10	.002	Trace	< 0.01	.02	0.1	Tr
2799	130 - 140	10	< .001	None	< 0.01	.03	0.1	0.12
2800	140 - 150	10	< .001	None	< 0.01	.03	None	Tr
2801	150 - 160	10	.001	Trace	< 0.01	.02	0.1	Tr
2802	160 - 170	10	.001	None	< 0.01	.02	0.1	Tr
2803	170 - 180	10	< .001	None	< 0.01	.03	0.1	Tr
2804	180 - 190	10	< .001	None	< 0.01	.02	None	Tr
2805	190 - 200	10	.002	None	< 0.01	.02	None	Tr
2806	200 - 210	10	.002	None	< 0.01	.01	0.1	Tr
2807	210 - 220	10	.002	0.005	< 0.01	.03	None	Tr
2808	220 - 230	10	.002	Trace	< 0.01	.01	None	Tr
2809	230 - 240	10	.001	Trace	< 0.01	.01	0.1	0.04
2810	240 - 250	10	.004	Trace	< 0.01	.02	None	Tr
2811	250 - 260	10	.004	Trace	< 0.01	.02	0.1	Tr
2812	260 - 270	10	.004	Trace	< 0.01	.02	None	Tr
2813	270 - 280	10	< .001	Trace	< 0.01	.01	None	Tr
2814	280 - 290	10	.002	None	< 0.01	.02	0.2	Tr
2815	290 - 300	10	.003	Trace	< 0.01	.01	0.1	Tr
2816	300 - 310	10	.004	Trace	< 0.01	.03	None	0.02

LOVITT MINE

Hole 75-LV-41

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>		<u>Cyprus</u>	<u>Ag oz/ton</u>		
			<u>CMS</u>	<u>Union</u>		<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>
75-LV-2817	20 - 30	10	.001	None	<0.01	.02	0.2	0.04
2818	30 - 40	10	.002	Trace	<0.01	.02	0.1	0.02
2819	40 - 50	10	<.001	None	<0.01	.02	None	0.32
2820	50 - 60	10	.002	Trace	<0.01	.04	None	Tr
2821	60 - 70	10	.001	Trace	<0.01	.03	0.1	Tr
2822	70 - 80	10	<.001	Trace	<0.01	.03	None	0.22
2823	80 - 90	10	<.001	Trace	<0.01	.02	None	0.18
2824	90 - 100	10	<.001	None	<0.01	.02	0.1	0.18
2825	100 - 110	10	<.001	None	<0.01	.02	0.1	Tr
2826	110 - 120	10	.002	None	<0.01	.02	None	Tr
2827	120 - 130	10	<.001	Trace	<0.01	.02	None	Tr
2828	130 - 140	10	<.001	Trace	<0.01	.02	None	Tr
2829	140 - 150	10	<.001	Trace	<0.01	.04	None	0.08
2830	150 - 160	10	.001	None	<0.01	.03	None	Tr
2831	160 - 170	10	.001	Trace	<0.01	.02	0.1	0.28
2832	170 - 180	10	<.001	None	<0.01	.03	None	0.10
2833	180 - 190	10	.002	Trace	<0.01	.03	None	Tr
2834	190 - 200	10	.001	Trace	<0.01	.02	None	Tr
2835	200 - 210	10	<.001	None	<0.01	.02	0.2	Tr
2836	210 - 220	10	.002	None	<0.01	.02	0.1	Tr
2837	220 - 230	10	<.001	None	<0.01	.02	None	Tr

LOVITT MINE

Hole 75-LV-42
(continued)

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>			<u>Ag oz/ton</u>		
			<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>	<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>
75-LV-2878	420 - 430	10	.004	Trace	<0.01	.02	None	0.16
2879	430 - 440	10	.004	None	<0.01	.02	None	Tr
2880	440 - 450	10	.003	Trace	<0.01	.03	0.1	0.32
2881	450 - 460	10						
2882	460 - 470	10						
2883	470 - 480	10						
2884	480 - 490	10						
2885	490 - 500	10	.001	None	<0.01	.02	None	0.04
2886	500 - 510	10	.002	Trace	<0.01	.02	None	0.32

