

DIAMOND DRILLING



42A10SW0226 28 MACKLEM

010

TOWNSHIP: Macklem

REPORT No.: 28

WORK PERFORMED BY: Lac d'Amiante du Quebec Ltee.

| <u>CLAIM No.</u> | <u>HOLE No.</u> | <u>FOOTAGE</u> | <u>DATE</u> | <u>NOTE</u> |
|------------------|-----------------|----------------|-------------|-------------|
| P 512797 | Q-6 | 612.6 | June/84 | (1) |
| | Q-7 | 833.3 | June/84 | (1) |
| | Q-8 | 757.9 | July/84 | (1) |
| P 528597 | Q-9 | 1046.6 | July/84 | (1) |
| P 528598 | Q-10 | 597.1 | July/84 | (1) |
| P 512830 | Q-11 | 835.0 | Aug/84 | (1) |
| | <u>6</u> | <u>4682.5</u> | | |

NOTES: (1) #370-84

Hole No. Q-6

ASARCO Diamond Drill Log

Page 1 of 8Logged by Jeff SampleNighthawk ProjectContractor Bradley Bros. Ltd.Date Logged June 1984Date Drilled June 14-22/84 Core Size BQ Depth 612.6 ft.Collar Co-ord. 835 ft. South; 180 ft. West of Post No. 1 Elev. Not Surveyed Angle -45°Azimuth 345° Dip Tests: 75m 39°45' 150m 40°15'

Feet

(Corrected)

oz./sf

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-----------------|---|---|----|--------|-------|-------|----|--|--|
| | 0.0 | | Collar | | | | | | | |
| | 219.8 | | Overburden | | | | | | | |
| ≈ | 452.5 | | m gy-grn to d grn pillowed basalt; well defined variolitic pillow margins; pillows mainly 1'-2' & loc to 3' diam; loc hyaloclastite bx between pillows, often w wh qtz & wh to pk calcite mtx; occ vf, v irreg frags filled w wh calcite; loc num f frags & strongly corroded frags running @ v low ∠s to along core; occ dissem spks & sml patches py; core loc badly broken (esp. in zones where corroded frags run along core) & loc ground over | | B 1065 | 447.5 | 452.5 | Tr | | |
| | 219.8 - 232.9 | | 4.1 ft. L.C. | | | | | | | |
| | 259.5 - 261.8 | | 0.015' - 0.03' thick veins clear to wh qtz w lesser amt calcite @ ≈ 20° - 30° | | | | | | | |
| | ≈ 273.0 - 278.0 | | num f, irreg frags; core broken | | | | | | | |

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Hole No. Q-6ASARCO Diamond Drill LogPage 2 of 8

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

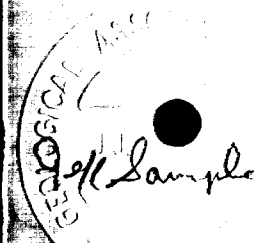
Core Size _____ Depth _____

Collar Co-ord. _____

Elev. _____ Angle _____

Azimuth _____ Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| ≈ | 452.5 | | Con. | | | | | | | |
| | | | 278.0 - 282.1 L.C. | | | | | | | |
| | | | 282.1 - 282.4 Core broken | | | | | | | |
| | | | 282.4 - 289.6 L.C. | | | | | | | |
| | | | 289.6 - ≈ 353.0 v num f corroded | | | | | | | |
| | | | fracts @ low \angle s to along core; | | | | | | | |
| | | | core loc v badly broken | | | | | | | |
| | | | ≈ 353.0 - ≈ 380.0 fewer f corroded | | | | | | | |
| | | | fracts than @ 289.6 - 353.0 but variolitic | | | | | | | |
| | | | portions (mainly pillow margins) of | | | | | | | |
| | | | the rock are highly lchd & corroded; | | | | | | | |
| | | | core gen badly broken. | | | | | | | |
| | | | ≈ 380.0 - ≈ 388.0 similar to but | | | | | | | |
| | | | slly less corroded than 353.0 - 380.0 | | | | | | | |
| | | | ≈ 388.0 - ≈ 438.0 rock is corroded | | | | | | | |
| | | | similar to 353.0 - 380.0 | | | | | | | |
| | | | 390.4 - 400.3 1.6 ft. L.C. | | | | | | | |
| | | | 404.3 - 410.1 L.C., core ground up | | | | | | | |
| | | | 410.1 - 419.9 6.2 ft. L.C. | | | | | | | |
| | | | 422.5 - 429.8 L.C. | | | | | | | |



Hole No. Q-6

ASARCO Diamond Drill Log

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Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz./ft

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|-------|--------|-------|-------|-----------|---------|--|
| ≈ | 452.5 | | Con. | | | | | | | |
| | | | ≈ 438.0 - 452.5 not as strongly pitted but num f corroded frags @ low Ls to along core. | | | | | | | |
| | | | Basal ct of unit badly broken, some core lost. | | | | | | | |
| | 587.0 | | siliceous feldspar porphyry - possibly a rhyolite or possibly a highly altd & silicified basalt ?? lgy to gnish-gy; massive; loc rare-occ wh felds phenocrysts in upper part, phenocrysts become more abund w depth; felds phenocrysts gen. ≈ 0.01' diam.; vfg, highly silic groundmass; ecc - num f dissem xls py & sly oxidized py (& v loc to 10% py); py tends to be oxidized in upper part of unit & less oxidized in lower part; intense network of vf criss-crossing frags, many of which are @ low Ls to along core; rock loc | | B 1066 | 452.5 | 454.3 | Tr | | |
| | | | | | | 454.3 | 459.3 | Lost Core | | |
| | | | | | B 1067 | 459.3 | 469.2 | Tr | (2A'LC) | |
| | | | | | 68 | 469.2 | 474.0 | .018 | | |
| | | | | | 69 | 474.0 | 479.0 | Tr | | |
| | | | | | 70 | 479.0 | 484.0 | Tr | | |
| | | | | | 71 | 484.0 | 489.0 | .042 | | |
| | | | | | 72 | 489.0 | 494.0 | .012 | | |
| | | | | | 73 | 494.0 | 499.0 | .014 | | |
| | | | | | 74 | 499.0 | 504.0 | .010 | | |
| | | | | | 75 | 504.0 | 506.5 | .206 | | |
| | | | | 507.0 | 76 | 506.5 | 507.5 | .956 | V-6. | |
| | | | | | 77 | 507.5 | 512.5 | .020 | | |
| | | | | | B 1078 | 512.5 | 517.5 | .018 | | |

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 Sample

Hole No. Q-6

ASARCO Diamond Drill Log

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Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

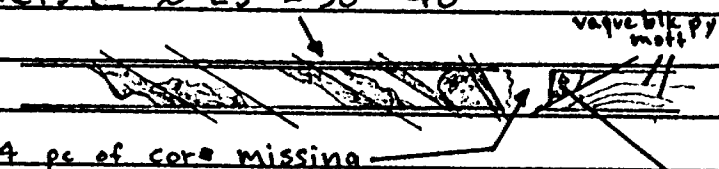
Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz./st |
|-------|----|---|--|----|-------|-------|-------|------|---------|
| 587.0 | | | Con. | | | | | | |
| | | | sly blchd adj to fract; loc abund | | B1079 | 517.5 | 522.5 | .028 | |
| | | | vf dissem d grn chl ?? & loc minor | | 80 | 522.5 | 527.5 | .010 | |
| | | | chl along fract; loc minor pale yellow | | 81 | 527.5 | 532.5 | .016 | |
| | | | grn epidote altn along f fract; core | | 82 | 532.5 | 537.5 | Tr | |
| | | | gen. badly broken & loc ground over. | | 83 | 537.5 | 542.5 | .006 | |
| | | | 454.3 - 459.3 L.C. | | 84 | 542.5 | 547.5 | .014 | |
| | | | 459.3 - 469.2 core badly broken; 2.4' L.C. | | | 547.5 | 548.5 | Not | Sampled |
| | | | ≈ 465 - ≈ 471 8-10% dissem, oxidized py | | 85 | 548.5 | 553.5 | .026 | |
| | | | 479.0 - 488.8 1.0' L.C. | | 86 | 553.5 | 558.5 | .026 | |
| | | | 499.5 0.05' wh qtz vein @ 35° | | 87 | 558.5 | 563.5 | .020 | |
| | | | 500.2 - 502.0 vague c-bx; abund | | 88 | 563.5 | 568.5 | .038 | |
| | | | silicification mainly conc. along vf | | 89 | 568.5 | 573.5 | .034 | |
| | | | fracts @ ≈ 25° - 30° - 40° | | 90 | 573.5 | 578.5 | .004 | |
| | | |  | | | | | | |
| | | | 502.4 pc of core missing | | B1092 | 583.5 | 586.5 | Tr | |
| | | | 502.5 - 502.6 sml, discontinuous wedge of bx; | | | 586.5 | 587.0 | Not | Sampled |
| | | | possibly a minor fault? @ 30°, oblique to | | | | | | |
| | | | the strongly silicified fract. | | | | | | |

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 Sample
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Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

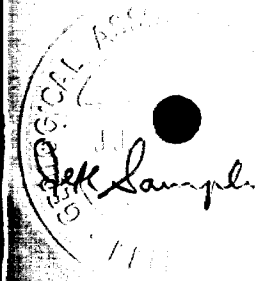
Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------------|---|--|----|------|------|----|----|--|--|
| | 587.0 | | Con. | | | | | | | |
| | 507.0 | | .05'-.065' thick wh qtz vein | | | | | | | |
| | | | @ 40°; loc occ cubes ox py; 2 | | | | | | | |
| | | | sml patches V.G. attached to the | | | | | | | |
| | | | ox. py. | | | | | | | |
| | 509.2-512.0 | | v irreg wh qtz bx vein | | | | | | | |
| | | | @ 25° - along core; core badly | | | | | | | |
| | | | broken | | | | | | | |
| | 514.0-515.5 | | core ground over | | | | | | | |
| | ≈ 527.0 | | → slightly more strongly | | | | | | | |
| | | | silicified; wh felds phenocrysts sly | | | | | | | |
| | | | more prominent; some strongly corroded | | | | | | | |
| | | | low < frags; ≈ 2-5% dissem, ox py. | | | | | | | |
| | 529.7-530.9 | | c-bx w abund mtx of | | | | | | | |
| | | | pk dol., wh qtz & grn chl. | | | | | | | |
| | 548.0-548.2 | | Tuff bnd? or Interflow | | | | | | | |
| | | | Sed? or inclusion of altd Basalt? | | | | | | | |
| | | | wavy cts @ 75°-85°; grnsh-gy calcite | | | | | | | |
| | | | altd frags? in vvf d colored mtx; | | | | | | | |
| | | | ≈ 1% dissem py; unit cut by 0.01' | | | | | | | |



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Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

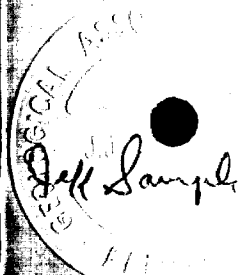
Angle _____

Azimuth _____

Dip Tests _____

oz./st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|-------|-------|-------|-------------|--|--|
| | 587.0 | | Con. | | | | | | | |
| | | | 548.0-548.2 Con. | | | | | | | |
| | | | thick wh qtz & calcite filled fract which extends into unit below but stops @ ct w unit above; qtz/calcite filled fract is sly crenulated in unit (compacted?) & carries occ sml patches of d colored mineral, possibly sphal? or tourmaline?? | | | | | | | |
| | | | 549.5-549.7 wh qtz vein @ 45° | | | | | | | |
| | | | 558.7 0.03' wh qtz vein @ x 20° | | | | | | | |
| | | | 563.0 0.04' " " " " " | | | | | | | |
| | | | 569.0 two 0.015' wh qtz veins @ 15-20° | | | | | | | |
| | 589.3 | | m-d gy-grn mafic dike? or basalt inclusion? massive; vague felted texture w intergrown laths of fq amphiboles?? & vf - fq feldspar X15; unit v sly blchd & partially altd to calcite; stronger blching over ~0.2' @ upper & lower cts; 0.5-1.0 % | | | 587.0 | 587.5 | Not Sampled | | |
| | | | | | 81093 | 587.5 | 588.8 | Tr | | |
| | | | | | | 588.8 | 589.8 | Not Sampled | | |



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Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz./ft |
|------|-------|---|--|----|-------|-------|-------|------|---------|
| | 589.3 | | Con. | | | | | | |
| | | | dissem py; rare - occ vf - f irreg | | | | | | |
| | | | fracts; often @ low \angle s to along core | | | | | | |
| | | | filled w calcite & qtz; 0.08' rounded? | | | | | | |
| | | | frag (inclusion? or replacement??) of | | | | | | |
| | | | underlying silic porphyritic rock adj | | | | | | |
| | | | to lower ct. ; cts \approx 80° | | | | | | |
| | 612.6 | | silic felds porph; much as lower | | | 589.3 | 589.8 | Not | Sampled |
| | | | part of unit @ 587.0; highly | | B1094 | 589.8 | 594.8 | Tr | |
| | | | silic & becoming even more silic | | 95 | 594.8 | 599.8 | .030 | |
| | | | from 608.4 to foot of hole ; | | 96 | 599.8 | 604.8 | .006 | |
| | | | gen 1% to 2% dissem py; loc | | 97 | 604.8 | 609.8 | .322 | |
| | | | some v vague blk py mott along | | B1098 | 609.8 | 612.6 | .010 | |
| | | | vf fracts or foliation @ 45°; occ- | | | | | | |
| | | | num = v num, vf, irreg fracts; most | | | | | | |
| | | | prominent fracts trend @ low \angle s | | | | | | |
| | | | to along core; some fracts along | | | | | | |
| | | | core adj to upper ct filled w grn | | | | | | |
| | | | chl; other fracts gen filled w wh | | | | | | |
| | | | qtz & calcite. | | | | | | |

Q-6 Sample

Hole No. Q-6ASARCO Diamond Drill LogPage 8 of 8Logged by Jeff SampleNighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 612.6 | | Con. | | | | | | | |
| | | | 609.4 - 609.7 d grn - blk chloritic zone; v gradational cts; 2-3% c Xlline py. | | | | | | | |
| | | | 609.7 - 611.5 v strongly c-bxd | | | | | | | |
| | | | 611.5 0.02' fract @ 20° filled w wh to pk dol & minor wh qtz & chl. | | | | | | | |
| | 612.6 | | Foot of Hole | | | | | | | |
| | | | Hole lost due to broken rods. | | | | | | | |
| | | | 120 ft BQ Rods; 58 ft BQ Casing & 80 ft NW Casing lost in hole. | | | | | | | |
| | | | Hole plugged w 8 bags cement. | | | | | | | |

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Jeff Sample

Hole No. Q-7

ASARCO Diamond Drill Log

Page 1 of 13Logged by Jeff SampleNighthawk ProjectContractor Bradley Bros. Ltd.Date Logged July 1984Date Drilled June 25 - July 3/84 Core Size BQ Depth 833.3 ft.Collar Co-ord. 730 ft South; 415 ft. West of Post No. 1 Elev. Not Surveyed Angle -45°Claim No. 512797, Macklem Township.Azimuth 345°Dip Tests 75m 45°30' 150m 44°(cor) 225m 43°00' 254m 42°45'

