

DU PONT OF CANADA EXPLORATION LIMITED

DIAMOND DRILLING REPORT

ON THE

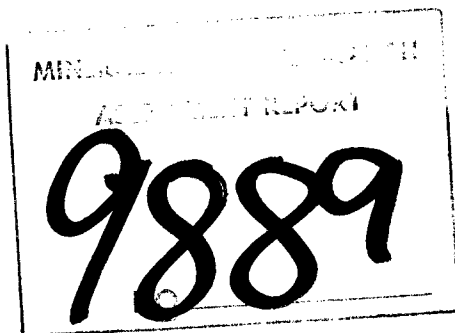
CHAPPELLE CLAIMS

OMINECA MINING DIVISION

Lat. 57°17' N, Long. 127°07' W

NTS: 94-E-6

Owner of Claims : Du Pont of Canada Exploration Limited  
Operator of Claims: Du Pont of Canada Exploration Limited



Author : T.J. Drown  
Date  
Submitted: 1981 12 04

Part 2 of 2

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| Dwg No C.75-10 Geology of Chappelle Claims | in pocket         |

## INTRODUCTION

### 1. Location

The Chappelle claims are situated at 57°17' N latitude and 127°08' W longitude between Thutade Lake and Toodoggone Lake, 80 km west of the Rocky Mountain Trench. Air distance to Smithers, B.C. is 228 km at azimuth 180°.

### 2. Access

The claims are best reached by flying to the 1676 m Sturdee Valley airstrip at 57°13' N latitude and 127°06' W longitude and travelling by a 16 km road to the Baker Mine comp. From here the work area is accessed by helicopter, approximately 4 km to the east.

### 3. Claim Definition

The Chappelle claims consist of 168 two post and fractional mineral claims. Exploration work was completed over the following claims with their respective record data:

| <u>Claim</u> | <u>Record No.</u> | <u>Tag No.</u> | <u>Record Date</u> |
|--------------|-------------------|----------------|--------------------|
| CHAPPELLE 20 | 84380             | 912140         | 1970 02 11         |
| CHAPPELLE 27 | 84387             | 912147         | 1970 02 11         |

The current owner and operator of the claims is Du Pont of Canada Exploration Limited.

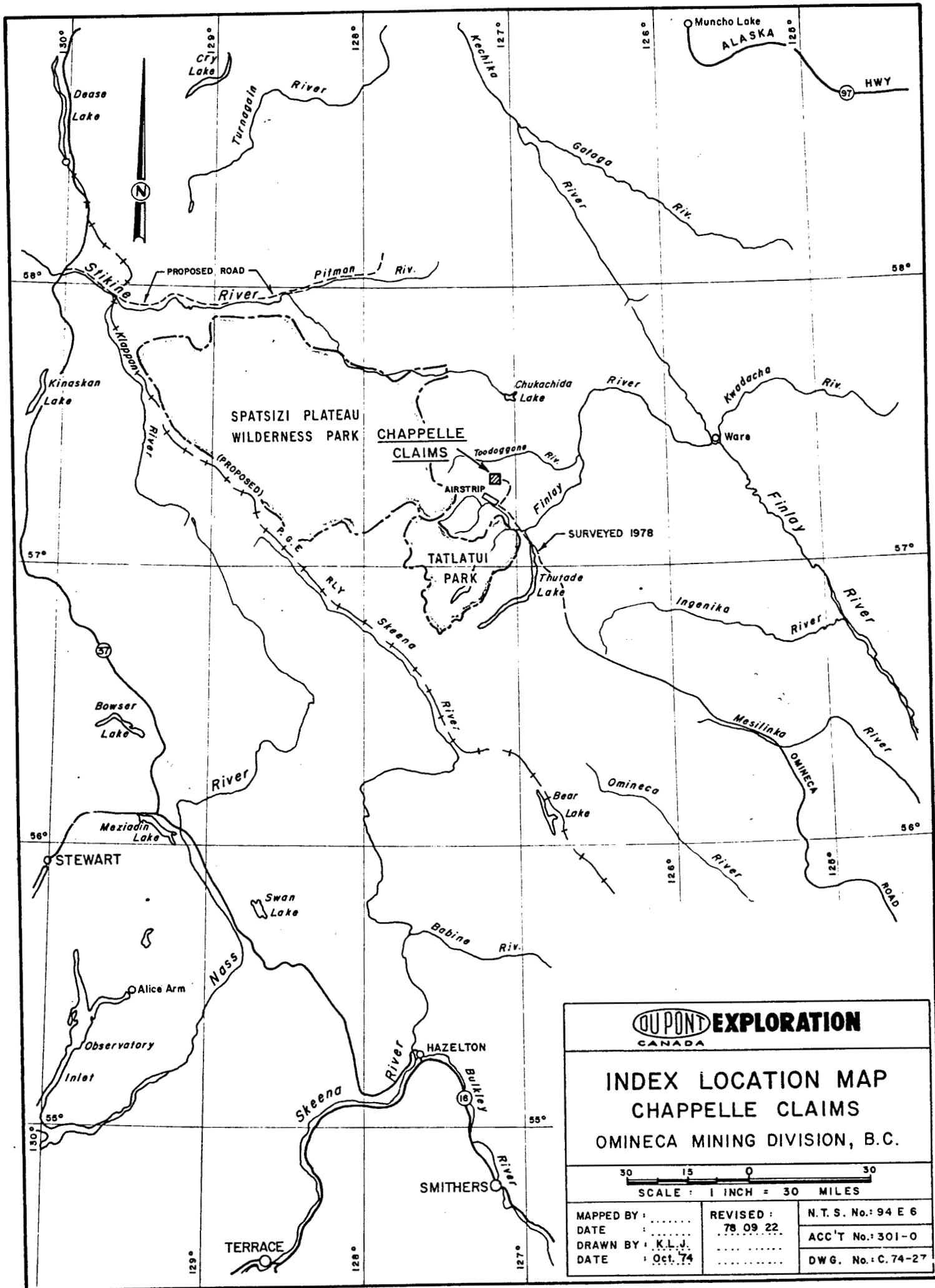
## Property

### 1. History

The property was staked in 1968 by Kennco Exploration (Western) Limited as the result of a regional geochemical exploration program when quartz float containing high grade gold and silver were found by Gordon Davies. Subsequent work on the property during 1969, 1970, 1971 and 1972 exposed a 250 x 2 m quartz vein containing zones of high grade gold and silver.

Con West Exploration optioned the claims in late 1972 and paid the costs of building an airstrip at Black Lake, a road to the camp and about 213 m of drifting at the 5400' (1650 metre) elevation. They intersected the vein 50 metres below the surface in a barren section of quartz and subsequently dropped the option.

Du Pont Exploration's new (from Kennco) vice-president, Dave Barr, optioned the property in 1974 and authorized a



**DU PONT** EXPLORATION  
CANADA

**INDEX LOCATION MAP**  
**CHAPPELLE CLAIMS**  
OMINECA MINING DIVISION, B.C.

30 15 0 30  
SCALE: 1 INCH = 30 MILES

|                  |                   |                    |
|------------------|-------------------|--------------------|
| MAPPED BY: ..... | REVISED: 78.09.22 | N.T.S. No.: 94 E 6 |
| DATE: .....      | .....             | ACC'T No.: 301-0   |
| DRAWN BY: K.L.J. | .....             | DWG. No.: C.74-27  |
| DATE: Oct. 74    | .....             | .....              |

drilling program during the summers of 1974 and 1975 which led to the driving of two raises into the mineralized portions of the vein and the establishment of about 57,000 tons of ore-grade material.

In 1979, further diamond drilling was completed and a new adit at the 1690 metre elevation was driven with a view to sampling the mineralization and determining the characteristics of the deposit. Construction of a 100 ton per day mill commenced in 1980 and full scale production commenced in early 1981.

## 2. Summary of Work Performed

A total of 1552 feet (470 m) of NQ surface diamond drilling was completed in four holes. Work was done to test the ore bearing potential of several quartz veins in the vicinity of Baker Mine "Vein A."

## 3. Current Owner

The current owner and operator of the property is Du Pont of Canada Exploration Limited.

### Work Summary -

- a) Size of Core : NQ
- b) Storage of Core: In a core rack at the Baker Mine camp site.
- c) Purpose of Drill Program  
To test the mineralization potential of other known vein systems in the vicinity of ore body at Baker Mine.

4. Drilling Costs Statement

|                      | <u>Total</u>  | <u>Group 22</u> | <u>Group 23</u> |
|----------------------|---------------|-----------------|-----------------|
| Diamond Drilling     | \$63,455.00   | \$ 8,185.69     | \$18,909.59     |
| Man & Machine Hours  | 17,660.00     | 2,278.14        | 5,262.68        |
| Materials Consumed   | 18,045.00     | 2,327.81        | 5,377.41        |
| Testing (Acid Tests) | <u>320.00</u> | <u>41.28</u>    | <u>95.36</u>    |
|                      | \$99,480.50   | \$12,832.98     | \$29,645.19     |

Mobilization and DemobilizationKelowna Flightcraft

|              |                 |               |                 |
|--------------|-----------------|---------------|-----------------|
| Ticket #4940 | \$ 984.50       | \$ 127.00     | \$ 293.38       |
| 4942         | <u>5,996.00</u> | <u>773.48</u> | <u>1,786.81</u> |
|              | \$ 6,980.50     | \$ 900.48     | \$ 2,080.19     |

Fuel Consumed

|                            |             |           |           |
|----------------------------|-------------|-----------|-----------|
| 4,100 litres<br>(@ 0.56/l) | \$ 2,296.00 | \$ 296.18 | \$ 684.21 |
|----------------------------|-------------|-----------|-----------|

Assays (Groups 22,23  
only)

|                                |  |           |           |
|--------------------------------|--|-----------|-----------|
| 55 rocks @ \$25 ea.<br>(Au/Ag) |  | \$ 594.00 | \$ 781.00 |
|--------------------------------|--|-----------|-----------|

Rotary Wing Aircraft (Groups 22 & 23 only)

|                            |           |               |
|----------------------------|-----------|---------------|
| July 8 0.40 hrs @ \$431/hr | \$ 172.24 | \$            |
| 11 0.60 hrs @ 431/hr       | 258.60    |               |
| 13 0.60 hrs @ 431/hr       | 77.58     | 181.02        |
| 14 0.50 hrs @ 431/hr       |           | 215.50        |
| 16 0.50 hrs @ 431/hr       |           | 215.50        |
| 30 0.33 hrs @ 431/hr       |           | 142.23        |
| Aug. 1 1.1 hrs @ 431/hr    |           | 474.10        |
| 2 0.5 hrs @ 431/hr         |           | <u>215.50</u> |
|                            | \$ 508.40 | \$ 1,443.85   |

Shirley Helicopters Ltd.

|                           |             |                 |
|---------------------------|-------------|-----------------|
| July 8 4.0 hrs @ \$852/hr | \$ 3,408.00 | \$              |
| 11 5.0                    | 4,260.00    |                 |
| 14 3.3                    |             | 2,811.60        |
| 17 3.5                    |             | 2,982.00        |
| 30 3.5 hrs @ \$852/hr     |             | <u>2,982.00</u> |
|                           | \$ 7,668.00 | \$ 8,775.60     |

4.

|                      |                        | <u>Group 22</u> | <u>Group 23</u> |
|----------------------|------------------------|-----------------|-----------------|
| <u>Accommodation</u> |                        |                 |                 |
| Drillers             | 4 x \$30/day x 10 days | \$ 360.00       | \$ 840.00       |
| Geologists           | 2 x 30/day x 10 days   | <u>180.00</u>   | <u>420.00</u>   |
|                      |                        | \$ 540.00       | \$ 1,260.00     |

Supervision

|                       |                  |               |               |
|-----------------------|------------------|---------------|---------------|
| Geologist: T.J. Drown | 10 d @ \$141.04  | 423.01        | 987.03        |
| Sampler : J. Kuhne    | 10-½ days @ \$70 | <u>105.00</u> | <u>245.00</u> |
|                       |                  | \$ 528.01     | \$ 1,232.03   |

Report Preparation

|             |                   |              |               |
|-------------|-------------------|--------------|---------------|
| Compilation | 3 days @ \$141.04 | \$ 126.94    | \$ 296.18     |
| Drafting    | 2 days @ 127.00   | <u>76.20</u> | <u>177.80</u> |
|             |                   | \$ 203.14    | \$ 473.98     |

Diamond Drilling Program Expenditures

|         |             |             |
|---------|-------------|-------------|
| - Total | \$24,071.19 | \$46,376.05 |
|---------|-------------|-------------|

\$70,447.24

QUALIFICATIONS

I, Thomas J. Drown do hereby certify that:

1. I am a geologist residing at 4780 Fortune Avenue, Richmond, B.C. and employed by Du Pont of Canada Exploration Limited.
2. I am a graduate of the University of British Columbia with a B.Sc. in Honours Geology.
3. I have practised my profession for approximately six years in Canada.
4. Between 1981 July 10 and 1981 August 10, I supervised/directed a diamond drilling program on behalf of Du Pont of Canada Exploration Limited.