LOVITT MINE

Hole 75-LV-43

Sample No.	Interval	Footage	Au oz/ton		Ag oz/ton			
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2887	20 - 30	10	.017	0.020	0.016	.04	0.2	0.04
2888	30 - 40	10	.020	0.025	0.012	.05	0.1	0.08
2889	40 - 50	10	.017	0.020	0.010	.06	None	Tr
2890	50 - 60	10	.008	0.005	< 0.01	.03	0.2	0.34
2891	60 - 70	10	.010	0.010	0.020	.02	None	0.06
2892	70 - 80	10	.013	0.020	0.020	.04	0.1	0.20
2893	80 - 90	10	.006	0.005	< 0.01	.03	None	0.20
2894	90 - 100	10	.002	Trace	< 0.01	.02	0.1	0.08
2895	100 - 110	10	.002	Trace	< 0.01	.01	None	Tr
2896	110 - 120	10						
2897	120 - 130	10						
2898	130 - 140	10						
2899	140 - 150	10						
2900	150 - 160	10						
2901	160 - 170	10	< .001	Trace	< 0.01	.03	None	0.08
2902	170 - 180	10						
2903	180 - 190	10						
2904	190 - 200	10						
2905	200 - 210	10						
2906	210 - 220	10						
2907	220 - 230	10	< .001	Trace	< 0.01	.03	None	Tr

LOVITT MINE

Hole 75-LV-44

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>			<u>Ag oz/ton</u>		
			<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>	<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>
75-LV-2908	20 - 30	10	.007	0.005	0.01	.03	None	Tr
2909	30 - 40	10	.060	0.050	0.060	.13	0.2	Tr
2910	40 - 50	10	.053	0.050	0.048	.30	0.3	0.40
2911	50 - 60	10	.147	0.080	0.104	.26	0.3	Tr/0.10
2912	60 - 70	10	.071	0.065	<0.01	.27	0.4	0.46
2913	70 - 80	10	.114	0.090	0.095	.32	0.2	0.42
2914	80 - 90	10 (820)	.885	0.790	0.790	1.19	1.2	1.05
2915	90 - 100	10	.026	0.010	0.018	.06	0.2	0.18
2916	100 - 110	10	.004	Trace	<0.01	.03	None	0.14
2917	110 - 120	10	.006	Trace	<0.01	.03	0.2	Tr
2918	120 - 130	10	.004	Trace	<0.01	.03	0.1	0.12
2919	130 - 140	10	.001	Trace	<0.01	.02	0.1	Tr
2920	140 - 150	10	<.001	Trace	<0.01	.02	0.1	Tr
2921	150 - 160	10	.001	Trace	<0.01	.03	None	0.08
2922	160 - 170	10	.002	Trace	<0.01	.03	None	Tr

LOVITT MINE

Hole 75-LV-45

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2923	20 - 30	10						
2924	30 - 40	10	.001	Trace	<0.01	.03		
2925	40 - 50	10	.004	Trace	<0.01	.03	None	Tr
2926	50 - 60	10	.002	Trace	<0.01	.04	None	Tr
2927	60 - 70	10	.001	Trace	<0.01	.03	0.1	0.04
2928	70 - 80	10	.001	Trace	<0.01	.03	0.1	0.30
2929	80 - 90	10	.006	0.005	0.014	.05	0.1	0.22
2930	90 - 100	10	.011	Trace	<0.01	.04	0.2	0.10
2931	100 - 110	10	.004	Trace	<0.01	.04	None	Tr
2932	110 - 120	10					None	Tr
2933	120 - 130	10						
2934	130 - 140	10						
2935	140 - 150	10						
2936	150 - 160	10						
2937	160 - 170	10	<.001	None	<0.01	.03	None	0.04
2938	170 - 180	10						
2939	180 - 190	10						
2940	190 - 200	10						
2941	200 - 210	10						
2942	210 - 220	10						
2943	220 - 230	10	.004	Trace	<0.01	.03	0.1	0.02
2944	230 - 240	10						
2945	240 - 250	10	.003	Trace	<0.01	.02	None	Tr
2946	250 - 260	10						
2947	260 - 270	10						
2948	270 - 280	10	.002	Trace	<0.01	.03	0.1	Tr
2949	280 - 290	10						
2950	290 - 300	10						
2951	300 - 310	10	.002	Trace	<0.01	.03	0.1	Tr