Feet

(Corrected)

oz./st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|-------|-------|-------|-----|---------|--|
| | 0.0 | | Collar | | | | | | | |
| | 164.0 | | Overburden | | | | | | | |
| | 356.8 | | m gy-grn to d grn pillowed Basalt; | | B1701 | 351.0 | 356.0 | tr | | |
| | | | pillows w variolitic margins gen. | | | 356.0 | 356.8 | Not | Sampled | |
| | | | 1' to 2' in diam; loc abund hyaloclastite | | | | | | | |
| | | | between pillows; hyaloclastite is often | | | | | | | |
| | | | c-bxd & /or sly vuggy w mtx of | | | | | | | |
| | | | wh qtz & loc pk qtz (sly hem. stained) | | | | | | | |
| | | | & /or wh to pk dol. & calcite; loc | | | | | | | |
| | | | minor epidote altn; loc occ dissem | | | | | | | |
| | | | spks & rare patches py, also loc | | | | | | | |
| | | | occ vf strs py along vf fract | | | | | | | |
| | | | (≤ 1% py overall); rare-occ f, irreg | | | | | | | |
| | | | fracts filled w pk to wh calcite; | | | | | | | |
| | | | v loc rare-occ spks ep in wh | | | | | | | |
| | | | calcite-filled fract | | | | | | | |
| | | | 277.2 - 277.7 vein or bnd of purple | | | | | | | |
| | | | silica & carb; purple color possibly | | | | | | | |
| | | | due to amethyst ?? qtz or fluorite?? | | | | | | | |
| | | | minor yellow-grn epidote & wh calcite | | | | | | | |

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Hole No. Q-7ASARCO Diamond Drill LogPage 2 of 13

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

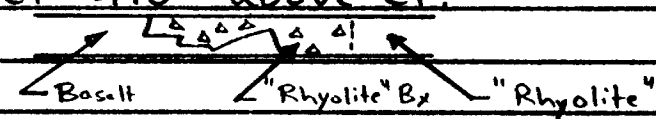
Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz./ft

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|-------|-------|-------|-------------|--|--|
| | 356.8 | | Con. 277.2 - 277.7 Con. | | | | | | | |
| | | | U ct $\approx 75^\circ$; L ct $\approx 65^\circ$ | | | | | | | |
| | | | 335.2 - 335.8 core missing (removed) | | | | | | | |
| | | | L ct of unit v irreg w angular breaks in direction (ie "jagged" ct); | | | | | | | |
| | | | v thin blehd zone (x.005') @ ct | | | | | | | |
| | | | & has v sly "baked" appearance | | | | | | | |
| | | | over 4.0' above ct. | | | | | | | |
| | | |  | | | | | | | |
| | | | | | | 356.8 | 357.7 | Not Sampled | | |
| | 540.5 | | siliceous feldspar porphyry - possibly | | B1702 | 357.7 | 362.7 | tr | | |
| | | | a rhyolite or possibly a highly | | 03 | 362.7 | 367.3 | tr | | |
| | | | altered & silicified basalt?? | | 04 | 367.3 | 368.2 | tr | | |
| | | | l-m grnish-gy, massive, apparently | | 05 | 368.2 | 373.2 | .048 | | |
| | | | intrusive rock w rare-occ-num, | | 06 | 373.2 | 378.2 | .014 | | |
| | | | gen 0.01' diam phenocrysts of wh | | 07 | 378.2 | 383.2 | tr | | |
| | | | felds in a vfg, v silic groundmass; | | 08 | 383.2 | 388.2 | tr | | |
| | | | wh felds xls (albite?) are sometimes | | 09 | 388.2 | 393.2 | tr | | |
| | | | sly abraded & many have been | | 10 | 393.2 | 398.2 | .020 | | |
| | | | fractd; gen v num vvf-f irreg | | B1711 | 398.2 | 403.2 | .030 | | |

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 Q-7
 Sampled
 11/11

Hole No. Q-7ASARCO Diamond Drill LogPage 3 of 13

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz./st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|-------|-------|-------|-------|------|--|--|
| | 540.5 | | Con. | | B1712 | 403.2 | 408.2 | | | |
| | | | fracts, v often @ low ls to | | 13 | 408.2 | 413.2 | tr | | |
| | | | along core; fracts gen filled w | | 14 | 413.2 | 418.2 | tr | | |
| | | | chl & /or py & sly ox py; some | | 15 | 418.2 | 423.2 | .044 | | |
| | | | fracts filled w wh qtz & /or wh | | 16 | 423.2 | 424.2 | .072 | | |
| | | | calcite; occ-num spks dissem | 424.7 | 17 | 424.2 | 425.2 | .038 | | |
| | | | py (\approx 1% py overall but loc to | | 18 | 425.2 | 430.2 | .030 | | |
| | | | 2-3%); 0.2' @ upper ct | | 19 | 430.2 | 435.2 | tr | | |
| | | | consists of baked & blehd frags | | 20 | 435.2 | 440.2 | .030 | | |
| | | | of basalt in a yellowish-grn | | 21 | 440.2 | 445.2 | | | |
| | | | groundmass of silic "rhyolite" | | 22 | 445.2 | 450.2 | | | |
| | | | material; basal ct of unit @ 45° | | 23 | 450.2 | 455.2 | | | |
| | | | 367.3 - 368.2 m gy-grn mafic dike? | | 24 | 455.2 | 460.2 | tr | | |
| | | | or basalt inclusion (apillow) in | | 25 | 460.2 | 465.2 | | | |
| | | | "rhyolite" ?? moderately altd to | | 26 | 465.2 | 470.2 | | | |
| | | | carb; loc some vague grnish | | 27 | 470.2 | 475.2 | | | |
| | | | coloration (possibly due to fuchsite?); | | 28 | 475.2 | 480.2 | | | |
| | | | U ct \approx 80°; L ct 75-80° | | 29 | 480.2 | 485.2 | | | |
| | | | 424.7 sml patches V.G. in f | | 30 | 485.2 | 487.7 | | | |
| | | | fract @ \approx 20° - 25° | | B1731 | 487.7 | 492.7 | | | |

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Hole No. Q-7

ASARCO Diamond Drill Log

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Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____ Depth _____

Collar Co-ord. _____

Elev. _____ Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz./ft |
|------|-------|---|---|----|-------|-------|-------|----|--------|
| | 540.5 | | Con. clear to wh qtz 429.7 bkhd, highly silicified zone chl & py | | B1732 | 492.7 | 497.7 | | |
| | | | (v.6 on py) V.6 Bkhd, highly silicified zone | | 33 | 497.7 | 502.7 | tr | |
| | | | | | 34 | 502.7 | 507.7 | | |
| | | | | | 35 | 507.7 | 512.7 | | |
| | | | wh calcite (replaces chl) V.6. chl bkhd, highly silicified zone | | 36 | 512.7 | 517.7 | | |
| | | | | | 37 | 517.7 | 522.7 | | |
| | | | ≈ 463.0 - ≈ 475.0 lge, irreg patches yellow-brn coloration due to altn or oxidation & staining | | 38 | 522.7 | 527.7 | | |
| | | | | | 39 | 527.7 | 532.7 | tr | |
| | | | | | 40 | 532.7 | 537.7 | | |
| | | | 485.2 - 487.7 bkhd & altd mafic dike ?? or inclusion ?? l grnsh-gy w sml, pale apple grn spots, massive f & f-mg felted texture; same rock type as @ 367.3 - 368.2 but bkhd; cts @ 60° - 65°; fair amt yellow grn (epidote?) altn; carb altd to dol & lesser amt calcite - apple grn coloration appears to be fuchsitic stain on carb; ≈ 5% f dissem py | | B1741 | 537.7 | 540.2 | | |

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 Q-7
 11-1-78

Hole No. Q-7ASARCO Diamond Drill LogPage 5 of 13

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

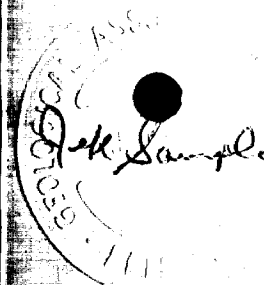
Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 540.5 | | Con. | | | | | | | |
| | | | 497.0 - 497.3 as 485.2 - 487.7 | | | | | | | |
| | | | 499.6 - 499.9 as 485.2 - 487.7 but vague variolitic texture | | | | | | | |
| | | | 503.90 - 503.95 altd mafic rock similar to 485.2 - 487.7; cts $\approx 75^\circ$ | | | | | | | |
| | | | 508.1 - 508.7 yellow-brn oxidation as @ 463.0 - 475.0 | | | | | | | |
| | | | 516.25 - 517.1 altd mafic rock as @ 485.2 - 487.7; U ct 80° ; L ct 55° | | | | | | | |
| | | | 511.0 \rightarrow gradually becomes darker colored & sly more grnish | | | | | | | |
| | | | 520.7 - 523.7 core badly broken | | | | | | | |
| | | | 521.7 - 522.0 altd mafic rock as @ 485.2 - 487.7; sly oxidized; U ct 65° ; L ct 60° in opp. dir. | | | | | | | |
| | | | 524.4 - 525.5 altd mafic rock as @ 485.2 - 487.7; sly ox; core badly broken; U ct $\approx 85^\circ$? L ct $\approx 65^\circ$?? | | | | | | | |



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Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz./ft

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|-------|-------|-------|-------------|--|--|
| | 540.5 | | Con. | | | | | | | |
| | | | 531.35 - 531.40 & 531.5 - 531.55 altd mafic rock as @ 485.2 - 487.7; irreg cts $\approx 80^\circ$; "Rhyolite" unit is oxidized between the 2 intervals & from 531.55 - ≈ 532.3 | | | | | | | |
| | | | 534.05 - 534.15 altd mafic rock as @ 485.2 - 487.7; "Rhyolite" is strongly oxidized for $\approx 0.2'$ on either side of this interval. | | | | | | | |
| | | | 535.45 - 535.85 altd mafic rock similar to 485.2 - 487.7; vague variolitic texture; cts irreg; U ct $\approx 85^\circ$; L ct $80-85^\circ$ | | | | | | | |
| | | | 539.0 - 539.1 altd mafic rock similar to 485.2 - 487.7; irreg cts $\approx 80^\circ$ | | | | | | | |
| | 541.7 | | altd mafic rock similar to 485.2 - 487.7; probably altd basalt | | | 540.5 | 541.7 | Not Sampled | | |
| | 542.5 | | m-d gy to grn, fg, finely C-bxd | | B1742 | 541.7 | 546.4 | tr | | |

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 J. L. Lampert
 11/11/77

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Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

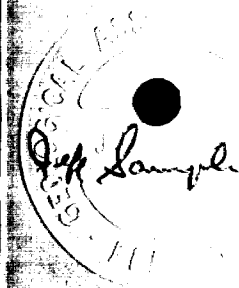
Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|------|------|----|----|--|--|
| | 542.5 | | Con. UM or mafic rock — probably an UM hyaloclastite sand w basaltic material, baked & sly blchd; C-6x has blk, fg mtx moderately altd to carb (mainly calcite); 1-3% f dissem py | | | | | | | |
| | 543.3 | | m gy (blchd) fg basalt w inclusions of UM; abund carb altn (calcite), sly baked & altd much as @ 541.7; 1-5% f dissem py | | | | | | | |
| | 546.4 | | baked & altd UM? rock much as @ 542.5; rare - v loc abund f dissem py. | | | | | | | |
| | 549.9 | | m gy, sly blchd? & baked basalt v similar to 543.3; occ inclusions UM rock | | | | | | | |
| | 552.9 | | d grn, finely foliated UM rock; UM tuff or finely laminated hyaloclastite sed.; < 80° - 45° - 75° - 80°; moderate | | | | | | | |



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Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz./st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|-------|-------|-------|----|--|--|
| | 552.9 | | Con. | | | | | | | |
| | | | amt dissem carb altn (calcite); v rare vf dissem py | | | | | | | |
| ≈ | 569.3 | | m gy-grn to yellowish-grn & d grn; baked UM hyaloclastite? or basalt bx? fg rock w vague finely c-bxd appearance; d fg mtx; moderately altd to carb (calcite); 1% & v loc 2-3% py, dissem & conc in patches along vf fract; also, possibly some pp; loc occ spks cp grades to | | B1743 | 552.9 | 557.9 | | | |
| | 581.4 | | blk, massive fg UM rock; v strongly c-bxd w a v prom network of vf-f, irreg fract filled w wh calcite for upper 1.0' of unit & filled w wh dol for remainder of unit; sly talcese; rare-occ spks vf dissem py; 3-5% dissem mag | | | | | | | |
| | | | 578.0 - 578.9 basalt dike @ 55° | | | | | | | |

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Sample

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Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

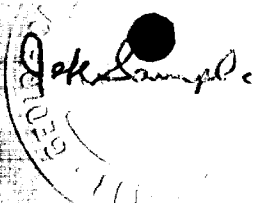
Angle _____

Azimuth _____

Dip Tests _____

oz./st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|-------|-------|-------|----|--|--|
| | 581.4 | | Con. | | | | | | | |
| | | | 579.2 0.02' Basalt dike @ 55° | | | | | | | |
| | 585.5 | | d grn to maroon massive basalt; fairly strongly chloritic; moderately to strongly altd to carb. (calcite); maroon color due to hem stain; ctz \approx 45°; occ f irreg frags filled w wh calcite & /or wh qtz | | | | | | | |
| | 609.9 | | blk, massive, strongly c-bxd UM rock as @ 581.4 | | | | | | | |
| | 611.0 | | Muddy fault gouge & bx | | | | | | | |
| | 617.1 | | Fault Bx | | | | | | | |
| | 618.5 | | d grn-blk talc-chl altd UM rock; bxd; frags of talc-chl & wh carb; minor dissem carb altn of talc-chl frags (dol). | | | | | | | |
| | 621.6 | | Fault Bx | | | | | | | |
| | 640.7 | | d grn-blk talc-chl altd UM rock; bxd; frags of talc-chl & broken partings & occ-num frags wh carb (dol); minor | | 81744 | 635.7 | 640.7 | tr | | |



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Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

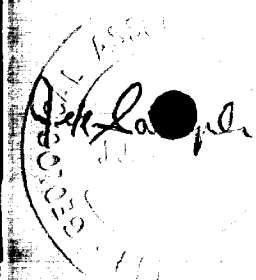
Angle _____

Azimuth _____

Dip Tests _____

oz/st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|-------|-------|-------|------|--|--|
| | 640.7 | | Con. | | | | | | | |
| | | | dissem carb altn (dol) of talc- | | | | | | | |
| | | | chl frags; poss some vague | | | | | | | |
| | | | spinifex texture? vague foliation | | | | | | | |
| | | | @ $\approx 80^\circ$; \leftarrow 1% dissem py | | | | | | | |
| | | | 631.7-631.9 & 633.3-633.4 Fault Bx | | | | | | | |
| | | | & Gouge | | | | | | | |
| | 655.8 | | massive feldspar porphyry (rhyolite?) | | B1745 | 640.7 | 645.7 | tr | | |
| | | | wh felds phenocrysts (ave 0.01 diam) | | 46 | 645.7 | 650.7 | .038 | | |
| | | | in pk colored, vv silic mtz; | | B1747 | 650.7 | 655.8 | tr | | |
| | | | intrusive bx @ upper & lower | | | | | | | |
| | | | cts & loc lge inclusions of UM | | | | | | | |
| | | | country rock; U ct $\approx 40^\circ$; L ct | | | | | | | |
| | | | $\approx 30^\circ$; $\approx 1\%$ dissem py in upper | | | | | | | |
| | | | part increasing in central & | | | | | | | |
| | | | lower parts of unit to 3-5%; | | | | | | | |
| | | | occ irreg wh qtz veins ranging in | | | | | | | |
| | | | thickness from 0.01 - 0.1'; $\approx 3-4\%$ | | | | | | | |
| | | | wh qtz veining overall | | | | | | | |
| | | | 640.7 - 641.5 intrusive bx; $\approx 50\%$ felds porph | | | | | | | |



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Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

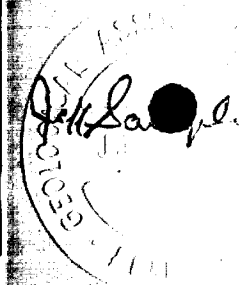
Angle _____

Azimuth _____

Dip Tests _____

oz/st.