Thomas J. Drown



APPENDIX A

DIAMOND DRILL LOGS

# DIAMOND DRILL HOLE RECORD

DRILLED BY: J.T. Thomas Diamond Drilling Ltd.

HOLE NUMBER: S81-1 LENGTH: 205'  
 LOCATION: West Chappelle DIP: -45°  
 LATITUDE: 4280E DEPARTURE: 34920E  
 ELEVATION: 5800' (1768m) AZIMUTH: 204°  
 HOLE STARTED: 81-7-8 HOLE COMPLETED: 81-7-9

## ACID &/OR TRO-PARI TESTS

| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
|---------|-----|---------|---------|-----|---------|
| 203'    |     |         |         |     |         |
|         |     |         |         |     |         |
|         |     |         |         |     |         |
|         |     |         |         |     |         |

SHEET No.1 OF: 4  
 HOLE NUMBER: S81-1  
 PROPERTY: Chappelle  
 ACCOUNT No.: 714-00-300  
 CORE SIZE: NQ  
 % CORE RECOVERY:  
 LOGGED BY: T. Drown

| FOOTAGE |      |       |       | DESCRIPTION                                                                                                                                                                                                                                                     | SAMPLE |            |         |  |  |  | ASSAYS |  |  |  |
|---------|------|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|---------|--|--|--|--------|--|--|--|
| FROM    | TO   | WIDTH | RCVRY |                                                                                                                                                                                                                                                                 | NUMBER | % SULFIDES | FOOTAGE |  |  |  |        |  |  |  |
| 0       | 15   | 15    | 0     | Tri-Cone to bedrock; 4' overburden;                                                                                                                                                                                                                             |        |            |         |  |  |  |        |  |  |  |
| 15      | 50   | 35    | 95    | Andesite lapilli tuff; dk. grn & brown lapilli<br>in f.g. dark grn. andestic matrix 3-5% diss.<br>py. Rusty frags. Fracting @ 45°, 30°, 75°.<br>Brkn. to <6" pieces; Rusty frac's end at 42';<br>then fresh. Salmon orange feldspar phenos.<br>common thr.-out. |        |            |         |  |  |  |        |  |  |  |
| 50      | 51.6 | 1.6   | 25    | As above; poor recovery; Core tube mislocked.                                                                                                                                                                                                                   |        |            |         |  |  |  |        |  |  |  |
| 51.6    | 64.2 | 12.6  | 100   | Andesite lapilli tuff, dk.-med. grn. & brown<br>clasts in dk. grn. grnd. mass: Pink-orange &<br>white Fp. phenos. in most clasts, not grnd.<br>mass. Occ. white calc.-zeol. strgrs on frags.<br>3-5% fg. diss. py.                                              |        |            |         |  |  |  |        |  |  |  |
| 64.2    | 66.5 | 2.3   | 98    | Crusted zone; fault @ 15°; bx'd & silicified,<br>clay gouge 1.5" thick. Gry. 10% Pyrite as<br>blebs & streaks.                                                                                                                                                  |        |            |         |  |  |  |        |  |  |  |
| 66.5    | 85.3 | 18.8  | 100   | Andesite agglom. to lapilli tuff; drk-med grn.<br>& brown-buff clasts in grn. f.g. massive matrix.                                                                                                                                                              |        |            |         |  |  |  |        |  |  |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-1

SHEET NUMBER 2 OF 4

| FOOTAGE |       |       |       | DESCRIPTION                                        | SAMPLE |            |      |      |       |       | ASSAYS |      |  |  |
|---------|-------|-------|-------|----------------------------------------------------|--------|------------|------|------|-------|-------|--------|------|--|--|
| FROM    | TO    | WIDTH | RCVRY |                                                    | NUMBER | % SULFIDES | FROM | TO   | WIDTH | RCVRY | Au     | Ag   |  |  |
|         |       |       |       | Porphyrite & massive clasts with white &/or pk.    |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | Fp. phenos to 1/8". Clasts to 3" across &          |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | irreg. shaped.                                     |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | 170.5 1/2" qyz. vn @ 45° to axis.                  |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | 173.2 1/2" qtz. vn @ 30° to axis. Fracs @ 60°,     |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | 80°, 30°.                                          |        |            |      |      |       |       |        |      |  |  |
| 85.3    | 92.5  | 7.2   | 100   | Andesite agglom. to tuff, As above! 85.8' Fault    |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | @ 40°; chl. gouge 1/4" wide. Minor 1/8" q.v. at    |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | 1' intervals; no sulphides in q.v. White zeol.     |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | strgrs. common at num. attitudes.                  |        |            |      |      |       |       |        |      |  |  |
| 92.5    | 94.7  | 2.2   | 100   | Q.V. @ 45° to axis: Clay & pyrite; 20% & 10%       | 5301   | 10%        | 92.5 | 94.7 | 2.2   | 100   | .015   | 0.26 |  |  |
|         |       |       |       | respect.                                           |        |            |      |      |       |       |        |      |  |  |
| 94.7    | 102.0 | 7.3   | 100   | Andesite, tuff-agglomerate; dk. grn. & Beige       |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | porphyritic clasts in dk. grn. f.g. andes. matrix. |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | White & Pink Fp. phenos in beige clasts. Clasts    |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | variable in size to 2"; irreg. shaped. Occ. qtz-   |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | zeol-calc. strgr. Fractg. @ 20°, 45°, 30°.         |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | Frequent grn. clasts, (possibly alt'd amphiboles)  |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | in grnd. mass and grn. clasts.                     |        |            |      |      |       |       |        |      |  |  |
| 102.0   | 119.2 | 17.0  | 100   | Andesite tuff; f.g. to porph. grn. clasts in dk.   |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | grn. f.g. grnd. mass. Freq grn. 1/4" to 1/2"       |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | clasts of alt'd mafics. Q.V. common at 1'-2'       |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | intervals, only 1/8" to 1/4" wide. Zeol-calc.      |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | common of fracs. Occ. Epidote clots or on fracs.   |        |            |      |      |       |       |        |      |  |  |
|         |       |       |       | 5-10% pyrite as diss. & strgrs.                    |        |            |      |      |       |       |        |      |  |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-1

SHEET NUMBER 3 OF 4

| FOOTAGE |       |       |       | DESCRIPTION                                                                                                                                                                                                    | NUMBER | % SULFIDES | FOOTAGE |       |       |       | ASSAYS |      |  |  |
|---------|-------|-------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|---------|-------|-------|-------|--------|------|--|--|
| FROM    | TO    | WIDTH | RCVRY |                                                                                                                                                                                                                |        |            | FROM    | TO    | WIDTH | RCVRY | Au     | Ag   |  |  |
| 119.2   | 134   | 14.8  | 100   | Andesite as above: Strongly silicified. Tuff<br>clasts lgely. floating in silicified volc. 5-10%<br>diss. Py. Fault at 134'; @ 30°; 2" cly-qtz.<br>gouge & 5% Py Volc. 13 Bxt'd & Qtz cemented above<br>fault. | 5302   | 5-10%      | 119.2   | 122.0 | 2.8   | 100   | .013   | 0.34 |  |  |
| 134     | 144   | 10    | 100   | Alt'd volcanic; Strongly silcified & partly Bxt'd<br>Brecciated 5-10% diss Py. 50% Qtz. Freq. 1/2"<br>Q.V. at 45° to 60°.                                                                                      | 5303   | 570%       | 136     | 141   | 5.0   | 100   | .007   | 0.11 |  |  |
| 144     | 156   | 7.5   | 90    | Siclified & Bxt'd volcanic. 60-70% Qtz; Grey,<br>f.g. rock. Grn. maniposite & clay alt'd with Qtz.<br>Minor clay-qtz. fault gouge 1/2" @ 45° at 147' &<br>150' (151 to 153 partly grownd up core).             | 5304   | 10%        | 144     | 151.5 | 7.5   | 90    | .004   | 0.13 |  |  |
|         |       |       |       |                                                                                                                                                                                                                | 5305   | 10%        | 151.5   | 156   | 4.5   | 95    | .004   | 0.02 |  |  |
| 156     | 161   | 5     | 95    | Silicified volc. and Q.V., 75% Q.V. with much clay<br>and gouge. Grey volc. massive clasts floating<br>in grey quartz. 5-8% diss. pyrite. 158' -<br>fault @ 55°; 1" clay-qtz-py gouge.                         | 5306   | 8%         | 156     | 161   | 5     | 95    | .003   | 0.04 |  |  |
| 161     | 166.5 | 5.5   | 95    | Silicified-clay alt'd f.g. volcanic. Buff-green<br>clay. 25% Qtz. as small 1/2" vns. and in grnd<br>mass. 10% diss. Py. 166-166.5-fault gouge; blk.<br>clay @ 60° to axis.                                     | 5307   | 10%        | 161     | 166.5 | 5.5   | 95    | .003   | 0.03 |  |  |
| 166.5   | 168   | 1.5   | 100   | Q.V., 10-15% py; 5-10% clay: Bxt'd & recemented<br>qtz. Fault at bottom of vn. @ 40° with 1" clay<br>gouge.                                                                                                    | 5308   | 10%        | 166.5   | 168   | 1.5   | 100   | .003   | 0.08 |  |  |
| 168     | 170   | 2.0   | 100   | Andesite amphibole prophyry. Weekly clay-qtz.<br>altered. Remnant amphis. visible. Dk. grn.-grey                                                                                                               |        |            |         |       |       |       |        |      |  |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-1