LOVITT MINE

Hole 75-LV-46

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2952	20 - 30	10	.005	0.005	0.01	.02	0.1	0.08
2953	30 - 40	10	.010	0.015	0.010	.02	0.1	Tr
2954	40 - 50	10	.007	0.010	0.01	.05	0.1	Tr
2955	50 - 60	10	.011	0.010	0.010	.05	0.1	Tr
2956	60 - 70	10	.008	0.010	<0.01	.05	None	0.12
2957	70 - 80	10	.010	0.010	<0.01	.07	0.1	0.24
2958	80 - 90	10	.007	0.005	<0.01	.04	None	0.04
2959	90 - 100	10	.005	0.005	<0.01	.03	0.1	0.02
2960	100 - 110	10	.003	Trace	<0.01	.02	None	0.04
2961	110 - 120	10	.002	Trace	<0.01	.03	None	Tr
2962	120 - 130	10	.004	Trace	<0.01	.03	None	Tr
2963	130 - 140	10	.005	0.010	<0.01	.06	None	Tr
2964	140 - 150	10	.008	0.010	<0.01	.08	0.2	0.34
2965	150 - 160	10	.017	0.020	0.018	.11	None	Tr
2966	160 - 170	10	.010	0.015	<0.01	.08	None	0.06
2967	170 - 180	10	.018	0.020	<0.01	.05	0.1	0.14
2968	180 - 190	10	.008	0.010	<0.01	.06	0.2	0.02
2969	190 - 200	10	.005	0.005	<0.01	.04	0.1	0.18
2970	200 - 210	10	.005	0.005	<0.01	.05	0.2	Tr
2971	210 - 220	10	.004	0.005	<0.01	.03	None	Tr
2972	220 - 230	10	.080	0.100	0.106	.09	0.2	Tr/0.06
2973	230 - 240	10	.006	0.010	0.012	.05	None	Tr
2974	240 - 250	10	.006	0.005	0.010	.05	0.2	Tr
2975	250 - 260	10	.009	0.005	<0.01	.04	None	0.08
2976	260 - 270	10	.009	0.005	<0.01	.05	None	Tr
2977	270 - 280	10	.006	0.005	<0.01	.04	0.1	Tr
2978	280 - 290	10	.002	0.005	<0.01	.03	None	Tr
2979	290 - 300	10	.004	0.010	<0.01	.02	0.1	Tr
2980	300 - 310	10	.001	Trace	<0.01	.02	0.2	0.02
2981	310 - 320	10	.004	0.010	0.010	.01	None	Tr
2982	320 - 330	10	.004	0.010	<0.01	.02	0.2	0.34
2983	330 - 340	10	.004	0.005	<0.01	.02	0.1	0.12
2984	340 - 350	10	.002	0.005	<0.01	.02	None	Tr

LOVITT MINE

LOVITT MINE

Hole 75-LV-47

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-2985	20 - 30	10						
2986	30 - 40	10	.020	0.015	0.014	.06	0.1	Tr
2987	40 - 50	10	.020	0.015 < 0.01		.06	None	0.12
2988	50 - 60	10	.010	0.015	0.014	.04	None	0.06
2989	60 - 70	10	.014	0.020 < 0.01		.06	0.1	Tr
2990	70 - 80	10	.015	0.020	0.020	.03	None	0.06
2991	80 - 90	10	.019	0.025	0.016	.09	0.3	Tr
2992	90 - 100	10	.062	0.090	0.016	.02	0.3	0.30
2993	100 - 110	10	.019	0.025 < 0.01		.06	0.1	0.46
2994	110 - 120	10	.017	0.025 < 0.01	0.020	.02	0.1	Tr
2995	120 - 130	10	.015	0.025 < 0.01		.06	0.2	0.06
2996	130 - 140	10	.004	0.005 < 0.01		.02	0.4	0.12
2997	140 - 150	10	.003	0.005 < 0.01		.02	None	0.26
2998	150 - 160	10	.004	0.005 < 0.01		.02	0.1	0.10
2999	160 - 170	10	.002	0.005 < 0.01		.05	None	0.36
3000	170 - 180	10	.001	0.005 < 0.01		.03	None	Tr
3001	180 - 190	10	.002	0.005 < 0.01		.02	None	Tr
3002	190 - 200	10	.002	0.005 < 0.01		.04	None	0.22
3003	200 - 210	10	.001	0.005	0.01	.02	None	Tr
3004	210 - 220	10	.002	Trace < 0.01		.02	None	0.18
3005	220 - 230	10	.002	Trace < 0.01		.01	None	Tr
3006	230 - 240	10	<.001	Trace < 0.01		.01	None	0.10
3007	240 - 250	10	<.001	Trace < 0.01		.01	None	0.02
			.004	None < 0.01		.02	None	Tr
				0.010 < 0.01			None	0.12

