

DU PONT OF CANADA EXPLORATION LIMITED

DIAMOND DRILLING REPORT

ON THE

CHAPPELLE CLAIMS

(MINING LEASE NO. 13)

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: 1983 09 26

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

11,516

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INTRODUCTION1. 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 camp. 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 mineral claims and one fractional mineral claim. Exploration work during the 1982-83 assessment year was completed over Chappelle Nos. 3, 4 and 6, all within Mining Lease No. 13. These claims have the following record date:

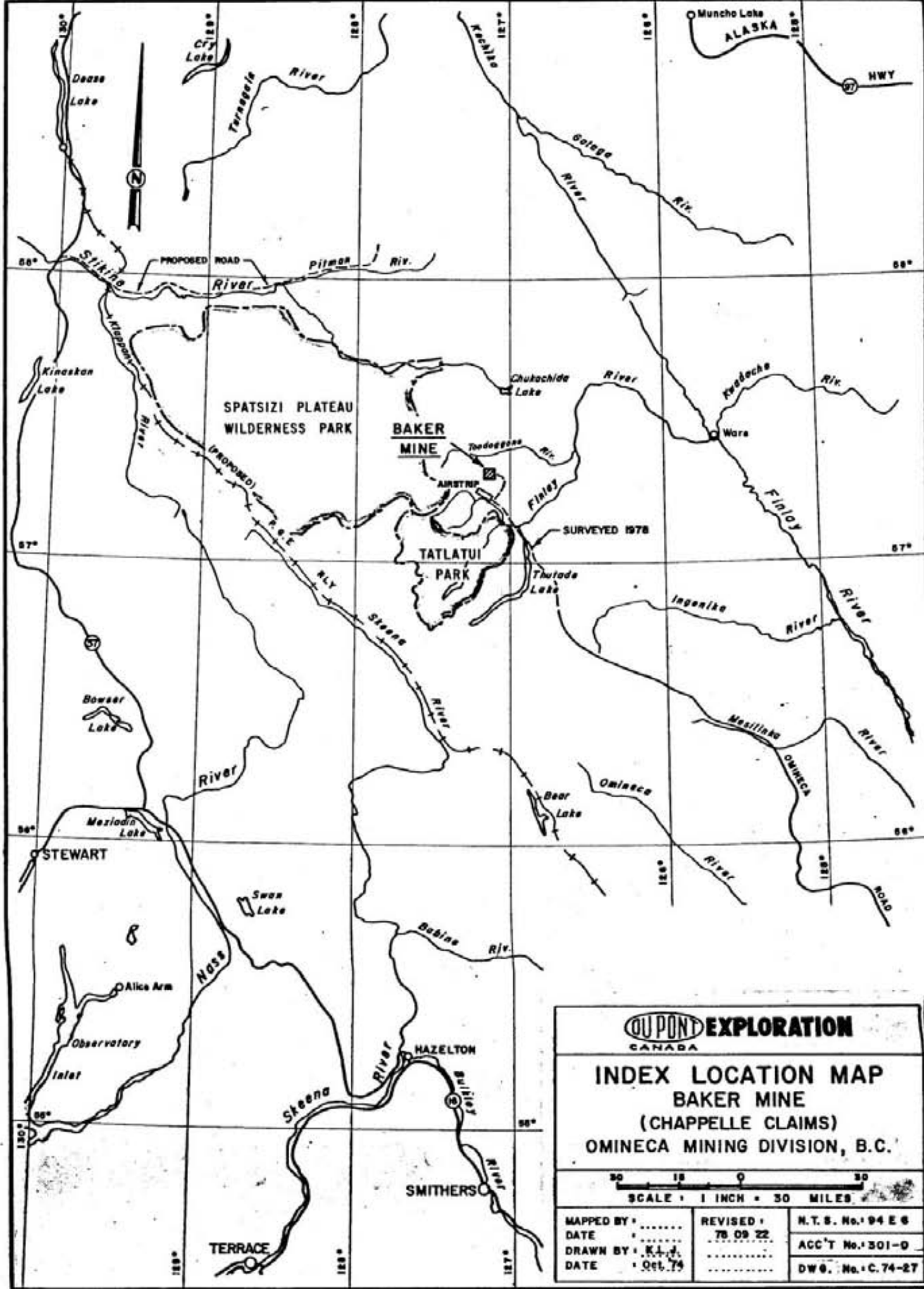
| <u>Claim</u> | <u>Record No.</u> | <u>Tag No.</u> | <u>Record Date</u> |
|------------------------|-------------------|----------------|--------------------|
| CHAPPELLE 3 | 60863 | 877173 | 1968 July 16 |
| CHAPPELLE 4 | 60864 | 877174 | 1968 July 16 |
| CHAPPELLE 6 | 60866 | 877176 | 1968 July 16 |
| Mining Lease No. 13 | N/A | N/A | 1980 Sept. 10 |

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

PROPERTY1. 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

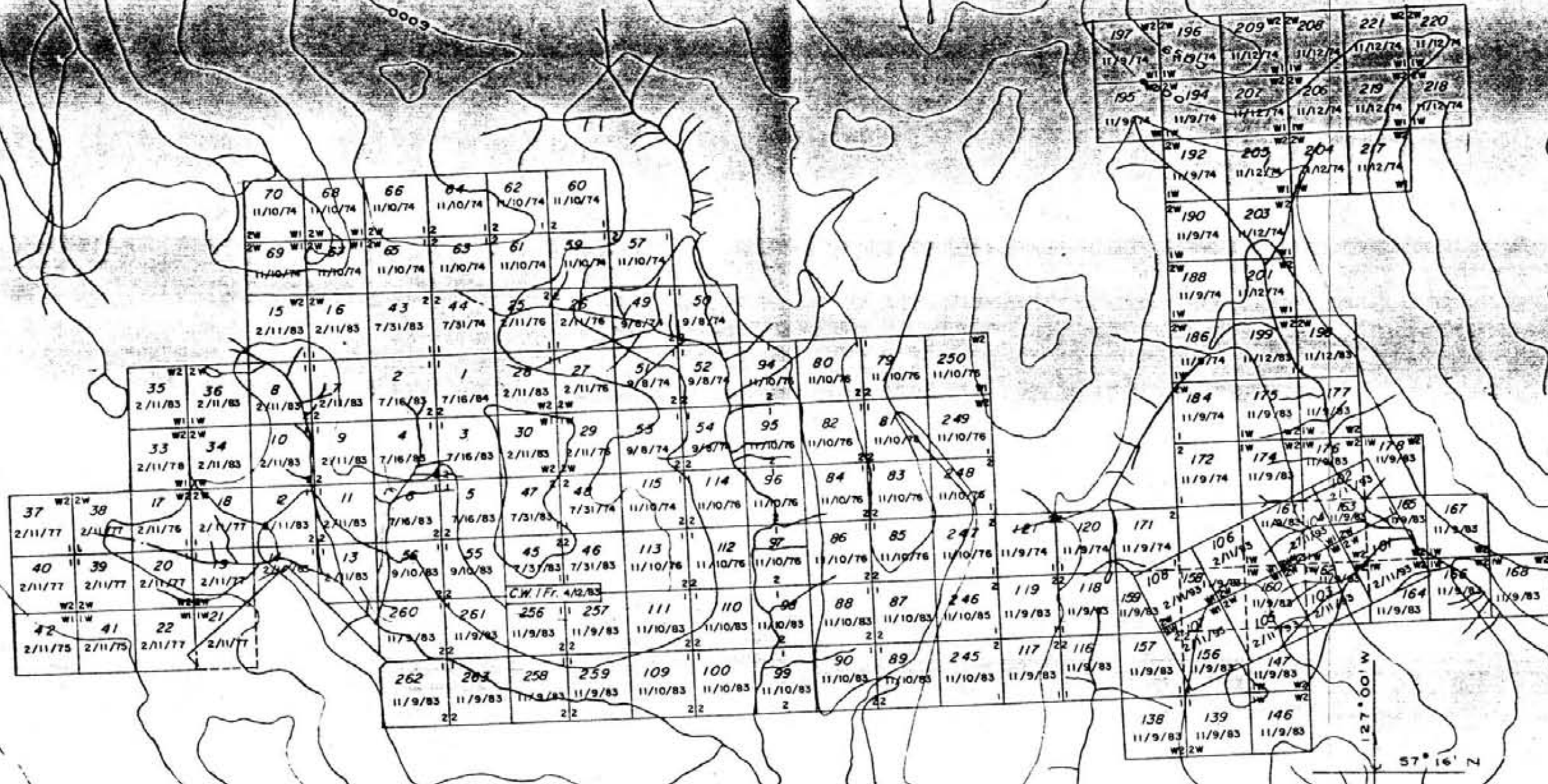


DU PONT EXPLORATION
CANADA

**INDEX LOCATION MAP
BAKER MINE
(CHAPPELLE CLAIMS)
OMINECA MINING DIVISION, B.C.**

30 15 0 30
SCALE : 1 INCH = 30 MILES

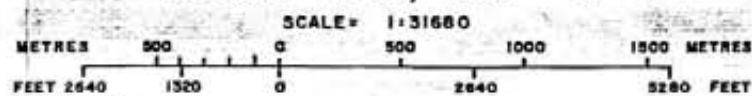
| | | |
|-------------------|-----------------|-------------------|
| MAPPED BY : | REVISED : | N.T.S. No. 94 E 6 |
| DATE : | 78 09 22 | ACC'T No. 301-0 |
| DRAWN BY : K.L.J. | | DWG. No. C.74-27 |
| DATE : Oct. 75 | | |



KENCO EXPLORATIONS (WESTERN) LIMITED

Chappelle Claims

Omineca M.D., B.C. 94E/6E



1 INCH = 2640 FEET
 Date: April 1974

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 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.

In 1981, 1033 m of surface diamond drilling was completed in 11 holes testing 5 vein systems other than vein A.

In 1982, 934 m of surface diamond drilling was completed in 18 holes within the mining lease.

2. Summary of Work Performed

In 1983, 1511 m of surface diamond drilling and 832 m of underground diamond drilling was completed in 37 holes. Work was done to test the ore bearing potential of the southwest end of vein A and the potential of a quartz vein subparallel to Vein A approximately 75 m into the hanging-wall of Vein A.

