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PERRY, KNOX, KAUFMAN, INC.

MINERAL EXPLORATION AND DEVELOPMENT

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Tucson, Arizona
December 23, 1974

Mr. J.B. Imswiler
Manager, Exploration
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IMC
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Sparks, Nevada 89431

Attached is a very brief report - Tres Amigos Area (Oro Blanco). Under separate cover you will receive a report on the World's Fair. Unfortunately R. Leisure cranked little geology, even in a general way, into either sampling job -- so the sample location maps are non - too "spiffy" and it reflects in the brevity of particularly the Oro Blanco report. Dick is now employed by Tom Mitcham (Rio Amex Cerromin).

I revisited the World's Fair - climbed the escarpement and went underground where ground water permitted - conclusion the same.

I am off to Flagstaff to ski - December 24, 25 and 26. Back in Tucson, ready to stimulate the Project on the 27th. Hope the Sanchez analysis allows for a proposition to ICCC.



A.J. Perry

AJP/sc

attach

Tucson, Arizona
December 23, 1974

To: Mr. J.B. Imswiler
IMC

From: A.J. Perry
Perry, Knox, Kaufman, Inc.

Subject: AZ-IMC-3 - OROBLANCO MINING DISTRICT, Santa Cruz Co.,
Arizona

A brief summary of the potential of the Oro Blanco District was provided in PKK's Initial PKK Proposal to IMC for Minerals Exploration - Arizona - 1974-75. Subsequent sampling has eliminated possibilities at the Tres Amigos Area. Some checking remains to be done at the Margarita.

Perry examined numerous prospects and old mines in the portion of the Oro Blanco District SW of old Oro Blanco camp, September 19 and 20 in the company of Vernon Dale, an Arizona mining engineer. Dale has been acquainted with activities in the District for over 40 years. The portion of the District examined is marked by numerous precious metals occurrences of narrow vein and vein fault type. The occurrences are separated by large areas of unmineralized country rock. Only near Oro Blanco Camp did any ground preparation suggest the possibility of a more pervasive type mineral occurrence.

In SE $\frac{1}{4}$ section 18, T23S, R11E, in the Oro Blanco Mine area (near Tres Amigos), sampling in 1938 by John Daniell, Engineer, reports \$4.00/ton value @ \$20 Au in a trench, assaying the +2" washed material from that excavation. A grab sample collected by the author from a length of about 120' of the trench assayed only < .005/oz Au and < .01/oz Ag. More detailed sampling of the same trench by Leisure (PKK) showed values of a maximum of .010 oz Au and 0.03 oz Ag for any 50' interval. See the attached sample sketch map with assay results. Near the Tres Amigos trench there is locally substantial stockworks development in intrusive. N60-70W and N-S fracture sites predominate with quartz development along fractures of both trends. The intrusive appears to underly a agglomeratic unit (Oro Blanco Conglomerate - L. Cret.) which is well mineralized at various vein/vein fault occurrences. Sampling failed to substantiate any possible suggested widespread mineralization. A copy of a map showing sampling in the area surrounding the supposed anomalous trench is also attached.

References

- Daniell, John, Report on the Legend Mines Group, Santa Cruz County, Arizona, June 1, 1935 (Private Report)
- Thompson, Wm. B., Preliminary Report on the Oro Blanco Mine, Santa Cruz County, Arizona, August 20, 1906 (Private Report)
- Traylor, S.W., Report on the Oro Blanco and Tres Amigos Mines, July 24, 1907 (Private Report)
- Wilson, E., et al.; Arizona Lode Gold Mines and Gold Mining, Ariz. Bur. Mines Bull. 137.

180' to 200' No OUTCROP. INTRUSIVE GRUSS

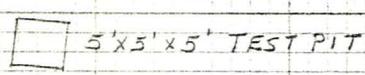
180'