LOVITT MINE

Hole 75-LV-49

Sample No.	Interval	Footage	Au oz/ton			Ag oz/ton		
			CMS	Union	Cyprus	CMS	Union	Cyprus
75-LV-3023	20 - 30	10	.011	0.010	0.012	.02	0.2	0.12
3024	30 - 40	10	.011	0.010	<0.01	.02	0.1	Tr
3025	40 - 50	10	.004	None	<0.01	.02	0.2	0.04
3026	50 - 60	10	.002	None	<0.01	.02	None	Tr
3027	60 - 70	10	.001	None	<0.01	.01	0.2	0.08
3028	70 - 80	10	.002	None	<0.01	.02	None	Tr
3029	80 - 90	10	.010	Trace	<0.01	.02	None	Tr
3030	90 - 100	10	.009	0.010	<0.01	.05	0.3	0.04
3031	100 - 110	10	.011	0.010	<0.01	.02	None	Tr
3032	110 - 120	10	.008	0.010	<0.01	.04	None	0.16
3033	120 - 130	10	.002	0.005	<0.01	.02	None	0.38
3034	130 - 140	10	.002	None	<0.01	.03	None	0.10
3035	140 - 150	10	.001	None	<0.01	.02	None	Tr
3036	150 - 160	10	.001	None	<0.01	.04	0.2	Tr
3037	160 - 170	10	.003	None	<0.01	.03	None	0.08
3038	170 - 180	10	<.001	None	<0.01	.04	None	Tr
3039	180 - 190	10	<.001	None	<0.01	.03	0.2	Tr
3040	190 - 200	10	<.001	None	<0.01	.02	None	Tr
3041	200 - 210	10	.001	None	<0.01	.03	None	0.06
3042	210 - 220	10	.002	None	<0.01	.04	None	0.08
3043	220 - 230	10	.002	None	<0.01	.04	0.1	Tr