3. Current Owner

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

Work Summary -

- a) Surface drilling: 1511 m
- b) Underground Drilling: 832 m
- c) Size of Core : NQ & BQ for surface
BQ for underground
- d) Storage of Core: Core shed at mine site

4. DRILLING COST STATEMENT

| | |
|---|-----------------|
| 1. Diamond Drilling | \$134,187.85 |
| 2. Hole Stabilization | 8,474.91 |
| 3. Testing (Acid Tests) | 1,552.65 |
| 4. Materials Consumed (drill mud, bits, core boxes) | 17,479.61 |
| 5. Moving between holes (contractor) | 8,955.50 |
| 6. Standby Charges | 3,065.00 |
| 7. Mobilization/Demobilization (Contractor) | 7,345.00 |
| 8. Miscellaneous/Waterline Maintenance | 31.50 |
| 9. Mobilization/Demobilization (Company) | |
| . 950 Cat Loader: 4 hrs @ \$70/hr | 280.00 |
| . Flat Deck Truck: 6 hrs @ \$85/hr | 510.00 |
| . Equipment Operator: 10 hrs @ \$40/hr | <u>400.00</u> |
| | 1,190.00 |
| 10. Moving Between Holes (Company Costs) | |
| . D-7 Cat Tractor: 65 hrs @ \$210/hr | 13,650.00 |
| 11. Drillsite & Road Construction (Company Costs) | |
| . D-7 Cat Tractor: 35 hrs @ \$210/hr | 7,350.00 |
| 12. Fuel Consumed - Diamond Drill & Pumps | |
| . Surface: 210 l/day x 37 days x \$0.628/l | 4,879.56 |
| . Underground: 110 l/day x 60 days x \$0.628/l | <u>4,144.80</u> |
| | 9,024.36 |
| 13. Assaying | |
| . Baker Mine Assay Laboratory: Au, Ag - 72 @ \$20.00 ea. | 1,440.00 |
| . CDN Resource Laboratories: Au, Ag - 54 @ \$8.50 ea. | <u>459.00</u> |
| | 1,899.00 |

14. Room & Board

| | |
|--|-----------------|
| . Drillers: - 2 men x 60 days x \$40/day (1982 12 01 to 1983 02 27) | 4,800.00 |
| - 4 men x 37 days x \$40/day | 5,920.00 |
| . Geologist: - 1 man x 97 days x \$40/day | <u>3,880.00</u> |
| | 14,600.00 |


15. Airfreight

| | |
|--|-----------------|
| . C-GDOX (Twin Otter): 30,390 lbs @ \$0.20/lb | 6,078.00 |
| . Hercules Aircraft: 7,830 lbs @ \$0.16/lb | <u>1,252.80</u> |
| | 7,330.80 |

16. Airfares:

| | |
|--|-----------------|
| . 7 persons Smithers-Sturdee Valley and return to Smithers @ \$80.00 each | 560.00 |
| . 7 airfares Vancouver-Smithers and return to Vancouver @ \$280.40 each | <u>1,962.80</u> |
| | 2,522.80 |

| | |
|--------------|----------------------------|
| GRAND TOTAL: | <u><u>\$238,658.98</u></u> |
|--------------|----------------------------|


T. G. Drown
Geologist
1983 September 20

TJD/krl

QUALIFICATIONS

I, Thomas J. Drown, do hereby certify that:

1. I am a geologist residing at 407 Cardiff Way, Port Moody, British Columbia and employed by Du Pont of Canada Exploration Limited.
2. I am a graduate of the University of British Columbia with a B.Sc. degree in honours geology.
3. I have practised my profession in geology for approximately eight years in various jurisdictions in Canada.
4. Between 1982 December 1 and 1983 August 20, I supervised/directed diamond drilling programs on behalf of Du Pont of Canada Exploration Limited.



Thomas J. Drown
1983 September 20

APPENDIX A

DIAMOND DRILL LOGS

DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: UB2-1 LENGTH: 280'
 LOCATION: 5,420 Drift DIP: -0° 38'
 LATITUDE: 4,775.7 (mine grid) DEPARTURE: 615.5 (mine grid)
 ELEVATION: 5,435.8' AZIMUTH: 090°28'49" (mine grid)
 HOLE STARTED: B2-11-13 HOLE COMPLETED: B2-11-20

| ACID B/OR TRO-PARI TESTS | | | | | |
|--------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| | | | | | |
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SHEET No. 1 OF 4
 HOLE NUMBER: UB2-1
 PROPERTY: CHAPPELLE
 ACCOUNT No.: 714-00
 CORE SIZE: 80
 % CORE RECOVERY: 72%
 LOGGED BY: J. Paxton

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | |
|---------|----|-------|-------|---|--------|-------------|---------|-------|--------|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % PARTICLES | FOOTAGE | | | | | |
| | | | | | | FROM | TO | WIDTH | | | | |
| | | | | C - Colour; T - Texture; M - Major minerals, % of total; m - Minor minerals & metallics; A - Alteration; H - Hardness. | | | | | | | | |
| 0 | 3 | 3 | 0 | Casing | | | | | | | | |
| 3 | 28 | 25 | 12.2 | Silicified Pheno-andesite - C-grey, T-cloudy mottling with grey quartz. Indistinct chloritized augite phenocrysts. M-Qtz 40%, chlorite 40%, calcite veinlets 15% and pyrite 5%. A-sillicic + chlor. H: 4-6. | | | | | | | | |
| 28 | 85 | 57 | 27.3 | Pheno-andesite - C-dk. grey-green-black T-porphyrific. Minute grey plagioclase xls and fragments plus 1/16"-1/8" chloritized augite xls in a dark grey to black groundmass. M-plagioclase 60% chlorite 30% m-calcite veinlets, pyrite. A-chloritic. H-4. | | | | | | | | |
| 85 | 95 | 10 | 4.0 | Dacite - Probably altered phase of pheno-andesite. | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: UB2-1

SHEET NUMBER 2 of 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS oz/ton | | | | | | | |
|---------|-----|-------|-------|--|--------|-----------|---------|-------|-------|-------|---------------|------|--|--|--|--|--|--|
| FROM | TO | WIDTH | RCVFT | | NUMBER | % CHANGES | FOOTAGE | | | | Au | Ag | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVFT | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | |
| 95 | 107 | 12 | 6.1 | Quartz vein - C-grey mottled, T-brecciated, healed w/ quartz & sulphides. M-quartz, m-pyrite, chalcoppyrite, black metallics, kaolin A-nil, H-6. | 6001 | | 95 | 100.5 | 5.5 | 3.7 | 0.50 | 2.75 | | | | | | |
| | | | | | 6002 | | 100.5 | 107.0 | 7.5 | 2.7 | 0.32 | 2.08 | | | | | | |
| 107 | 119 | 12 | 10.7 | Dacite - (altered phase of pheno-andesite similar to section 85-95). Gradational change to pheno-andesite at 119. | | | | | | | | | | | | | | |
| 119 | 125 | 9 | 4.0 | Chlorite-Pyrite-Schist - C-grey green, T-schistose at 0°-25° with streaks and wisps of calcite. M-chlorite 50%, pyrite 30%, calcite & quartz 20%. | | | | | | | | | | | | | | |
| 125 | 155 | 30 | 22.4 | Pheno-andesite - C-grey-green, T-scattered 1/8" augite phenocrysts in a fine grained groundmass of plagioclase and chlorite. M-plagioclase 60%, chlorite 30%, mafics and pyrite 10%. m-numerous veinlets of orange zirconite and calcite. A-augite phenocrysts partially altered to pyrite and quartz groundmass strongly chloritized H-4 138-139 muddy-blocky core. | | | | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

HOLE NUMBER: U82-1

SHEET NUMBER 3 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS oz/ton | | | | | |
|---------|-----|-------|-------|---|--------|------------|-------|-------|---------------|-------|------|------|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | Au | Ag | | |
| 155 | 160 | 5 | 4.0 | Chlorite-Pyrite-Schist - Same as section 119-125. | | | | | | | | | | |
| 160 | 180 | 20 | 12.0 | Pheno-andesite - Similar to section 125-155. Chlorite- | | | | | | | | | | |
| 180 | 185 | 5 | 3.0 | graphite-pyrite schist. | | | | | | | | | | |
| | | | | Scattered grams and blebs of quartz in a black schistose groundmass. | | | | | | | | | | |
| 185 | 203 | 18 | 16.5 | Dacite Breccia - C-grey-brown, T-breccia fragments up to 1/2" of fine grained dacite in a scarce groundmass of pulverized dacite. The dacite consists of an equigranular fine grained mix of feldspar 70%, quartz 20%, pyrite 5-10%, clay 5% chlorite 0-5%. A strong clay alteration of the feldspar B-4. | | | | | | | | | | |
| 203 | 232 | 29 | 29 | Massive Dacite - Similar to above but without brecciation. Occasional irregular mud seams 1/4"-1/2" sub parallel to C.A. 228.5 - 1/8" veinlet of pyrite and calcite at 20° to C.A. Walls strongly bleached for 1-3" on each side and partially replaced by quartz, clay and white feldspar. | 6003 | | 228 | 229 | 1.0 | 1.0 | 0.02 | 0.57 | | |
| 232 | 262 | 30 | 29.3 | Andesite - C-dk. green, T-massive fine grained. M-plagioclase 60%, augite ? 25%, pyrite 5-10%, calcite 5-10%. | 6004 | | 242.5 | 243.5 | 1.0 | 1.0 | Tr. | 0.12 | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: U82-1

 SHEET NUMBER 4 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-----|-------|-------|--|--------|--------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | REGRY | | NUMBER | % TRAILER | FROM | TO | WIDTH | REGRY | | | | |
| | | | | m-pidote near contacts. Scattered pink calcite-zeolite veinlets. A-slight H-5. | | | | | | | | | | |
| | | | | 243 - 1/8" pyrite-quartz veinlet at 30". Bleaching of wall rock 1-2 ft. on either side. | | | | | | | | | | |
| 262 | 280 | 18 | 18 | Dacite - C-grey. Y-mass of minute grey feldspar xls in an earthy kaolinitic groundmass. M-feldspar 70% kaolin & quartz 20%, calcite 10-20%, m-0-10% pyrite. A-kaolinized H-5. This may be a dacitic alteration facies of andesite type. Contacts are very gradational. | | | | | | | | | | |
| | | | | 262-264 - Stockwork of 1/16"-1/8" quartz veinlets with traces of black metallics. | | | | | | | | | | |
| | | | | 265-267 - Same as above but no black metallics. | | | | | | | | | | |
| | | | | 280 End of Hole. | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: UB2-2 LENGTH: 165'
 LOCATION: 5,620 Drift DIP: 0°24'
 LATITUDE: 4,773.9 (mine grid) DEPARTURE: 613.1 (mine grid)
 ELEVATION: 5,635.9' AZIMUTH: 114°34'48" (mine grid)
 HOLE STARTED: 82-11-21 HOLE COMPLETED: 82-11-25

| ACID &/OR TRO-PARI TESTS | | | | | |
|--------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| | | | | | |
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SHEET No. 1 OF: 4
 HOLE NUMBER: UB2-2
 PROPERTY: CHAPPELLE
 ACCOUNT No.: 714-00
 CORE SIZE: BQ
 % CORE RECOVERY: 63%
 LOGGED BY: I. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | |
|---------|----|-------|-------|---|--------|-------------|---------|-------|-------|--|--------|--|--|--|
| FROM | TO | WIDTH | REVRT | | RUNNER | % SOLIDS | FOOTAGE | | | | | | | |
| | | | | | | FROM | TO | WIDTH | REVRT | | | | | |
| | | | | C-Colour; T-texture; M-Major minerals, % of total; m-minor minerals & metallics; A-Alteration; H-Hardness. | | | | | | | | | | |
| 0.0 | 6 | 6 | 4 | Silicified pheno-andesite - C-dk, grey-green, T-brecciated with qtz-zeolite cement. Indistinct augite phenocrysts; very chloritic, sheared. M-60% chlorite, 15% zeolite, 20% quartz, 5% pyrite, 20% c.c. altered feldspars, A-weak silicic and strong chlorite. H: 4-5. Moderately magnetic. | | | | | | | | | | |
| 6 | 38 | 32 | 18.5 | Pheno-andesite - C-dk, green-black; T-porphyrific. 1/16" to 1/4" chloritized augite phenos in groundmass of tiny plagioclase xls, rock fragments. M-plagioclase 60%, chlorite 15%, c.c.-zeols, 10%, augite 10%, pyrite 5%; minor c.c.-zeol. veinlets. Occasional 1"-2" c.c.zeol-chlorite filled shear @ 20° to C.A. A-chlorite:Py; H-4. | | | | | | | | | | |
| 38 | 46 | 8 | 00 | No core recovered, very badly broken ground, major fault? | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: U82-2