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|-------|-------|-------|----|--|--|
| | 655.8 | | Con. | | | | | | | |
| | | | 641.5 - 642.5 UM inclusion | | | | | | | |
| | | | 643.9 - 644.6 " " | | | | | | | |
| | 675.8 | | UM rock as @ 640.7 | | B1748 | 655.8 | 660.8 | tr | | |
| | 689.7 | | d grn talc-chl altd UM rock; bxd; | | | | | | | |
| | | | moderate & v loc strong dissem | | | | | | | |
| | | | carb altn; loc abund wh carb | | | | | | | |
| | | | bx mtx; $\leq 1\%$ dissem py | | | | | | | |
| ≈ | 725.1 | | UM rock as @ 640.7 | | | | | | | |
| | | | 701.5 - 701.7 & 702.8 - 702.9 Fault | | | | | | | |
| | | | Bx & Gauge | | | | | | | |
| | 747.6 | | UM as 640.7 but moderate to | | B1749 | 731.8 | 734.8 | | | |
| | | | v loc strong dissem carb altn. | | | | | | | |
| | | | 732.0 irreg patch pk, massive, | | | | | | | |
| | | | vfg felsite or rhyolite?? | | | | | | | |
| | | | 733.8 - 734.4 lge irreg patches | | | | | | | |
| | | | or veins pk, massive, vfg | | | | | | | |
| | | | felsite or rhyolite?? | | | | | | | |
| | 833.3 | | UM rock as @ 640.7; foliation | | | | | | | |
| | | | varies from 80°-40° & loc sly contort. | | | | | | | |



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Logged by _____

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Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____


Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 833.3 | | Con. | | | | | | | |
| | | | 753.8 v thin fault slip @ $\approx 55^\circ$ | | | | | | | |
| | | | 764.8 irreg patch pk, massive, vfg felsite? or rhyolite? or pkqtz? | | | | | | | |
| | | | 806.5-806.8 v irreg partings @ $\approx 45^\circ$; wh carb @ margins & pk qtz. or felsite? or rhyolite? @ centers | | | | | | | |
| | | | x 808.0-811.8 vc spinifex | | | | | | | |
| | | | 810.5-811.0 pkqtz? or felsite? bx vein | | | | | | | |
| | | | 813.9-814.3 sly contort c spinifex | | | | | | | |
| | | | 814.4-823.8 vc-vvc spinifex | | | | | | | |
| | | | 826.0-829.0 vague foliation @ $45^\circ-0^\circ-$ $30^\circ-0^\circ-30^\circ-50^\circ$ | | | | | | | |
| | | |  | | | | | | | |
| | | | 829.0-829.6 satd w sly pk to purple silica & albite?? | | | | | | | |
| | | | 829.6-830.2 irreg partings or bx frags carb & pk to purple silica & albite?? $\angle s \approx 30^\circ$ | | | | | | | |
| | | | 830.2-830.8 foliation sly contort | | | | | | | |

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 Q-7
 Nighthawk
 Project

Hole No. Q-7

ASARCO Diamond Drill Log

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Logged by Jeff Sample

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____


Collar Co-ord. _____

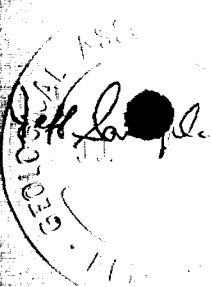
Elev. _____

Angle _____

Azimuth _____ Dip Tests _____

(Feet)

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 833.3 | | Con. | | | | | | | |
| | | |  | | | | | | | |
| | | | 830.8 - 833.3 foliation mainly ~ 80° | | | | | | | |
| | 833.3 | | Foot of Hole (254 m) | | | | | | | |
| | | | | | | | | | | |
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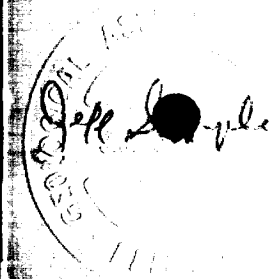


Hole No. Q-8ASARCO Diamond Drill LogPage 1 of 15Logged by Jeff SampleNighthawk ProjectContractor Bradley Bros. Ltd.Date Logged July 1984Date Drilled July 4-12/84Core Size BQDepth 757.9 ft.Collar Co-ord. 698 ft. South; 630 ft. West of Post No. 1 Elev. Not Surveyed Angle -45°Claim No. 512797; Macklem Township.Azimuth 345° Dip Tests 75m 43°30' 150m 43°00' 231m 43°30'

Feet

(Corrected)

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 0.0 | | Collar | | | | | | | |
| | 175.6 | | Overburden | | | | | | | |
| | 245.1 | | m gy-grn to d grn pillowed basalt; pillows gen 1-2' & loc to 3' diam.; prominent variolitic pillow margins; loc hyaloclastite bx between pillows; loc abund wh qtz & pk to wh dol & purple fluorite?? bx mtx; rare-occ early? irreg, discontinuous fract filled w wh qtz, pk to wh dol & occ patches py; loc occ-num later? vf-f irreg fract, often @ low Ls to along core, gen filled w wh calcite; v loc rare irreg patches dol?? sat'd w purple silica or possibly fluorite? sat'd w silica? ~ 1% py as dissem spks, rare-occ irreg patches & as sml patches in calcite filled fract. | | | | | | | |
| | 246.9 | | d gy-grn massive, fg Diorite? Dike; | | | | | | | |



Hole No. Q-8ASARCO Diamond Drill LogPage 2 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz./st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|--------|---|---|----|--------|--------|--------|-------------|--|--|
| | 246.9 | | Con. | | | | | | | |
| | | | U ct 85°; L ct 85°-90°; ≈ 1% dissem py; occ irreg frags filled w wh calcite | | | | | | | |
| | 253.7 | | Pillowed Basalt as @ 245.1 | | | | | | | |
| | 257.35 | | massive diorite? dike as @ 246.9; occ irreg frags filled w wh calcite & yellow-grn epidote; U ct ≈ 60°; L ct 85° | | B 1750 | 253.7 | 257.30 | tr | | |
| | 259.15 | | Intrusive Bx; v num angular to rounded frags basalt & sly blehd basalt silic feldspar porphyry ("rhyolite") in sly yellowish-grn fg mafic groundmass; rare vf irreg frags filled w wh calcite; basal 0.05' sericitized? silicified & slightly oxidized; L ct irreg @ ≈ 60° | | | 257.30 | 259.15 | Not Sampled | | |
| | | | | | | 259.15 | 259.20 | Not Sampled | | |
| | 260.4 | | l-m-d gy & sly grnish silic feldspar porphyry or rhyolite? or highly altd & silicified basalt?? | | B 1751 | 259.2 | 260.4 | tr | | |

Jell Sample

Hole No. Q-8ASARCO Diamond Drill LogPage 3 of 15

Logged by _____

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Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz/st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|-------|-------|-------|-----|---------|--|
| | 260.4 | | Con. | | | | | | | |
| | | | rare wh feldspar (albite?) phenocrysts in groundmass of silica; one sml frag of altd & blchd basalt adj to upper ct.; L ct broken & ground over. | | | | | | | |
| | 261.4 | | Lost Core | | | | | | | |
| | 294.2 | | d qz-grn massive f & f-mg diorite; $\approx 65\%$ wh to v sly pkish felds & $\approx 35\%$ grn, sly chloritized, bladed amphiboles; $\approx 1\%$ dissempy; loc d maroon to pk coloration due to hem stain; rare to num, gen low \angle f frags filled w wh calcite; v sly blchd & silicified over 0.05' @ lower ct. | | B1752 | 261.4 | 266.4 | | | |
| | | | | | 53 | 266.4 | 271.4 | tr | | |
| | | | | | 54 | 271.4 | 276.4 | tr | | |
| | | | | | 55 | 276.4 | 281.4 | tr | | |
| | | | | | 56 | 281.4 | 286.4 | tr | | |
| | | | | | 57 | 286.4 | 291.4 | tr | | |
| | | | | | B1758 | 291.4 | 293.9 | tr | | |
| | | | | | | 293.9 | 294.4 | Not | Sampled | |
| | 486.3 | | l-m qz & sly grnish, massive, silic feldspar porphyry? or intrusive rhyolite? or highly altd & silicified basalt? occ-num wh felds (albite?) phenocrysts gen $\approx 0.01'$ diam. in | | B1759 | 294.4 | 299.4 | tr | | |
| | | | | | 60 | 299.4 | 304.4 | | | |
| | | | | | 61 | 304.4 | 309.4 | tr | | |
| | | | | | 62 | 309.4 | 314.4 | tr | | |
| | | | | | B1763 | 314.4 | 319.4 | tr | | |

MEDICAL

 SAMPLES

Hole No. Q-8ASARCO Diamond Drill LogPage 4 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz./ft

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|-------|-------|-------|------|--|--|
| | 486.3 | | Con. | | B1764 | 319.4 | 324.4 | tr | | |
| | | | ground mass of f silica; occ - | | 65 | 324.4 | 329.4 | tr | | |
| | | | v num vf-f irreg frags, often @ | | 66 | 329.4 | 334.4 | tr | | |
| | | | low \angle s to along core (2 or more ages | | 67 | 334.4 | 339.4 | tr | | |
| | | | of frags); frags are filled w clear | | 68 | 339.4 | 344.4 | tr | | |
| | | | to wh qtz & /or chlorite & /or wh | | 69 | 344.4 | 349.4 | tr | | |
| | | | calcite & /or py & sly ex py; | | 70 | 349.4 | 354.4 | tr | | |
| | | | core has C-bxd appearance where | | 71 | 354.4 | 359.4 | tr | | |
| | | | frags are v numerous; \approx 1% dissem | | 72 | 359.4 | 364.4 | tr | | |
| | | | py; basal ct ground over. | | 73 | 364.4 | 369.4 | tr | | |
| | | | 301.5 - 301.8 d gy-grn mafic dike? | | 74 | 369.4 | 374.4 | tr | | |
| | | | or inclusion ?? d grn mafic phenocrysts | | 75 | 374.4 | 379.4 | tr | | |
| | | | in a m gy groundmass which | | 76 | 379.4 | 384.4 | tr | | |
| | | | displays a felted texture; moderately | | 77 | 384.4 | 389.4 | tr | | |
| | | | altd to carb (calcite); irreg cts | | 78 | 389.4 | 394.4 | tr | | |
| | | | \approx 50° | | 79 | 394.4 | 399.4 | tr | | |
| | | | \approx 318.0 - 333.0 strongly C-bxd | | 80 | 399.4 | 404.4 | tr | | |
| | | | 328.4 - 333.2 2-4% dissem py | | 81 | 404.4 | 409.4 | .028 | | |
| | | | 413.7 - 416.3 m gy, massive, f-mg | | 82 | 409.4 | 413.7 | tr | | |
| | | | altd & sly blhd mafic dike or | | B1783 | 413.7 | 416.3 | tr | | |

PHYSICAL RES
 Drill Samples
 1111

Hole No. Q-8ASARCO Diamond Drill LogPage 5 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

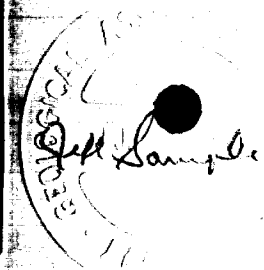
Angle _____

Azimuth _____

Dip Tests _____

oz/st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|-------|-------|-------|------|--|--|
| | 486.3 | | Con. | | B1784 | 416.3 | 421.3 | tr | | |
| | | | basalt inclusion? felted texture; | | 85 | 421.3 | 426.3 | tr | | |
| | | | moderately to strongly altd to | | 86 | 426.3 | 431.3 | tr | | |
| | | | carb (calcite); mafic minerals altd | | 87 | 431.3 | 436.3 | tr | | |
| | | | & sometimes fuchsite? stained; rare | | 88 | 436.3 | 441.3 | tr | | |
| | | | spks vf py; rare f, irreg fract | | 89 | 441.3 | 446.3 | tr | | |
| | | | filled w wh calcite | | 90 | 446.3 | 451.3 | | | |
| | | | 421.6-421.9 as @ 413.7-416.3; | | 91 | 451.3 | 456.3 | tr | | |
| | | | vague variolitic texture @ cts; | | 92 | 456.3 | 461.3 | | | |
| | | | cts \approx 80°-85° | | 93 | 461.3 | 466.3 | | | |
| | | | 428.5-429.5 much as @ 413.7- | | 94 | 466.3 | 471.3 | tr | | |
| | | | 416.3 | | 95 | 471.3 | 476.3 | tr | | |
| | | | 440.0-440.1 as 413.7-416.3; U ct | | B1796 | 476.3 | 478.0 | | | |
| | | | ground over; L ct 70° | | | 478.0 | 482.3 | L.C. | | |
| | | | 442.55-442.60 & 442.65-442.75 | | B1797 | 482.3 | 486.3 | | | |
| | | | as 413.7-416.3; cts \approx 80°; silic | | | | | | | |
| | | | porph. sly ex adj to cts | | | | | | | |
| | | | 445.8-445.9 as 413.7-416.3; cts 65°; | | | | | | | |
| | | | unit & adj silic porph sly ex | | | | | | | |
| | | | 446.60-446.65 as 413.7-416.3; cts | | | | | | | |



Hole No. Q-8

ASARCO Diamond Drill Log

Page 6 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 486.3 | | Con. | | | | | | | |
| | | | ≈ 70° (opp dir to 445.8-445.9) | | | | | | | |
| | | | <div style="display: flex; justify-content: space-around; align-items: center;"> 445.8 446.65 </div> | | | | | | | |
| | | | 447.85-448.65 much as @ 413.7-416.3 | | | | | | | |
| | | | but obviously a sly blehd basalt w | | | | | | | |
| | | | variolitic pillow margins; sharp cts; | | | | | | | |
| | | | U ct irreg @ ≈ 75°; L ct ≈ 80°; | | | | | | | |
| | | | strongly altd to calcite | | | | | | | |
| | | | 453.3-453.7 as 413.7-416.3; U ct | | | | | | | |
| | | | ground over; L ct 85° & sly ox. | | | | | | | |
| | | | 454.3-455.2 as 413.7-416.3; well | | | | | | | |
| | | | defined variolitic ct (pillow?) @ | | | | | | | |
| | | | 454.8; U ct ≈ 85°; L ct 85-90° | | | | | | | |
| | | | & fairly strongly ox. | | | | | | | |
| | | | ≈ 457.0 - ≈ 465.0 mtx corroded | | | | | | | |
| | | | & lchd out of many of the fractr | | | | | | | |
| | | | 465.6 thin bnd similar to 413.7- | | | | | | | |
| | | | 416.3; L ct ground off | | | | | | | |
| | | | 465.7-465.9 pc of core missing ?? | | | | | | | |

Geological
 Sample

Hole No. Q-8ASARCO Diamond Drill LogPage 7 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