LOVITT MINE

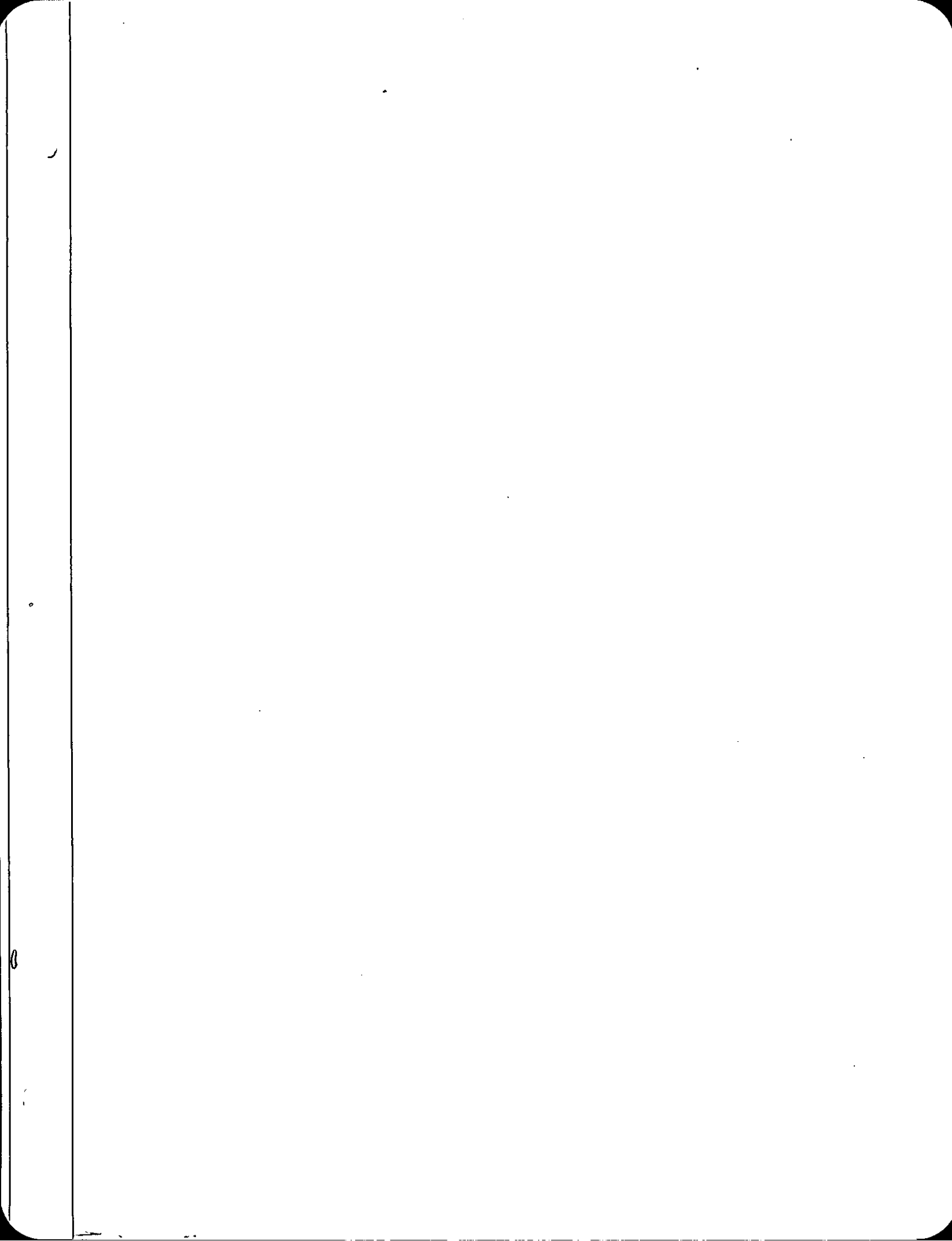
Hole 75-LV-50

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>			<u>Ag oz/ton</u>		
			<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>	<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>
75-LV-3044	20 - 30	10	.002	None	<0.01	.03	None	Tr
3045	30 - 40	10	.008	0.005	<0.01	.07	None	0.02
3046	40 - 50	10	.014	0.010	0.016	.06	None	0.10
3047	50 - 60	10	.006	0.005	<0.01	.06	0.1	Tr
3048	60 - 70	10	.007	0.005	<0.01	.04	None	0.30
3049	70 - 80	10	.005	0.005	<0.01	.06	None	Tr
3050	80 - 90	10	.004	Trace	<0.01	.05	0.2	0.06
3051	90 - 100	10	.001	Trace	<0.01	.06	None	0.04
3052	100 - 110	10	.002	Trace	<0.01	.04	0.2	Tr
3053	110 - 120	10	.001	Trace	<0.01	.04	None	0.02
3054	120 - 130	10	.001	Trace	<0.01	.02	None	Tr
3055	130 - 140	10	<.001	Trace	<0.01	.04	None	0.04
3056	140 - 150	10	<.001	Trace	<0.01	.04	0.2	Tr
3057	150 - 160	10	.002	Trace	<0.01	.02	None	Tr
3058	160 - 170	10	<.001	Trace		.02	None	
3059	170 - 180	10	<.001	None	<0.01	.01	0.2	0.22
3060	180 - 190	10	.001	None	<0.01	.03	0.1	Tr

LOVITT MINE

Hole 75-LV-51

<u>Sample No.</u>	<u>Interval</u>	<u>Footage</u>	<u>Au oz/ton</u>			<u>Ag oz/ton</u>		
			<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>	<u>CMS</u>	<u>Union</u>	<u>Cyprus</u>
75-LV-3061	10 - 20	10	.020	Trace	< 0.01	.05	None	Tr
3062	20 - 30	10	.001	None	< 0.01	.04	None	Tr
3063	30 - 40	10	.001	None	< 0.01	.01	None	0.12
3064	40 - 50	10	.001	None	< 0.01	.03	None	Tr
3065	50 - 60	10	.005	0.015	< 0.01	.05	None	Tr
3066	60 - 70	10	.002	None	< 0.01	.02	None	0.06
3067	70 - 80	10	.001	None		.02	None	
3068	80 - 90	10	<.001	None	< 0.01	.02	None	Tr
3069	90 - 100	10	<.001	None	< 0.01	.02	None	Tr
3070	100 - 110	10	<.001	None	< 0.01	.02	None	Tr
3071	110 - 120	10	.002	None	< 0.01	.04	None	Tr
3072	120 - 130	10	<.001	None	< 0.01	.03	None	Tr
3073	130 - 140	10	.001	None	< 0.01	.03	None	Tr
3074	140 - 150	10	.002	None	< 0.01	.03	None	Tr