 SHEET NUMBER 2 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | | | | | |
|---------|-----|-------|-------|--|--------|----------|---------|----|-------|-------|--------|--|--|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SOLIDS | FOOTAGE | | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | | | | | | | |
| 46 | 61 | 15 | 10 | Pheno-andesite - C-black, I-Porphyrific, 1/16"-1/4" chloritized augite phenos; occasional grey plag. phenos to 1/8" long. M-Plagioclase 60%, chloritized Augite 20%, Magnetite 5%, Pyrite 5%, c.c. patches 5%, zeolites 5%. A-chlorite, calcite, zeolites. | | | | | | | | | | | | | | |
| 61 | 85 | 24 | 16 | Silicified pheno-andesite - C-light green-grey, I-Porphyrific; 1/16" to 1/4" Augite phenos in lt. green chloritized-silicified massive groundmass. M-Plagioclase 50%, Augite (chloritic) 10%, quartz 15%, chlorite 10%, m-pyrite 5%, c.c. Tr. zeolites, Tr. magnetite Tr. A-chlorite, silica, weak alt'n throughout, with chlorite strong in Augite phenos. H-4-5. 69'-69.5' - Basaltic dyke; dk. green-black, massive with pink zeolite stringers. Attitude ? Crushed. | | | | | | | | | | | | | | |
| 85 | 107 | 22 | 20.5 | Pheno-andesite - C-Med. green with beige mottling, I-Porphyrific, dk. green chloritized augites and frequent tuffaceous rock fragments to 1" across often beige (dacitic) in colour. M-Plagioclase 50%, chlorite 20%, augite 10%, m-pyrite, sericite (after plagioclase), c.c. zeolites. A-chlorite, sericite, pyrite 10%. H-4. | | | | | | | | | | | | | | |
| 107 | 122 | 15 | 10 | Pheno-andesite - C-dk. green, I-Porphyrific with 1/16" to 1/4" augite partly alt'd to chlorite. M-feldspar 50%. | | | | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: UB2-2

SHEET NUMBER 3 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | ASSAYS | | | | | | | | | |
|---------|-------|-------|-------|-------------|--------|--------------|---------|----|-------|--------|--|--|--|-------|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SU/100L | FOOTAGE | | | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | | | | | RCVRY | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 122 | 139 | 17 | 10 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 139 | 143 | 4 | 3.5 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 143 | 148.2 | 5.5 | 3.5 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| 148.2 | 156 | 7.5 | 5 | | | | | | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORDHOLE NUMBER: U82-2SHEET NUMBER 4 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | ASSAYS | | | | | | |
|---------|-----|-------|-------|---|--------|------------|---------|----|-------|--------|--|--|--|--|--|-------|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FOOTAGE | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | | | | | | | RCVRY |
| | | | | 75% clay-sericite 15% m-pyrite 5% c.c. zeolites. A-clay and sericite; grey to green clays. H=4-5. | | | | | | | | | | | | |
| 156 | 165 | 9 | 3.8 | Pheno-andesite - C-med. green to light green. T-tuffaceous and porphyritic. Augite and plagioclase phenos to 1/8" as rock fragments floating on xline groundmass of same composition. M-plagioclase 70%, clays 15%, augite 10%, m-pyrite 5%, c.c., zeolites. A-chloritization of augites; clay-sericite alteration of plagioclase and groundmass. H=4. Foot of Hole; Hole abandoned due to intense squeezing of ground, could not turn drill rods anymore. | | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: U82-3 LENGTH: 295'
 LOCATION: 5,420 Drift DIP: -0°07'
 LATITUDE: 4,772.7 (mine grid) DEPARTURE: 611.1 (mine grid)
 ELEVATION: 5,435.8 AZIMUTH: 146°26'23" (mine grid)
 HOLE STARTED: 82-11-25 HOLE COMPLETED: 82-12-07

| ACID &/OR TRO-PARI TESTS | | | | | |
|--------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| | | | | | |
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SHEET No. 1 OF: 4
 HOLE NUMBER: U82-3
 PROPERTY: CHAPPELLE
 ACCOUNT No.: 714-00
 CORE SIZE: 8Q
 % CORE RECOVERY: 58%
 LOGGED BY: J. FAXON

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|----|-------|-------|--|--------|------------|---------|--|--------|--|--|--|--|--|
| FROM | TO | WIDTH | RECYT | | NUMBER | % SULFIDES | FOOTAGE | | | | | | | |
| | | | | FROM | TO | WIDTH | RECYT | | | | | | | |
| | | | | C-Colour; T-Texture; M-Major minerals, % of total; m-minor minerals & metallica; A-Alteration; H-Hardness. | | | | | | | | | | |
| 0 | 17 | 17 | 8 | Andesite - C-Black to dk. grey-green, T-Porphyrific. Scattered 1/8" augite xls in a fine grained plagioclase fels. groundmass. M-Plagioclase 70%, Augite 10%, Pyrite 10%, m-Calcite, calc. A-local strong alteration to olive green talc. H-S. | | | | | | | | | | |
| 17 | 46 | 29 | 20 | Augite Pheno-andesite - C-grey, T-similar to previous 1/8 subhedral xls of augite in a grey fine grained groundmass of plagioclase. M-plagioclase 70%, augite 10%, chlorite 10%, quartz?, m-pyrite, calcite, zeolite. A-chloritic. H-S. | | | | | | | | | | |
| 46 | 60 | 14 | 7 | Andesite Tuff - C-grey-green to black, T-massive to bedded. Fine grained to aphanitic. Angular grains of andesite in a grey matrix. M-andesite, m-pyrite, calcite. A-chloritic | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: U82-3

SHEET NUMBER 2 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-----|-------|-------|--|--------|------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVRT | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRT | | | | |
| | | | | H-5. Bedding at 80° noted at 50. | | | | | | | | | | |
| 60 | 73 | 13 | 7.5 | Augite Pheno-andesite - Similar to section 17-46. | | | | | | | | | | |
| 73 | 133 | 60 | 34.8 | Dacite Tuff - C-grey-brown, T-cream coloured grains and rosettes of feldspar, quartz and pyrite in a dark brown to black groundmass. M-orthoclase 30%, quartz 15%, plagioclase ? 30%, pyrite 20%, magnetite 5%, A-kaolinized, H-4. | | | | | | | | | | |
| 133 | 136 | 3 | 1.3 | Muddy broken core. | | | | | | | | | | |
| 136 | 175 | 39 | 21.3 | Siliceous Dacite - C-grey, T-scattered rosettes and grains of white feldspar, shreds of chlorite and numerous anhedral pyrite grains up to 1/16" in a mottled aphanitic cherty groundmass. M-feldspar 70%, kaolin & kaolinized feldspar 10-20%, pyrite 10%, quartz 10-20%, m-chlorite. A-kaolinized. H-3-6. 143-144 Mud seam. | | | | | | | | | | |
| 175 | 185 | 10 | 2 | Fault Zone - Muddy blocky core 1" of cemented fault breccia at 40°. | | | | | | | | | | |
| 185 | 205 | 20 | 10.8 | Siliceous Pheno-andesite - C-grey-green, T-porphyrific. Subhedral chloritized augite xls (1/8") plus euhedral laths of plagioclase plus broken fragments in an aphanitic | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: U82-3

SHEET NUMBER 3 of 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS oz/ton | | | |
|---------|-----|-------|-------|--|--------|----------------|---------|-----|---------------|-------|------|------|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % RECOVERED | FOOTAGE | | | | Au | Ag |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | |
| | | | | siliceous groundmass. M-plagioclase 60%, augite 10%, chlorite 10%, quartz 10%, pyrite 10%, m-calcite veinlets numerous. A-chloritic. H-4-5. 175-190 - Orange feldspar xls and patchy stains noted. K-spar.? | | | | | | | | |
| 205 | 207 | 2 | 1 | Quartz Vein - Grey fine grained quartz with SI scattered pyrite. No black metallics noted. | 6008 | | 205 | 207 | 2.0 | 1.0 | 0.04 | 0.30 |
| 207 | 255 | 48 | 48 | Siliceous Pheno-andesite - Similar to previous section 185-205. 213-215 - Sheared veinlet. True width 1/8"-1/2" quartz- calcite-pyrite plus a soft waxy, yellow-green mineral w/ white streak. 246 - 1/2" pink calcite vein at 30°. 249 - 2" grey gypsum vein at 30°. 252 - Mud seam. Mixture of pale cream coloured kaolin and calcite. Earthy. Sharp contacts at 50°. Fault zone? | 6007 | | 213 | 214 | 1.0 | 1.0 | 0.04 | 0.11 |
| 255 | 256 | 1 | 1 | Dyke - Aphanitic black massive material H-4. Encloses irregular veins and blobs of pink calcite and zoelite? Contacts sharp at 20°. | | | | | | | | |
| 256 | 262 | 6 | 6 | Pheno-andesite - similar to previous section. | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: UB2-4 LENGTH: 149'
 LOCATION: 5,420 Drift DIP: +32°41'
 LATITUDE: 4,775.8n (mine grid) DEPARTURE: 615.2e (mine grid)
 ELEVATION: 3,429.5' AZIMUTH: 88°44'54" (mine grid)
 HOLE STARTED: 82-12-07 HOLE COMPLETED: 82-12-13

| ACID &/OR TRO - PARI TESTS | | | | | |
|----------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
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SHEET No. 1 OF: 3
 HOLE NUMBER: UB2-4
 PROPERTY: CHAPPELLE
 ACCOUNT No.: 714-00
 CORE SIZE: 8Q
 % CORE RECOVERY: 73%
 LOGGED BY: J. PAXTOR

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|----|-------|-------|---|--------|------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % SULFIDES | FROM | TO | WIDTH | DEPTH | | | | |
| | | | | C-Colour; T-Texture; M-Major minerals, I of total; m-minor minerals & metallics; A-Alteration; H-Hardness. | | | | | | | | | | |
| 0 | 22 | 22 | 14.5 | Augite Pheno-andesite - C-dk green to black, T-1/8" rectangular phenocrysts in a fine grained dark grey plagioclase-chlorite groundmass. Some of the phenocrysts appear to be replaced by fibrous material (tremolite ?). Numerous veinlets of calcite. M-plagioclase 60%, mafics 30%, calcite 5%, pyrite 5%. A-chloritic. H-5. | | | | | | | | | | |
| 22 | 36 | 14 | 10 | Andesite Agglomerate - C-varicoloured pebbles in a black matrix. T-rounded pebbles plus angular fragments all sizes up to 2" in a fine grained granular matrix. M-matrix chlorite and plagioclase. Pebbles (50%) andesite, chert, quartz, epidote. 28-29 - Fault gouge. Grey plastic clay walls ground. | | | | | | | | | | |
| 36 | 66 | 10 | 10.8 | Augite Pheno-andesite - Similar to previous. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: UB2-4