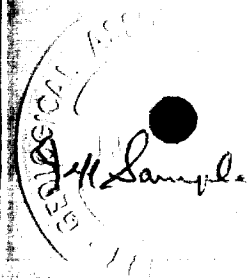
Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| | | | | | | | | oz/st | |
|------|-------|---|--|----|-------|-------|-------|-------|--|
| From | To | R | Description | Vg | Smp# | From | To | Au | |
| | 486.3 | | Con. | | | | | | |
| | | | 466.1-466.2 irreg bnd as 413.7-416.3; | | | | | | |
| | | | U ct $\approx 80^\circ$; L ct v irreg w felds | | | | | | |
| | | | porph appearing to invade altd | | | | | | |
| | | | basalt. | | | | | | |
| | | | 468.3 - 469.2 as 413.7-416.3; cts | | | | | | |
| | | | $\approx 80^\circ - 85^\circ$; v sly ex | | | | | | |
| | | | 469.60-469.65 & 470.35-470.40 as | | | | | | |
| | | | 413.7-416.3; adj felds porph is | | | | | | |
| | | | sly ex along fract | | | | | | |
| | | | 472.5-472.9 as 413.7-416.3; U ct | | | | | | |
| | | | broken; L ct $80-85^\circ$ | | | | | | |
| | | | 476.3-476.7 as 413.7-416.3; core | | | | | | |
| | | | sly ground over; cts $\approx 85^\circ - 90^\circ$ | | | | | | |
| | | | 478.0 - 482.3 L.C. | | | | | | |
| | 493.2 | | d qz-grn basalt; vague varriolitic | | B1798 | 486.3 | 493.2 | | |
| | | | pillow margins | | | | | | |
| | | | 486.3-492.2 strongly blehd & altd | | | | | | |
| | | | adj to U ct (similar to 413.7-416.3 | | | | | | |
| | | | in this interval); has a weathered | | | | | | |



Hole No. Q-8ASARCO Diamond Drill LogPage 8 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz/st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|-------|-------|-------|----|--|--|
| | 493.2 | | Con. 486.3-493.2 Con. | | | | | | | |
| | | | appearance; core badly broken & ground over | | | | | | | |
| | | | 491.5-491.7 m grn basalt or UM rock ?? possibly an UM-derived | | | | | | | |
| | | | Sed. intruded & satd by basalt; vague f fragmental texture; vague f shring; \approx 1% py; U ct irreg @ 60°-70°; L ct \approx 70°-75° | | | | | | | |
| | | | 492.1-492.6 similar to 491.5-491.7 | | | | | | | |
| | 494.9 | | Basal Flow Bx? frags to 0.1' composed of m gy-grn basalt? & d grn-blk UM? in vf mtx of l-m & m gy-grn basalt. | | B1799 | 493.2 | 494.9 | | | |
| | 496.8 | | Cherty Interflow Sediment? appears to be slightly different from the siliceous porphyry or "rhyolite" unit @ 486.3; composed of pk to gy cherty Qtz & some carb; bnds & f partings grn chloritic material- | | B1800 | 494.9 | 496.8 | | | |

GEOLOGICAL ASS
 Full Sample
 111

Hole No. Q-8ASARCO Diamond Drill LogPage 9 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____ Depth _____

Collar Co-ord. _____

Elev. _____ Angle _____

Azimuth _____ Dip Tests _____

oz/st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|-------|-------|-------|----|--|--|
| | 496.8 | | Con. esp. near base of unit (probably hyaloclastite); vague f bxn in upper part; v num vf irreg fract filled w grn chl & wh carb; occ - num later? Fracts mainly @ 20°-40° filled w wh calcite (one fract adj to base of unit filled w abund wh calcite & occ patches pale yellow to amber Sphal.) | | | | | | | |
| | | | | | | | | | | |
| | 497.3 | | m qz-grn to d grn finely laminated fragmental rock, possibly f UM hyaloclastite or tuff; v thin, irreg partings & frags carb (dol); ≈ 1% f dissem py; $\angle s \approx 80^\circ$ | | | | | | | |
| | 511.4 | | l-m qz-grn & yellowish-grn to m qz-grn | | B1801 | 496.8 | 501.8 | | | |

ASARCO
Jett Lampala

Hole No. Q-8ASARCO Diamond Drill LogPage 10 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz/st |
|------|-------|---|---|----|------|-------|-------|-------|-------|
| | 511.4 | | Con. | | | | | | |
| | | | to d grn, vaguely bxd & irregularly | | | B1802 | 501.8 | 506.8 | |
| | | | blchd & mottled UM rock ?? or | | | B1803 | 506.8 | 511.4 | |
| | | | Basalt ??? (probably an UM | | | | | | |
| | | | hyaloclastite); has a baked appearance, | | | | | | |
| | | | moderate carb altn (dol); carb | | | | | | |
| | | | altn is strongest adj to U ct; | | | | | | |
| | | | occ vf irreg fractr filled w wh | | | | | | |
| | | | carb (calcite & /or dol); ~ 1% | | | | | | |
| | | | dissem py | | | | | | |
| | | | 509.9 - 511.2 0.02' fract @ 20°-25° | | | | | | |
| | | | filled w wh calcite | | | | | | |
| | | | grades to | | | | | | |
| | 538.7 | | d grn-blk massive UM rock | | | B1804 | 511.4 | 516.4 | |
| | | | (massive serpentinite); abund f | | | | | | |
| | | | dissem yellowish-brn altn mineral; | | | | | | |
| | | | prom. network of vf & f irreg | | | | | | |
| | | | fractr filled w wh carb (dol) & | | | | | | |
| | | | minor grn talc; 2-5% dissem mag; | | | | | | |
| | | | ≤ 1% f py, dissem & conc along f fractr | | | | | | |

Q-8 Sample

Hole No. Q-8ASARCO Diamond Drill LogPage 11 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 538.7 | | Con. | | | | | | | |
| | | | 525.0-525.5 m-d gy-grn chloritic basalt dike; cts 80°-85° | | | | | | | |
| | | | 528.5-531.1 m-d gy-grn chloritic basalt dike; U ct 80°; L ct ≈ 60° | | | | | | | |
| | 539.9 | | Fault Gouge & Bx | | | | | | | |
| | 540.3 | | Bxd UM rock | | | | | | | |
| | 541.3 | | Lost Core | | | | | | | |
| | 543.5 | | Bxd UM rock; ground over core; one 0.2' piece of wh carb | | | | | | | |
| | 551.2 | | Lost Core | | | | | | | |
| ≈ | 556.0 | | d grn-blk talc-chl altd UM rock; bxd; minor to loc moderate dissem carb altn (dol) of talc-chl bx frags; occ-num sml broken partings & bx frags of wh carb (dol); loc possibly some vague spinifex texture; ≈ 1% dissem py. | | | | | | | |
| | 561.0 | | Lost Core | | | | | | | |
| | 646.0 | | UM as @ 556.0; foliation 70° to contort; ≈ 1% dissem py; loc 2-3% | | | | | | | |

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Get Samples

Hole No. Q-8ASARCO Diamond Drill LogPage 12 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

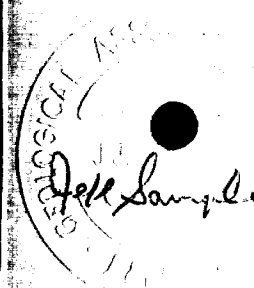
Angle _____

Azimuth _____

Dip Tests _____

oz./st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|-------|-------|-------|----|--|--|
| | 646.0 | | Con. | | | | | | | |
| | | | dissem mag; loc rare sml patch hem. stained carb. | | | | | | | |
| | | | 578.0 - 578.3 Fault Bx | | | | | | | |
| | | | 578.6? - 580.7 L.C. | | | | | | | |
| | 646.3 | | Fault Bx & Gouge | | | | | | | |
| | 647.0 | | UM rock similar to 646.0 | | | | | | | |
| ≈ | 650.0 | | d grn-blk talc-chl altd UM rock; prom vc spinifex texture defined by abund dissem carb altn; ≤ 1% f dissem py | | | | | | | |
| | 660.3 | | d grn-blk talc-chl altd UM rock; bxd; abund dissem carb altn; num irreg partings, broken partings & veins wh carb 651.3 - 651.7 wh carb & pale grn talc bx vein; cts ≈ 50° | | | | | | | |
| | 662.7 | | as @ 660.3 but strongly blehd; 10-15% mag & hem (mainly hem) dissem & conc along a network | | B1805 | 660.3 | 662.7 | | | |



Hole No. Q-8ASARCO Diamond Drill LogPage 13 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz/st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|------------------------------------|----|-------|-------|-------|----|--|--|
| | 662.7 | | Con. | | | | | | | |
| | | | of f fract; rare - occ c cubes | | | | | | | |
| | | | Py | | | | | | | |
| | 681.0 | | d grn - blk talc-chl altd UM rock; | | B1806 | 676.0 | 681.0 | | | |
| | | | bx d; vague c spinifex texture; | | | | | | | |
| | | | num wh carb bx frags in upper | | | | | | | |
| | | | part; minor dissem carb altn in | | | | | | | |
| | | | upper part increasing to abund | | | | | | | |
| | | | dissem carb altn between 672.5 | | | | | | | |
| | | | & 677.0 | | | | | | | |
| | 683.4 | | wh, massive qtz-feldc intrusive; | | B1807 | 681.0 | 683.4 | | | |
| | | | difficult to distinguish texture - | | | | | | | |
| | | | appears to be mainly wh feldc | | | | | | | |
| | | | (albite?) & wh carb (dol) in a | | | | | | | |
| | | | mtx of wh silica; much of the | | | | | | | |
| | | | silica may be secondary?? occ | | | | | | | |
| | | | irreg healed fract; or veins to | | | | | | | |
| | | | 0.04" filled w wh qtz; abund f | | | | | | | |
| | | | spks grn chl & f spks hem stain | | | | | | | |
| | | | dissem & conc along a network of | | | | | | | |

ASARCO
 13/11/80
 Sample

Hole No. Q-8ASARCO Diamond Drill LogPage 14 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz/st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|-------|-------|-------|----|--|--|
| | 683.4 | | Con. | | | | | | | |
| | | | vf - f irreg frags; rare spks dissem py; L ct $\approx 45^\circ - 50^\circ$ | | | | | | | |
| | 688.4 | | UM rock similar to 680.0 | | B1808 | 683.4 | 688.4 | | | |
| | | | 687.5 - 688.0 pale pk qtz bx vein; minor wh carb @ margins; cts $\approx 60^\circ$ | | | | | | | |
| | 710.5 | | wh to sly pk intrusive rock similar to 682.4; U ct bxd \angle s $\approx 80^\circ - 85^\circ$? L ct irreg @ \approx $60^\circ - 70^\circ$; $\leq 1\%$ py, dissem & in rare-occ irreg patches; rare sml patches cp | | B1809 | 688.4 | 693.4 | | | |
| | | | | | 10 | 693.4 | 698.4 | | | |
| | | | | | 11 | 698.4 | 703.4 | | | |
| | | | | | 12 | 703.4 | 708.4 | | | |
| | | | | | B1813 | 708.4 | 710.5 | | | |
| | 757.9 | | d grn-blk talc-chl altd UM rock; bxd; gen moderate dissem carb altn of talc-chl frags; num partings, broken partings & bx frags wh carb; probably $\approx 25\%$ total carb, increasing to 30-35% total carb w depth (dissem carb + partings + bx frags); | | B1814 | 710.5 | 715.5 | | | |

ASARCO
 Sample

Hole No. Q-8ASARCO Diamond Drill LogPage 15 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 757.9 | | Con. | | | | | | | |
| | | | Some talc-chl frags display spinifex texture; loc abund pale grn talc mtx; foliation mainly contort; \angle s loc 45° , loc 75° ; loc occ-num dissem spks & loc rare-occ lge patches py (probably $\approx 1\%$ py overall); v loc 2-3% dissem mag | | | | | | | |
| | | | 724.5-724.8 irreg patch wh to sly pkish qtz; c-bxd w mtx of clear to wh qtz | | | | | | | |
| | | | 757.4-757.7 mixed (interbndd) talc-chl rock & wh carb w apple grn fuchsitic staining; \angle s $\approx 55^\circ-65^\circ$ | | | | | | | |
| | 7579 | | Foot of Hole (231 m) | | | | | | | |
| | | | Hole plugged w 8 bags cement. | | | | | | | |

Geek Sample

Hole No. Q-9ASARCO Diamond Drill LogPage 1 of 15Logged by Jeff SampleNighthawk ProjectContractor Bradley Bros. LimitedDate Logged August 1984 Date Drilled July 16-27, 1984 Core Size BQ Depth 1046.6 ft.Collar Co-ord. 5334 (ft.) South 8158 (ft.) East Elev. Not Surveyed Angle Vertical

Hole Q-9 is located 280 ft. South & 434 ft. East of Post No. 4, Claim No. 528597, Macklem Twp

Azimuth _____

Dip Tests 75m 86°30' 150m 85°45' 225m 85°00' 300m 84°15'

(Feet)

(Corrected)

oz./ft

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|---------|-------|-------|------|--|--|
| | 0.0 | | Collar | | | | | | | |
| | 112.0 | | Overburden | | | | | | | |
| | 162.4 | | M; d grn-blk talc-chl altd UM rock | | DS 0032 | 112.0 | 117.0 | tr | | |
| | | | or komatiitic basalt gradational to | | 33 | 117.0 | 122.0 | tr | | |
| | | | carbonate rock; bxd; strong dissem | | 34 | 122.0 | 127.0 | .002 | | |
| | | | carb altn (dol & v loc minor calcite) | | 35 | 127.0 | 132.0 | tr | | |
| | | | & abund wh-l gy carb (dol) as f, | | 36 | 132.0 | 137.0 | tr | | |
| | | | irreg partings & as bx mtx; loc | | 37 | 137.0 | 142.0 | .002 | | |
| | | | num (later?) irreg frags to 0.02' | | 38 | 142.0 | 147.0 | .002 | | |
| | | | filled w wh qtz & lesser wh dol; | | 39 | 147.0 | 152.0 | .002 | | |
| | | | mod. to loc strong yellow-brn | | 40 | 152.0 | 157.0 | .006 | | |
| | | | oxidation stain, mainly confined | | 41 | 157.0 | 162.4 | .004 | | |
| | | | to bx mtx; partings loc produce | | | | | | | |
| | | | foliation @ 40°-80°-45°-55°; | | | | | | | |
| | | | v loc minor grn fuchsitic stain; | | | | | | | |
| | | | < 1% py, dissem & loc conc. along | | | | | | | |
| | | | f frags. | | | | | | | |
| | 170.3 | | C; gy to apple grn (fuchsitic) carbonate | | 42 | 162.4 | 167.4 | .010 | | |
| | | | rock; somewhat gradational from mixed | | DS 43 | 167.4 | 170.3 | .016 | | |
| | | | unit above; vague foliation, mainly | | | | | | | |

JEFF SAMPLE
GEOLOGICAL ENGINEER

Hole No. Q-9ASARCO Diamond Drill LogPage 2 of 15

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

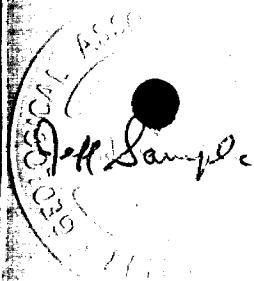
Angle _____

Azimuth _____

Dip Tests _____

oz./ft.