APPENDIX E

PROPOSED PROGRAM AT LOVITT IN 1976

Just

MEMORANDUM

January 5, 1976

To: C. A. Mark
E. S. Allen

From: Joseph E. Worthington
Eberhard A. Schmidt

Subject: Proposed Program at Lovitt in 1976

The program as proposed for the Lovitt Gold Mine for 1976 at the recent meeting in Wenatchee on November 10th raises several points which should be considered before final approval of any program is granted. The proposal to consider leaching the Lovitt gold mineralization in place is intriguing and innovative, but it fails to consider all of the known facts about the deposit and as well makes assumptions about our total knowledge of the area which are not as yet proven. The current status of the program at Lovitt is that we have completed sufficient work to be satisfied that the tonnage and grade present as estimated by any of the three people thus far (Russell Chadwick, Oskar Kortan or S. K. Garrett) represents an ore deposit of significance to Cyprus. We do not, however, have sufficient information on the total size of the deposit, grade, mineralogy, geometry (and resulting possible stripping ratio), or problems related to environmental or legislative technicalities make plans at the present time for mining. I believe it premature to consider only one mining system and unnecessarily pessimistic to view the potential size of the deposit as six to nine million tons. The financial commitments during 1976 through 1978 that were necessary to bring the properties under Cyprus control exercise a stern discipline over our program. They require that the Lovitt program be pursued as aggressively as possible with the objective of profitable production at the maximum profitability at the earliest possible time. A program that minimizes the potential of the Lovitt ore zones and neglects other aspects of the deposit is clearly inadequate for present Corporate purposes. A more detailed discussion of the various points raised will be presented in the following paragraphs.

Alteration and Mineralogy

The alteration features accompanying gold mineralization at the Lovitt mine proper and at "B" reef differ considerably in character. At "B" reef, gold mineralization occurs in highly silicified arkose with only minor amounts of pyrite. No quartz veining is present. It appears that gold was introduced during a stage of intensive silica flooding rendering the original arkose host rock into a dense silica-rich rock. At "B" reef the rock is considerably shattered and brecciated, and locally there is good evidence of some sort of fluidization mechanism to produce mixing of rock fragments without faulting. The mineralized arkose west and southwest of "B" reef is similarly silicified, but much less brecciated.

January 5, 1976

The gold mineralization at the Lovitt mine is to a much greater extent associated with a set of NE to ENE - trending quartz veins that cut the mineralized arkose in a semi-systematic fashion. However, a considerable amount of gold mineralization is also present in areas that do not contain a large amount of quartz veining (Block 3). It is possible that in this case gold is associated with disseminated pyrite. Extensive silica flooding as at "B" reef is not common in the Lovitt mine, but the overall pyrite content is higher here. The high-grade gold mineralization extracted during the early mining stages was conspicuously associated with through-going quartz veins; however, the mere presence of quartz veining does not insure gold content. In the "C" reef area and in portions of the iron stained capping material over the north block of the Lovitt mine, a series of quartz-carbonate veins has been tested by our diamond drilling program (DDH-3, 4, 5 and 10) which are devoid of gold mineralization.

So far, the only detailed account on the gold - silver mineralogy of the Lovitt ore is a report by John Guilbert prepared in 1962 for Day Mines. The study is based on 12 selected specimens mainly quartz vein material from various underground localities, and on 3 jig and flotation concentrates. Guilbert points out that gold occurs in the native state and as electrum, that it is found in quartz veins and to some extent in the adjacent silicified arkose and that the majority of the gold particles fall within the -200 +400 mesh range. No microscope study has yet been done for the silicious "B" reef ore.