SHEET NUMBER 2 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS oz/ton | | | | |
|---------|-----|-------|-------|---|--------|------------|---------|------|---------------|-----|------|------|-------|
| FROM | TO | WIDTH | RCVRT | | NUMBER | % SULFIDES | FOOTAGE | | | Au | Ag | | |
| | | | | | | | FROM | TO | WIDTH | | | | RCVRT |
| | | | | 40-42 - Chloritic gouge and breccia at 20° to C.A. | | | | | | | | | |
| | | | | 54-59, 61-62 - rock is darker and harder with numerous blebs of magnetite among the phenocrysts. | 6011 | | 61.5 | 63.0 | 1.5 | 1.0 | 0.04 | 0.33 | |
| 66 | 70 | 4 | 2.3 | Dacite Tuff - C-Pale grey-brown, T-minute aggregates of granular white material (quartz?) in an aphanitic grey-brown groundmass. M-feldspar and clay 80%, quartz 15% chlorite 5%. A-kaolin. H-4. Sharp lower contact at 45°. Muddy blocky core 68-70. | | | | | | | | | |
| 70 | 77 | 7 | 3.0 | Augite Pheno-andesite - Similar to previous. | | | | | | | | | |
| 77 | 78 | 1 | 0.8 | Dacite Tuff - Similar to previous. | | | | | | | | | |
| 78 | 96 | 18 | 15 | Augite Pheno-andesite - Similar to previous. 88-90 - Hard, darker, with 5-10% magnetite in disseminated grains. 80-87 - limonite on fractures noted. | | | | | | | | | |
| 96 | 97 | 1 | 1 | Shear Zone - Fine grained breccia with bands of chlorite, calcite, zoisite, chert. Also vugs lined with green fluorite. | | | | | | | | | |
| 97 | 106 | 9 | 9 | Augite Pheno-andesite - Similar to previous. 99-100 - Vuggy gypsum-feldspar-quartz-fluorite vein. 3" | 6012 | | 99 | 100 | 1.0 | 1.0 | Tr. | Tr. | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: UB2-5 LENGTH: 382'
 LOCATION: 5,420 Drift DIP: +0°49'
 LATITUDE: 4,771 2 n (mine grid) DEPARTURE: 602.8n (mine grid)
 ELEVATION: 5,435.2' AZIMUTH: 189°26'24" (mine grid)
 HOLE STARTED: 82-12-14 HOLE COMPLETED: 83-01-22

| ACID &/OR TRO-PARI TESTS | | | | | |
|--------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| | | | | | |
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SHEET No. 1 OF: 6
 HOLE NUMBER: UB2-5
 PROPERTY: CHAPPELLE
 ACCOUNT No.: 714-00
 CORE SIZE: BQ
 % CORE RECOVERY: 90%
 LOGGED BY: J. Paxton

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | | | | | | |
|---------|----|-------|------|-------------|--|---------------|---------|-------|------|--|--------|--|--|--|--|--|--|--|--|
| FROM | TO | WIDTH | RCFT | | NUMBER | % SULFIDES | FOOTAGE | | | | | | | | | | | | |
| | | | | | | FROM | TO | WIDTH | RCFT | | | | | | | | | | |
| | | | | | C-Colour; T-Texture; M-Major minerals, I of total; m-Minor minerals & metallics; A-Alteration; H-Hardness. | | | | | | | | | | | | | | |
| 0 | 4 | 4 | 0 | | | | | | | | | | | | | | | | |
| 4 | 30 | 26 | 21.3 | | | | | | | | | | | | | | | | |
| | | | | | Amphibole Pheno-andesite - C-dk. grey-green to black, T-Porphyrific. Scattered euhedral to anhedral xls of fibrous green tremolite in a fine grained groundmass of plagioclase mafics and chlorite. M-plagioclase 50%, chlorite 10%, mafics 40%, m-pyrite 5-10%, epidote locally to 5%, zeolite-calcite veinlets and clay mudseams scattered throughout. A-chloritic. H-4-5. Core strongly fractured throughout. | | | | | | | | | | | | | | |
| 30 | 34 | 4 | 1.5 | | | | | | | | | | | | | | | | |
| | | | | | Chlorite Schist - Shear zone of foliated calcite-chlorite quartz schist. Muddy blocky core. | | | | | | | | | | | | | | |
| 34 | 40 | 6 | 4 | | | | | | | | | | | | | | | | |
| | | | | | Dacite Tuff - C-grey brown, T-granular. Minute white grains and broken prismatic crystals of feldspar in an aphanitic | | | | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: UBZ-5

SHEET NUMBER 2 OF 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | |
|---------|-----|-------|------|---|--------|---------------|---------|-------|--------|--|--|--|
| FROM | TO | WIDTH | ACFT | | NUMBER | % SPL/TOES | FOOTAGE | | | | | |
| | | | | | | FROM | TO | WIDTH | | | | |
| | | | | earthy grey-brown matrix. M-feldspar 30-60%, clay 30%, quartz 0-20%, m-pyrite 5-10%. A-clay, H-4. | | | | | | | | |
| 40 | 50 | 10 | 1.3 | Amphibole Pheno-andesite - Similar to section 0-30 | | | | | | | | |
| 50 | 72 | 22 | 12.8 | Dacite Tuff - Similar to section 34-50. Contains numerous veinlets of calcite and pink zeolite. Groundmass gradually becomes darker and the amount of white feldspar decreases. | | | | | | | | |
| 72 | 87 | 15 | 10 | Andesite Tuff - C-dk. grey-green, T-massive very fine grained granular. Minute white flecks in a mottled green-black aphanitic groundmass. M-feldspar 10-30, mafic mins. - 70%. | | | | | | | | |
| 87 | 100 | 13 | 9.3 | Dacite Tuff - Similar to section 34-40. | | | | | | | | |
| 100 | 141 | 41 | 41 | Dacite Ash Tuff - C-grey brown to black. T-aphanitic to very fine grained granular. Local pyrite bl-bs. Massive with occasional colour bands. Numerous veinlets of pink gypsum-calcite and pale green talc. Scattered rounded black blebs that are magnetic. Pyrite less than 1%. Core recovery 100%. | | | | | | | | |
| 141 | 177 | 36 | 36 | Dacite Lapilli Tuff - C-pale grey, T-granular. Sub angular grains and crystal fragments in an aphanitic pale grey | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: UB2-5

SHEET NUMBER 3 OF 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | ASSAYS oz/ton | | | | | | | |
|---------|-------|-------|-------|--|--------|--------|---------|-----|-------|---------------|------|------|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % REPS | FOOTAGE | | | | Au | Ag | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | | | | | | |
| | | | | matrix. M-feldspar 20-50%, quartz 20-50%, 50% unidentifiable. m-pyrite 5%. | | | | | | | | | | | | | |
| 177 | 197.5 | 20.5 | 20.5 | Dacitic Ash Tuff - C-dk. grey-brown. Similar to section 100-141. 177-178 - Quart Vein. Pale grey Indistinct breccia texture. Shreds of chlorite. No metallic minerals. 179.3-180 - Irregular mass of quartz plus numerous veinlets of quartz. Similar to previous. Numerous smaller gypsum-calcite-quartz veinlets 185-194. Toward end of section rock is very dark and contains scattered euhedral amphibole ? crystals. Resembles pheno-andesite type but groundmass still has distinct granular tuff texture. | 6014 | | 177 | 178 | 1.0 | 1.0 | 0.01 | 0.49 | | | | | |
| | | | | 194.5-196 - Breccia and vein mainly gypsum with <20% quartz and calcite. | 6015 | | 194.5 | 196 | 1.5 | 1.5 | 0.01 | 0.40 | | | | | |
| 197.5 | 226 | 28.5 | 28.5 | Dacite Tuff gradational to Ash Tuff - C-grey brown, T-massive fine grained granular. White feldspar grains and crystal fragments in an aphanitic brown matrix. M-feldspar 70%, quartz 10-20%, kaolin 10-20%, m-pyrite 5-10%. A-clay. H-4. Similar to section 34-40 and to 100-141. Numerous orange teolite veinlets. 225.3-226 - Quartz-chlorite schist zone at 90°. | 6016 | | 225.5 | 226 | 0.5 | 0.5 | Nil | Nil | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: UB2-5

SHEET NUMBER 4 OF 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | ASSAYS oz/ton | | |
|---------|-------|-------|-------|---|--------|------------|---------|-------|-------|---------------|------|------|
| FROM | TO | WIDTH | RCVKT | | NUMBER | % SIZES | FOOTAGE | | | Au | Ag | |
| | | | | | | FROM | TO | WIDTH | RCVKT | | | |
| 226 | 314.5 | 88.5 | 88.5 | Augite Pheno-andesite - C-dk. green, T-Porphyritic Augite-tremolite crystal forms 1/16" generally subhedral plus prisms of brown to green plagioclase in a fine grained green groundmass. M-Augite, tremolite and chlorite 30%, plagioclase 65%, m-pyrite 5-10%. Numerous calcite and gypsum veinlets. Locally slightly magnetic. | | | | | | | | |
| | | | | 258-259 - Quartz-gypsum vein at 30°. | 6017 | | 258 | 259 | 1.0 | 1.0 | Tr. | 0.20 |
| | | | | 274-277 - Quartz breccia & quartz vein with much intercalated country rock. | 6018 | | 274 | 277 | 3.0 | 3.0 | 0.10 | 4.78 |
| | | | | 278.5-283 - Crumbly muddy quartz breccia similar to 274-277. | 6019 | | 278.5 | 283 | 4.5 | 4.5 | 0.01 | 0.26 |
| | | | | 283-283.3 - Fault gouge at 80°. | | | | | | | | |
| | | | | 292-292.4 - Breccia of pale orange feldspar, gypsum and calcite with streaks of green malposite. | 6020 | | 292 | 292.4 | 0.4 | 0.4 | 0.12 | 5.59 |
| | | | | 294-296 - Breccia (?) of sub angular andesite & chert fragments in a soft clay altered groundmass. | | | | | | | | |
| | | | | 295-305 - Numerous ragged, cherty, cream coloured bands or veinlets at 60° to C.A. | | | | | | | | |
| 314.5 | 329 | 14.5 | 14.5 | Dacite Tuff - Contains large 2"-8" inclusions ? of orange felsic material, dark green chert and highly altered pheno andesite. Numerous irregular white cherty quartz veinlets. | 6021 | | 316.5 | 321.5 | 5.0 | 5.0 | 0.02 | 0.30 |
| 329 | 330 | 1 | 1 | Fault Zone - Brown limonitic fault gouge. 65° to C.A. | 6022 | | 329 | 330 | 1.0 | 1.0 | 0.02 | 0.39 |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: UB2-5

 SHEET NUMBER 5 OF 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS oz/ton | | | | | |
|---------|-------|-------|-------|--|--------|---------|---------|-------|---------------|-------|------|------|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % REFLD | FOOTAGE | | | | Au | Ag | | |
| | | | | | | | FROM | TO | WIDTH | DEPTH | | | | |
| 330 | 334 | 4 | 4 | White Limestone - C-white, T-medium grained equigranular. M-calcite 99%, m-fine veinlets of sulphides. | 6023 | | 330 | 334 | 4.0 | 4.0 | 0.01 | 0.20 | | |
| 334 | 335 | 1 | 1 | Fault Zone - Earthy re-cemented fault gouge. Clay limonite and goethite. U.C. at 65°. L.C. at 45°. | 6024 | | 334 | 335.5 | 1.5 | 1.5 | Nil | Tr. | | |
| 335 | 359 | 24 | 24 | White Limestone - C-white, grey. T-medium grained equigranular massive. M-calcite 99%, m-pyrite ?, m-fractures plus a black unidentified mineral. A-marble. H-4. Locally rock consists of up to 20% cherty silica. | 6025 | | 343 | 353 | 10.0 | 10.0 | Nil | Tr. | | |
| 359 | 365.5 | 6.5 | 6.5 | Cherty Quartz Vein - C-grey green with a waxy, subtranslucent lustre. M-silica 50%, calcite 20%, gypsum 7 10%, chlorite 10-20%, m-occasional specks of silver metallic mineral H=2, streak silver, foliated form. Locally rock is strongly fractured and fractures filled with hematite and limonite. Contacts indistinct. | 6026 | | 359.5 | 365.5 | 6.0 | 6.0 | Nil | Tr. | | |
| 365.5 | 371 | 5.5 | 5.5 | White Limestone - Similar to section 335-359. Numerous fractures filled with limonite, pyrite and goethite. | 6027 | | 369.5 | 371 | 1.5 | 1.5 | 0.01 | 0.28 | | |
| 371 | 372 | 1 | 1 | Fault gouge and breccia - Sticky brown clay gouge filled with rock fragments. Contacts broken. | | | | | | | | | | |
| 372 | 382 | 10 | 10 | White Limestone - C-white to pale green. T-very massive. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 082-5