SHEET NUMBER 4 OF 4

| FOOTAGE |       |       |       | DESCRIPTION                                                                       | SAMPLE |            |       |       | ASSAYS |       |      |      |  |
|---------|-------|-------|-------|-----------------------------------------------------------------------------------|--------|------------|-------|-------|--------|-------|------|------|--|
| FROM    | TO    | WIDTH | RCVRY |                                                                                   | NUMBER | % SULFIDES | FROM  | TO    | WIDTH  | RCVRY | Au   | Ag   |  |
|         |       |       |       | 10% Py after amphiboles: 20% Qtz. in grnd. mass.                                  |        |            |       |       |        |       |      |      |  |
| 170     | 176   | 6     | 100   | Andesite tuff to agglomerate; Weakly silicified                                   |        |            |       |       |        |       |      |      |  |
|         |       |       |       | and clay alt'd 10-15% f.g. pyrite as strgrs &                                     |        |            |       |       |        |       |      |      |  |
|         |       |       |       | diss. Zeol strgrs common often with qtz.                                          |        |            |       |       |        |       |      |      |  |
|         |       |       |       | Resembles 168-170, but amph. remnants not as                                      |        |            |       |       |        |       |      |      |  |
|         |       |       |       | prominent.                                                                        |        |            |       |       |        |       |      |      |  |
| 176     | 181   | 5     | 100   | Silicified volcanic, Grey; 30-45% Qtz. as strgrs                                  | 5307   | 10%        | 176   | 181   | 5      | 100   | .003 | 0.03 |  |
|         |       |       |       | and in grnd. mass; 10% pyrite; 10-15% clay alt'n.                                 |        |            |       |       |        |       |      |      |  |
|         |       |       |       | 181'-fault with 1" clay gouge at 50°.                                             |        |            |       |       |        |       |      |      |  |
| 181     | 184.5 | 3.5   | 100   | Crushed-silicified volcanic; Grey-grn. 30% Qtz.                                   | 5308   | 5-10       | 181   | 184.5 | 3.5    | 100   | .003 | 0.08 |  |
|         |       |       |       | as strgrs and massive in grnd. mass. 5-10% Py                                     |        |            |       |       |        |       |      |      |  |
|         |       |       |       | 182-183.5' fault at 50°; Crushed & rounded Qtz.                                   |        |            |       |       |        |       |      |      |  |
|         |       |       |       | frags. in clay gouge.                                                             |        |            |       |       |        |       |      |      |  |
| 184.5   | 193.4 | 8.9   | 100   | Quartz vn.; Grey, Bxt'd with occ. 6" section of                                   | 5309   |            | 184.5 | 188.8 | 3.3    | 100   | .008 | 0.15 |  |
|         |       |       |       | silicified & crushed volc. Buff clay, 15%. 10%                                    | 5310   |            | 188.8 | 193.4 | 4.6    | 100   | .007 | 0.11 |  |
|         |       |       |       | diss. pyrite. Occ chlorite knots. Q.V. is                                         |        |            |       |       |        |       |      |      |  |
|         |       |       |       | frequently bxt'd to 1" frags.                                                     |        |            |       |       |        |       |      |      |  |
| 193.4   | 195   | 1.6   | 85    | Silicified volcanic in fault zone; Clay gouged                                    |        |            |       |       |        |       |      |      |  |
|         |       |       |       | rock. Att'd approx. 65°. Core badly broken,                                       |        |            |       |       |        |       |      |      |  |
|         |       |       |       | some washed away in fault.                                                        |        |            |       |       |        |       |      |      |  |
| 195     | 205   | 10    | 50    | Andesite; dk. grn., massive with numerous epidote,                                |        |            |       |       |        |       |      |      |  |
|         |       |       |       | clots and pk.-white Zeol, strgrs. 197 to 197.5 -                                  |        |            |       |       |        |       |      |      |  |
|         |       |       |       | fault with gouge @ 65°.                                                           |        |            |       |       |        |       |      |      |  |
|         |       |       |       | (Note bottom of hole at 205; last run did not retrieve core as barrel mislocked;) |        |            |       |       |        |       |      |      |  |
|         |       |       |       | FOOT OF HOLE @ 205'                                                               |        |            |       |       |        |       |      |      |  |

# DIAMOND DRILL HOLE RECORD

DRILLED BY: J.T. Thomas Diamond Drilling Ltd.

HOLE NUMBER: S81-2 LENGTH: 263'  
 LOCATION: West Chappelle DIP: -61°  
 LATITUDE: 34920N DEPARTURE: 4280E  
 ELEVATION: 5800' (1768m) AZIMUTH: 204°  
 HOLE STARTED: 81-7-9 HOLE COMPLETED: 81-7-10

## ACID &/OR TRO-PARI TESTS

| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
|---------|-----|---------|---------|-----|---------|
|         |     |         |         |     |         |
|         |     |         |         |     |         |
|         |     |         |         |     |         |
|         |     |         |         |     |         |
|         |     |         |         |     |         |

SHEET No.1 OF: 6  
 HOLE NUMBER: S81-2  
 PROPERTY: Chappelle  
 ACCOUNT No.: 714-00  
 CORE SIZE: NQ  
 % CORE RECOVERY:  
 LOGGED BY: T. Drown

| FOOTAGE |      |       |       | DESCRIPTION                                           | SAMPLE |            |         |    |       |       | ASSAYS |  |  |  |  |
|---------|------|-------|-------|-------------------------------------------------------|--------|------------|---------|----|-------|-------|--------|--|--|--|--|
| FROM    | TO   | WIDTH | RCVRY |                                                       | NUMBER | % SULFIDES | FOOTAGE |    |       |       |        |  |  |  |  |
|         |      |       |       |                                                       |        |            | FROM    | TO | WIDTH | RCVRY |        |  |  |  |  |
| 0       | 12   | 12    | 0     | Overburden & triconed for casing.                     |        |            |         |    |       |       |        |  |  |  |  |
| 12      | 20   | 8     | 95    | Andesite lapilli tuff: Dk green f.g. matrix with      |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | dk. grn. porphyrite and massive clasts: Occasional    |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | brown f.g. clast. Rusty on frac @ 40°, 60°, 25°, 75°. |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | 3-5% f.g. diss. py. in volc. Moderately               |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | magnetic.                                             |        |            |         |    |       |       |        |  |  |  |  |
| 28.6    | 74   | 45.4  | 100   | Andesite-dacitic lapilli tuff to agglomerate. Lt.     |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | grn. to grey-brown matrix with dk. grn. & buff        |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | massive & porphyritic clasts. White & pk. Fp.         |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | phenos. 29.5 calcite, zeol. filled shear @ 32°;       |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | 1" wide zone. Freg. zeol-calcite filled frac &        |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | strgrs. Core broken to 7" pcs. usually 2";            |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | 3% f.g. diss. pyrite.                                 |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | 46' - fault @ 30°; 1/4" chl. gouge.                   |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | 46.2'- F.P. porphyry dyke @ 55°; 1" wide.             |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | 51' - 1/4" qtz. vein @ 37° to axis.                   |        |            |         |    |       |       |        |  |  |  |  |
| 74      | 75.2 | 1.2   | 90    | Silicified volc. in fault zone; Bxt'd & qtz.          |        |            |         |    |       |       |        |  |  |  |  |
|         |      |       |       | cemented. 2-3% Pyrite.                                |        |            |         |    |       |       |        |  |  |  |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-2

SHEET NUMBER 2 OF 6

| FOOTAGE |       |       |       | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SAMPLE |            |         |    |       |       | ASSAYS |  |  |  |  |
|---------|-------|-------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|---------|----|-------|-------|--------|--|--|--|--|
| FROM    | TO    | WIDTH | RCVRY |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NUMBER | % SULFIDES | FOOTAGE |    |       |       |        |  |  |  |  |
|         |       |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |            | FROM    | TO | WIDTH | RCVRY |        |  |  |  |  |
| 75.2    | 82.0  | 6.8   | 100   | Dacitic-andesitic lapilli tuff; Beige f.g. grnd.<br>mass. with beige & grn. clasts to 1" diameter.<br>Irregular shaped. 2-3% diss pyrite. Freg.<br>calc-zeol. strgrs & on fracs. Fracturing common<br>@ 50°, 70°, 45°.                                                                                                                                                                                                                                                                |        |            |         |    |       |       |        |  |  |  |  |
| 82.0    | 97.0  | 15    | 100   | Andesitic lapilli tuff; med. grn. f.g. with f.g.<br>grn. andes. clasts. 2-3% diss Py. Possible<br>flow contact at 50° @ 82.0' to 82.2'. Abundant<br>calc-zeol. strgrs: Mostly 1/8" @ 50° & 145°.<br>(Similar unit to 12'-20' above).                                                                                                                                                                                                                                                  |        |            |         |    |       |       |        |  |  |  |  |
| 97.0    | 116.5 | 19.5  | 100   | Dacitic-Andesitic lapilli tuff; Grey-green; f.g.<br>massive grey-green matrix with beige, green<br>massive & porphyritic clasts. 3-5% diss. pyrite.<br>Calc-zeol strgrs comm.<br>98.0' - Fault with 1" clay gouge at 40° to axis.<br>102-102.4' - Dacite feldspar porphyry; possible dyke?<br>at 50° to axis.<br>105.5' - Fault cw slicks at 30°; chl. on sfce.<br>109' - 1" q.v. at 45°. No sulphides.<br>116.5' - 6" zeol-calc. zone with 1/8" strgrs. at<br>1/2" intervals at 50°. |        |            |         |    |       |       |        |  |  |  |  |
| 116.5   | 120.5 | 4.0   | 100   | Andesite lapilli tuff; dk. to med. grn. Clasts<br>of f.g. & porph. andesite to 1 1/2" dia. Calc-<br>zeols. common as veinlets. Core broken to 4"<br>pieces mostly <2". Fract'g at 65°, 30°, 15°.                                                                                                                                                                                                                                                                                      |        |            |         |    |       |       |        |  |  |  |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-2

SHEET NUMBER 3 OF 6

| FOOTAGE |       |       |       | DESCRIPTION                                        | SAMPLE |            |         |       | ASSAYS |       |      |      |  |
|---------|-------|-------|-------|----------------------------------------------------|--------|------------|---------|-------|--------|-------|------|------|--|
| FROM    | TO    | WIDTH | RCVRY |                                                    | NUMBER | % SULFIDES | FOOTAGE |       |        |       | Au   | Ag   |  |
|         |       |       |       |                                                    |        |            | FROM    | TO    | WIDTH  | RCVRY |      |      |  |
|         |       |       |       | 120.2' - 1/4" fault gouge at 15°.                  |        |            |         |       |        |       |      |      |  |
| 120.5   | 135.0 | 14.5  | 100   | Dacitic lapilli tuff; Gry-beige clasts in gry-grn. |        |            |         |       |        |       |      |      |  |
|         |       |       |       | grnd. mass. F.p. porph. clasts common. 3-5% f.g.   |        |            |         |       |        |       |      |      |  |
|         |       |       |       | diss. py. Some clay alt'n of more porphyritic      |        |            |         |       |        |       |      |      |  |
|         |       |       |       | clasts. Py. occasionally occurs as 1/8" veinlets   |        |            |         |       |        |       |      |      |  |
|         |       |       |       | as well as diss. Core brkn. to 6" pies. on avge.   |        |            |         |       |        |       |      |      |  |
| 135     | 143.5 | 8.5   | 100   | Dacitic tuff: Grey massive matrix with peculiar    |        |            |         |       |        |       |      |      |  |
|         |       |       |       | angular dk. grn. clasts (possible amph. remnants). |        |            |         |       |        |       |      |      |  |
|         |       |       |       | Appears silicified; (grnd. mass. at least).        |        |            |         |       |        |       |      |      |  |
| 143.5   | 147   | 3.5   | 100   | Silicified Dacitic tuff. 60% quartz or more.       | 5311   | 5%         | 143.5   | 147   | 3.5    | 100   | .011 | .146 |  |
|         |       |       |       | Tuff. texture still visible. 5% f.g. diss. py. &   |        |            |         |       |        |       |      |      |  |
|         |       |       |       | in qtz. vugs.                                      |        |            |         |       |        |       |      |      |  |
| 147     | 151.2 | 4.2   | 100   | Quartz Vein; white-grey. Vugs 3-5%, to 1/4".       | 5312   | 3-5%       | 147     | 151.2 | 4.2    | 100   | .019 | .172 |  |
|         |       |       |       | Freq. dacitic clast floating in qtz. Calcite       |        |            |         |       |        |       |      |      |  |
|         |       |       |       | in some vugs with pyrite.                          |        |            |         |       |        |       |      |      |  |
| 151.2   | 166.2 | 150   | 100   | Dacitic tuff; grey-green. Moderately silicified    | 5313   | 5-8%       | 151.2   | 156   | 4.8    | 100   | .002 | .026 |  |
|         |       |       |       | grnd. mass. 30-50% Qtz. Promin. tuff. textures     |        |            |         |       |        |       |      |      |  |
|         |       |       |       | remain 5-8% diss. & vn. pyrite. Calc-zeol. strgrs  |        |            |         |       |        |       |      |      |  |
|         |       |       |       | common.                                            |        |            |         |       |        |       |      |      |  |
| 166.2   | 174   | 7.8   | 100   | Dacite-rhyolite-massive, grey; 3% diss. pyrite.    | 5314   | 3%         | 166.2   | 167   | 0.8    | 95    | .005 | .073 |  |
|         |       |       |       | Cut by several 8" to 15" qtz. vns. at 70°.         |        |            |         |       |        |       |      |      |  |
|         |       |       |       | Possibly intensely silicified volc. but not        | 5315   | 3%         | 170.5   | 173   | 2.5'   | 100   | .005 | .061 |  |
|         |       |       |       | remnant texts. visible.                            |        |            |         |       |        |       |      |      |  |
|         |       |       |       | 166.2' to 167' Q.V. white massive.                 |        |            |         |       |        |       |      |      |  |
|         |       |       |       | 170.5' to 171' Q.V. with clay gouge: fault @ 60°.  | 5316   | 3%         | 173     | 174   | 1.0    | 100   | .006 | .056 |  |



# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-2

SHEET NUMBER 4 OF 6

| FOOTAGE |       |       |       | DESCRIPTION                                                                                                             | SAMPLE |            |         |     | ASSAYS |       |      |      |
|---------|-------|-------|-------|-------------------------------------------------------------------------------------------------------------------------|--------|------------|---------|-----|--------|-------|------|------|
| FROM    | TO    | WIDTH | RCVRY |                                                                                                                         | NUMBER | % SULFIDES | FOOTAGE |     |        |       | Au   | Ag   |
|         |       |       |       |                                                                                                                         |        |            | FROM    | TO  | WIDTH  | RCVRY |      |      |
|         |       |       |       | 173' to 174' Q.V. with bxt'd volc. frags. clay<br>& calcite.                                                            |        |            |         |     |        |       |      |      |
| 174     | 191   | 17    | 100   | Siliceous; fragmental rock. 75% Qtz. and 25%<br>gry-grn. felsic massive rock? Qtz., vuggy;<br>probably bxt'd qtz. vein. | 5317   | 3%         | 174     | 176 | 2.0    | 100   | .007 | .081 |
|         |       |       |       | 179 to 179.6 - Fault with grn. clay gouge @ 80°.                                                                        | 5318   | 3-5%       | 176     | 181 | 5.0    | 100   | .005 | .056 |
|         |       |       |       | 184.5 tp 186 - Fault with grn. cly-qtz. gouge @<br>70°.                                                                 | 5319   | 3-5%       | 181     | 186 | 5.0    | 100   | .014 | .067 |
|         |       |       |       | 186 to 189 - Silicified dacite tuff. grn; cut<br>by Q.Vs. 1-2" wide at intervals.                                       | 5320   | 3%         | 186     | 189 | 3.0    | 100   | .006 | .073 |
|         |       |       |       | 189 to 191 - Q.Vn; Bxt'd, Calc.-zeol.-chl. in<br>grnd. mass.                                                            | 5321   | 5%         | 189     | 191 | 2      | 100   | .004 | .049 |
| 191     | 193   | 2     | 100   | Qtz. vein; grey, white; Bxt'd; recemented. Grey<br>f.g. material probably mixed chl.-py.                                | 5322   | 5-8%       | 191     | 193 | 2      | 100   | .019 | .200 |
|         |       |       |       | 191 - 191.6' Fault with clay-qtz. gouge at 60°;<br>(vn contact).                                                        |        |            |         |     |        |       |      |      |
| 193     | 198.5 | 5.5   | 100   | Dacite; Beige-grey-green. Massive. Crushed and<br>gouged core: 3-5% diss. Py. Clay-calcite in<br>gouge.                 |        |            |         |     |        |       |      |      |
|         |       |       |       | 198-198.5 Fault with 6" gouge at 45°.                                                                                   |        |            |         |     |        |       |      |      |
| 198.5   | 203   | 4.5   | 100   | Qtz. vein: White, massive with grey qtz. frags.<br>Abundant chl-py along fracs.                                         | 5323   | 3-5%       | 198.5   | 203 | 4.5    | 100   | .015 | .166 |
|         |       |       |       | 202.5 to 203' - Fault with 6" gouge at 60° to axis.                                                                     |        |            |         |     |        |       |      |      |
| 203     | 207.6 | 4.6   | 100   | Dacite; f.g. massive, green beige: highly fract'd<br>& crushed. Calc.-clay on fracs.                                    |        |            |         |     |        |       |      |      |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-2

SHEET NUMBER 5 OF 6

| FOOTAGE |       |       |       | DESCRIPTION                                       | SAMPLE |            |         |     | ASSAYS |       |      |      |  |
|---------|-------|-------|-------|---------------------------------------------------|--------|------------|---------|-----|--------|-------|------|------|--|
| FROM    | TO    | WIDTH | RCVRY |                                                   | NUMBER | % SULFIDES | FOOTAGE |     |        |       | Au   | Ag   |  |
|         |       |       |       |                                                   |        |            | FROM    | TO  | WIDTH  | RCVRY |      |      |  |
|         |       |       |       | 207 to 207.6 - Fault with gouge at 66°.           |        |            |         |     |        |       |      |      |  |
| 207.6   | 213   | 5.4   | 100   | Silicified volc. Green clasts in grey-white qtz.  |        |            |         |     |        |       |      |      |  |
|         |       |       |       | Chl. py. abundant. 8-10% diss. Pyrite             |        |            |         |     |        |       |      |      |  |
|         |       |       |       | 210-213 - Fault; Crushed & gouged zone; abundant  |        |            |         |     |        |       |      |      |  |
|         |       |       |       | clay-chl.-pyrite in gouge.                        |        |            |         |     |        |       |      |      |  |
| 213     | 216   | 3.0   | 100   | Qtz. vein; Very broken - crushed; 5% calcite and  | 5324   | 5%         | 213     | 216 | 3.0    | 100   | .005 | .067 |  |
|         |       |       |       | much grey clay-chl.-pyrite on fracs. 5% diss.     |        |            |         |     |        |       |      |      |  |
|         |       |       |       | Py. Some vugs but not abundant. Fault at base     |        |            |         |     |        |       |      |      |  |
|         |       |       |       | of vein at 45° to core axis.                      |        |            |         |     |        |       |      |      |  |
| 216     | 228   | 12    | 95    | Dacite; Green-beige; 3-5% diss. Py. Mottled       |        |            |         |     |        |       |      |      |  |
|         |       |       |       | texture possible remnant mafics at 221' to 223'   |        |            |         |     |        |       |      |      |  |
|         |       |       |       | - Fault @ 15° at 220.5 to 221.2'; Crushed 7       |        |            |         |     |        |       |      |      |  |
|         |       |       |       | gouged rock. Very crumbly.                        |        |            |         |     |        |       |      |      |  |
|         |       |       |       | - 223.5' to 224.5' fault; Crushed & gouged rock   |        |            |         |     |        |       |      |      |  |
|         |       |       |       | att'de approximate. 80°.                          |        |            |         |     |        |       |      |      |  |
| 228     | 230   | 2     | 100   | Dacite lapilli tuff to agglomerate, massive beige |        |            |         |     |        |       |      |      |  |
|         |       |       |       | & green clasts in beige matrix. Clasts frequently |        |            |         |     |        |       |      |      |  |
|         |       |       |       | angular. 3-5% Py. mostly as veinlets.             |        |            |         |     |        |       |      |      |  |
| 230     | 234.5 | 4.5   | 100   | Andesite; Med. grn. massive, 3% v.f.g. diss. Py.  |        |            |         |     |        |       |      |      |  |
|         |       |       |       | Epidote, zeolite & clac. strgrs common. Core      |        |            |         |     |        |       |      |      |  |
|         |       |       |       | brkn. to 5" pces.                                 |        |            |         |     |        |       |      |      |  |
| 234.5   | 247.9 | 13.4  | 100   | Andesite breccia; Med. grn. as above with angular |        |            |         |     |        |       |      |      |  |
|         |       |       |       | 1/2" to 1 1/2" clasts; Frequent black patches     |        |            |         |     |        |       |      |      |  |
|         |       |       |       | (2-3") of Magnetite. 10% epidote in matrix & as   |        |            |         |     |        |       |      |      |  |
|         |       |       |       | veinlets. Num. pink zeol strgrs. fracs. at 60°.   |        |            |         |     |        |       |      |      |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-2

SHEET NUMBER 6 OF 6

[illegible]

# DIAMOND DRILL HOLE RECORD

DRILLED BY: J. T. Thomas Diamond Drilling Ltd.  
HOLE NUMBER: S-81-5 LENGTH: 582  
LOCATION: North Quartz Zone DIP: -45°  
LATITUDE: 8750 N DEPARTURE: 41820 E  
ELEVATION: 5530' (1686m) AZIMUTH: Approximately 210°  
HOLE STARTED: July 14, 1981 HOLE COMPLETED: July 17, 1981

| ACID &/OR TRO-PARI TESTS |      |         |         |     |         |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE                  | DIP  | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 582                      | -43° |         |         |     |         |
|                          |      |         |         |     |         |
|                          |      |         |         |     |         |
|                          |      |         |         |     |         |

SHEET No. 1 OF: 4  
HOLE NUMBER: S-81-5  
PROPERTY: Chappelle  
ACCOUNT No.: 714-00-300  
CORE SIZE: NQ  
% CORE RECOVERY:  
LOGGED BY: J. Paxton

| FOOTAGE |     |       |       | DESCRIPTION                                           | SAMPLE |            |         |    | ASSAYS |       |  |  |
|---------|-----|-------|-------|-------------------------------------------------------|--------|------------|---------|----|--------|-------|--|--|
| FROM    | TO  | WIDTH | RCVRY |                                                       | NUMBER | % SULFIDES | FOOTAGE |    |        |       |  |  |
|         |     |       |       |                                                       |        |            | FROM    | TO | WIDTH  | RCVRY |  |  |
| 0       | 130 |       | 0     | Overburden                                            |        |            |         |    |        |       |  |  |
| 130     | 237 |       | 70%   | Andesite -1. Dark green colour. Fine grained          |        |            |         |    |        |       |  |  |
|         |     |       |       | 40% tan to grey subhedral fels.                       |        |            |         |    |        |       |  |  |
|         |     |       |       | 10% chlorite                                          |        |            |         |    |        |       |  |  |
|         |     |       |       | 10% calcite                                           |        |            |         |    |        |       |  |  |
|         |     |       |       | 5% pyrite & magnetite                                 |        |            |         |    |        |       |  |  |
|         |     |       |       | 35% aphanitic green ground mass                       |        |            |         |    |        |       |  |  |
|         |     |       |       | Core cut by numerous calcite veinlets which have been |        |            |         |    |        |       |  |  |
|         |     |       |       | partially leached. Core broken and blocky. 155-163    |        |            |         |    |        |       |  |  |
|         |     |       |       | Chloritic shear zone at 20% to C.A. 40% of rock is    |        |            |         |    |        |       |  |  |
|         |     |       |       | calcite stringers. Traces of sooty graphite. Muddy    |        |            |         |    |        |       |  |  |
|         |     |       |       | blocky core. Black, magnetite rich bands at 233 and   |        |            |         |    |        |       |  |  |
|         |     |       |       | at 236. 1/8"-1/2" at 60° to C.A.                      |        |            |         |    |        |       |  |  |
| 237     | 309 |       | 90%   | Andesite -2. Grey-green colour. Very fine grained     |        |            |         |    |        |       |  |  |
|         |     |       |       | equigranular texture. Massive with numerous criss-    |        |            |         |    |        |       |  |  |
|         |     |       |       | crossing quartz and calcite veinlets up to 1/8".      |        |            |         |    |        |       |  |  |
|         |     |       |       | Core is magnetic throughout. Traces of pyrite         |        |            |         |    |        |       |  |  |
|         |     |       |       | throughout.                                           |        |            |         |    |        |       |  |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S-81-5