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|--------|-------|-------|------|--|--|
| | 170.3 | | Con. | | | | | | | |
| | | | $\approx 50^\circ$; loc bxd; loc abund yellow-brn Fe oxide stain; loc occ - num, irreg, discontinuous wh qtz lenses or "eyes" & rare - loc num wh qtz veins & bx veins ($\approx 5-10\%$ wh qtz overall); $\leq 1\%$ dissem py; basal 0.3' strongly altd & silicified. | | | | | | | |
| | 178.4 | | C; apple grn f carbonate rock; finely foliated @ $\approx 50^\circ - 60^\circ$; may be a carbonatized sediment (hyaloclastite); loc minor bxn; occ f; irreg frags filled w wh qtz & /or wh carb; $\leq 1\%$ dissem py | | DS0044 | 170.3 | 175.3 | .024 | | |
| | | | 178.2 - 178.3 wh qtz bx vein @ 70° (nearly \perp to foliation) | | 45 | 175.3 | 178.4 | .020 | | |
| | 246.0 | | C; carbonate rock; apple grn where not oxidized; bxd; 5-10% wh qtz veining; $\leq 1\%$ dissem py | | 46 | 178.4 | 183.4 | .012 | | |
| | | | | | 47 | 183.4 | 188.4 | .016 | | |
| | | | | | 48 | 188.4 | 193.4 | .006 | | |



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Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz./ft.

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|--------|-------|-------|------|--|--|
| | 246.0 | | Con. | | DS0049 | 193.4 | 198.4 | .010 | | |
| | | | 185.0-203.4, 208.5-209.2, 212.7-214.3 | | 50 | 198.4 | 203.4 | .002 | | |
| | | | v v strong fe oxide stain | | 51 | 203.4 | 208.4 | .008 | | |
| | | | 213.3 - 213.9 wh qtz vein (core broken) | | 52 | 208.4 | 213.4 | .006 | | |
| | | | 226.9 - 227.3 wh to smokey qtz bx | | 53 | 213.4 | 218.4 | .004 | | |
| | | | vein ; U & L cts 80°-85° | | 54 | 218.4 | 223.4 | .004 | | |
| | | | 245.8-246.0 wh qtz vein | | 55 | 223.4 | 228.4 | .002 | | |
| | | | | | 56 | 228.4 | 233.4 | tr | | |
| | | | | | 57 | 233.4 | 238.4 | .010 | | |
| | | | | | 58 | 238.4 | 243.4 | .014 | | |
| | | | | | 59 | 243.4 | 246.0 | .020 | | |
| | 259.2 | | m gy to beige, massive, fg Albitite? | | 60 | 246.0 | 251.0 | .191 | | |
| | | | intrusive rock ; cut by a network of | | 61 | 251.0 | 253.1 | | | |
| | | | v num, irreg, wh qtz - filled fracts | | 62 | 253.1 | 254.1 | | | |
| | | | 8-10% dissem py ; U ct 40° ? (ct | | 63 | 254.1 | 259.2 | .119 | | |
| | | | ground over ; L ct ≈ 90° ? sly ox & | | | | | | | |
| | | | sly ground over | | | | | | | |
| | | | 253.6 tiny smear of visible gold | | | | | | | |
| | | | on corner of 0.01' py Xl. | | | | | | | |
| | 264.8 | | C ; apple grn & gy carbonate rock ; var | | 64 | 259.2 | 264.8 | .040 | | |

Geological
 Jeff Sample

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Elev. _____

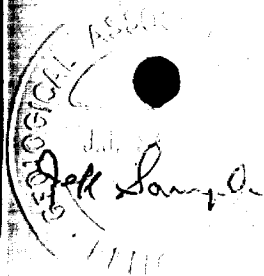
Angle _____

Azimuth _____

Dip Tests _____

oz/st.

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|-------|-------|---|--|-------|---------|-------|-------|------|--|--|
| | 264.8 | | Con. | | | | | | | |
| | | | oxidized; foliated @ 50° to loc | | | | | | | |
| | | | massive; loc vague bxn; U ct ≈ 90°? | | | | | | | |
| | | | L ct. irreg ≈ 45° | | | | | | | |
| | | | 259.7 - 260.8 strongly oxidized | | | | | | | |
| 290.7 | | | Albitite? intrusive as @ 259.2; | | DS 0065 | 264.8 | 270.7 | .083 | | |
| | | | 5-10% dissem py | 271.2 | 66 | 270.7 | 271.7 | .254 | | |
| | | | 271.2 sml spk visible gold in wh qtz | | 67 | 271.7 | 276.7 | | | |
| | | | assoc. w patches of py | | 68 | 276.7 | 281.7 | | | |
| | | | 284.1 sml spk visible gold in vf fract | | 69 | 281.7 | 283.6 | | | |
| | | | in silicified albitite. | 284.1 | 70 | 283.6 | 284.6 | | | |
| | | | | | 71 | 284.6 | 290.7 | .081 | | |
| 292.4 | | | C; carbonate rock much as @ 264.8 | | 72 | 290.7 | 292.4 | .028 | | |
| 317.5 | | | M; d grn-blk talc-chl altd UM rock | | 73 | 292.4 | 297.4 | .036 | | |
| | | | or Komatiitic Basalt gradational to | | 74 | 297.4 | 302.4 | .012 | | |
| | | | Carbonate Rock (dol); v similar to | | 75 | 302.4 | 307.4 | .048 | | |
| | | | 162.4 but not quite as strongly carb | | 76 | 307.4 | 312.4 | .006 | | |
| | | | altd; bxd; bx mtx is gen v strongly | | 77 | 312.4 | 317.5 | .014 | | |
| | | | oxidized; loc vague foliation @ ≈ | | | | | | | |
| | | | 50°-40°; v loc num c patches py | | | | | | | |



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Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz/st.

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|--------|-------|-------|------|--|--|
| | 317.5 | | Con. | | | | | | | |
| | | | 296.5 v thin fault slip @ 40° | | | | | | | |
| | | | 297.4 - 298.2 wh carb vein | | | | | | | |
| | | | Basal 2.5' of unit gradational to unit below | | | | | | | |
| | 352.3 | | C; 1-m gy carbonate rock; bxd; gen | | D50078 | 317.5 | 322.5 | .010 | | |
| | | | num; v irreg; blk stylolitic partings; | | 79 | 322.5 | 327.5 | .006 | | |
| | | | loc minor pale turquoise to apple | | 80 | 327.5 | 332.5 | .006 | | |
| | | | grn coloration; v loc grades to mixed | | 81 | 332.5 | 337.5 | .004 | | |
| | | | carb & talc-chl rock; loc vague | | 82 | 337.5 | 342.5 | .002 | | |
| | | | foliation @ 40°-80°-70°; occ spots | | 83 | 342.5 | 347.5 | .002 | | |
| | | | & patches wh qtz & occ qtz veins gen | | 84 | 347.5 | 352.3 | .028 | | |
| | | | < 0.1' thick (5-10% wh qtz overall); | | | | | | | |
| | | | occ spks & patches py, possibly 2% overall | | | | | | | |
| | | | 320.0 - 322.6 strongly oxidized | | | | | | | |
| | | | 336.4 - 340.7 weakly to moderately oxidized | | | | | | | |
| | 455.3 | | TA; d grn-blk talc-chl altd UM rock; | | 85 | 352.3 | 357.3 | Tr | | |
| | | | bxd; gen mod. - strong dissem carb | | | | | | | |
| | | | altn (dol); num sml wh carb bx frags; | | | | | | | |
| | | | rock mtx plus minor wh-lgy carb mtx; | | | | | | | |

Rock Sample

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Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

oz/st

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|--------|-------|-------|----|--|--|
| | 455.3 | | Con. | | | | | | | |
| | | | amt of carb mtx increases w depth, | | | | | | | |
| | | | also, loc some pale grn talc mtx; v loc | | | | | | | |
| | | | v vague spinifex texture in bx frags; | | | | | | | |
| | | | loc vague foliation @ 80°-40° - loc | | | | | | | |
| | | | contort & rolling along core, | | | | | | | |
| | | | ≤ 1% dissem py | | | | | | | |
| | | | 323.4 - 323.6 core sly ground | | | | | | | |
| | | | over & gougey - doubtful fault ?? | | | | | | | |
| | | | 357.5 - 360.9 & 372.3 - 377.0 L.C. | | | | | | | |
| | | | core ground | | | | | | | |
| | 461.4 | | M; d grn-blk talc-chl altd UM | | DS0086 | 455.3 | 461.4 | | | |
| | | | rock gradational to carb rock; | | | | | | | |
| | | | bx d; ≤ 1% dissem py | | | | | | | |
| | 466.5 | | C; l-m qy carbonate rock; bx d; | | 87 | 461.4 | 466.5 | Tr | | |
| | | | somewhat gradational to mixed | | | | | | | |
| | | | talc-chl-carb rock; num irreg | | | | | | | |
| | | | patches or bx frags wh qtz; occ | | | | | | | |
| | | | spks dissem py; 0.5' wh qtz vein @ | | | | | | | |
| | | | upper ct. | | | | | | | |

Q-9 Sample

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Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz./ft. |
|-----------|-------|---|---|----|---------|-------|-------|------|---------|
| | 468.5 | | Wh Qtz Vein; U ct $\approx 40^\circ$; L ct $\approx 25^\circ$ & oblique to U ct | | DS 0088 | 466.5 | 468.5 | .010 | |
| | 469.2 | | M; mixed talc-chl & carb as @ 461.4 | | 89 | 468.5 | 469.2 | .014 | |
| | 479.5 | | TA; d grn-blk talc-chl altd UM rock; strongly bxd; foliation rolls in & out along core axis, v loc fairly contort; mainly rock mtx w lesser amt wh-lgy carb, & still less pale grn talc mtx; $\leq 1\%$ dissem py grades to | | 90 | 469.2 | 474.2 | .002 | |
| \approx | 488.0 | | M; d grn-blk talc-chl altd UM rock gradational to carbonate rock; bxd; vague foliation rolling in & out along core axis; $\leq 1\%$ dissem py grades to | | | | | | |
| \approx | 491.0 | | TA \rightarrow M; d grn-blk talc-chl altd UM rock; bxd; similar to 479.5 but gradational to mixed talc-chl -carb rock similar to 488.0; gen mod-strong dissem carb altn; | | | | | | |

J. L. Langel

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Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz./st. |
|------|-------|---|--------------------------------------|----|--------|-------|-------|------|---------|
| ≈ | 491.0 | | Con. | | | | | | |
| | | | foliation rolls in & out along core | | | | | | |
| | | | axis - 50° - 30° | | | | | | |
| | | | grades to | | | | | | |
| | 514.2 | | TA; much as @ 479.5; foliation | | | | | | |
| | | | 30° - rolling along core | | | | | | |
| | 514.5 | | Fault Rx & Gouge; slip @ 45° ?? | | | | | | |
| | 517.2 | | TA; much as @ 479.5; foliation | | | | | | |
| | | | @ 30° - contort | | | | | | |
| | 542.2 | | MD; d grn, massive mafic dike? | | DS0091 | 517.2 | 522.2 | .012 | |
| | | | m.g.; var chloritic & carb altd; | | 92 | 522.2 | 527.2 | .008 | |
| | | | loc sly hem stained; ≤ 1% dissem | | 93 | 527.2 | 532.2 | | |
| | | | py; 1-3% dissem mag; v loc rare | | 94 | 532.2 | 537.2 | .044 | |
| | | | - occ spks cp; occ-num v irreg | | 95 | 537.2 | 542.2 | .042 | |
| | | | fracts & v loc C-bx w wh | | | | | | |
| | | | carb & /or wh qtz mtx; Uct | | | | | | |
| | | | broken, appears to be x 70°-80°; | | | | | | |
| | | | chloritic intrusive bx over x 3' @ U | | | | | | |
| | | | ct; chloritic intrusive bx over 1' @ | | | | | | |
| | | | base; lct 60° | | | | | | |

LOGICAL
 Sample

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Elev. _____

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Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz./ft. |
|------|-------|---|--|----|--------|-------|-------|----|---------|
| | 543.0 | | TA; talc-chl altd UM rock as @ 479.5 | | | | | | |
| | 545.0 | | Fault Bx & Gouge; U ct \approx 80°? L ct \approx 60°? | | | | | | |
| | 672.7 | | TA & TA \rightarrow M; d grn-blk talc-chl altd UM rock & talc-chl grading to mixed talc-chl & carb rock; strongly shrd & bxd; abund wh carb (dol) & pale grn talc mtx; loc num irreg wh carb partings; weak-mod & v loc strong dissem carb altn; loc some v vague spinifex texture; \leq 1% dissem py; foliation rolling along core - 40°- 45° & loc contort | | DS0096 | 667.7 | 672.7 | tr | |
| | | | 560.5-560.8 Fault gouge & bx, ctc 45° | | | | | | |
| | | | 604.0 - 606.7 num frags wh carb. | | | | | | |
| | | | \approx 651-652 lge bx frag w prem. vc-vvc spinifex texture | | | | | | |


 Get Sample

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Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz/st |
|------|-------|---|---|----|--------|-------|-------|------|-------|
| | 678.0 | | M; d grn-blk talc-chl altd UM rock gradational to l-m gy carb rock; loc bxd; num carb partings producing foliation @ 70°-80°; ≤ 1% dissem py | | DS0097 | 672.7 | 678.0 | tr | |
| | 693.2 | | C; l-m gy to sly grnish carb. rock; loc bxd; v num, v irreg thin blk stylolitic partings; occ - num irreg patches & occ veins whqtz (≈ 5-10% qtz in upper part, increasing to ≈ 25% over basal 5 ft.); ≤ 1% dissem py grades to | | 98 | 678.0 | 683.0 | tr | |
| | | | | | 99 | 683.0 | 688.0 | tr | |
| | | | | | 100 | 688.0 | 693.2 | tr | |
| | 703.7 | | M; massive talc-chl altd UM rock; v strong dissem l gy carb altn; occ spks dissem py; loc vague foliation @ ≈ 60°-70° grades to | | 101 | 693.2 | 698.2 | tr | |
| | | | | | 102 | 698.2 | 703.7 | .012 | |
| | 736.4 | | TB; d grn-blk talc-chl altd UM rock; massive; strong to moderate | | 103 | 731.4 | 736.4 | tr | |

John Sampson

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Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz./ft. |
|------|-------|---|--|----|---------|-------|-------|------|---------|
| | 736.4 | | Con. | | | | | | |
| | | | dissem carb altn; vague foliation | | | | | | |
| | | | @ $\approx 70^\circ - 45^\circ - 35^\circ - 40^\circ - 60^\circ$; occ | | | | | | |
| | | | spks dissem py | | | | | | |
| | | | grades to | | | | | | |
| | 738.2 | | M; talc-chl altd UM rock | | DS 0104 | 736.4 | 738.2 | tr | |
| | | | grading to carbonate rock; | | | | | | |
| | | | foliation @ $\approx 55^\circ - 60^\circ$ | | | | | | |
| | | | grades to | | | | | | |
| | 815.0 | | C; l-m gy, v rapidly grading to apple | | 105 | 738.2 | 743.2 | tr | |
| | | | grn carbonate rock; ranges from | | 106 | 743.2 | 748.2 | tr | |
| | | | foliated @ $\approx 55^\circ$ to irregularly | | 107 | 748.2 | 753.2 | tr | |
| | | | brd; loc num f blk stylolitic | | 108 | 753.2 | 758.2 | .014 | |
| | | | partings; $\approx 1\%$ dissem spks & | | 109 | 758.2 | 763.2 | tr | |
| | | | patches py | | 110 | 763.2 | 768.2 | tr | |
| | | | 738.2 - ≈ 745 rare wh qtz veins | | 111 | 768.2 | 773.2 | tr | |
| | | | $\approx 745 - \approx 763$ num v irreg wh qtz | | 112 | 773.2 | 778.2 | tr | |
| | | | veins (comprising $\approx 10-20\%$ of the rock) | | 113 | 778.2 | 783.2 | tr | |
| | | | $\approx 763 - 815$ $\approx 8-10\%$ wh qtz veining | | 114 | 783.2 | 788.2 | .014 | |
| | | | 738.2 - 739.2, 740.5 - 741.5, 788.2 - 796.5, | | 115 | 788.2 | 793.2 | tr | |

J. K. Sample

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Azimuth _____

Dip Tests _____

oz./st.