SHEET NUMBER 6 of 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | |
|---------|----|-------|-------|---|--------|-------------|---------|-------|-------|--|--------|--|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % RA/DEE | FOOTAGE | | | | | | | |
| | | | | | | FROM | TO | WIDTH | DEPTH | | | | | |
| | | | | No fractures. Faint colour mottling. M-calcite 98%, chlorite 2%. A-marble, R-3-4. | | | | | | | | | | |
| | | | | 302 - End of Hole. | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: U83-1 LENGTH: 136'
 LOCATION: 5420 Drift DIP: +25°02'
 LATITUDE: 4773.2m (mine grid) DEPARTURE: 601.0m (mine grid)
 ELEVATION: 5438.3' AZIMUTH: 222°23'24"
 HOLE STARTED: 1983 JANUARY 23 HOLE COMPLETED: 1983 JANUARY 24

| ACID B/OR TRO-PARI TESTS | | | | | |
|--------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| | | | | | |
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| | | | | | |

SHEET No. 1 OF: 3
 HOLE NUMBER: U83-1
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: BQ
 % CORE RECOVERY: 71%
 LOGGED BY: T. Deoun

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | |
|---------|------|-------|-------|--|--------|---------------|-----------------|----|--------|-------|--|--|--|
| FROM | TO | WIDTH | RCVRT | | NUMBER | % SPL/1013 | FOOTAGE FROM | TO | WEIGHT | HOURS | | | |
| | | | | C-colour; T-texture; M-major minerals, % of total; m-minor minerals & metallics; A-alteration; H-hardness. | | | | | | | | | |
| 0.0 | 10.0 | 10.0 | 4.0 | Andesite. C-dark grey-green. T-f.g. to porphyritic (probably chl. at'd unit). M-chlorite 20%, feldspars 50%, zeolites 20%, pyrite 1-2%, quartz 3%. A-chloritization of groundmass and mafics; zeolites. H-4. | | | | | | | | | |
| 10.0 | 45.0 | 35.0 | 24.3 | Phenoandesite. C-dark grey-green-black. T-porphyritic; minute grey plagioclase phenos and fragments and 1/16-1/4" chloritized augite phenos in dark grey-green groundmass. M-plagioclase 60%, chlorite 30%; m-calcite 3-5%, magnetite-variable diss. pyrite 3%. A-chloritization of mafics. H-4. | | | | | | | | | |
| 45.0 | 49.0 | 4.0 | 3.0 | Dacite. C-brown-grey-pink mottled. T-aphanitic. M-plagioclase 60%, zeolites (pink) 15%, quartz 20%; m-calcite 5%, pyrite 3%, clays 3%. A-clay alt'n. H-5. | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: U83-1

 SHEET NUMBER 3 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | ASSAYS | | | | |
|---------|-------|-------|-------|-------------|--|------------|------|----|-------|--------|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | | | | |
| | | | | | | | | | | | | | | |
| | | | | | m-pyrite <5% (diss and on frags), zeolites-Tr. A-chloritization of mafics, sericitization of plagioclase. H-5. Fault at 20° to C.A. at 104'; 1/4" clay gouge. | | | | | | | | | |
| 105.0 | 107.5 | 2.5 | 2.4 | | Phenoandesite. C-dark green. T-f.g. porphyritic <1/16" plagioclases, euhed-broken and 1/16-1/8" anhedral augites in dark green groundmass. M-plagioclase 65%, augite (chlorite) 15%; m-calcite 5% as stringers, chlorite 10%, pyrite 1-3%. | | | | | | | | | |
| 107.5 | 109.0 | 1.5 | 1.5 | | Dacite (or silicified phenoandesite). C-grey-green. T-fragmented, massive frags and occasional augite rich frags. (contact breccia). M-plagioclase 50%, quartz 35%, clay 15%; m-pyrite-tr, zeolites-tr. A-kaolinization, silicification. H-3-5 (soft where clay alt'd, hard where silicified). | | | | | | | | | |
| 109.0 | 124.0 | 15.0 | 15.0 | | Quartz-eye Porphyry. C-beige. T-porphyritic, <1/16-1/4" rounded quartz eyes and beige-salmon 1/8-1/4" long feldspars in beige aphanitic groundmass. M-plagioclase 60%, quartz 25%; m-clays 5%, zeolites (pink) 3%, pyrite 1%. A-kaolin. H-5. | | | | | | | | | |
| 124.0 | 136.0 | 12.0 | 11.8 | | Quartz-eye Porphyry as above except highly sheared and gouged with 10-20% clay on fractures. A-kaolinitization. H-3-4. | | | | | | | | | |
| | | | | | 136.0 END OF HOLE. | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: UB3-2 LENGTH: 141'
 LOCATION: 5420 Drift DIP: +1° 01'
 LATITUDE: 4786.2n (mine grid) DEPARTURE: 601.0e (mine grid)
 ELEVATION: 5436.3' AZIMUTH: 329°21'53" (mine grid)
 HOLE STARTED: 1983 January 27 HOLE COMPLETED: 1983 January 30

| ACID B/OR TRO-PARI TESTS | | | | | |
|--------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
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SHEET No. 1 OF: 4
 HOLE NUMBER: UB3-2
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: BQ
 % CORE RECOVERY: 74%
 LOGGED BY: T. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton | | ASSAYS | |
|---------|------|-------|-------|--|--------|------------|------|-----|--------|-------|--------|------|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % SULFIDES | FROM | TO | WIDTH | DEPTH | Au | Ag |
| | | | | C-colour; T-texture; M-major minerals, I of total; m-minor minerals & metallics; A-alteration; H-hardness. | | | | | | | | |
| 0.0 | 0.1 | 0.1 | 0.1 | Dacite. C-grey, T-porphyrific, 1/16" white and pink sub-dral and broken feldspars in f.g. groundmass. M-plagioclase 70%, quartz 15%; m-mafics 5%, pyrite 3%, kaolinite 3-5%. A-kaolinitization. H-4 1/2. | | | | | | | | |
| 0.1 | 1.1 | 1.0 | 1.0 | Quartz Vein. C-gray mottled, T-massive to patchy. M-quartz 85%; m-pyrite 10% (stringers and diss.), calcite 3%, argentite 1%, clay patches-Tr. A-calcite-clay-pyrite. H-6. | 6028 | | 0.0 | 5.0 | 5.0 | 1.0 | 0.07 | 0.68 |
| 1.1 | 1.5 | 0.4 | 0.4 | Dacite as above. | | | | | | | | |
| 1.5 | 13.0 | 11.5 | 10.5 | Dacite Tuff. C-dark grey, pink mottled. T-tuffaceous with cleats of dacite feldspar porphyry; pink-white feldspars to 1/8" long in beige groundmass. M-plagioclase 70%, quartz 15%. | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: UB3-2

 SHEET NUMBER 2 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | |
|---------|------|-------|-------|-------------|--------|----------|---------|----|--------|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % DIAGEN | FOOTAGE | | | | | | |
| | | | | | | | FROM | TO | WIDTH | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 13.0 | 28.0 | 15.0 | 15.0 | | | | | | | | | | |
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| 28.0 | 32.5 | 4.5 | 4.5 | | | | | | | | | | |
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| 32.5 | 40.5 | 8.0 | 8.0 | | | | | | | | | | |
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| 40.5 | 56.2 | 15.7 | 15.7 | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 1183-2

 SHEET NUMBER 4 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | | | |
|---------|-------|-------|------|---|--------|-----------|---------|-------|---------------|------|------|--|--|--|
| FROM | TO | WIDTH | ACFT | | NUMBER | % REFINES | FOOTAGE | | | | | | | |
| | | | | | | FROM | TO | WIDTH | ACFT | | | | | |
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| | | | | | | | | | | | | | | |
| 115.0 | 121.2 | 6.2 | 2.7 | Quartz Vein. C-grey-white with green patches. T-massive, occasional vugs and frequent chl. patches to 1/2" diameter. | 6030 | 116.0 | 121.0 | 5.0 | 2.0 | Tr. | 0.33 | | | |
| 121.2 | 125.5 | 4.3 | 1.6 | Silicified and Quartz Veined Volcanic. C-grey-beige. M-quartz 50%, volcanic frags. 40%; m-pyrite 5%, clays Tr. chlorite Tr. | 6031 | 121.0 | 125.5 | 4.5 | 1.8 | Tr. | Tr. | | | |
| 125.5 | 131.0 | 5.5 | 1.5 | Quartz Vein and minor silicified volcanics. C-grey-white. M-quartz 75%, volcanics 20%; m-chlorite 3%, pyrite 3%. | 6032 | 125.5 | 131.0 | 5.5 | 1.5 | 0.02 | 0.25 | | | |
| 131.0 | 138.0 | 7.0 | 2.5 | Dacite. C-grey-beige. T-massive, silicified and cut by numerous 1/8" quartz stringers. M-plagioclase 50%, quartz 35%, chlorite 3%; m-pyrite 3%, kaolinite Tr. | 6033 | 131.0 | 136.0 | 5.0 | 2.0 | 0.02 | 0.25 | | | |
| 138.0 | 141.0 | 3.0 | 1.5 | Clay Gouge with silicified volcanic fragments. Very poor recovery, drill rods rightened up, stopped hole at this point. | | | | | | | | | | |
| | | | | END OF HOLE. 141'. | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: U83-3 LENGTH: 176'
 LOCATION: 5420 Drift DIP: +1°30'
 LATITUDE: 4784.4n (mine grid) DEPARTURE: 601.0e (mine grid)
 ELEVATION: 5436.2' AZIMUTH: 299°25'29" (mine grid)
 HOLE STARTED: 1983 February 02 HOLE COMPLETED: 1983 February 05

| ACID &/OR TRO - PARI TESTS | | | | | |
|----------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
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SHEET No. 1 OF: 2
 HOLE NUMBER: U83-3
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: BQ
 % CORE RECOVERY: 89%
 LOGGED BY: J. Paxton