OST 150-200
Au 0.005 OZ/TON
Ag 0.01 OZ/TON

BEGIN WEATHERED INTRUSIVE TO 180'
WHITE RHYOLITE & PURPLE VOL. AGGLOM. 5' WIDE

WEATHERED HEMATITE STAINED GRUSS 2' WIDE

OST 100-150
Au 0.010 OZ/TON
Ag 0.03 OZ/TON



5'x5'x5' TEST PIT

OST 50-100
Au 0.005 OZ/TON
Ag 0.02 OZ/TON

100' STAKE INT GRUSS BEGINS

INTRUSIVE

SHEARED INTRUSIVE N 67°W w/ 1/4" QTZ VEIN

1 1/2" QTZ VEIN ROUGHLY NW DIP N. IN INTRUSIVE
MIXED INTRUSIVE & VOL AGGLOM. 5' ? WIDE

50' 1/4" QTZ VEIN N 35°W DIP 60°N
FRESH INTRUSIVE FRACT'S. N 71°W
IRREG. BROKEN INTRUSIVE N 35°W DIP 60°N

OST 0-50
Au 0.005 OZ/TON
Ag 0.10 OZ/TON

3" VUGGY QTZ VEIN N 72°W

SWEAR ZONE IN WHITE RHYOLITE N 75°E 1" APART RHYOLITE 2' WIDE ±

FRACTURES N 60°W VERT 1" TO 10" SPACING

BEGIN FRESH INTRUSIVE

500 STAKE UNDER BUSH

GEOLOGICAL SKETCH MAP
OLD SMUGGLERS TRENCH
ORO BLANCO

SCALE 1" = 20'
RICHARD LEISURE

Field Notes for Brunton and Tape Survey
and Geochemical Survey of
Area East of Old Smuggler
(Fairchild Claims)
Oct. 30 thru Nov. 2, 1974

Start at 00 stake in Old Smuggler trench

F.S. N 17° E 100' measured on ground slope
B.S. S 17° W 100' measured on ground slope

Start at 1+00 stake in Old Smuggler trench

F.S. N 5° E 100' measured on ground slope
B.S. not taken 100' measured on ground slope

Sampled in trench in 50' sections

| | | | |
|-------------------------------|---------------|----------|----------------|
| OST 0-50 | Assay results | 0.005 Au | 0.10 Ag oz/ton |
| OST 50-100 | | 0.005 Au | 0.02 Ag oz/ton |
| OST 100-150 | | 0.010 Au | 0.03 Ag oz/ton |
| OST 150-200 | | 0.005 Au | 0.01 Ag oz/ton |
| OST QTZ (Quartz float 0-200') | | 0.005 Au | 0.01 Ag oz/ton |

Brunton and Tape survey notes for OBRH Series of geochem samples

| From | To | Bearing | Distance |
|------|-----|---------|----------|
| 00 | 110 | S 29° W | 110' |
| 110 | 100 | S 46° E | 100' |
| 100 | 70 | S 25° E | 70' |
| 70 | 80 | S 46° E | 80' |
| 80 | 98 | N 46° E | 98' |
| 98 | 100 | N 49° E | 100' |
| 100 | 96 | N 7° W | 96' |

OBRH-1 Assay results Au 0.09 ppm, Ag 9.0 ppm
Located 50' along second leg of traverse (S 46° E). 10' x 20'
x 20' deep inclined cut. Sample is best limonite stained dump
mtl., minor quartz vein. Some intrusive on dump. Structure
strikes N 20° W, dips 55° NE. Cut exposes irregular intrusive
contact 10' to 15' down in cut on N.E. wall.

OBRH-2 Assay results: Au 2.3 ppm, Ag 150. ppm
Located 40' along third leg of traverse (S 25° E). 10' diameter
4' deep cut. Sample is best dump mtl. ie. vuggy quartz with
minor limonite stain. Rock is silicified volcanic agglomerate.
One piece shows green (sericite) alteration. Structure is
irregular shear zone 3' wide, strike N 30° W.

OBRH-3 Assay results: Au 2.1 ppm, Ag 18. ppm
 Located on S 25° E leg of traverse at 70' . 3' x 10' x 6' deep inclined cut in well silicified and quartz veined volcanic agglomerate. Structure is a strong shear zone striking N 30° W dipping 48° N.E. Structure is almost contact between intrusive (footwall) and Volcanic agglomerate (hanging wall). Sample is best dump mtl. ie. mostly quartz or heavy silicification with minor limonite.

OBRH-4 Assay results: Au 0.08 ppm, Ag 11. ppm
 Located at 80' end of S 46° E traverse. 10' diameter, 3' deep pit. Appears to be on same structure as OBRH-2 and 3. They line up rather well. Poor rock ie. not much mineralization. Rock is slightly silicified volcanic agglomerate, not much limonite. Nearby outcrop runs N 55° W and dips 50° N.E.