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|-------|-------|----|--|--|
| | 815.0 | | Con. | | 116 | 793.2 | 798.2 | tr | | |
| | | | 798.2 - 804.0, 812.0 - 814.0 2-4% | | 117 | 798.2 | 803.2 | tr | | |
| | | | dissem mag | | 118 | 803.2 | 808.2 | tr | | |
| | | | 764.4 one sml patch cp | | 119 | 808.2 | 813.2 | tr | | |
| | 836.6 | | C; gy to pale grnish carb rock & | | 120 | 813.2 | 815.0 | tr | | |
| | | | carb rock transitional to mixed | | 121 | 815.0 | 820.0 | tr | | |
| | | | talc-chl-carb; var. bxd; loc | | 122 | 820.0 | 825.0 | tr | | |
| | | | some irreg foliation $\approx 80^\circ - 45^\circ -$ | | 123 | 825.0 | 830.0 | tr | | |
| | | | contort; occ - num vv irreg wh | | 124 | 830.0 | 835.0 | tr | | |
| | | | qtz veins & irreg fract fillings | | 125 | 835.0 | 836.6 | tr | | |
| | | | ($\approx 5-8\%$ wh qtz overall); $\leq 1\%$ | | | | | | | |
| | | | dissem py; loc 2-3% dissem mag, | | | | | | | |
| | | | basal ct 45° | | | | | | | |
| | 903.1 | | T _A , some T _B ; d grn-blk talc-chl altd | | 126 | 836.6 | 841.6 | tr | | |
| | | | UM rock; bxd; loc sml massive zones; | | | | | | | |
| | | | weak & loc mod dissem carb altn; | | | | | | | |
| | | | rock mtx plus loc abund pale grn | | | | | | | |
| | | | talc & minor wh carb mtx; loc | | | | | | | |
| | | | wh - l gy carb bx veins & /or num | | | | | | | |
| | | | irreg wh - l gy carb partings; v loc | | | | | | | |

J.R. Sample

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Collar Co-ord. _____

Elev. _____

Angle _____

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Dip Tests _____

| From | To | R | Description | Vg | Smp# | oz./ft. | | | |
|------|-------|---|--|----|----------------|----------------|----------------|------------|--|
| | | | | | | From | To | Au | |
| | 903.1 | | Con. | | | | | | |
| | | | v vague spinifex texture; $\leq 1\%$ dissem spks & c cubes py | | | | | | |
| | | | 837.9 - 838.1 wh - 1 gy carb; cts \approx 80° | | | | | | |
| | | | 838.9 - 839.6, 840.7 - 842.2, 858.7 - 859.1 v num v irreg partings wh - 1 gy carb | | | | | | |
| | | | 860.6 - 861.4, 870.3 - 870.8 wh carb bx veins. | | | | | | |
| | | | 871.8 - 872.7, 875.3 - 876.6 carb rock | | | | | | |
| | | | 876.6 - \approx 902.5 core shrd & fract @ 30° - rolling along core; narrow probable fault slips @ 886.0 & 890.5; loc strong dissem carb altn; core gen badly broken. | | | | | | |
| | 903.3 | | Fault Bx; thin fault slip @ 50° | | | | | | |
| | 904.0 | | Lost Core | | | | | | |
| | 928.9 | | C \rightarrow M & some M; l-m gy & d grnsh- gy carbonate rock transitional to | | DS 0127 128 | 904.0 909.0 | 909.0 914.0 | .010 tr | |

Jeff Sample

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Elev. _____

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Azimuth _____

Dip Tests _____

oz./st.

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|--------|-------|-------|------|--|--|
| | 928.9 | | Con. | | DS0129 | 914.0 | 919.0 | .002 | | |
| | | | mixed talc-chl-carb rock; some | | 130 | 919.0 | 924.0 | | | |
| | | | zones of mixed talc-chl-carb rock; | | 131 | 924.0 | 928.9 | | | |
| | | | bx'd; gen v num, v irreg, v thin blk | | | | | | | |
| | | | partings; loc occ spks dissem py. | | | | | | | |
| | 931.1 | | Fault Bx & Gouge | | 132 | 928.9 | 931.1 | | | |
| | 947.7 | | Fault Bx; strongly bx'd talc-chl rock; | | 133 | 931.1 | 936.1 | | | |
| | | | loc sly ground over; loc thin slips | | 134 | 936.1 | 941.1 | | | |
| | | | @ 30° - along core | | 135 | 941.1 | 946.1 | | | |
| | | | 945.0 0.08' wh carb vein @ 15-20° | | | | | | | |
| | 949.4 | | TA; d grn-blk talc-chl altd UM | | | | | | | |
| | | | rock; bx'd; minor dissem carb | | | | | | | |
| | | | altn of bx frags; abund wh carb | | | | | | | |
| | | | & lesser amt pale grn talc mtx; | | | | | | | |
| | | | ≤ 1% dissem spks & patches py | | | | | | | |
| | 950.5 | | MD?; mafic intrusive? as @ | | | | | | | |
| | | | 542.2; U ct 80-85°; L ct irreg | | | | | | | |
| | | | @ ≈ 60° in opp. direction | | | | | | | |
| | 981.0 | | TA; as @ 949.4; minor to loc mod. | | | | | | | |
| | | | & v loc strong dissem carb altn; | | | | | | | |

Jok Lamp.

Hole No. Q-9ASARCO Diamond Drill LogPage 15 of 15Logged by Jeff SampleNighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____ Dip Tests _____

(Feet)

| From | To | R | Description | Vg | Smp# | From | To | Au | | | |
|------|--------|---|-------------------------------|----|------|------|----|----|--|--|--|
| | 981.0 | | Con. | | | | | | | | |
| | | | loc occ-num wh carb bx frags; | | | | | | | | |
| | | | loc vague spinifex texture | | | | | | | | |
| | 990.0 | | Fault Bx of some Gauge; U ct | | | | | | | | |
| | | | ≈ 45°? L ct broken | | | | | | | | |
| | 1044.2 | | TA; as @ 981.0 | | | | | | | | |
| | 1046.6 | | Lost Core? | | | | | | | | |
| | 1046.6 | | Foot of Hole (319m) | | | | | | | | |
| | | | Hole plugged w 7 bags cement. | | | | | | | | |
| | | | | | | | | | | | |
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GEOLOGICAL ASSOCIATION
 Jeff Sample

Hole No. Q-10ASARCO Diamond Drill LogPage 1 of 6Logged by Jeff SampleNighthawk ProjectContractor Bradley Bros. LimitedDate Logged August 1984 Date Drilled July 30 - Aug. 13, 1984 Core Size BQ Depth 597.1 ft.Collar Co-ord. 4800 (ft.) South 7990 (ft.) East Elev. Not Surveyed Angle Vertical

Hole Q-10 is located 258 ft. North & 260 ft. East of Post No. 3, Claim No. 528598, Macklem Twp.

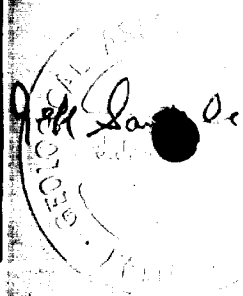
Azimuth _____

Dip Tests 150 m 90°00'

(Feet)

(Corrected)

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 0.0 | | Collar | | | | | | | |
| | 373.5 | | Overburden & broken bedrock. | | | | | | | |
| | 379.6 | | TB; d grn-blk talc-chl altd UM rock; massive; weak-moderate dissem carb altn; $\approx 1\%$ py (dissem & loc occ-num c xls). | | | | | | | |
| | 407.3 | | TA, some TB; d grn-blk talc-chl altd UM rock; var bxd; some more massive zones; weak to mod. dissem carb altn of bx frags; loc occ wh carb bx frags; mainly rock mtx; loc some wh-l gy carb mtx; loc prom. spinifex texture; $\approx 1\%$ dissem py | | | | | | | |
| | | | 383.4 - 385.4 spinifex | | | | | | | |
| | 414.0 | | C \rightarrow M; poorly defined carbonate horizon; $\approx 60\%$ wh-l gy carb w 40% relic chl & talc-chl material dissem within it; U ct poorly defined @ $\approx 45^\circ$; L ct irreg | | | | | | | |



Hole No. Q-10ASARCO Diamond Drill LogPage 2 of 6

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

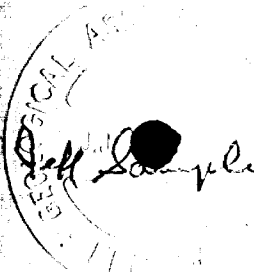
Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|-----------|-------|---|--|----|------|------|----|----|--|--|
| | 414.0 | | Con. | | | | | | | |
| | | | @ $\approx 70^\circ$ | | | | | | | |
| | | | 410.0 - 413.4 L.C.; core ground up | | | | | | | |
| \approx | 433.5 | | TA; d grn-blk talc-chl altd UM rock; bxd; minor to moderate $\frac{f}{l}$ loc strong dissem carb altn; some bx frags display spinifex texture; some wh-l gy carb rock frags; loc abund wh-l gy carb mtx; $\approx 1\%$ dissem py; core gen badly broken | | | | | | | |
| | | | 420.4 - 423.2 L.C. | | | | | | | |
| | 438.5 | | TB; similar to 379.6 | | | | | | | |
| | 442.9 | | TA; similar to 433.5 | | | | | | | |
| | 446.2 | | Lost Core | | | | | | | |
| | 451.8 | | TA; d grn-blk talc-chl altd UM rock; more strongly bxd $\frac{f}{l}$ shrd than unit @ 433.5; gen abund wh-l gy carb $\frac{f}{l}$ pale grn talc mtx; $\approx 1\%$ dissem py; shring mainly @ $\approx 30^\circ$ - | | | | | | | |


 GEOLOGICAL ASSessor
 Seal
 Sample

Hole No. Q-10ASARCO Diamond Drill LogPage 3 of 6

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____ Depth _____

Collar Co-ord. _____

Elev. _____ Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 451.8 | | Con. | | | | | | | |
| | | | rolling along core | | | | | | | |
| | 452.3 | | Fault ? Bx ; cts $\approx 40^\circ$ | | | | | | | |
| | 452.8 | | L.C. | | | | | | | |
| | 456.0 | | TA; as @ 451.8 | | | | | | | |
| | 457.6 | | TA; as @ 433.5 | | | | | | | |
| | 462.6 | | L.C. | | | | | | | |
| | 464.8 | | TA; as @ 433.5 | | | | | | | |
| | 465.8 | | wh carb bx vein ; bx frags of pale grn talc ; Uct $\approx 40^\circ$; Lct $\approx 80^\circ$ | | | | | | | |
| | 466.8 | | TA ; as @ 433.5 | | | | | | | |
| | 469.8 | | TA ; more strongly bxd than @ 466.8 ; num wh carb bx frags ; abund wh carb & pale grn talc mtx | | | | | | | |
| | 472.4 | | L.C. | | | | | | | |
| | 482.5 | | TA ; d grn-blk talc-chl altd UM rock ; strongly bxd ; some frags display v vague spinifex texture ; weak - mod. - strong dissem carb altn of talc-chl frags ; some carb bx | | | | | | | |

ASARCO
 Diamond Drill Log
 Jeff Sampl

Hole No. Q-10ASARCO Diamond Drill LogPage 4 of 6

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

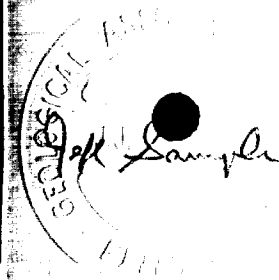
Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|-----------|-------|---|--|----|------|------|----|----|--|--|
| | 482.5 | | Con. | | | | | | | |
| | | | frags; mainly rock mtx w only | | | | | | | |
| | | | minor wh-lgy carb & pale grn | | | | | | | |
| | | | talc mtx; \approx 1% dissem py | | | | | | | |
| | | | 476.5 - 476.7 wh carb vein @ | | | | | | | |
| | | | 65° - 70° | | | | | | | |
| | | | 482.3 - 482.5 wh carb vein | | | | | | | |
| | | | @ 65° - 70° | | | | | | | |
| | 483.2 | | Fault ? Bx | | | | | | | |
| \approx | 533.2 | | TA; much as @ 482.5; core v | | | | | | | |
| | | | badly broken & ground over; | | | | | | | |
| | | | \approx 1% py, dissem & loc in occ lge | | | | | | | |
| | | | patches | | | | | | | |
| | | | 491.4 - 492.1 & 496.2 - 502.0 L.C. | | | | | | | |
| | | | 509.1 - 509.2 Fault Bx ? or Ground | | | | | | | |
| | | | Up Core ? | | | | | | | |
| | | | 509.5 - 511.8, 515.0 - 521.6, 523.7 - | | | | | | | |
| | | | 531.5 L.C. | | | | | | | |
| | | | 531.5 - 532.2 wh carb bx vein | | | | | | | |
| | | | @ 55° | | | | | | | |



Hole No. Q-10ASARCO Diamond Drill LogPage 5 of 6

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|------|------|----|----|--|--|
| | 556.1 | | Fault Bx & Gouge; slip surfaces mainly @ 40°-50° | | | | | | | |
| | | | 535.3 - 541.3, 546.0 - 551.2 L.C. | | | | | | | |
| ≈ | 570.5 | ? | TA; much as @ 482.5; core badly broken | | | | | | | |
| | | | 557.0 - 561.0 L.C. | | | | | | | |
| | | | ≈ 561.6 ?? - ≈ 562.0 ?? wh carb vein | | | | | | | |
| | | | 563.1 - 567.6 L.C. | | | | | | | |
| | 571.2 | | Fault Bx & Gouge; one prominent f slip @ 50° | | | | | | | |
| | 572.1 | | TA; as @ 482.5 | | | | | | | |
| | 573.2 | | Fault Bx | | | | | | | |
| | 594.7 | | TA; much as @ 482.5 | | | | | | | |
| | | | 574.8 - 577.4 L.C. | | | | | | | |
| | | | 582.20 ?? - 582.35 ?? Fault Bx & Gouge | | | | | | | |
| | | | 577.4 - 587.2 4.0' L.C. | | | | | | | |
| | | | 589.3 & 589.9 thin fault slips @ ≈ 75-80° | | | | | | | |
| | 595.3 | | Fault Gouge & Bx ?? or ground over material from unit below ?? | | | | | | | |