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | | | |
|---------|------|-------|-------|---|--------|------------|------|------|---------------|-------|------|------|--|--|
| FROM | TO | WIDTH | RCVRT | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRT | Au | Ag | | |
| | | | | C-colour; T-texture; M-major minerals, I of total; m-minor minerals & metallics; A-alteration; H-hardness. | | | | | | | | | | |
| 0.0 | 6.0 | 6.0 | 0.0 | Casing. | | | | | | | | | | |
| 6.0 | 24.5 | 18.5 | 13.4 | White Feldspar Porphyry. C-grey with white phenocrysts. T-porphyritic. 1/8" subhedral white fels phenocrysts in a fine grained white and grey groundmass of feldspar and quartz. M-white feldspar 60%, quartz 25%, chlorite 0-10%, pyrite 5-20%. A-?. H-6. Local veinlets of granular friable pyrite up to 1/4". | 6034 | | 6.0 | 7.0 | 1.0 | 0.8 | 0.13 | 0.41 | | |
| | | | | | 6035 | | 14.0 | 16.5 | 2.5 | 1.5 | 0.13 | 0.27 | | |
| | | | | | 6036 | | 14.5 | 20.5 | 1.0 | 1.0 | Tr. | 0.27 | | |
| 24.5 | 46.0 | 24.5 | 17.2 | Orange Feldspar Porphyry. C-mottled grey and orange. T-porphyritic. Subhedral white feldspar phenocrysts surrounded by aphanitic orange potash feldspar. M-white fels phenocrysts 20%, orange k-spar 40%. Dark grey quartz-feldspar pyrite groundmass 40%. A-k-spar feldspathization. H-6. Locally, toward end of section white fels is totally | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: U83-4 LENGTH: 102'
 LOCATION: 5450.5m South Drift DIP: +0°24'
 LATITUDE: 4856.5m (mine grid) DEPARTURE: 701.5m (mine grid)
 ELEVATION: 5433.0' (1655.98m) AZIMUTH: 174°19'13" (mine grid)
 HOLE STARTED: 1983 February 02 HOLE COMPLETED: 1983 February 04

| ACID &/OR TRO - PARI TESTS | | | | | |
|----------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| | | | | | |
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SHEET No. 1 OF: 2
 HOLE NUMBER: U83-4
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: HQ
 % CORE RECOVERY: 46%
 LOGGED BY: J. Paxton

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | |
|---------|------|-------|------|---|--------|------------|------|------|---------------|------|------|------|
| FROM | TO | WIDTH | RCVT | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVT | Au | Ag |
| | | | | C-colour; T-texture; M-major minerals, I of total; m-minor minerals & metallics; A-alteration; H-hardness. | | | | | | | | |
| 0.0 | 27.0 | 27.0 | 13.5 | Augite Phenoandesite. C-dark green. T-subhedral 1/8" augite and amphibole crystals in a fine grained andesitic groundmass. M-plagioclase 70%, mafics 25%, pyrite 5%. A-? H-5-6. | | | | | | | | |
| 27.0 | 42.0 | 15.0 | 6.3 | Dacite. C-pale grey. T-small white orthoclase crystals in a grey quartz-fels groundmass. M-orthoclase 30%, quartz 30%, plagioclase 30%, calcite 10%. Very variable. Numerous small masses of quartz. Several irregular veinlets up to 2" of orange feldspar porphyry. | 5152 | | 29.0 | 36.0 | 5.0 | 1.0 | 0.07 | 0.38 |
| | | | | | 5153 | | 36.0 | 37.5 | 3.5 | 0.8 | 0.03 | 0.23 |
| | | | | | 5154 | | 37.5 | 39.0 | 1.5 | 1.2 | 0.04 | 0.26 |
| 42.0 | 59.0 | 17.0 | 12.5 | Augite Phenoandesite. Similar to previous. | | | | | | | | |
| 59.0 | 79.0 | 20.0 | 7.1 | Dacite. Similar to previous. Very blocky core. Much ground. | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: UB3-4

SHEET NUMBER 2 OF 2

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | |
|---------|-------|-------|-------|---|--------|----------|------|------|---------------|-------|------|------|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % RAJRES | FROM | TO | WIDTH | RCVRY | Au | Ag |
| 79.0 | 82.0 | 3.0 | 3.0 | Shear Zone. Veinlets of pink calcite and feldspars plus irregular wisps of quartz in a dacitic groundmass. Last 3" is brecciated quartz vein. | 6155 | | 79.0 | 83.5 | 4.5 | 4.0 | 0.13 | 1.12 |
| 82.0 | 94.0 | 12.0 | 3.8 | Dacite. Similar to previous. High pyrite up to 20%. Much ground core. | 6156 | | 83.5 | 84.0 | 0.5 | 0.5 | 0.03 | 0.28 |
| 94.0 | 102.0 | 8.0 | 0.7 | Augite Phenoandesite. Similar to previous. | | | | | | | | |
| | | | | END OF HOLE. | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: U83-5 LENGTH: 102'
 LOCATION: 5420 Drift DIP: -0°21'
 LATITUDE: 4855 In (mine grid) DEPARTURE: 699.6e (mine grid)
 ELEVATION: 5433.0' AZIMUTH: 191°04'51" (mine grid)
 HOLE STARTED: 1983 February 05 HOLE COMPLETED: 1983 February 06

| ACID B/OR TRO-PARI TESTS | | | | | |
|--------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
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SHEET No. 1 OF: 2
 HOLE NUMBER: U83-5
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: BQ
 % CORE RECOVERY: 62%
 LOGGED BY: J. Paxton

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | |
|---------|------|-------|-------|--|--------|------------|------|------|-------|-------|-----------|-----------|
| FROM | TO | WIDTH | REVRT | | NUMBER | % SULFIDES | PROL | VO | WIDTH | RECVY | oz/ton Au | oz/ton Ag |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 0.0 | 25.0 | 25.0 | 19.0 | Augite Phenoandesite. C-dark green. T-porphyritic 1/16-1/4" subhedral to anhedral mafic phenocrysts in a fine grained granular andesitic groundmass. M-plagioclase 70%, mafics 20-30%, pyrite 5-10%, calcite 0-5%. C-chlorite H-4. Core very blocky and broken up. | | | | | | | | |
| 25.0 | 62.0 | 37.0 | 10.3 | Dacite Tuff. C-grey-green. T-fine grained tuffaceous with inclusions of highly altered phenoandesite. M-quartz 10-30%, orthoclase 0-20%, plagioclase 50-70%, mafics 10-30%, pyrite 5-10%. A-locally strongly silicified. Definable quartz vein material as follows: 27.0' - 1/8-1/2" with pink calcite at 40°. 28.5-29.0' - parallel quartz-calcite veins 1/8-1" at 45-60°. Vuggy. 35.2-35.5' - 1" irregular vein at 30°. | 6049 | | 28.5 | 29.3 | 0.8 | 0.8 | 0.03 | 0.53 |
| | | | | | 6050 | | 35.0 | 35.5 | 0.5 | 0.5 | 0.07 | 0.31 |
| | | | | | 6051 | | 51.0 | 53.0 | 2.0 | 2.0 | 0.02 | 0.35 |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: UB3-5

 SHEET NUMBER 2 OF 2

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | | | | |
|---------|-------|-------|-------|--|--------|------------|---------|----|-------|-------|--------|--|--|--|--|--|--|
| FROM | TO | WIDTH | ACRYL | | NUMBER | % DIAPYRES | FOOTAGE | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | HOLES | | | | | | | |
| | | | | Traces of clacopyrite? at 46.0 and 50.0'. | | | | | | | | | | | | | |
| 62.0 | 102.0 | 40.0 | 37.0 | Augite Phenoandesite. Similar to section Q-25'; 65-70'. Rounded inclusions of dacitic material up to 1" diameter. | | | | | | | | | | | | | |
| | | | | 102.0 - END OF HOLE. | | | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: UBJ-6 LENGTH: 352
 LOCATION: 5,5550 S Drift DIP: -0°23'
 LATITUDE: 5,170.2 n (mine grid) DEPARTURE: 751.1 e (mine grid)
 ELEVATION: 5,544.9 AZIMUTH: 323°24'52" (mine grid)
 HOLE STARTED: 1983 February 08 HOLE COMPLETED: 1983 February 17

| ACID &/OR TRO-PARI TESTS | | | | | |
|--------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
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SHEET No. 1 OF: 5
 HOLE NUMBER: UBJ-6
 PROPERTY: CHAFFELLE
 ACCOUNT No.: 714-00
 CORE SIZE: BQ
 % CORE RECOVERY: 86%
 LOGGED BY: J. Paxton

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS oz/ton | | | | | | | | |
|---------|----|-------|-------|--|--------|----------|---------|------|---------------|-------|-----------------|-----------------|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SOLIDS | Footage | | | | Au | Ag | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| 0 | 18 | 18 | 14.5 | Pheno-andesite - C-dark green, T-porphyrific. Euhedral to subhedral. 1/8" xls of tremolite in a very compact fine grained andesitic groundmass. M-Tremolite phenocrysts 20%, Andesite groundmass 75%, Pyrite 5%. A-?, H-6. | | | | | | | | | | | | | |
| 18 | 22 | 4 | 4.0 | Dacite - C-grey, T-indistinct mafic and pyrite blebs plus numerous white fels xls in an aphanitic grey-brown groundmass. May be a bleached form of pheno-andesite? M-feldspar 60%, quartz 5-10%, mafics 20%, pyrite 5-10% A-kaolinized, H-5. | | | | | | | | | | | | | |
| 22 | 80 | 58 | 41.9 | Pheno-andesite - Similar to previous but slightly lighter in colour, to 65' then dark as before. | | | | | | | | | | | | | |
| 80 | 86 | 6 | 5.5 | Quartz Vein - 1" wide. Parallel to core. Dark grey banding. | 6157 | | 80 | 80.5 | 0.5 | 0.5 | 0.03 | 0.27 | | | | | |
| | | | | | 6158 | | 83 | 84.5 | 1.5 | 1.5 | Tc ₁ | Tc ₂ | | | | | |
| | | | | | 6159 | | 85 | 86 | 1.0 | 1.0 | 0.02 | 0.14 | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: UB3-6

SHEET NUMBER 2 of 5

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS oz/ton | | | |
|---------|-----|-------|-------|--|--------|-----------|-----------------------------|-------|-----|-----|---------------|------|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SAMPLES | FOOTAGE FROM TO WIDTH RCVRY | Au | Ag | | | | | |
| 86 | 90 | 4 | 2.5 | Pheno-andesite - as previously. | | | | | | | | | | |
| 90 | 99 | 9 | 7.0 | Shear Zone - 92-94 - Sub parallel to core graphite-pyrite coated slips between bands and veinlets of mixed white quartz and orange feldspar. | 6160 | | 90 | 94 | 4.0 | 3.5 | 0.02 | 0.19 | | |
| | | | | 94-99 - Andesite breccia, quartz breccia and vuggy grey quartz vein. | 6161 | | 94 | 99 | 5.0 | 3.5 | 0.03 | 0.20 | | |
| 99 | 215 | 116 | 107 | Feldspar-Augite Porphyry - C-dark brownish green, T-euhedral augite phenocrysts 1/8" plus anhedral indistinct white to orange feldspar xls in a fine grained granular black and grey groundmass. M-augite phenocrysts 10%, orange feldspar xls 30%, fine grained groundmass 50%, pyrite 5-10%, A? H-5-6. At 116-117. What could be bedding contacts at 45°-60° occur. 114 - Barren 2" quartz vein at 30°. 133-134 - Quartz-pyrite zone at 10°. T.W. = 2.5". No dark minerals. 176-178 - Several barren quartz veinlets 1/4" at 45°. 190-195, 205-213 - Rock is darker and contains up to 10% calcite plus prominent 1/4" augite crystals. 199-200 - Shear zone at 20°. Pink zeolite veinlets. Orange K-spar alteration of wall rocks. | 6162 | | 154 | 154.5 | 0.5 | 0.5 | Tr. | 0.15 | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: U83-6