November 1, 1974

Found 4" x 4" post with notice: ORO BLANCO # 1, S.E. $\frac{1}{4}$ of Sec 18, now owned by Arizona Western Mines, Tucson, discovery monument in center of claim.

OB-11 Assay results: Au 2.0 ppm, Ag 16. ppm
 Located 56' S 52° W of discovery monument of Oro Blanco # 1 in surface exposure of caved stope. Sample taken 3" into limonite coated footwall. Rock is rhyolite flow, Footwall is possible fault contact but no slickensides. Rock is dense but not silicified. Some black Mn stain also. Mined out stope strikes N 45° W, dips 60° NE .

OB-12 Assay results: Au 0.62 ppm, Ag 1.6 ppm
 Sampled 2' into hanging wall of above described stope. Rock is crumbly intrusive, fairly weathered or altered with minor limonite on irregular fractures. Has tree root growing in it. Structure is more irregular than foot wall. Point is located 36' S 52° W of discovery monument of Oro Blanco # 1 described above.

OB-13 Assay results: Au 0.29 ppm, Ag 1.4 ppm
 Point is 90' N 69° W of Disc. Mon. Oro Blanco # 1 in hanging wall of open stope. Sampled 2' into hanging wall. Rock is crumbly intrusive, partly weathered. Stope is on same structure as OB-11 and 12. Could not get to footwall because of open stope about 12' across.

OB-14 Assay results: Au 0.40 ppm, Ag 2.0 ppm
 3' x 3' x 2' deep surface pit on vein 20' west of OB-12 between OB-12 and 13 . Sample is best dump mtl. ie. limonite and specularite cementing breccia. Took hand specimen.

Nov. 1, 1974

Brunton and Tape Survey Notes

| From | To | Distance | Bearing |
|--------------------|-------|----------|---------|
| USMS 3042 L.O.B. 2 | OB-15 | 100' | N 74° E |
| OB-15 | OB-16 | 126' | N 87° E |

OB-15 Assay results: Au <0.02 ppm, Ag 0.6 ppm
Gruss from weathering of Andesite flow, no quartz, some limonite after hornblende, some clay after feldspar. Located 5' north of road. Structure is minor shearing, strike N 35° E.

OB-16 Assay results: Au <0.02 ppm, Ag 0.2 ppm
Outcrop is andesite flow, fairly unaltered, with irregular fractures. Looks like really unmineralized rock.

OB-17 Assay results: Au 0.27 ppm, Ag 12. ppm
2' x 10' x 3' deep trench 10' east of capped iron pipe reading: USMS No. 3042 PAR. 4 O.O.B. 4 . OB-16 to pipe is N 16° W over 300' . Rock is limonite stained some bleaching, some Mn stain, with $\frac{1}{4}$ " quartz veins, some specularite. Rock is volcanic flow or hybrid with intrusive.

OB-18 Assay results: Au 10. ppm, Ag 18. ppm
200' farther north of iron pipe is a 100' deep shaft with a few timbers. Sample of dump mtl. is Mn stained intrusive with minor quartz veins. Farther north is 4" x 4" wooden post reading ORO BONITO N C ? (E or S). Another trench here but did not sample it.

OB-19 Assay results: Au 0.03 ppm, Ag 0.2 ppm
Point is about 75' S 35° W of OB-15. $\frac{1}{2}$ " to 1" quartz-specularite vein in intrusive rock. Sampled vein and wall rock. No alteration in wall rock. Vein structure strikes N 70° E, dips 60° N.

Brunton and Tape survey notes

| From | To | Distance | Bearing |
|--------------|--------------|---------------------|-------------|
| RH-00 | LR-1 | 100' | N 88° W |
| LR-1 | OO in trench | 79' | N 69° W |
| OO in trench | OB-20 | 35' | S 37° W |
| OO in trench | LR-2 | 100' | N 26° W |
| LR-2 | OB-21 | 70' | N 46° W |
| OB-21 | OB-22 | 110' | N 70° W |
| OB-22 | OB-16 | 100' on -20° slope | |
| | | +100' on -12° slope | |
| | | +over 150' | |
| | | | all S 47° W |

OB-20 Assay results: Au 2.0 ppm, Ag 26. ppm
Dump of inclined shaft 3' x 6' x 17' deep. Sample is best dump mtl. including vein quartz, Mn stained intrusive, minor limonite, and bleached intrusive. Structure strikes N 60° W, dips 54° N.