SHEET NUMBER 2 OF 4

| FOOTAGE |     |       |       | DESCRIPTION                                                                                                                                 | SAMPLE |            |         |     |       |       | ASSAYS |     |  |  |  |
|---------|-----|-------|-------|---------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|---------|-----|-------|-------|--------|-----|--|--|--|
| FROM    | TO  | WIDTH | RCVRY |                                                                                                                                             | NUMBER | % SULFIDES | FOOTAGE |     |       |       | Au     | Ag  |  |  |  |
|         |     |       |       |                                                                                                                                             |        |            | FROM    | TO  | WIDTH | RCVRY |        |     |  |  |  |
| 309     | 311 |       | 100%  | Breccia Zone ? 1-3" rounded indistinct masses of andesite in a ground mass of epidote pyrite and orange feldspar. Pyrite 10%. No magnetite. |        |            |         |     |       |       |        |     |  |  |  |
| 311     | 347 |       | 100%  | Andesite -2. Similar to section 237-309 several 1/2" pink and white calcite - quartz veinlets at 30°.                                       |        |            |         |     |       |       |        |     |  |  |  |
| 347     | 348 |       | 100%  | Quartz Vein. Interbanded with wall rock over 8". 60° to to C.A. Grey quartz mineralized with pyrite and chlorite.                           | 5348   | 2          | 347     | 348 | 1.0   | 100%  | .005   | .08 |  |  |  |
| 348     | 376 |       | 100%  | Andesite -3. Dark green colour. Fine grained.                                                                                               |        |            |         |     |       |       |        |     |  |  |  |
|         |     |       |       | 10% subhedral augite 1/16"                                                                                                                  |        |            |         |     |       |       |        |     |  |  |  |
|         |     |       |       | 15% grey quartz grains <1/16"                                                                                                               |        |            |         |     |       |       |        |     |  |  |  |
|         |     |       |       | 60% plagioclase-chlorite ground mass.                                                                                                       |        |            |         |     |       |       |        |     |  |  |  |
|         |     |       |       | Locally magnetic.                                                                                                                           |        |            |         |     |       |       |        |     |  |  |  |
|         |     |       |       | 5% pyrite                                                                                                                                   |        |            |         |     |       |       |        |     |  |  |  |
|         |     |       |       | 10-20% of rock is irregular calcite - quartz veinlets and pink zeolite.                                                                     |        |            |         |     |       |       |        |     |  |  |  |
| 376     | 379 |       | 100%  | Feldspar-Pyrite Zone. Brown colour.                                                                                                         |        |            |         |     |       |       |        |     |  |  |  |
|         |     |       |       | 60% orange subhedral fels <1/16"                                                                                                            |        |            |         |     |       |       |        |     |  |  |  |
|         |     |       |       | 20% chlorite & chloritized augite                                                                                                           |        |            |         |     |       |       |        |     |  |  |  |
|         |     |       |       | 15% pyrite                                                                                                                                  |        |            |         |     |       |       |        |     |  |  |  |
|         |     |       |       | 5% calcite                                                                                                                                  |        |            |         |     |       |       |        |     |  |  |  |
|         |     |       |       | Locally brecciated. Contacts gradational over 2".                                                                                           |        |            |         |     |       |       |        |     |  |  |  |
| 379     | 389 |       | 100%  | Andesite -3. Similar to 348-376.                                                                                                            |        |            |         |     |       |       |        |     |  |  |  |
| 389     | 393 |       | 100%  | Chlorite Schist Zone. Sheared and contorted 25°-45° to C.A. 50% alteration to chlorite. Very numerous calcite veinlets. Pyrite 1-5%.        |        |            |         |     |       |       |        |     |  |  |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S-81-5

SHEET NUMBER 3 OF 4

| FOOTAGE |       |       |       | DESCRIPTION                                                                                                                                           | SAMPLE |            |         |       | ASSAYS |       |      |      |  |
|---------|-------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|---------|-------|--------|-------|------|------|--|
| FROM    | TO    | WIDTH | RCVRY |                                                                                                                                                       | NUMBER | % SULFIDES | FOOTAGE |       |        |       | Au   | Ag   |  |
|         |       |       |       |                                                                                                                                                       |        |            | FROM    | TO    | WIDTH  | RCVRY |      |      |  |
| 393     | 415   |       | 100%  | Andesite -3. Calcite veinlets very numerous comprising 30% of total rock. Most common orientations 20° and 70° to C.A.                                |        |            |         |       |        |       |      |      |  |
| 415     | 416   |       | 100%  | Quartz Vein. Brecciated grey quartz contacts sharp at 45°. Fractures mineralized with pyrite.                                                         | 5349   | 5          | 415     | 417   | 2.0    | 100%  | .006 | .10  |  |
| 416     | 431.5 |       | 100%  | Andesite -3. Similar to previous section.                                                                                                             |        |            |         |       |        |       |      |      |  |
| 431.5   | 435   |       | 100%  | Mudstone (?) Tan, grey, green and reddish colours. Very fine grained. Massive. Soft and earthy H = 3. Does not react to dil. HCl. Locally brecciated. |        |            |         |       |        |       |      |      |  |
| 435     | 436   |       | 100%  | Quartz Vein. Pale grey quartz with numerous chloritic fractures and inclusions of wall rock. 1st contact sharp at 35°, 2nd contact irregular.         | 5350   | 5          | 433.5   | 435   | 1.5    | 100%  | .009 | .15  |  |
|         |       |       |       |                                                                                                                                                       | 5351   | 5          | 435     | 437.5 | 2.5    | 100%  | .006 | .118 |  |
| 436     | 437   |       | 100%  | Breccia Zone. Intimate mixture of orange feldspar chlorite and epidote and pyrite.                                                                    |        |            |         |       |        |       |      |      |  |
| 437     | 463   |       | 100%  | Andesite -3. Similar to previous.                                                                                                                     |        |            |         |       |        |       |      |      |  |
| 463     | 467   |       | 100%  | Stockwork Zone. Quartz-calcite, calcite, and orange feldspar-pyrite-epidote veinlets.                                                                 | 5352   | 10         | 463     | 467   | 4.0    | 100%  | .005 | .097 |  |
| 467     | 485   |       | 100%  | Andesite 3. Similar to previous.                                                                                                                      |        |            |         |       |        |       |      |      |  |
| 485     | 550   |       | 100%  | Andesite -1. Grey-green colour. Medium grained equigranular. Massive                                                                                  |        |            |         |       |        |       |      |      |  |
|         |       |       |       | 60% Anhedral brown feldspar                                                                                                                           |        |            |         |       |        |       |      |      |  |
|         |       |       |       | 15% subhedral chloritized augite                                                                                                                      |        |            |         |       |        |       |      |      |  |
|         |       |       |       | 20% epidote                                                                                                                                           |        |            |         |       |        |       |      |      |  |
|         |       |       |       | 5% pyrite                                                                                                                                             |        |            |         |       |        |       |      |      |  |
|         |       |       |       | Past 500 crystal definition better especially augite.                                                                                                 |        |            |         |       |        |       |      |      |  |



# DIAMOND DRILL HOLE RECORD

DRILLED BY: J. T. Thomas Diamond Drilling Ltd.

HOLE NUMBER: S81-11 LENGTH: 502'  
 LOCATION: North Quartz Zone DIP: 45°  
 LATITUDE: 8560 N DEPARTURE: 42160 E  
 ELEVATION: 5600' (1707m) AZIMUTH: 230°  
 HOLE STARTED: 81-07-30 HOLE COMPLETED: 81-08-2

## ACID &/OR TRO-PARI TESTS

| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
|---------|-----|---------|---------|-----|---------|
| 500     | 43° |         |         |     |         |
|         |     |         |         |     |         |
|         |     |         |         |     |         |
|         |     |         |         |     |         |

SHEET No.1 OF: 6  
 HOLE NUMBER: S81-11  
 PROPERTY: North Quartz Zone  
 ACCOUNT No.: 714-00  
 CORE SIZE: NQ (WL)  
 % CORE RECOVERY:  
 LOGGED BY: T. Drown

| FOOTAGE |      |       |       | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SAMPLE |            |         |    |       |       | ASSAYS |  |  |  |  |
|---------|------|-------|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|---------|----|-------|-------|--------|--|--|--|--|
| FROM    | TO   | WIDTH | RCVRY |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | NUMBER | % SULFIDES | FOOTAGE |    |       |       |        |  |  |  |  |
|         |      |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |        |            | FROM    | TO | WIDTH | RCVRY |        |  |  |  |  |
| 0       | 21   | 21    | 0     | Overburden and casing to 21'.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |        |            |         |    |       |       |        |  |  |  |  |
| 21      | 30   | 7     | 100   | Dacite; Grey green mottled. Euh. 1/8" white fps. in f.g.<br>siliceous grnd. mass. Clay alt'd Fps.<br>30' - Fault contact @ 40°. 1/2" clay gritty gouge.                                                                                                                                                                                                                                                                                                                                                                              |        |            |         |    |       |       |        |  |  |  |  |
| 30      | 76.5 | 46.5  | 100   | Tracky-dacite, Feldspar porphyry. White & pk. 1/8" - 1/2"<br>euh. Fps. in brown-grey f.g. grnd. mass. freq. 1/2" long<br>amphiboles (Hble); chlotite alt'd? (Syenitic composition)<br>Greenish clay patches after feldspars to 1/4" long. 3-5%<br>f.g. diss. py. Freq. c.c. strgrs. 1/16" wide. 41' - 44.5';<br>clay alt'd; lt. grey-green. Soft f.ps. 1/4" Q. strgrs. at<br>35° at 1' intervals. 5% diss. Py. in volcs. Core broken<br>to 2" pcs.: mostly 3"-5" pcs.<br>69.5' - 74.0' - Cut by num. hairline black veinlets at 40°. |        |            |         |    |       |       |        |  |  |  |  |
| 76.5    | 86   | 9.5   | 100   | Q.F.P. Same as above with 1/4" - 1" oval quartz eyes. 1%<br>diss. Py. Freq. Pk zeol. strgrs.                                                                                                                                                                                                                                                                                                                                                                                                                                         |        |            |         |    |       |       |        |  |  |  |  |
| 86      | 88   | 2.0   | 100   | Syenite porphyry. Pk with white-pk. euh. 1/8" - 1/2" Fp<br>Phenos. and 1/4" amphiboles with occ. euh. 1/4" dia. chlorite<br>biotites. Very similar to 30'-76.5' but with biotites and                                                                                                                                                                                                                                                                                                                                                |        |            |         |    |       |       |        |  |  |  |  |



# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-11

SHEET NUMBER 2 OF 6

| FOOTAGE |       |       |       | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SAMPLE |            |         |    | ASSAYS |       |  |  |  |  |  |
|---------|-------|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|---------|----|--------|-------|--|--|--|--|--|
| FROM    | TO    | WIDTH | RCVRY |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | NUMBER | % SULFIDES | FOOTAGE |    |        |       |  |  |  |  |  |
|         |       |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |        |            | FROM    | TO | WIDTH  | RCVRY |  |  |  |  |  |
|         |       |       |       | more XLline texture.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |        |            |         |    |        |       |  |  |  |  |  |
| 88      | 121.5 | 33.5  | 100   | Q.F.P.; Pk-white euh. Fps. in brown-pink grnd. mass. 2%<br>diss. py. Same as 76.5 to 86'. Num c.c.-zeol. strgrs.<br>and on fracs. Fracs most com. at 75°, 60°, 40°, 30°.<br>Mostly brkn. to 6" pcs.<br>188-120.5 - Fine grained felsic rock same comp. as above.<br>Zeolite flooded.                                                                                                                                                                                                                                                                                                                                                                                  |        |            |         |    |        |       |  |  |  |  |  |
| 121.5   | 219   | 97.5  | 100   | Syenite feldspar porphyry. Med gr., Fp, phenos. in f.g.<br>pk-brown matrix. Hblde & biotite common but not everywhere<br>(Porphyritic volc. texture).<br>-126' - 1/2" qtz, vn, at 42°; 5% Py. in vein. Occ. qtz,<br>eye otherwise identical to above Q.F.P. (Possible<br>intrusive; although occ. clast suggest tuff). 5-<br>1-% das. py in porphyry.<br>159.4' - fault with 1.2" clay gouge @ 45°; rock bleached<br>grey either side 8" below & 18" above fault. 1/2"<br>Q.V. 12" above fault at 48°.<br>171.5 to 174' - Bleached & brxtd. zone: lt. green-pink<br>flooded with zeol.-quartz. Clay gouge at 172.2'<br>at 45°.<br>211.2' - 3/4" Q.V. at 35°, pyritic. |        |            |         |    |        |       |  |  |  |  |  |
| 219     | 239   | 20    | 100   | Feldspar porphyry as above with f.g. dk. grn. andesite<br>angular fragments to 14" long. Possibly dykes, but small<br>frags only 3"-4" dia. Num. Pk. zeol. strgrs. & frac.<br>coatings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |        |            |         |    |        |       |  |  |  |  |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-11