SHEET NUMBER 3 of 5

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | ASSAYS oz/ton | | | | |
|---------|-----|-------|-------|---|--------|------------|---------|-----|-------|---------------|-----|------|--|-------|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % S&BES | FOOTAGE | | | Au | Ag | | | |
| | | | | | | | FROM | TO | WIDTH | | | | | RCVRY |
| 215 | 222 | 7 | 6.0 | Angite Pheno-andesite - C-dark grey. T-porphyrific. Subhedral augite phenocrysts in a fine grained andesitic groundmass. M-augite + mafics 50%, plagioclase 45%, pyrite 5%. A7 H-5. | | | | | | | | | | |
| 222 | 233 | 11 | 9.8 | Dacite - C-pale brown grey. T-fine grained microporphyry of minute white (fels?) crystals in a grey aphanitic groundmass. Locally large (1/8") indistinct orange K-spar crystals occur. M-orthoclase 35%, quartz 20-35%, mafics 10-30%. m-pyrite, zeolite, clay. A-clay. H-4-6. 225-226 - Stockwork of quartz and zeolite veinlets. | 6163 | | 225 | 226 | 1.0 | 0.8 | Tr. | Tr. | | |
| 233 | 263 | 30 | 15.3 | "Dacite" Feldspar Porphyry - C-pale grey-brown. T-porphyr- blastic. Consists of 1/8" indistinct anhedral orange K-spar crystals in a fine grained granular "dacitic tuff" type groundmass. M-orange fels 60%, quartz 25%, chlorite 0-10%, other 10-25%. A-clay. H-4-6. 242-245 - Fault zone mudseams and plastic gouge at 30° to G.A. | | | | | | | | | | |
| 263 | 264 | 3 | 3.0 | Quartz Vein - Grey fine grained quartz with numerous large vugs up to 2". Numerous inclusions of partially digested wallrock. Several vugs filled with pyrite. Occasional streaks of dark metallic minerals. | 6164 | | 263 | 260 | 3.0 | 3.0 | Tr. | 0.13 | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: UB3-6

SHEET NUMBER 5 OF 5

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | | |
|---------|-----|-------|-------|---|--------|---|---------|-------|-------|--|--------|----|----|----|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % | FOOTAGE | | | | G | Ag | Cu | Au | |
| | | | | FROM | | | TO | WIDTH | DEPTH | | | | | | |
| 351 | 352 | 1.0 | 1.0 | Quartz Eye Feldspar Porphyry - C-orange, T-subhedral cream feldspar phenocrysts plus round "eyes" of grey quartz 1/8"-1/4" in a fine grained equigranular groundmass of orange K-spar and quartz. M-K-spar 6%, quartz 30%, pyrite 5%. m-calcite 0-2%. AT H-6. | | | | | | | | | | | |
| | | | | 352 - End of Hole. | | | | | | | | | | | |
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MS-127

DIAMOND DRILL HOLE RECORD

DRILLED BY: F. Boisvenu Diamond Drilling Ltd
 HOLE NUMBER: UB3-7 LENGTH: 451
 LOCATION: 5,550 S Drift DIP: -0°07'
 LATITUDE: 5,168.5 n (mine grid) DEPARTURE: 749.6 e (mine grid)
 ELEVATION: 5,544.9 AZIMUTH: 298°41'09" (mine grid)
 HOLE STARTED: 1983 February 20 HOLE COMPLETED: 1983 February 26

| ACID B/OR TRO-PARI TESTS | | | | | |
|--------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| | | | | | |
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SHEET No. 1 OF: 11
 HOLE NUMBER: UB3-7
 PROPERTY: CHAPPELLE
 ACCOUNT No.: 714-00
 CORE SIZE: BQ
 % CORE RECOVERY: 94%
 LOGGED BY: T. Brown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | |
|---------|------|-------|-------|--|--------|------------|---------|-------|-------|--|--------|--|--|--|
| FROM | TO | WIDTH | RCVMT | | NUMBER | % SULFIDES | FOOTAGE | | | | | | | |
| | | | | | | FROM | TO | WIDTH | RCVMT | | | | | |
| | | | | C-Colour; T-Texture; M-Major minerals, % of total; m-minor minerals & metallics; A-Alteration; H-Hardness. | | | | | | | | | | |
| 0 | 8 | 8.0 | 6.4 | Dacite - C-lt.-med. green-grey, T-f.g. to porphyritic. M-feldspars 65%, clays 25%. m-chlorite, pyrite 3%, quartz 5%. A-chloritization and clay alteration of groundmass and feldspars. H-4 1/2. | | | | | | | | | | |
| 8 | 81.5 | 73.5 | 68.6 | Pheno-andesitic - C-dark green, T-porphyritic, anhedral 1/8" to 1/4" augite phenos. with finer grained plagioclase phenos in massive groundmass. M-plagioclase 60%, augite 15%, chlorite 10%. m-calcite, pyrite, clay, magnetite. A-chloritization of mafics, clay alteration of f.g. groundmass. H-4. (Much darker almost black where more magnetite present, i.e. less altered). | | | | | | | | | | |
| 81.5 | 83 | 1.5 | 1.5 | Dacite - C-beige to lt. brown, T-massive f.g. to tuffaceous angular frags. of glossy-f.g. dacitic rock to 1/2" dia. in | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: U83-7

SHEET NUMBER 2 OF 11

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | |
|---------|------|-------|-------|---|--------|-------------|---------|-------|--------|--|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % SPLITS | FOOTAGE | | | | | |
| | | | | | | FROM | TO | WIDTH | | | | |
| | | | | f.g. groundmass. M-plagioclase 40%, pyrite 25% (f.g. and diss.), quartz 20%. m-kaolinite, Rx. fragments 5%. A-kaolinitization, silicification; H-5 1/2. | | | | | | | | |
| 83 | 84 | 1.0 | 1.0 | Pheno-andesite tuff - T-porphyrific groundmass with numerous rounded rock frags. C-dark green. M-plagioclase 65%, chlorite 10%, augites 10%. m-pyrite 5%, kaolinite, calcite. A-chlorite, kaolinite. H-4 1/2. | | | | | | | | |
| 84 | 86.8 | 2.8 | 2.8 | Dacite - as above in 81.5 to 83'. Lower contact at 0.35' to C.A. | | | | | | | | |
| 86.8 | 96 | 9.2 | 9.2 | Andesite, feldspar, porphyry - C-dark green, T-porphyrific in part tuffaceous. Fine grained dark green groundmass with clay altered plagioclases to 1/4" dia. and very minor augite phenos to 1/4" long. Frequent clay patches, probably altered feldspar clusters. M-plagioclase 50%, clay 30%, m-pyrite 10% (diss. and veinlets), chlorite, Tr. Augites Tr., calcite 5%, zeolites Tr. A-kaolinitization of feldspars and pyrite. H-4. | | | | | | | | |
| 96 | 98 | 2.0 | 2.0 | Dacite - C-beige, T-massive to tuffaceous. M-plagioclase 50%, quartz 25%, kaolinite 20%, pyrite 10%, zeolites Tr. A-kaolinitization, silicification; pyrite. H-5. | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: U83-7

SHEET NUMBER 3 OF 11

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | | | | | |
|---------|-------|-------|-------|---|--------|-------------|---------|----|-------|-------|--------|--|--|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % OF/OF1 | PREPARE | | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | | | | | | | |
| 98 | 100 | 2.0 | 2.0 | Andesite, feldspar, porphyry - T-porphyrific. Numerous <1/16" to 1/8" white-beige plagioclases in dark green groundmass. M-plagioclase 65%, quartz 10%, chlorite 10%. m-pyrite 5%, zeolites Tr., calcite Tr., Augite Phenos. Tr. A-kaolinitization, pyrite, chlorite. H-4 1/2. | | | | | | | | | | | | | | |
| 100 | 103 | 3.0 | 3.0 | Dacite - C-beige, T-tuffaceous to brecciated. 1/4" to 3/4" angular and rounded massive fragments floating in f.g. groundmass of similar composition. M-plagioclase 40%, kaolinite 30%, quartz 20%. m-pyrite 5% (diss.), zeolites Tr. A-kaolinitization. H-5. | | | | | | | | | | | | | | |
| 103 | 106.5 | 3.5 | 3.5 | Andesite to pheno-andesite - C-black to dark green, T-massive to porphyritic. M-plagioclase 60%, augite 20%. m-pyrite 5%, magnetite 3%, chlorite 5%. A-chloritization of mafics; pyrite. H-4 1/2. | | | | | | | | | | | | | | |
| 106.5 | 110 | 3.5 | 3.5 | Pheno-andesite tuff - C-dark green-brown mottled. T-porphyrific 1/16" to 1/8" white-green plag. laths and 1/8" to 1/4" augite phenos. in dark green groundmass with frequent brown (kaolinized) patches (possibly rock frags.). M-plagioclase 60%, augites 15%, kaolinite 20%. m-pyrite 5%, chlorite (after augites), zeolites. A-kaolinitization, chlorite. H-4 1/2. | | | | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 083-7

SHEET NUMBER 4 OF 11

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|--|--------|--------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RECRY | | NUMBER | % HA/100L | FROM | TO | WIDTH | RECRY | | | | |
| 110 | 112 | 2.0 | 2.0 | Pheno-andesite - C-dark green, T-porphyrific, 1/8" to 1/4" augite and <1/16" to 1/8" plagioclase laths floating in chloritic-kaolinitic groundmass. M-plagioclase 60%, augites 15%, kaolinite 20%. m-pyrite, chlorite, zeolites. A-kaolinitization and chlorite. H-4 to 4 1/2. | | | | | | | | | | |
| 112 | 114 | 2.0 | 2.0 | Dacite - C-beige, T-f.g. porphyritic; <1/32" feldspar laths in silicified-kaolinitized groundmass. M-plagioclase 40%, quartz 30%, kaolinite 20%. m-pyrite 10%, zeolites. A-kaolinitization-silicification. H-5 1/2. | | | | | | | | | | |
| 114 | 120 | 6.0 | 6.0 | Pheno-andesite - C-dark green, T-porphyrific, 1/8" to 1/4" augite phenos and <1/32" to 1/8" white-grey plagioclases in f.g. groundmass with freq. 1/16" broken plagioclase phenos. M-plagioclase 65%, augite 15%, chlorite 10%, m-pyrite 5%, zeolites, calcite. A-chlorite after augite, calcite after plagioclase. H-4. | | | | | | | | | | |
| 120 | 125.5 | 5.5 | 5.5 | Dacite porphyry - C-beige-grey, T-porphyrific, grey-white plagioclases to 1/4" long in f.g. massive groundmass. M-plagioclase 50%, quartz 30%, kaolinite 15%. m-pyrite 5% (diss.). A-kaolinitization of groundmass, silicification. H-5. | | | | | | | | | | |
| 125.5 | 140.5 | 15 | 15 | Pheno-andesite - C-dark green, T-porphyrific, 1/8" to | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: UB3-7

SHEET NUMBER 5 OF 11

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | | | | | |
|---------|-------|-------|-------|-------------|--------|--------------|---------|----|--------|--|--|--|--|-------|--|--|--|--|--|
| FROM | TO | WIDTH | REVRT | | NUMBER | % RE/100% | FOOTAGE | | | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | | | | | REVRT | | | | | |
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| 140.5 | 142.5 | 2.0 | 1.5 | | | | | | | | | | | | | | | | |
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| 142.5 | 154 | 11.5 | 11.5 | | | | | | | | | | | | | | | | |
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| 154 | 156.5 | 2.5 | 2.5 | | | | | | | | | | | | | | | | |
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| 156.5 | 172 | 15.5 | 15.5 | | | | | | | | | | | | | | | | |
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| 172 | 173.6 | 1.6 | 1.6 | | | | | | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: U83-7