 ASARCO
 Sample

Hole No. Q - 10ASARCO Diamond Drill LogPage 6 of 6

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|------|------|----|----|--|--|
| | 596.6 | | TA; m gy to yellowish-grn talc-chl or talc-chl-carb rock; mod - abund dissem carb; v talcose; core ground over producing a pitted core surface w a silty texture. | | | | | | | |
| | 597.1 | | Lost Core | | | | | | | |
| | 597.1 | | Foot of Hole. | | | | | | | |
| | | | Hole caved & drillers were unable to get rods back down to 597.1. Hole was wedged @ 512.0 ft. & continued w a bull- nose bit. The rods intersected the old hole @ 554.5 ft. & stuck. The bull-nose bit was lost in the hole. Hole plugged w 4 bags of cement. | | | | | | | |

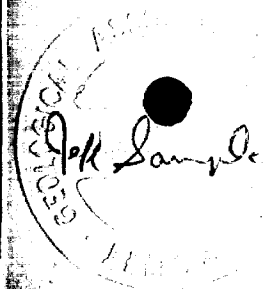
ASARCO
 157
 Sample

Hole No. Q-11ASARCO Diamond Drill LogPage 1 of 10Logged by Jeff SampleNighthawk ProjectContractor Bradley Bros. LimitedDate Logged August 1984 Date Drilled Aug 13-29, 1984 Core Size BQ Depth 835.0 feetCollar Co-ord. 6087 (ft.) South 5790 (ft.) East Elev. Not Surveyed Angle -55°Hole Q-11 is located 835 ft. North & 241 ft. West of Post No. 2, Claim No. 512830, Macklem Twp.Azimuth 340° Dip Tests 150m 54°45' 225m 55°30'

(Feet)

(Corrected)

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|---|----|------|------|----|----|--|--|
| | 0.0 | | Collar | | | | | | | |
| | 350.0 | | Overburden & broken bedrock | | | | | | | |
| | 358.0 | | d grn Komatiitic Basalt or Basalt grading to UM rock; massive to loc vaguely bxd & C-bxd; weak & weak to moderate dissem carb altn (calcite); occ - loc num v irreg frags filled w wh calcite; loc occ v irreg patches & partings (to 0.07' thick) l-m blue-gy porcellanous chert plus minor calcite; ~ 1% dissem spks & patches py | | | | | | | |
| | 365.7 | | Not cored - drilled w tri-cone bit. | | | | | | | |
| | 366.9 | | Komatiitic Basalt; much as @ 358.0. | | | | | | | |
| | 367.7 | | Fault Bx & Gouge ?? or Mudseam? U ct 80-85°; L ct ~ 70° ?? | | | | | | | |
| | 372.8 | | Komatiitic Basalt much as @ 358.0 core badly broken & ground over | | | | | | | |
| | 380.6 | | L. C. | | | | | | | |
| | 381.4 | | Bx & Gouge - Fault ?? or Mudseam?? | | | | | | | |



Hole No. Q-11ASARCO Diamond Drill LogPage 2 of 10

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 382.2 | | TA; zone or inclusion?? of dgn | | | | | | | |
| | | | -blk talc-chl altd UM rock; bxd; | | | | | | | |
| | | | ecc frags of wh carb (dol); | | | | | | | |
| | | | foliation $\approx 80^\circ$ | | | | | | | |
| | 386.4 | | Komatitic Basalt or Basalt grading | | | | | | | |
| | | | to UM rock; much as @ 358.0; | | | | | | | |
| | | | weak dissem carb altn (calcite & | | | | | | | |
| | | | some dol) | | | | | | | |
| | | | 383.2-383.4 wh qtz & calcite vein | | | | | | | |
| | | | cts 80° | | | | | | | |
| | | | 383.6-383.7 irreg parting blue-gy | | | | | | | |
| | | | porcellanous chert & calcite; cts | | | | | | | |
| | | | roughly 80° | | | | | | | |
| | | | 384.0-384.7 bxd w elongate frags | | | | | | | |
| | | | producing foliation @ $80^\circ - 90^\circ - 70^\circ$; | | | | | | | |
| | | | abund wh qtz & calcite mtx. | | | | | | | |
| | | | 386.1-386.3 v sly hem stained wh qtz | | | | | | | |
| | | | & calcite vein; v ct $\approx 80^\circ$; l ct | | | | | | | |
| | | | $\approx 65^\circ$ | | | | | | | |
| | | | grades to | | | | | | | |

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 GEOLOGICAL ENGINEER
 1971

Hole No. Q-11ASARCO Diamond Drill LogPage 3 of 10

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

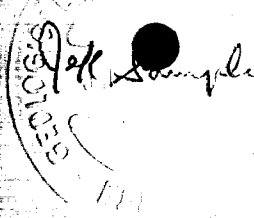
Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|---------------|---|---|----|------|------|----|----|--|--|
| | 530.0 | | d grn Komatiitic Basalt grading to talc-chl altd UM rock; massive; moderate dissem carb altn (calcite); loc occ - num irreg frags filled w sly hem stained wh calcite; v loc occ frags, irreg partings of vague healed bx w mtx of wh calcite & pale grn talc; $\leq 1\%$ dissem py | | | | | | | |
| | 409.4 | | lge irreg patches py & occ sml patches cp along irreg calcite filled fract. | | | | | | | |
| | 477.0 - 480.0 | | some irreg veins & patches porcellanous blue-gy chert & calcite | | | | | | | |
| | 485 | | some irreg veins & patches porcellanous blue-gy chert & calcite | | | | | | | |
| | 538.1 | | as @ 530.0 but loc has zones of vague healed bx; also, occ - num v irreg frags to 0.02' wide w mtx | | | | | | | |


 ASARCO
 Sample

Hole No. Q-11ASARCO Diamond Drill LogPage 4 of 10

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

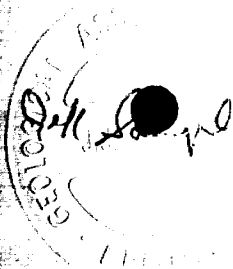
Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 538.1 | | Con. | | | | | | | |
| | | | of wh qtz & calcite & rare irreg patches wh qtz & calcite; Uct $\approx 70^\circ$; vague felted texture - possibly spinifex?? esp in lower part of unit. | | | | | | | |
| | 539.8 | | l-m gy w d grn-blk gm, carb (dol) altd Komatiitic Basalt?? vague felted texture - possibly spinifex? similar to base of overlying unit; 0.1' thick frag or irreg dike? of pk, fg, silic intrusive? rock @ upper ct; loc num 0.01-0.02' thick veins or partings wh qtz & carb (dol); foliation @ $\approx 60^\circ$; basal ct $\approx 55^\circ$; $\approx 1\%$ dissem py | | | | | | | |
| | 540.4 | | Hyaloclastite? d grn UM derived fg sediment? | | | | | | | |
| | | | 539.8-540.2 $\approx 50-60\%$ irreg partings of wh qtz & carb (dol) | | | | | | | |



Hole No. Q-11ASARCO Diamond Drill LogPage 5 of 10

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

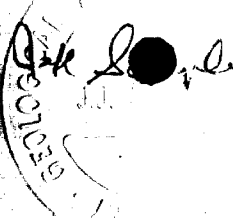
Angle _____

Azimuth _____

Dip Tests _____

oz./st.

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|---------|-------|-------|----|--|--|
| | 548.5 | | TA; d brnsh-grn to blk talc-chl altd UM rock; bxd; mod to strong dissem carb altn (dol); abund wh carb (dol) bx mtx plus some pale grn talc mtx; \approx 1% py as dissem spks & as spks & patches in bx mtx. | | | | | | | |
| | 558.0 | | TA \rightarrow M & M; as @ 548.5 but altd to a mixed talc-chl-carb rock | | DS 0188 | 548.5 | 553.5 | | | |
| | | | | | 189 | 553.5 | 558.0 | | | |
| | 561.0 | | TA \rightarrow M & M; as 558.0 but strongly bxd; \approx 40% wh to pale buff colored qtz & carb mtx. | | 190 | 558.0 | 561.0 | | | |
| | 565.7 | | C & C \rightarrow M; l-m gy carbonate rock & carb rock grading to talc- chl-carb rock; bxd; occ irreg patches & rare bx veins wh qtz (\approx 10% wh qtz overall); rare-occ spks py | | 191 | 561.0 | 565.7 | | | |
| | | | 564.5-564.7 SI?; fg Albitite Dike?? | | | | | | | |
| | 566.7 | | Lost Core | | | | | | | |


 GEOLOGICAL
Samp

Hole No. Q-11ASARCO Diamond Drill LogPage 6 of 10

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz./st. |
|------|-------|---|--|----|--------|-------|-------|----|---------|
| | 569.7 | | SI?; 1-m gy to beige to sly pkish, fg, silic albitite? intrusive? or highly altd & silicified carbonate?? bxd; abund wh qtz mtx; $\approx 1\%$ & loc to 4-5% dissem py; U ct ground; L ct irreg $\approx 45^\circ$ | | DS0192 | 566.7 | 569.7 | | |
| | 636.5 | | C; 1-m gy carb. rock similar to 565.7 but more thoroughly carb altd; bxd; loc patches & narrow veins wh qtz ($\approx 10-15\%$ wh qtz); loc v minor apple grn coloration due to fuchsite; loc vague spinifex texture; $\leq 1\%$ dissem py. | | 193 | 569.7 | 574.7 | | |
| | | | | | 194 | 574.7 | 579.7 | | |
| | | | | | 195 | 579.7 | 584.8 | | |
| | | | | | 196 | 584.8 | 589.8 | | |
| | | | | | 197 | 589.8 | 593.1 | | |
| | | | | | 198 | 593.1 | 595.8 | | |
| | | | | | 199 | 595.8 | 598.5 | | |
| | | | 574.7 - 577.4 $\approx 0.5'$ L.C. | | 200 | 598.5 | 600.0 | | |
| | | | 585.5 - 587.2 L.C. | | 201 | 600.0 | 605.0 | | |
| | | | 593.1 - 600.0 40-50% wh qtz including 595.8-598.5 wh qtz bx vein; U ct irreg $\approx 90^\circ$; L ct $\approx 40^\circ$ | | 202 | 605.0 | 610.0 | | |
| | | | | | 203 | 610.0 | 615.0 | | |
| | | | | | 204 | 615.0 | 620.0 | | |
| | | | | | 205 | 620.0 | 625.0 | | |
| | | | | | 206 | 625.0 | 630.0 | | |

GEOTECHNICAL
 Dept. Log
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Hole No. Q-11ASARCO Diamond Drill LogPage 7 of 10

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

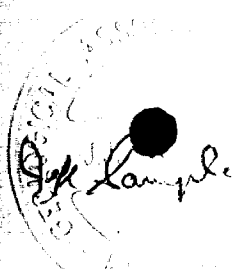
Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz./ft | |
|------|-------|---|--|----|--------|-------|-------|----|--------|--|
| | 636.5 | | Con. | | DS0207 | 630.0 | 636.5 | | | |
| | 641.8 | | C & C → M; much as @ 565.7 | | 208 | 636.5 | 641.8 | | | |
| | | | 641.7 - 641.8 0.08' thick wh qtz & carb vein @ $\approx 40^\circ$ | | | | | | | |
| | 774.6 | | TA → M; d grn-blk talc-chl altd | | 209 | 641.8 | 646.8 | | | |
| | | | UM rock grading to mixed talc-chl-carb rock; bxd; mod. to strong dissem carb altn; loc abund wh carb & carb plus wh qtz as bx mtx & also filling occ v irreg fract; minor, becoming increasingly abund pale grn talc as bx mtx; loc some vague spinifex? texture; rare spks to v loc abund dissem py; core loc badly broken. | | 210 | 769.6 | 774.6 | | | |
| | | | 641.8 - 642.7 strongly bxd w num frags & broken partings of wh qtz, qtz plus carb & carb in fg mtx of blk talc-chl. | | | | | | | |
| | | | 645.4? - 645.7? wh qtz & carb bx vein | | | | | | | |



Hole No. Q-11ASARCO Diamond Drill LogPage 8 of 10

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz/st. |
|------|-------|---|---|----|--------|-------|-------|----|--------|
| | 774.6 | | Con. | | | | | | |
| | | | 645.7-646.3 L.C. | | | | | | |
| | | | 646.3-646.5 wh qtz & carb bx vein @ 40° | | | | | | |
| | | | 655.1-655.5 Fault? Bx | | | | | | |
| | | | 655.5-656.2 L.C. | | | | | | |
| | | | 656.2-656.3 Fault? Bx | | | | | | |
| | | | 676.2-676.9 wh carb & qtz bx vein; U ct 40°; L ct 30° | | | | | | |
| | | | 732.7 0.1' wh qtz bx vein @ 40° | | | | | | |
| | | | 738.0-738.2 wh qtz bx vein; irreg cts | | | | | | |
| | | | 744.8-745.0 wh qtz bx vein @ ~80° | | | | | | |
| | | | 764.4-774.3 0.5' L.C. | | | | | | |
| | 782.3 | | SI; m gy to beige to pk, fq, silic albitite? intrusive; strongly bxd (intrusive bx?) over 0.5' @ U ct; mainly fairly strongly C-bxd w mtx of wh qtz & qtz plus wh dol; 2-5% dissem py; U ct ~ 25°; L ct irreg ~ 20° | | D50211 | 774.6 | 779.6 | | |
| | | | | | 212 | 779.6 | 782.3 | | |

ASARCO
 Sample

Hole No. Q-11ASARCO Diamond Drill LogPage 9 of 10

Logged by _____

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

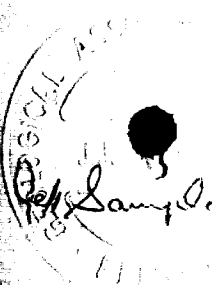
Elev. _____

Angle _____

Azimuth _____

Dip Tests _____

| From | To | R | Description | Vg | Smp# | From | To | Au | oz/st. |
|------|-------|---|------------------------------------|----|---------|-------|-------|----|--------|
| | 782.3 | | Can. | | | | | | |
| | | | in opposite direction. | | | | | | |
| | 795.0 | | M; mixed talc-chl-carb rock; | | DS 0213 | 782.3 | 787.3 | | |
| | | | similar to 774.6 but strong dissem | | 214 | 787.3 | 792.3 | | |
| | | | carb altn; ecc-num irreg wh | | 215 | 792.3 | 795.0 | | |
| | | | qtz & qtz-carb veins, mainly | | | | | | |
| | | | ~ 0.02' but v loc to 0.2' thick; | | | | | | |
| | | | rock is blchd adj to these veins; | | | | | | |
| | | | ≤ 1% dissem py. | | | | | | |
| | | | 782.5 - 783.8 wh qtz & carb | | | | | | |
| | | | bx vein | | | | | | |
| | 814.5 | | SI; silic albitite intrusive? as @ | | 216 | 795.0 | 800.0 | | |
| | | | 782.3; U ct irreg ~ 45°-50°; | | 217 | 800.0 | 805.0 | | |
| | | | L ct ground up | | 218 | 805.0 | 810.0 | | |
| | | | | | 219 | 810.0 | 814.5 | | |
| | 821.0 | | TA → M; as @ 774.6; L ct 65° | | 220 | 814.5 | 819.5 | | |
| | | | | | 221 | 819.5 | 821.0 | | |
| | 835.0 | | m grn chl-carb rock; massive; | | 222 | 821.0 | 826.0 | | |
| | | | strong dissem carb (calcite) altn; | | 223 | 826.0 | 831.0 | | |
| | | | ecc irreg fractr filled w wh qtz & | | 224 | 831.0 | 835.0 | | |


 ASARCO
 Sample

Hole No. Q-11

ASARCO Diamond Drill Log

Page 10 of 10

Logged by Jeff Sample

Nighthawk Project

Contractor _____

Date Logged _____

Date Drilled _____

Core Size _____

Depth _____

Collar Co-ord. _____

Elev. _____

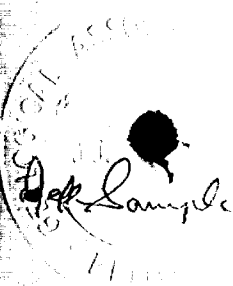
Angle _____

Azimuth _____

Dip Tests _____

(Feet)

| From | To | R | Description | Vg | Smp# | From | To | Au | | |
|------|-------|---|--|----|------|------|----|----|--|--|
| | 835.0 | | Con. | | | | | | | |
| | | | carb; v loc vague foliation @ 65° | | | | | | | |
| | | | 821.8-822.05 wh qtz vein @ 45° | | | | | | | |
| | | | (opp. dir. to U of unit) | | | | | | | |
| | 835.0 | | Foot of Hole | | | | | | | |
| | | | Rods broke & could not be removed from hole. Hole was lost @ 835.0 ft. | | | | | | | |
| | | | Hole plugged with cement. | | | | | | | |
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42A10SW0226 28 MACKLEM

900

The

Name and Postal Address of Recorded Holder

Lac d'Amiante du Quebec Ltee.