OB-21 Assay results: Au 9.0 ppm, Ag 25. ppm
10' x 10' x 5' deep pit. Sampled best dump mtl. Rock is intrusive with Mn staining, 1/4 to 1/2" quartz float, some quartz veins, minor limonite stain.

OB-22 Assay results: Au 0.46 ppm, Ag 24. ppm
Mine dump at very deep 4' x 4' shaft. Sampled best dump mtl. Rock is Quartz veined and silicified intrusive with some chlorite alteration. Fairly interesting. Also some chloritized andesite. Structure is 1' wide, strikes N 60° W, dips 85° N. as seen in shaft.

Found at road intersection 4" x 4" wooden post reading ORO Blanco 2 DISC. 110 N

Nov. 2, 1974

Sharp trench just north of road 200' before arriving at road intersection with above described wooden post.

OB-23 Assay results: Au 0.06 ppm, Ag 0.4 ppm
Sampled best dump mtl. from along trench. Raining hard. Sample shows many 1/4 to 1/2" quartz veins, chloritized intrusive and chloritized andesite flow. Contact between two is in trench. Fairly interesting alteration. Also large 1/2" drusy quartz xl's.

Across the road from RH-00 is a deep 4' x 4' inclined shaft on dump collected two samples as follows:

OB-24 Assay results: Au 0.87 ppm, Ag 10. ppm
Sampled best dump mtl. ie. lots of quartz veining, some Mn staining, some light green chlorite-sericite alteration, lots of silicification of wallrock. Rock is probably volcanic agglomerate.

OB-25 Assay results: Au <0.02 ppm, Ag 8.4 ppm
Sample is a light green slightly banded rhyolite (?) with lots of Mn staining, only one qtz vein seen in it. Probably a thin dike in the shaft. Hand specimen seems slightly crushed or sheared.

OBRH-5 Assay results: Au 0.06 ppm, Ag 2.8 ppm
Located at survey point 98.
Sample is volcanic agglomerate with pebbles to cobbles. Dead looking unmineralized rock. Some red hematite staining washed in from above. Tried to sample ground mass matrix not cobbles. No structure to measure.

ORO BONITO
NCS

INTRUSIVE

OB-18 Dump

10.0 Au ppm
18.0 Ag "

AND. FLOW ? OR HERRID
USMS #33042
BAR 4
0.03.4

OB-17

Location estimated 12.0 Au ppm
27.0 Ag ppm

Au Ag ppm.

To OB-11 2.02 1.6 FW of slope
OB-12 .62 1.6 HW "

OB-13 .29 1.4 FW of slope

OB-14 .40 2.0 Dump

AND. FLOW

OB-15

4.02 Au ppm
.6 Ag ppm

OB-19

INTRUSIVE
.03 Au ppm
.2 Ag ppm

USMS
3042
L.O.B.2

OB-19

INTRUSIVE

OB-19 Dump
.06 Au ppm
.4 Ag ppm

To Blanco 2
Disc. 110 N

OB-26
OB-27

1.4 Au ppm Dump
6.4 Ag ppm
3.9 Au ppm Best Dump
5.0 Ag ppm mat

0-200' QTZ 4.005 Au oz/TON
2.01 Ag "

4.005 Au oz/TON
2.01 Ag "

0.010 Au oz/TON
0.03 Ag "

4.005 Au oz/TON
0.02 Ag "

Au oz/TON Ag ppm
4.005 Au oz/TON 8.4 Ag ppm
0.10 Au oz/TON 10.87 Ag ppm Dump
OB-24 10.87 Ag ppm
OB-25 8.4 Ag ppm

OB-20

INTRUSIVE
2.0 Au ppm
2.0 Ag ppm

OB-21 Dump

Au ppm .09
Ag ppm 9.0

OB-22 Dump

Au ppm 2.3
Ag ppm 75.3

OB-23 Dump

Au ppm 2.1
Ag ppm 18.1

OB-24 Dump

Au ppm .08
Ag ppm 11.0

OB-25

4.02 Au ppm
1.0 Ag ppm

OB-26

OB-27

OB-28

OB-29

OB-30

BRUNTON & TAPE SURVEY
OF GEOCHEMICAL SURVEY
AREA EAST OF OLD SMUGGLER
(FAIRCHILD CLAIMS)

OCT. 30 TO NOV. 2, 1974

BY RICHARD LISURE

SCALE 1" = 100'



OBRH-6 and OBRH-7 surveyed but no sample taken.