In summary, then, it is evident that portions of the Lovitt - B Reef - A Reef zone have different mineralogical characteristics and subsequently would respond differently to metallurgical treatments including leaching.

Size, Grade and Geometry

The total size, overall grade and geometry of all of the ore zones on the Lovitt properties should be determined in so far as practicable during the next year. Three aspects must be considered: (1) Confirmation of the currently assumed reserves. The proposed underground drilling program, both long holing and coring should be adequate for this objective. (2) Continued drilling of the mineralized capping in the old mine area to classify the material into ore or waste. Very large volumes now classified as waste are in actuality untested. If only a portion of this silicified and pyritic cap rock can be classified as ore (diamond drill hole 8 already demonstrates that this is a realistic expectation), a substantial and favorable change in the projected stripping ratio may result. (3) Exploration in new and untested areas. Substantial additional core drilling is also necessary at the B reef ore zone, at depth beneath the old mine, at A reef and the nearby geophysical (induced polarization) anomaly, and at Compton's Knob. Specifically, with regard to Compton's Knob, it is not recommended that the Knob itself be drilled at the present time. The Knob is almost certainly a landslide block and has no depth extension. Instead a fence of rotary drill holes across the projected strike could be drilled to prospect through the extensive landslide cover. Evidence of mineralization beneath the landslide in rotary cuttings would then be used as justification for core drilling. An estimate of core and rotary drilling is outlined below.

Drilling Targets

Lovitt Mine

1. Follow up and delineate the mineralized zone in the Block 3 area; drilling should continue in the vicinities of DDH-8, 15 and 18 to define ore zone at depth and classify capping material. At least four (4) angle holes are proposed varying between 600 - 800' in depth. Estimated footage: 3200'.
2. Test additional silicified arkose in vicinity of DDH-13 with two (2) angle holes trending north and south across the dominant quartz vein structures. Estimated footage: 1500'.
3. Drill at least one additional steep angle hole northwest of DDH-17 on the west side of the silicified arkose ridge to test continuity of the silicified structures at depth below the 873 level. Estimated footage: 1300'.

Lovitt Summary: approximately seven (7) core holes totalling 6000 feet.

"B" Reef

1. Test the southward continuation of the gold-bearing silicified arkose beyond DDH-9 with one easterly trending angle hole. Estimated footage: 400'.
2. Test the vertical and westerly extent of the encountered mineralization in the vicinities of DDH-1, 6, 9 and 11, and further to the north. Estimated footage: 2000'.
3. Determine the extent of mineralization beneath the 1000 level north of DDH-16 with one or two additional angle holes. Estimated footage: 600'.

"B" Reef Summary: approximately four (4) core holes totalling 3000 feet.

"A" Reef

1. Test the deeper portion of the silicified structure beneath the main adit level with at least two (2) angle holes (assays from the main adit average 0.039 oz/ton Au). Estimated footage: 1200'.
2. Test the I. P. anomaly south of "A" reef with one or two vertical holes. Estimated footage: 800'.

"A" Reef Summary: Approximately four (4) core holes totalling 2000 feet.

January 5, 1976

Compton's Knob

1. Drill one or several fences of rotary holes across the trend to determine depth and nature of bedrock. Depth of overburden may be several hundred feet. Encouraging results should be followed up with diamond drill holes. Compton's Knob itself is a displaced outcrop within a large landslide and its source area could well be a fair distance up-slope. Thus, drilling the Knob itself would not yield affirmative results. Estimated footage: 6000'.

Compton's Knob Summary: approximately 20 rotary holes each 250' deep for a total of 5000'; followed by two (2) core holes totalling 1000 feet.

Summary of total drilling program

	<u>No. of holes</u>	<u>Core</u>	<u>Rotary</u>	<u>Total Footage</u>
Lovitt Mine	7	6000'		6000'
"B" Reef	4	3000'		3000'
"A" Reef	4	2000'		2000'
Compton's Knob	22	1000'	5000'	6000'
Contingency (mainly for deeper holes)	—	2000'	—	2000''
Totals		14,000	5000	19,000
Approximate Costs		\$300,000	\$30,000	\$330,000
Approximate Time		18 rig months	1 rig month	

This program could be completed within the present work schedule with three core rigs working around the clock.

JEW
Joseph E. Worthington

E. A. Schmidt
Eberhard A. Schmidt