Hwy. 112, Black Lake, Quebec GON 1A0

Macklem Camp

Summary of Work Performance and Distribution of Credits

| Total Work Days Cr. claimed | Mining Claim | | Work Days Cr. | Mining Claim | | Work Days Cr. | Mining Claim | | Work Days Cr. |
|--|--------------|--------------|---------------|--------------|--------------|---------------|--------------|--------------|---------------|
| | Prefix | Number | | Prefix | Number | | Prefix | Number | |
| 4682.5 | | | | | | | | | |
| for Performance of the following work. (Check one only) | | | | | | | | | |
| <input type="checkbox"/> Manual Work | | See | | | See | | | See | |
| <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. | | Attachment 1 | | | Attachment 1 | | | Attachment 1 | |
| <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. | | | | | | | | | |
| <input type="checkbox"/> Power Stripping | | | | | | | | | |
| <input checked="" type="checkbox"/> Diamond or other Core drilling | | | | | | | | | |
| <input type="checkbox"/> Land Survey | | | | | | | | | |

ONTARIO GEOLOGICAL SURVEY
ASSESSMENT FILES
RESEARCH OFFICE
SEP 20 1984
RECEIVED

All the work was performed on Mining Claim(s): P512797, P512830, P528598, P528597

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

Owner/Operator: Bradley Bros. Diamond Drilling
P.O. Box 485, Timmins, Ontario P4N 7E7

| Hole | Footage | Date of Drilling |
|------|---------|---------------------------|
| Q6 | 612.6 | June 14-22, 1984 |
| Q7 | 833.3 | June 25 - July 23, 1984 |
| Q8 | 757.9 | July 4-12, 1984 |
| Q9 | 1046.6 | July 16-27, 1984 |
| Q10 | 597.1 | July 30 - August 13, 1984 |
| Q11 | 835.0 | August 13-29, 1984 |

Total Footage 4682.5 Feet

Core Size: BQ

RECORDED
SEP 12 1984
Receipt No. *L. J. ...*

FORCUPINE MINING DIVISION
RECEIVED
SEP 12 1984

Date of Report: Sept. 7, 1984
Recorded Holder or Agent (Signature): *R.J. Dean*

Certification Verifying Report of Work

I hereby certify that I have personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying

R.J. Dean, Asarco Exploration Co. of Canada Limited, 12th Floor, 350 Bay Street, Toronto, Ontario M5H 2S6

Date Certified: Sept. 7, 1984
Certified by (Signature): *R.J. Dean*

Table of Information/Attachments Required by the Mining Recorder

| Type of Work | Specific information per type | Other information (Common to 2 or more types) | Attachments |
|---|--|---|--|
| Manual Work | Nil | Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment. | Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post. |
| Shaft Sinking, Drifting or other Lateral Work | | | |
| Compressed air, other power driven or mechanical equip. | Type of equipment | Names and addresses of owner or operator together with dates when drilling/stripping done. | |
| Power Stripping | Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording. | | |
| Diamond or other core drilling | Signed core log showing: footage, diameter of core, number and angles of holes. | Nil | Work Sketch (as above) in duplicate |
| Land Survey | Name and address of Ontario land surveyor. | | Nil |

Attachment 1

Aquarius Unit Assessment
Distribution of Credit (Days)

Macklem Township

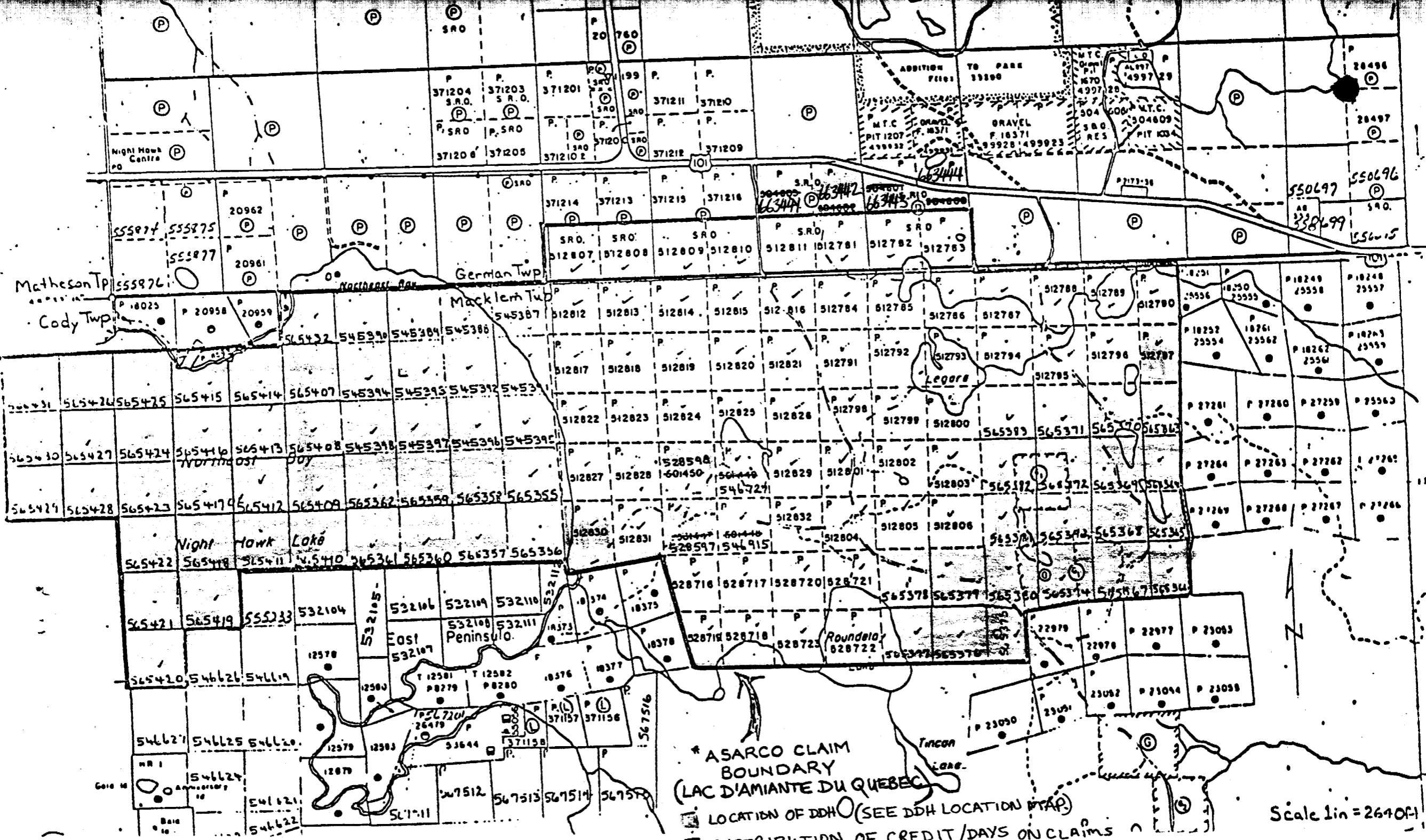
| <u>Claim No.</u> | <u>Credit/Days</u> | <u>Claim No.</u> | <u>Credit/Days</u> | <u>Claim No.</u> | <u>Credit/Days</u> |
|------------------|--------------------|------------------|--------------------|------------------|--------------------|
| P565355 | 60 | P565375 | 60 | P565407 | 60 |
| P565356 | 60 | P565376 | 60 | P565408 | 60 |
| P565357 | 60 | P565377 | 60 | P565409 | 60 |
| P565358 | 60 | P565378 | 60 | P565410 | 60 |
| P565359 | 60 | P565379 | 60 | P565411 | 60 |
| P565360 | 60 | P565380 | 60 | P565412 | 60 |
| P565361 | 60 | P565381 | 60 | P565413 | 60 |
| P565362 | 60 | P565382 | 60 | P565414 | 60 |
| P565363 | 60 | P545387 | 60 | P565415 | 60 |
| P565364 | 60 | P545388 | 60 | P565416 | 60 |
| P565365 | 60 | P545389 | 60 | P565417 | 60 |
| P565366 | 60 | P545390 | 60 | P565418 | 60 |
| P565367 | 60 | P545391 | 60 | P565419 | 60 |
| P565368 | 60 | P545392 | 60 | P565420 | 60 |
| P565369 | 60 | P545393 | 60 | P565421 | 60 |
| P565370 | 60 | P545394 | 60 | P565422 | 60 |
| P565371 | 60 | P545395 | 60 | P565423 | 60 |
| P565372 | 60 | P545396 | 60 | P565424 | 60 |
| P565373 | 60 | P545397 | 60 | P565425 | 60 |
| P565374 | 60 | P545398 | 60 | P565432 | 60 |

Cody Township

German Township

| <u>Claim No.</u> | <u>Credit/Days</u> | <u>Claim No.</u> | <u>Credit/Days</u> |
|------------------|--------------------|------------------|--------------------|
| P565426 | 60 | P663441 | 80 |
| P565427 | 60 | P663442 | 80 |
| P565428 | 60 | P663443 | 80 |
| P565429 | 60 | P663444 | 80 |
| P565430 | 60 | | |
| P565431 | 60 | | |

Refer to
Licence of Occupate
issued to
Lac D'Amiante
du Quebec Stee .

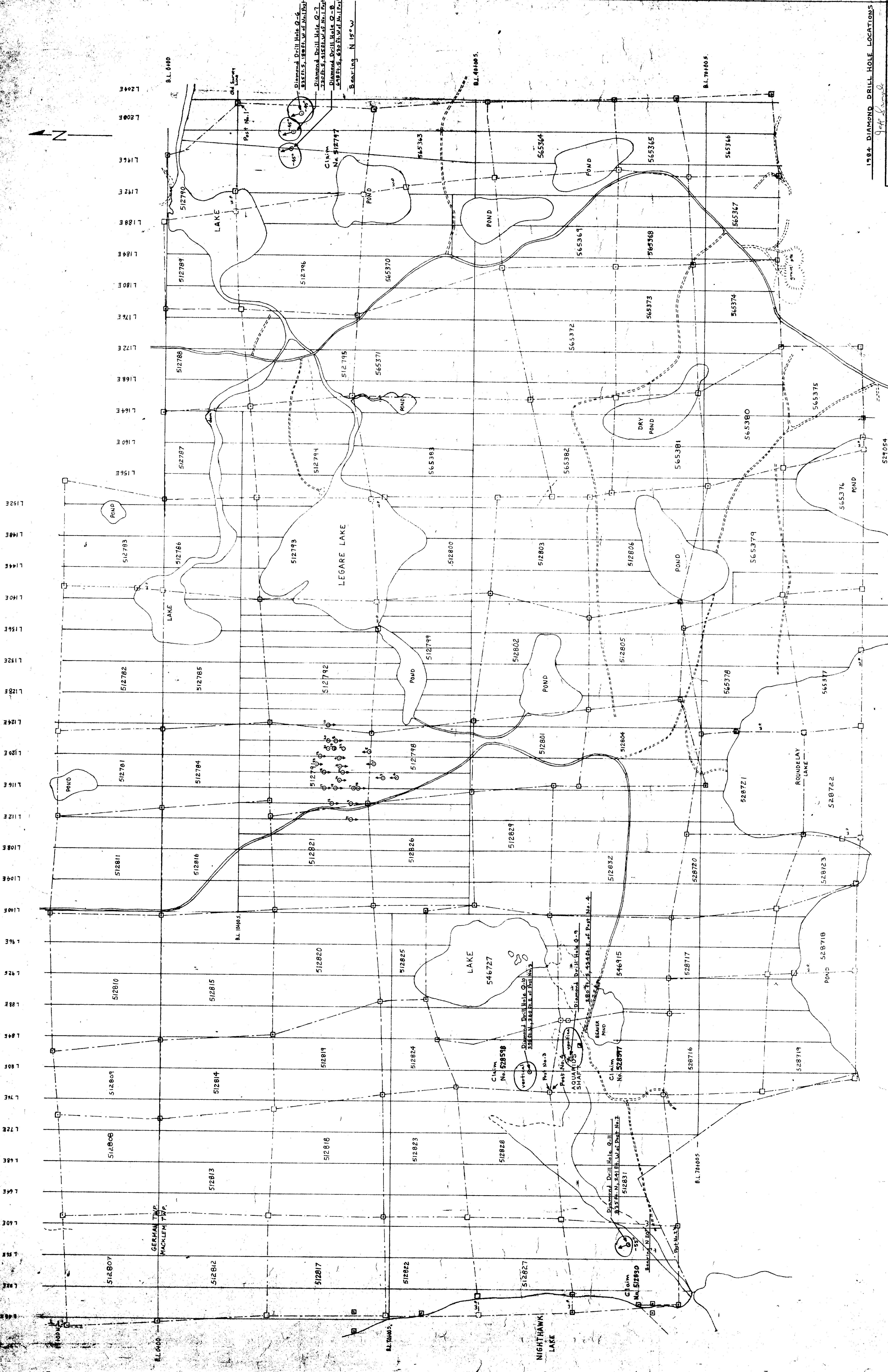
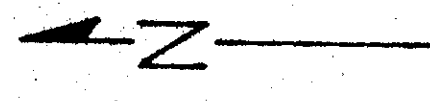


* ASARCO CLAIM BOUNDARY (LAC D'AMIANTE DU QUEBEC)

☐ LOCATION OF DDH (SEE DDH LOCATION MAP)

☐ DISTRIBUTION OF CREDIT/DAYS ON CLAIMS

Scale 1 in = 2640 ft.



Diamond Drill Hole Q-6
3357.5, 1987.0, 15.1, 15.1
Diamond Drill Hole Q-7
732.5, 3122.0, 15.1, 15.1
Diamond Drill Hole Q-8
698.5, 622.0, 15.1, 15.1
Bearing N 15° W

1984 DIAMOND DRILL HOLE LOCATIONS
Jeff S. Smeeth

ASARCO EXPLORATION-TORONTO
CLAIM LOCATION AND TOPO. MAP
AQUARIUS PROJECT
GERMAN AND MACKLEM TOWNSHIPS

SCALE 1" = 500'
ASARCO
1984

THE AQUARIUS
PROPERTY COMPANY
DISTRICT COCHRANE
TWP. GERMAN & MACKLEM
N.T.S.