SHEET NUMBER 3 OF 6

| FOOTAGE |       |       |       | DESCRIPTION                                                            | SAMPLE |            |       |       |       |       | ASSAYS |      |  |  |  |
|---------|-------|-------|-------|------------------------------------------------------------------------|--------|------------|-------|-------|-------|-------|--------|------|--|--|--|
| FROM    | TO    | WIDTH | RCVRY |                                                                        | NUMBER | % SULFIDES | FROM  | TO    | WIDTH | RCVRY | Au     | Ag   |  |  |  |
|         |       |       |       | 236-237.1' - Andesite dyke; sharp contacts at 75°.                     |        |            |       |       |       |       |        |      |  |  |  |
| 239     | 242   | 3     | 100   | Andesite: Dk. grn. v.f.g. 3% diss. py. Possibly dyke.                  |        |            |       |       |       |       |        |      |  |  |  |
|         |       |       |       | Lower contact at 35°. Upper contact ground.                            |        |            |       |       |       |       |        |      |  |  |  |
| 242     | 251.8 | 9.8   | 100   | Feldspar porphyry as before with andesite angular & sub-               |        |            |       |       |       |       |        |      |  |  |  |
|         |       |       |       | angular fragments at 1' intervals. Num pk. c.c.-zeol. strgrs.          |        |            |       |       |       |       |        |      |  |  |  |
| 251.8   | 255   | 4.5   | 100   | Andesite dyke. Dk. grn-black f.g. (massive) upper contact              |        |            |       |       |       |       |        |      |  |  |  |
|         |       |       |       | at 20° lower contact at 30°. Mod. magnetic. Occ. zeol-                 |        |            |       |       |       |       |        |      |  |  |  |
|         |       |       |       | c.c. strgrs. otherwise fresh. Brkn to 2" pcs.                          |        |            |       |       |       |       |        |      |  |  |  |
| 255     | 259.5 | 4.5   | 100   | Feldspar porphyry (Syenitic comp.) as from 121.5'-219 above.           |        |            |       |       |       |       |        |      |  |  |  |
| 259.5   | 261   | 1.5   | 100   | Feldspar porphyry. Grey-pink. Clay-qtz. alt'd. Grey                    | 5377   | 5-10       | 259.5 | 261   | 1.5   | 100   | .019   | 0.12 |  |  |  |
|         |       |       |       | strgrs. (hairline) at 50°, occ. with quartz vns. 1/4" wide             |        |            |       |       |       |       |        |      |  |  |  |
|         |       |       |       | 5-10% diss. py.                                                        |        |            |       |       |       |       |        |      |  |  |  |
| 261     | 264   | 3     | 100   | Feldspar porphyry. Trachyte-dacite composition. Pink-beige             |        |            |       |       |       |       |        |      |  |  |  |
|         |       |       |       | with 1/8" - 1/2" euh. white & pink Fps. Py. clots to 1/4"              |        |            |       |       |       |       |        |      |  |  |  |
|         |       |       |       | after motics. Num. c.c.-zeol. strgrs. Occ. 1/2" Q.Vs. at               |        |            |       |       |       |       |        |      |  |  |  |
|         |       |       |       | 1.5' intervals at 45° to axis.                                         |        |            |       |       |       |       |        |      |  |  |  |
| 264     | 265.5 | 1.5   | 100   | Feldspar porphyry, Grey-pink. Clay -SiO <sub>2</sub> alt'd as above in | 5378   | 15%        | 264   | 265.5 | 1.5   | 100   | .013   | 0.12 |  |  |  |
|         |       |       |       | unit 259.5-261'. Fault bounded on lower contact at 38°.                |        |            |       |       |       |       |        |      |  |  |  |
| 265.5   | 287.5 | 22    | 100   | Feldspar porphyry as above.                                            |        |            |       |       |       |       |        |      |  |  |  |
| 287.5   | 292.2 | 5.0   | 100   | Andesite, F.g., grn Zeols. comm. on frags. at 45°, 60°. Occ.           |        |            |       |       |       |       |        |      |  |  |  |
|         |       |       |       | 1/2" qtz-epidote-py strgrs. at 45°. 10-15% Py; diss. & vn.             |        |            |       |       |       |       |        |      |  |  |  |
| 292.5   | 301.5 | 9.0   | 100   | Feldspar porphyry (trachyte-syenite compos) Pk. Euh. white-            |        |            |       |       |       |       |        |      |  |  |  |
|         |       |       |       | pk. Fps. & grey 1/2" py. clots; 10% Py. Occ. 1/4" Q.Vs.                |        |            |       |       |       |       |        |      |  |  |  |
| 301.5   | 304.5 | 3.0   | 100   | Andesite; Lt.-dk. gr. Bxt'd & Q.-Ep. cemented. Black f.g.              |        |            |       |       |       |       |        |      |  |  |  |
|         |       |       |       | mineral in Qtz? Alt'd at 25° at low contact.                           | 5379   | 5%         | 301.5 | 304.5 | 3.0   | 100   | .012   | 0.13 |  |  |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-11

SHEET NUMBER 4 OF 6

| FOOTAGE |       |       |       | DESCRIPTION                                                                                                                                                                              | SAMPLE |            |       |       | ASSAYS |       |      |      |  |
|---------|-------|-------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|-------|-------|--------|-------|------|------|--|
| FROM    | TO    | WIDTH | RCVRY |                                                                                                                                                                                          | NUMBER | % SULFIDES | FROM  | TO    | WIDTH  | RCVRY | Au   | Ag   |  |
| 304.5   | 307.6 | 3.1   | 100   | Q.V. with frags. of Feldspar porphyry-epidote-zeol. Grey hairline strgrs. at 40°-45°. F.p. porph. frags. clay-ep. alt'd.                                                                 | 5380   | 2%         | 304.5 | 307.6 | 3.1    | 100   | .012 | 0.48 |  |
| 307.6   | 332.4 | 24.8  | 100   | Feldspar porphyry; Syenitic. Pink; C.g. euh. White & pink. F.p. phenos in pink felsic matrix. 5% diss. py. 1/4" Q.Vs. comm. at 1 1/2" intervals; some white, some with occ. grey flecks. |        |            |       |       |        |       |      |      |  |
|         |       |       |       | 326.8' - 3 phases of criss Xing. Q.Vs. displacement of 2 oldest phases. Oldest phase contains grey powdery mineral. (Shiny & blueish like MoS <sub>2</sub> ).                            |        |            |       |       |        |       |      |      |  |
| 332.4   | 335   | 2.6   | 100   | Andesite Dk.-lt. grn. Bxt'd, epid, alt'd. Moderately magnetic 2 - 1/4" Q.Vs. at 1' intervals at 20°.                                                                                     |        |            |       |       |        |       |      |      |  |
| 335     | 340.7 | 5.7   | 100   | Bxt'd andesite. Cemented to Q. & epidote-calcite. White with lt. green mottling & sphalerite-pyrite.                                                                                     | 5381   | 5%         | 335   | 340.7 | 5.7    | 100   | .012 | 0.24 |  |
| 340.7   | 343.7 | 3.0   | 100   | Q.V. alt'd Feldspar porphyry. Pink F.p. porph. veins floating in pure white Q.V. with Chl.-pyrite-c.c.                                                                                   | 5382   | 3%         | 340.7 | 343.7 | 3.0    | 100   | .011 | 0.15 |  |
| 343.7   | 349   | 5.3   | 100   | Q.V. whtie-grn. with py.-chl.-cpy. & greyish mineral as globs & flecks. (Sphalerite?)                                                                                                    | 5383   | 3-5%       | 343.7 | 349   | 5.3    | 100   | .015 | 0.77 |  |
| 349     | 364.2 | 15.2  | 100   | Feldspar (syenitic) porphyry. Pk.-white euh. Fps. in pink-beige f.g. matrix. Cut by occ. 1/8"-1/4" Q.Vs. at various alt'des.                                                             |        |            |       |       |        |       |      |      |  |
|         |       |       |       | 354.6-357.4' - Q.V. alt'd porphyry with grey flecks & Cpy.                                                                                                                               |        |            |       |       |        |       |      |      |  |
| 364.2   | 366   | 1.8   | 95    | Andesite dyke; dk-med. grn. f.g. XLLine; at 28° to core axis. 3% f.g. diss. Py.                                                                                                          | 5384   | 2-3%       | 354.6 | 357.4 | 2.8    | 100   | .017 | .015 |  |
| 366     | 370.5 | 4.5   | 95    | Dacitic valcanic. Possibly alt'd andesite above. v.f.g. Flooded with pk. zeols. & c.c. Lt. green-grey with olive                                                                         |        |            |       |       |        |       |      |      |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-11

SHEET NUMBER 5 OF 6

| FOOTAGE |       |       |       | DESCRIPTION                                                                                                                                                                                                                   | SAMPLE |            |         |     | ASSAYS |       |      |      |  |
|---------|-------|-------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|---------|-----|--------|-------|------|------|--|
| FROM    | TO    | WIDTH | RCVRY |                                                                                                                                                                                                                               | NUMBER | % SULFIDES | FOOTAGE |     |        |       | Au   | Ag   |  |
|         |       |       |       |                                                                                                                                                                                                                               |        |            | FROM    | TO  | WIDTH  | RCVRY |      |      |  |
|         |       |       |       | grn. mottling of epidote.                                                                                                                                                                                                     |        |            |         |     |        |       |      |      |  |
| 370.5   | 375   | 4.5   | 90    | Andesite as in 364.2-366'. Contacts appear to be at about 25° although core badly brkn.                                                                                                                                       |        |            |         |     |        |       |      |      |  |
| 375     | 384   | 9     | 95    | Above andesite rock alt'd by zeolites-quartz and clay. Q.Vs. 1/8" to 1/4" at 2' intervals at various angles. (30°, 50°, 15°). May be bxt'd andesite filled with f.g. equiv. of Feldspar porphyry.                             |        |            |         |     |        |       |      |      |  |
| 384     | 393.5 | 9.5   | 95+   | Andesite f.g. dk. grn. 10% f.g. diss. py. Num. pink dacite veins (dykes) flooding the andesite similar comp. to Feldspar porphy above. Occ. 1/8" pyrite veinlets with 1/8" qtz-sericite envelopes at angles of 45°, 15°, 30°. |        |            |         |     |        |       |      |      |  |
| 393.5   | 396.8 | 3.3   | 100   | Q.F.P. Pink c.g. euh. Fps. in pink-beige f.g. matrix. Qtz. eyes rounded to 1/2" dia. freq. Andesite clasts or dykelets to 2" wide. 10-15% f.g. diss. pyrite.                                                                  |        |            |         |     |        |       |      |      |  |
| 396.8   | 416   | 19.2  | 95    | Andesite. Dk. grn. v.f.g. occ. plag. phenos visible. 5% f.g. diss. py. Occ. hairline pyrite strgrs. with qtz. envelopes. Num pk. c.c.-zeol. strgrs. at 45°, 30°, 60° at 6" intervals.                                         |        |            |         |     |        |       |      |      |  |
| 416     | 422   | 6     | 95    | Dacite tuff-agglom. Beige-grn. with 2"-5" ghostly beige clasts. 2-3% diss. py. Occ. Q.V., 1/8" wide.                                                                                                                          |        |            |         |     |        |       |      |      |  |
| 422     | 430   | 8     | 90    | Andesite. Dk. grn. f.g. 1/8" Q.-Py vnlt. at 2" intervals at 40°. Num pk. vnlt. to 1/4" wide. Zeols. common.                                                                                                                   |        |            |         |     |        |       |      |      |  |
| 430     | 435   | 5.0   | 100   | Q.V. Grey-grn with epidote, pyrite, zeolites. Att'd of vein approx. 10% to core axis. 60% Qtz. rest clay, ep. py. zeols.                                                                                                      | 5385   | 15         | 430     | 435 | 5.0    | 100   | .025 | 0.15 |  |

# DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S81-11

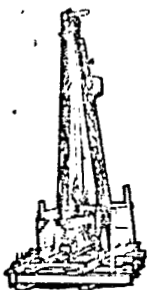
SHEET NUMBER 6 OF 6

| FOOTAGE |       |       |       | DESCRIPTION                                                                                                                                                     | SAMPLE |            |       |     | ASSAYS |       |      |      |
|---------|-------|-------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------|-------|-----|--------|-------|------|------|
| FROM    | TO    | WIDTH | RCVRY |                                                                                                                                                                 | NUMBER | % SULFIDES | FROM  | TO  | WIDTH  | RCVRY | Au   | Ag   |
|         |       |       |       | c.c. 15% Pyrite.                                                                                                                                                |        |            |       |     |        |       |      |      |
| 435     | 439   | 4.0   | 100   | Q.V. White with grey-grn. mottling of epidote-pyrite. Pk. zeol. patches common. Vn. alt'd 10°-15° to axis. Vein width only 3-4" wide. drilled down dip of vein. | 5386   | 10         | 435   | 439 | 4.0    | 100   | .028 | 0.17 |
| 439     | 445   | 6.0   | 100   | Q.V. & alt'd volc. Vein only 2"-3" wide at 10° to axis. 10% diss. py. 20% epidote alt'd volc. 20% Pk. zeols. & c.c.                                             | 5387   | 10         | 439   | 445 | 6.0    | 100   | .021 | 0.16 |
| 445     | 463.5 | 18.5  | 100   | Andesite amphibole porphyry. Dk. grn. with 1/4"-1/2" amph. phenos in f.g. matrix.                                                                               |        |            |       |     |        |       |      |      |
|         |       |       |       | 454' - 6" alt'd zone at 30° to axis with pink K-spav. flooding; again at 454.3 at 50°.                                                                          |        |            |       |     |        |       |      |      |
| 463.5   | 467   | 3.5   | 100   | Quartz-calcite cemented breccia of Dacitic comp. grey-white Possibly alt'd Andes. Amph. porph. Upper contract at 45°. 8-10% diss. f.g. py.                      | 5388   | 8-10       | 463.5 | 467 | 3.5    | 100   | .011 | 0.12 |
| 467     | 502   | 3.5   | 100   | Andesite amphibole porphyry. Dk. grn. with pk.-beige mottling from K-spar alt'n. Occ. 1/4" Q.Vs. at 2' intervals at 45° to core axis. 5% diss. & vn. pyrite.    |        |            |       |     |        |       |      |      |
|         |       |       |       | 473' - 3" Q.V. at 30° to axis. Pure white with pk. zeols. & minor white c.c.                                                                                    |        |            |       |     |        |       |      |      |
|         |       |       |       | 477' - 2" Q.V. at 30° as above.                                                                                                                                 |        |            |       |     |        |       |      |      |
|         |       |       |       | 483' - 484'; 1/4" Pyrite vein at 20° with 1" K-spar envelope.                                                                                                   |        |            |       |     |        |       |      |      |
|         |       |       |       | FOOT OF HOLE.                                                                                                                                                   |        |            |       |     |        |       |      |      |

7.

APPENDIX B

DIAMOND DRILLING INVOICES



**J. T. THOMAS**  
**DIAMOND DRILLING (1980) LTD.**  
**SMITHERS, B.C.**

PH. 847-3531  
P.O. BOX 394  
VOJ 2N0

To: Dupont of Canada Exploration Limited  
Suite 102, 1550 Alberni Street  
Vancouver, B.C.  
V6G 1A5

Invoice No. 81-1  
Property: Baker Mines  
Invoice Date: July 20, 1981

This is our invoice for diamond drilling and other services on the above property as per contract. Drill 38-8.

Diamond Drilling: Total Footage 1383'. 25,585.50 /  
See attached page 2.

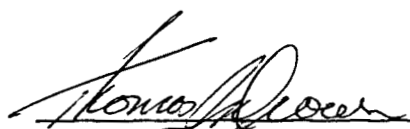
Man and Machine Hours: See attached page 3 8,500.00 /

Materials Used, lost or damaged: See attached page 4 11,425.50 /  
Note: unused mud will be credited at end of project.

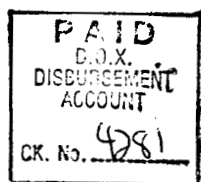
Testing: 3 acid tests at \$40.00 120.00 /

Total 45,631.00 //

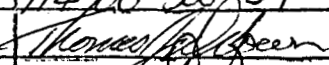
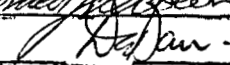
The above calculations are agreed to by:

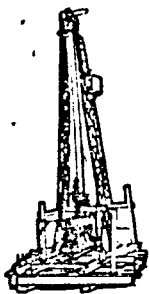
  
Company Representative

  
J.T. Thomas Diamond Drilling Ltd.



AUG 5 - 1981

|          |                                                                                       |
|----------|---------------------------------------------------------------------------------------|
| DATE     | JUL 27 1981                                                                           |
| CHARGE   | 714-20-300-57                                                                         |
| APPROVED |   |
| APPROVED |  |



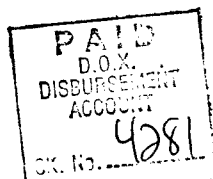
**J. T. THOMAS**  
**DIAMOND DRILLING (1980) LTD.**  
—  
**SMITHERS, B.C.**

PH. 847-3531  
P.O. BOX 394  
VOJ 2N0

- 2 -

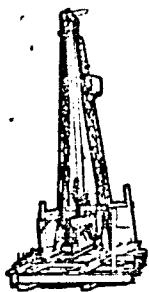
DIAMOND DRILLING

| <u>Hole No.</u> | <u>Date</u> | <u>Overburden</u><br><u>From To</u> | <u>Coring</u><br><u>From To</u> | <u>Total</u><br><u>Footage</u> | <u>Rate</u> | <u>Amount</u> |
|-----------------|-------------|-------------------------------------|---------------------------------|--------------------------------|-------------|---------------|
| 581-1           | July 8      | 0 - 4                               |                                 | 4                              | 18.50       | 74.00         |
|                 |             |                                     | 4 - 205                         | 201                            | 18.50       | 3,718.50      |
| 581-2           | July 9      | 0 - 8                               |                                 | 8                              | 18.50       | 148.00        |
|                 |             |                                     | 8 - 263                         | 255                            | 18.50       | 4,717.50      |
| 581-3           | July 11     | 0 - 8                               |                                 | 8                              | 18.50       | 148.00        |
|                 |             |                                     | 8 - 237                         | 229                            | 18.50       | 4,236.50      |
| 581-4           | July 12     | 0 - 8                               |                                 | 8                              | 18.50       | 148.00        |
|                 |             |                                     | 8 327                           | 319                            | 18.50       | 5,901.50      |
| 581-5           | July 14     | 0 - 53                              |                                 | 53                             | 18.50       | 980.50        |
|                 |             |                                     | 53 - 351                        | 298                            | 18.50       | 5,513.00      |
| TOTAL           |             |                                     |                                 | 1383' /                        |             | \$25,585.50 / |



AUG 5 - 1981





**J. T. THOMAS**  
**DIAMOND DRILLING (1980) LTD.**

PH. 847-3531  
P.O. BOX 394  
VOJ 2N0

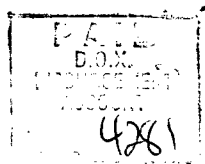
—  
**SMITHERS, B.C.**

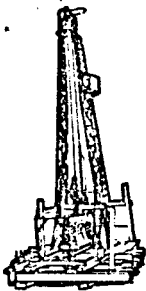
- 3 -

MAN AND MACHINE HOURS

| <u>Date</u> | <u>Graham</u> | <u>Wilderman</u> | <u>Hayes</u> | <u>D'Amours</u> | <u>Warren</u> | <u>Drill</u> |
|-------------|---------------|------------------|--------------|-----------------|---------------|--------------|
| July 6      | 10            | 10               | 10           | 10              | 13            |              |
| 7           | 13            | 13               | 13           | 13              | 13            |              |
| 8           | 11            | 11               | 5            | 5               | 11            |              |
|             |               |                  | 2            | 2               |               | 2            |
| 9           | 4             | 6                |              |                 |               | 2            |
|             |               |                  | 3            | 3               |               | 3            |
| 10          | 4             | 6                |              |                 |               | 3            |
|             |               |                  | 8            | 8               |               | 4            |
| 11          | 11            | 11               | 5            | 5               | 8             | 1            |
|             |               |                  | 1            | 2               |               | 1            |
| 12          | 4             | 7                |              |                 |               | 2            |
|             |               |                  | 1            | 1               |               | 1            |
| 13          | 9             | 9                |              |                 | 9             | 7            |
|             |               |                  | 8            | 8               |               | 8            |
| 14          | 10            | 10               | 5            | 5               | 5             | 4            |
|             |               |                  | 5            | 7               | 1             | 5            |
| 15          | 5             | 7                |              |                 | 3             | 5            |
|             |               |                  | 2            | 4               |               | 2            |
|             | <u>81</u>     | <u>90</u>        | <u>68</u>    | <u>73</u>       | <u>63</u>     | <u>50</u>    |

TOTAL MAN AND MACHINE HOURS: 425 hrs x \$20.00/hr = \$8,500.00✓





**J. T. THOMAS**  
**DIAMOND DRILLING (1980) LTD.**

**SMITHERS, B.C.**

PH. 847-3531  
P.O. BOX 394  
VOJ 2N0

- 4 -

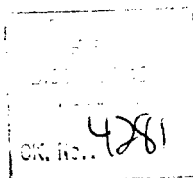
MATERIALS USED, LOST OR DAMAGED

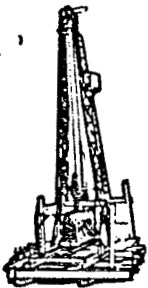
| <u>Date</u> | <u>Quantity</u> | <u>Item</u>                          | <u>Cost</u> | <u>Amount</u> |
|-------------|-----------------|--------------------------------------|-------------|---------------|
| July 8      | 1               | NW Casing shoe                       | 250.00      | n/c           |
|             | 1               | NQ bit 80% (broken ground)           | 525.00      | 420.00        |
| 9           | 1               | 4" Tricone                           | 165.00      | n/c           |
|             | 1               | NW Casing Shoe                       | 250.00      | n/c           |
|             | 1               | NQ bit 80% (broken ground)           | 525.00      | 420.00        |
| 11          | 1               | 4" Tricone                           | 165.00      | n/c           |
|             | 1               | NW Casing Shoe (reaming broken rock) | 250.00      | 250.00        |
| 12          | 1               | NQ bit 50% (cave)                    | 525.00      | 262.50        |
| 14          | 1               | 4" Tricone                           | 165.00      | n/c           |
|             | 1               | NW Casing Shoe (reaming)             | 250.00      | 250.00        |
| 15          | 1               | NQ bit 100% (cave)                   | 525.00      | 525.00        |

Supplies shipped to Baker Mine at start up.  
(unused items to be credited at completion of project)

|        |     |                 |        |          |
|--------|-----|-----------------|--------|----------|
| July 7 | 32  | Alcomer         | 189.00 | 6,048.00 |
|        | 100 | 50 lb quick gel | 8.50   | 850.00   |
|        | 300 | NQ coreboxes    | 6.00   | 1,800.00 |
|        | 300 | Corebox lids    | 2.00   | 600.00   |

Total 11,425.50





**J. T. THOMAS**  
**DIAMOND DRILLING (1980) LTD.**  
**SMITHERS, B.C.**

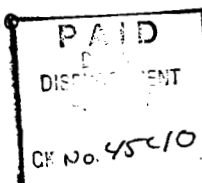
PH. 847-3531  
P.O. BOX 394  
VOJ 2N0

To: Dupont of Canada Exploration Limited  
Suite 102, 1550 Alberni Street  
Vancouver, B.C.  
V6G 1A5

Invoice No. 81-2  
Invoice Date: August 10, 1981  
Property: Baker Mines

This is our invoice for diamond drilling and other services on the above property as per contract. Drill 38-8.

|                                  |                                                                                      |                    |
|----------------------------------|--------------------------------------------------------------------------------------|--------------------|
| Diamond Drilling:                | Total Footage: 2047'.<br>See attached page 2.                                        | 37,869.50 ✓        |
| Man and Machine Hours:           | See attached page 3.                                                                 | 9,160.00 ✓         |
| Materials Used, lost or damaged: | See attached page 4.                                                                 | 6,620.00 ✓         |
| Testing:                         | 5 acid tests @ \$40.00/each                                                          | 200.00 ✓           |
| Undrilled Contract footage:      | 1570 x \$3.50/foot<br>(including extra cost of adapting drill to<br>helicopter move) | 5,495.00 ✓         |
|                                  |                                                                                      | <u>59,344.50 ✓</u> |

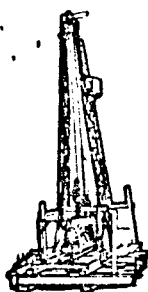


The above calculations are agreed to by:

|          |                    |
|----------|--------------------|
| DATE     | AUG 13 1981        |
| AMOUNT   | 114,000.39p-57.    |
| APPROVED | <i>[Signature]</i> |
| RECEIVED | <i>[Signature]</i> |

\_\_\_\_\_  
Company Representative

*[Signature]*  
J.T. Thomas Diamond Drilling Ltd.