OBRH-8 Assay results: Au 0.08 ppm, Ag 4.8 ppm
Sample point is located 55' S 76° E of OBRH-5. Rock is volcanic agglomerate with 2' wide silicified shear and quartz vein zone, structure is irregular but strikes N 30° W, dips 55° N.E. Sample is $\frac{1}{2}$ quartz vein and $\frac{1}{2}$ silicified wall rock.

OBRH-9 Assay results: Au <0.02 ppm, Ag 1.0 ppm
Sample point is located roughly north 50' from OBRH-5. Sample shows hematite stained fractures on 3" to 1' spacing, striking N 10° W, vertical, in silicified and hematite stained rock (probably volcanic agglomerate).

OB-26 Assay results: Au 1.4 ppm, Ag 6.4 ppm
Deep mine shaft at 150" N 32° E of 200' point in Old Smuggler Trench. Collected two samples. OB-26 is probably intrusive, fairly fresh to very fresh rock found on dump.

OB-27 Assay results: Au 3.9 ppm, Ag 5.0 ppm
Sample is best dump mtl. around same shaft. Sample shows quartz, Mn staining, minor limonite, but hard to find any of this type of mtl. Structure in shaft is N 75° W, almost vertical.

Margarita Mine Area

Mar-1 Assay results: Au 1.8 ppm, Ag 5.6 ppm
Found 4' x 4' inclined shaft full of rocks and water. Sampled on dump, white porcelain quartz with pyrite, much of the quartz is stained yellow by oxidation of the pyrite.

Mar-2 Assay results: Au 9.8 ppm, Ag 9.6 ppm
On same dump sampled heavy hematite and limonite stained wall rock.

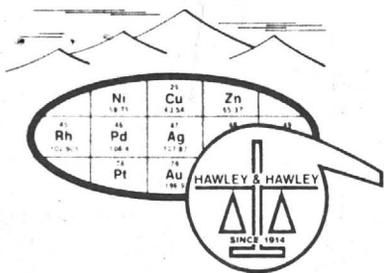
Mar-3 Assay results: Au <0.02 ppm, Ag 0.2 ppm
Sample point is located 250' N 70° E of inclined shaft. 3' to 4' wide outcrop of quartz vein which runs from shaft to a point 100' beyond this sample point in a N 70° E direction. Sampled quartz across the width of the vein (about 3' here). Sampling shows that outcrop is veined and silicified wall rock. Impossible to tell nature of original wallrock.

Mar-4 Assay results: Au 0.06 ppm, Ag 4.0 ppm
Sample point is 250' N 47° E of inclined shaft. 2' x 3' x 5' deep pit into veined and silicified wallrock which is probably volcanic flow. Sample is dump mtl. about average, picked up some hematite, limonite and Mn staining. Fracture in pit runs N 79° W, vertical.

Mar-5 Assay results: Au 9.7 ppm, Ag 30. ppm
Sample point located 25' N 75° E of Mar-4. 2' x 3' x 5' deep pit. Sampled average dump mtl. Structure in pit strikes N 74° E, probably vertical.

Mar-6 Assay results: Au <0.02 ppm, Ag 0.6 ppm
Sampled silicified rock in road 15' N.W. of inclined shaft. Hard to tell original rock, no limonite, no quartz veining, but 90% silicified. Has irregular fractures.

Mar-7 Assay results: Au 0.12 ppm, Ag 0.4 ppm
Drove down road and found main Margarita Mine workings, caved stopes, etc. Sampled most typical silicified wall rock found on mine dump.



SKYLINE LABS, INC.

Hawley & Hawley, Assayers and Chemists Division
 1700 W. Grant Rd., P.O. Box 50106, Tucson, Arizona 85703
 (602) 622-4836