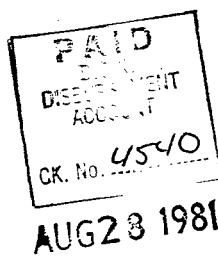


**J. T. THOMAS**  
**DIAMOND DRILLING (1980) LTD.**  
**SMITHERS, B.C.**

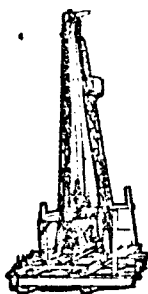
PH. 847-3531  
P.O. BOX 394  
VOJ 2N0

Diamond Drilling

| Hole No. | Date    | Overburden |    | Coring |     | Total<br>Footage | Rate  | Amount    |
|----------|---------|------------|----|--------|-----|------------------|-------|-----------|
|          |         | From       | To | From   | To  |                  |       |           |
| S81-5    | July 16 |            |    | 351    | 482 | 131              | 18.50 | 2,423.50  |
| S81-6    | July 17 | 0          | 30 |        |     | 30               | 18.50 | 555.00    |
|          |         |            |    | 30     | 282 | 252              | 18.50 | 4,662.00  |
| S81-7    | July 19 | 0          | 30 |        |     | 30               | 18.50 | 555.00    |
|          |         |            |    | 30     | 420 | 390              | 18.50 | 7,215.00  |
| S81-8    | July 22 | 0          | 10 |        |     | 10               | 18.50 | 185.00    |
|          |         |            |    | 10     | 294 | 284              | 18.50 | 5,254.00  |
| S81-9    | July 25 | 0          | 10 |        |     | 10               | 18.50 | 185.00    |
|          |         |            |    | 10     | 252 | 242              | 18.50 | 4,477.00  |
| S81-10   | July 27 | 0          | 32 |        |     | 32               | 18.50 | 592.00    |
|          |         |            |    | 32     | 166 | 134              | 18.50 | 2,479.00  |
| S81-11   | July 30 | 0          | 20 |        |     | 20               | 18.50 | 370.00    |
|          |         |            |    | 20     | 502 | 482              | 18.50 | 8,917.00  |
|          |         |            |    |        |     | 2047             |       | 37,869.50 |







**J. T. THOMAS**  
**DIAMOND DRILLING (1980) LTD.**

**SMITHERS, B.C.**

PH. 847-3531  
P.O. BOX 394  
VOJ 2N0

- 4 -

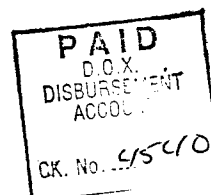
Materials used, lost or damaged

| <u>Date</u> | <u>Quantity</u> | <u>Item</u>                            | <u>Cost</u> | <u>Amount</u> |
|-------------|-----------------|----------------------------------------|-------------|---------------|
| July 16     | 1               | NQ bit 50% (cave)                      | 525.00      | 262.50        |
|             | 2               | 10' NQ rods                            | 128.00      | 256.00        |
| 17          | 1               | NW Casing Shoe                         | 250.00      | n/c           |
|             | 1               | 4 1/4 Tricone                          | 165.00      | n/c           |
| 18          | 1               | NQ bit 100% (cave)                     | 525.00      | 525.00        |
| 19          | 1               | NQ bit 100%                            | 525.00      | n/c           |
| 20          | 1               | NQ bit 75% (cave)                      | 525.00      | 393.75        |
|             | 1               | NQ bit 75% (sand)                      | 525.00      | 393.75        |
| 21          | 1               | NQ bit 100% (broken ground)            | 525.00      | n/c           |
| 22          | 1               | NQ bit 75% (broken ground)             | 525.00      | 393.75        |
| 24          | 1               | NQ bit 75% (broken ground)             | 525.00      | 393.75        |
| 24          | 1               | NQ bit 75% (broken ground)             | 525.00      | 393.75        |
| 25          | 1               | 10' NQ rod                             | 128.00      | 128.00        |
|             | 1               | 10' NQ rod                             | 128.00      | 128.00        |
|             | 1               | NQ bit 75% (sand)                      | 525.00      | n/c           |
| 27          | 1               | 4 1/4" tricone                         | 165.00      | n/c           |
|             | 4               | 10' NW Casings                         | 155.00      | 620.00        |
|             | 1               | NW Casing Shoe (reaming)               | 250.00      | 250.00        |
| 28          | 1               | NQ bit 75% (broken ground)             | 525.00      | 393.75        |
| 29          | 6               | 10' NQ rods (left in hole)             | 128.00      | 768.00        |
| 31          | 1               | NQ bit 75% (worn out in broken ground) | 525.00      | n/c           |
| Aug 1       | 30              | NQ rods 10' (less 50% deprec.)         | 128.00      | 1,920.00      |
|             | 1               | NQ bit 75%                             | 525.00      | n/c           |

7,220.00

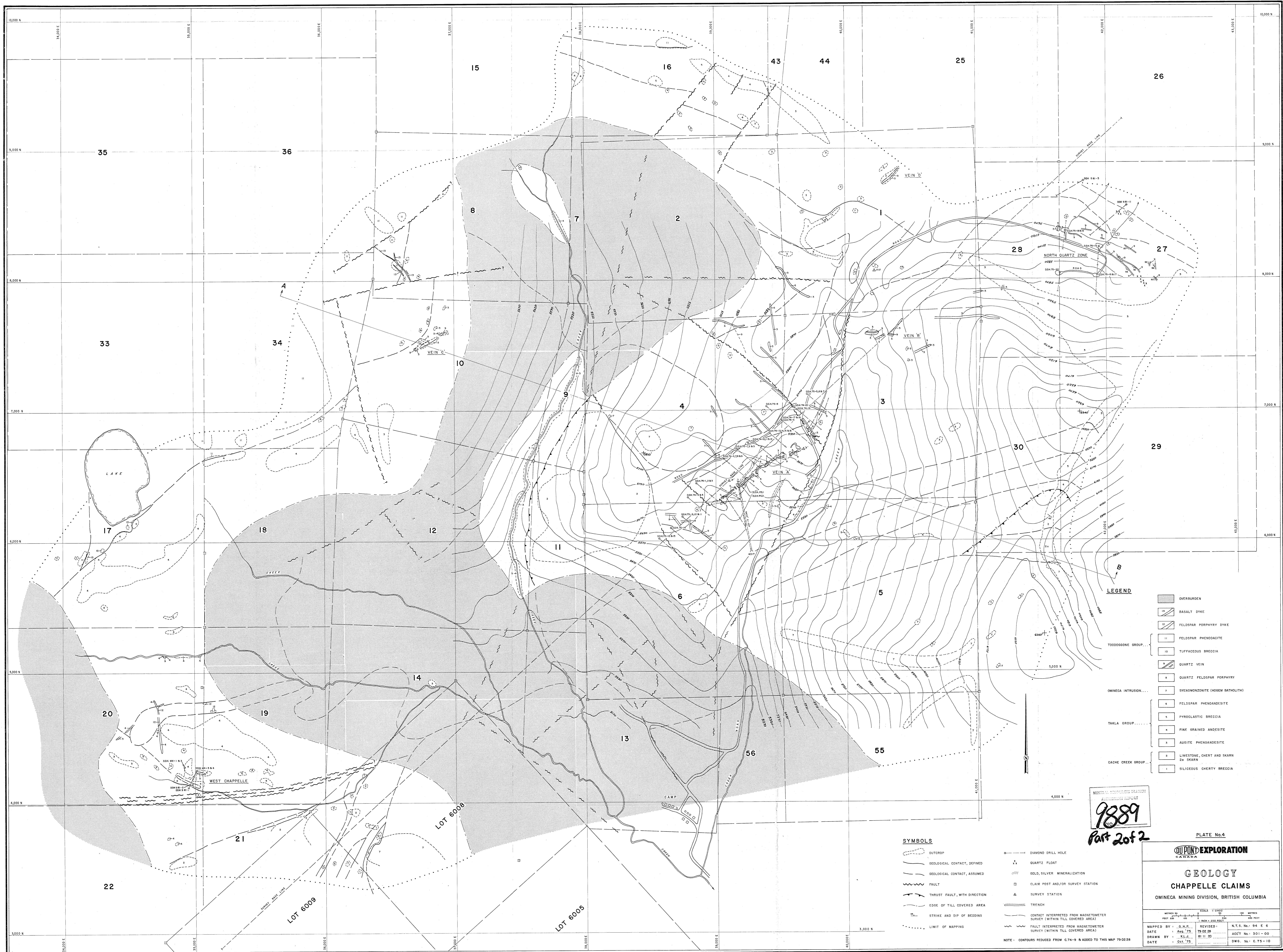
Less: Credit for 300 corebox lids returned 2.00 600.00

6,620.00 ✓



AUG 28 1981





- LEGEND**
- OVERBURDEN
  - BASALT DYKE
  - FELDSPAR PORPHYRY DYKE
  - FELDSPAR PHENODAGITE
  - TUFFACEOUS BRECCIA
  - QUARTZ VEIN
  - QUARTZ FELDSPAR PORPHYRY
  - SYENOMONZONITE (HOBEN BATHOLITH)
  - FELDSPAR PHENODANESITE
  - PYROCLASTIC BRECCIA
  - FINE GRAINED ANDESITE
  - AUGITE PHENODANESITE
  - LIMESTONE, CHERT AND SKARN
  - SILICEOUS CHERTY BRECCIA

- SYMBOLS**
- OUTCROP
  - GEOLOGICAL CONTACT, DEFINED
  - GEOLOGICAL CONTACT, ASSUMED
  - FAULT
  - THRUST FAULT, WITH DIRECTION
  - EDGE OF TILL COVERED AREA
  - STRIKE AND DIP OF BEDDING
  - LIMIT OF MAPPING
  - DIAMOND DRILL HOLE
  - QUARTZ FLOAT
  - GOLD, SILVER MINERALIZATION
  - CLAIM POST AND/OR SURVEY STATION
  - SURVEY STATION
  - TRENCH
  - CONTACT INTERPRETED FROM MAGNETOMETER SURVEY (WITHIN TILL COVERED AREA)
  - FAULT INTERPRETED FROM MAGNETOMETER SURVEY (WITHIN TILL COVERED AREA)

MINERAL RIGHTS GRANT  
1989  
Part 2 of 2

PLATE No. 4

**EXPLORATION**  
CANADA

**GEOLOGY**  
**CHAPPELLE CLAIMS**  
OMINECA MINING DIVISION, BRITISH COLUMBIA

MAPPED BY: G.H.P. REVISOR: N.T.S. No. 94 E 6  
DATE: Aug. 75 79 02 38 ACCT No. 301-00  
DRAWN BY: R.J.D. DATE: 01.11.79 DWG. No. C.75-10

NOTE: CONTOURS REDUCED FROM C.74-9 & ADDED TO THIS MAP 79 02 28