Charles E. Thompson
 Arizona Registered Assayer No. 9427

William L. Lehmbeck
 Arizona Registered Assayer No. 9426

CERTIFICATE OF ANALYSIS

| ITEM NO. | SAMPLE IDENTIFICATION | Au ppm | Ag ppm | | | | | | |
|----------|-----------------------|--------|--------|--|--|--|--|--|--|
| 1 | OB 11 | 2.0 | 16. | | | | | | |
| 2 | 12 | 0.62 | 1.6 | | | | | | |
| 3 | 13 | 0.29 | 1.4 | | | | | | |
| 4 | 14 | 0.40 | 2.0 | | | | | | |
| 5 | 15 | <0.02 | 0.6 | | | | | | |
| 6 | 16 | <0.02 | 0.2 | | | | | | |
| 7 | 17 | 0.27 | 12. | | | | | | |
| 8 | 18 | 10. | 18. | | | | | | |
| 9 | 19 | 0.03 | 0.2 | | | | | | |
| 10 | 20 | 2.0 | 26. | | | | | | |
| 11 | 21 | 9.0 | 25. | | | | | | |
| 12 | 22 | 0.46 | 24. | | | | | | |
| 13 | 23 | 0.06 | 0.4 | | | | | | |
| 14 | 24 | 0.87 | 10. | | | | | | |
| 15 | 25 | <0.02 | 8.4 | | | | | | |
| 16 | 26 | 1.4 | 6.4 | | | | | | |
| 17 | 27 | 3.9 | 5.0 | | | | | | |
| 18 | RH-1 | 0.09 | 9.0 | | | | | | |
| 19 | RH-2 | 2.3 | 150. | | | | | | |
| 20 | RH-3 | 2.1 | 18. | | | | | | |
| 21 | RH-4 | 0.08 | 11. | | | | | | |
| 22 | RH-5 | 0.06 | 2.8 | | | | | | |
| 23 | RH-8 | 0.08 | 4.8 | | | | | | |
| 24 | OB RH-9 | <0.02 | 1.0 | | | | | | |
| 25 | MAR 1 | 1.8 | 5.6 | | | | | | |
| 26 | 2 | 9.8 | 9.6 | | | | | | |
| 27 | 3 | <0.02 | 0.2 | | | | | | |
| 28 | 4 | 0.06 | 4.0 | | | | | | |
| 29 | 5 | 9.7 | 30. | | | | | | |
| 30 | 6 | <0.02 | 0.6 | | | | | | |
| 31 | MAR 7 | 0.12 | 0.4 | | | | | | |

TO:
 Perry, Knox, Kaufman, Inc.
 P.O. Box 12754
 Tucson, Arizona 85732

Attn.: Mr. Richard Leisure

REMARKS:
Obobanco, Dist.
 A2-1ML

DATE REC'D: 11/4/74

CERTIFIED BY:
William L. Lehmbeck

DATE COMPL.: 11/12/74

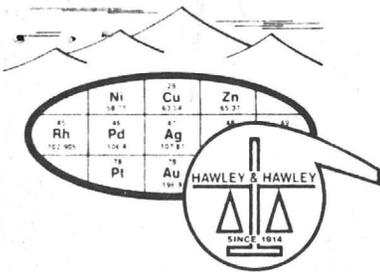
JOB NUMBER: 742184

SKYLINE LABS, INC.

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 (602) 622-4836

Charles E. Thompson
 Arizona Registered Assayer No. 9427

William L. Lehmsbeck
 Arizona Registered Assayer No. 9425



CERTIFICATE OF ANALYSIS

| ITEM NO. | SAMPLE IDENTIFICATION | Au oz/ton | Ag oz/ton | | | | | | |
|----------|-----------------------|--------------|--------------|--|--|--|--|--|--|
| 1 | OST 0-50 | <0.005 | 0.10 | | | | | | |
| 2 | 50-100 | <0.005 | 0.02 | | | | | | |
| 3 | 100-150 | 0.010 | 0.03 | | | | | | |
| 4 | 150-200 | <0.005 | <0.01 | | | | | | |
| 5 | OST QTZ | <0.005 | <0.01 | | | | | | |
| 6 | OB 1 d | 0.070 | 3.73 | | | | | | |
| 7 | 4 | <0.005 | <0.01 | | | | | | |
| 8 | 5 | <0.005 | <0.01 | | | | | | |
| 9 | OB STS | 0.530 | 3.49 | | | | | | |

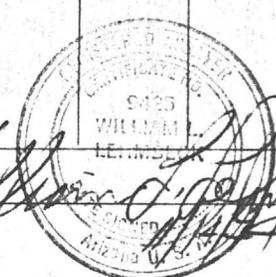
Problems

TO:
 Perry, Knox, Kaufman, Inc.
 P.O. Box 12754
 Tucson, Arizona 85732

Attn.: Mr. Richard Leisure

REMARKS:
 ARIZ-1111

CERTIFIED BY:



DATE REC'D: 11/4/74 DATE COMPL.: 11/14/74 JOB NUMBER: 742185