 SHEET NUMBER 6 OF 11

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | ASSAYS | | | | | | | | | |
|---------|-------|-------|-------|-------------|--------|------------|---------|----|-------|--------|--|--|--|--|--|--|--|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % DIAPYRES | FOOTAGE | | | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | DEPTH | | | | | | | | | |
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| 173.4 | 174.6 | 1.0 | 1.0 | | | | | | | | | | | | | | | | |
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| 174.6 | 175.2 | 0.6 | 0.6 | | | | | | | | | | | | | | | | |
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| 175.2 | 185 | 9.8 | 9.8 | | | | | | | | | | | | | | | | |
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| 185 | 225 | 40.0 | 40.0 | | | | | | | | | | | | | | | | |
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| 225 | 232.5 | 7.5 | 7.5 | | | | | | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

HOLE NUMBER: U83-7

SHEET NUMBER 7 of 11

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | | | | | |
|---------|-------|-------|-------|-------------|--------|--------------|---------|-------|--------|-------|--------|----|--------|-----|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % S&FIDES | FOOTAGE | | | | oz/ton | | ASSAYS | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | Au | Ag | | | | | | | |
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| 232.5 | 239.5 | 7.0 | 7.0 | | | | | | | | | | | | | | | | |
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| 239.5 | 245 | 5.5 | 5.5 | | | | | | | | | | | | | | | | |
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| 245 | 251 | 6.0 | 6.0 | | 6173 | | 246.5 | 249.5 | 3.0 | 3.0 | | | Tr. | Tr. | | | | | |
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| 251 | 267 | 16 | 15.5 | | | | | | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 083-7

 SHEET NUMBER 8 OF 11

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | |
|---------|-------|-------|-------|---|--------|------------|---------|----|--------|--|--|--|--|-------|--|
| FROM | TO | WIDTH | RCYNT | | NUMBER | % SULFIDES | FOOTAGE | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | | | | | RCYNT | |
| | | | | 1/8" to 1/2" quartz eyes &/or blebs. M-plagioclase 30%, kaolinite 30%, quartz 30%, m-pyrite 5%, calcite Tr. A-kaolinitization of groundmass. Occ. 1/8" Q.V.s at 30" to C.A. with fine MoS ₂ and Cpy-Py. | | | | | | | | | | | |
| 267 | 277 | 10.0 | 10.0 | Dacite - C-dark beige to green. T-aphanitic with freq. chloritic patches to 1/4" dia. M-plagioclase 50%, kaolinite 20%, quartz 20%. m-chlorite 5%, pyrite 5-10%. A-kaolinitization of plagioclase, silicification by numerous <1/8" quartz veinlets at 60", 30" to C.A. at 6" intervals. H-4 1/2. | | | | | | | | | | | |
| 277 | 279.5 | 2.5 | 2.5 | Feldspar Porphyry - C-beige, white-salmon mottled. T-porphyrific 1/8" to 1/4" anhedral & euhedral plag. phenos in aphanitic beige groundmass. M-plagioclase 65%, kaolinite 20%, m-quartz 15%, pyrite 5%, chlorite 5%. A-kaolinitization of feldspars; chloritization of mafics. H-5. | | | | | | | | | | | |
| 279.5 | 283 | 3.5 | 3.5 | Dacite tuff - C-dark green; light green mottled, T-tuffaceous with pheno-andesite and feldspar porphyry clasts in aphanitic dacitic groundmass. M-plagioclase 50%, kaolinite 10%, montmorillonite 20%. m-pyrite 5%, chlorite 5%. A-kaolinitization of plagioclase in clasts and montmorillonitization of aphanitic groundmass. H-4. | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: UB3-7

SHEET NUMBER 9 of 11

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-----|-------|-------|---|--------|------------|-------|-------|--------|-------|-----|-----|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % DIAPYRES | FROM | TO | WIDTH | RCVRY | As | Ag | | |
| 283 | 293 | 10.0 | 10.0 | Dacite Breccia - C-beige, T-volcanic breccia; beige to green f.g. to porphyritic clasts of dacite in beige aphanitic groundmass. M-plagioclase 60%, kaolinite 15%, quartz 15%. m-pyrite 3%, chlorite 3-5%. A-silicification, kaolinization of feldspars; chlorite. H-5. | | | | | | | | | | |
| 293 | 311 | 18.0 | 18.0 | Dacite Feldspar Porphyry - C-grey-beige, white mottled. T-porphyritic, 1/8" to 1/4" euhedral and broken plagioclase phenos beige-grey aphanitic groundmass. M-plagioclase 50%, kaolinite 25%, quartz 20%. m-pyrite 0-5%, chlorite. A-kaolinization of all feldspars. H-4 1/2. | | | | | | | | | | |
| 311 | 333 | 22.0 | 22.0 | Quartz Feldspar Porphyry - C-beige-pink mottled, T-porphyritic. Similar to above 293-311 with greater quartz content mostly as patches or recrystallized quartz eyes. M-plagioclase 50%, quartz 25%, kaolinite 15%. m-chlorite 3%, pyrite 3-5%, Tr-MoS ₂ -Cpy in Q. patches. A-silicification, chlorite, kaolinization. H-5. | 6174 | | 311.0 | 316.0 | 5.0 | 5.0 | Tr. | Tr. | | |
| 333 | 338 | 5.0 | 5.0 | Dacite - C-grey, beige mottled. T-massive, fine grained. M-plagioclase 60%, quartz 30%. m-pyrite 5%, zeolites Tr. A-silicification (weak). H-4 1/2. | | | | | | | | | | |
| 338 | 340 | 2.0 | 2.0 | Feldspar Porphyry - C-grey-beige mottled. T-porphyritic; beige <1/16" to 1/4" plagioclase in grey aphanitic matrix. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: U83-7

SHEET NUMBER 11 of 11

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | | | | | | |
|---------|----|-------|-------|-------------|--------|------------|---------|----|-------|-------|--------|--|--|--|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SIZES | FOOTAGE | | | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: S83-1 LENGTH: 202'
 LOCATION: Vein "A" DIP: -56°18'30"
 LATITUDE: 4801.73 (mine grid) DEPARTURE: 587.90 (mine grid)
 ELEVATION: 5644.5 (top casing) AZIMUTH: 90°13'23" (mine grid)
 HOLE STARTED: 1983 June 5 HOLE COMPLETED: 1983 June 7

| ACID &/OR TRO - PARI TESTS | | | | | |
|----------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 192 | -54° | | | | |
| | | | | | |
| | | | | | |

SHEET No.1 OF: 3
 HOLE NUMBER: S83-1
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 21%
 LOGGED BY: T.J. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|--|--------|------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | | | | |
| | | | | C-colour, T-texture, M-major minerals, Z of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | |
| 0 | 78 | 78 | 0 | Overburden, Casing reamed to 78 feet. | | | | | | | | | | |
| 78 | 147.5 | 69.5 | 46.5 | Quartz-eye-feldspar Porphyry. C-beige to grey, T-porphyr- itic. Anhedral to euhedral plagioclases to 5 mm dia. in beige-grey aphanitic groundmass. Qtz. eyes to 5 mm. M-plagioclase 30%, kaolinite 40%, quartz 15%. m-pyrite, trace, chlorite after mafics, zeolites. Trace. A-kaoliniz- ation. H-4 1/2. Faults at 125'-126'; 1' clay gouge. 127' ; 3" clay gouge @ 65° to C.A. 141'-143'; clay gouge and crushed rock @ 65° to C.A., 145.5' ; 6" clay limonite gouge @ 80° to C.A. | | | | | | | | | | |
| 147.5 | 177.0 | 29.5 | 23.0 | Andesite. C-dark green to black, T-massive to tuffaceous. M-plagioclase 60%, chlorite 10%, m-pyrite 3%, zeolites 10% | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-1

SHEET NUMBER 2 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|---|--------|------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | | | | |
| | | | | (as stringers); A-weak propylitic; H-4 1/2. Occasional 5"-6" zone of beige kaolinization and minor 1/2" q. veins. Faults as 158'-160'; intensely sheared @ 50° to C.A. 160'-177'; crushed andesite; 70% clay gouge 30% sheared rx. fragments; attitude 15° to C.A. | | | | | | | | | | |
| 177.0 | 184.5 | 7.5 | 6.8 | Dacite. C-grey, T-massive to brecciated; occasional 6" section of breccia with 1" clasts in clay matrix. M-plagioclase 40%, quartz 20%, kaolinite 30%, m-zeolites, tr; pyrite, tr; A-kaolinization of plag.; H-5. Faults at 183'; 10" crushed rx. in gouge @ 40° to C.A. 184.3' ; crushed rx. with gouge at 15° to C.A. | | | | | | | | | | |
| 184.5 | 191.2 | 6.7 | 6.2 | Fault gouge. C-dark green; highly crushed, occasional rx. fragment of andesite and dacite. | | | | | | | | | | |
| 191.2 | 196.0 | 4.8 | 3.8 | Andesite; (crushed). C-olive green, T-massive, highly sheared and crushed. Occasional 1/4" stringers of pure white quartz. M-plagioclase 30%, epidote 40%, chlorite 25%, m-zeolites Tr; pyrite, Tr; A-Propylitization, H-4. | | | | | | | | | | |
| 196.0 | 202.0 | 6.0 | 4.5 | Andesite. C-olive green to dark green. T-massive to tuffaceous. Occasional clast of fresh andesite in altered groundmass. M-plagioclase 40%, epidote 30%, chlorite 15%, m-zeolites, Tr; quartz veining, Tr; A-Propylitization; | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: S83-1 LENGTH: 202'
 LOCATION: Vein "A" DIP: -56°18'30"
 LATITUDE: 4801.73 (mine grid) DEPARTURE: 587.90 (mine grid)
 ELEVATION: 5644.5 (top casing) AZIMUTH: 90°13'23" (mine grid)
 HOLE STARTED: 1983 June 5 HOLE COMPLETED: 1983 June 7

| ACID &/OR TRO - PARI TESTS | | | | | |
|----------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 192 | -54° | | | | |
| | | | | | |
| | | | | | |

SHEET No.1 OF: 3
 HOLE NUMBER: S83-1
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 21%
 LOGGED BY: T.J. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|--|--------|------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | | | | |
| | | | | C-colour, T-texture, M-major minerals, Z of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | |
| 0 | 78 | 78 | 0 | Overburden, Casing reamed to 78 feet. | | | | | | | | | | |
| 78 | 147.5 | 69.5 | 46.5 | Quartz-eye-feldspar Porphyry. C-beige to grey, T-porphyr- itic. Anhedral to euhedral plagioclases to 5 mm dia. in beige-grey aphanitic groundmass. qtz. eyes to 5 mm. M-plagioclase 30%, kaolinite 40%, quartz 15%. m-pyrite, trace, chlorite after mafics, zeolites. Trace. A-kaoliniz- ation. H-4 1/2. Faults at 125'-126'; 1' clay gouge. 127' ; 3" clay gouge @ 65° to C.A. 141'-143'; clay gouge and crushed rock @ 65° to C.A., 145.5' ; 6" clay limonite gouge @ 80° to C.A. | | | | | | | | | | |
| 147.5 | 177.0 | 29.5 | 23.0 | Andesite. C-dark green to black, T-massive to tuffaceous. M-plagioclase 60%, chlorite 10%, m-pyrite 3%, zeolites 10% | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-1

SHEET NUMBER 2 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|---|--------|------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | | | | |
| | | | | (as stringers); A-weak propylitic; H-4 1/2. Occasional 5"-6" zone of beige kaolinization and minor 1/2" q. veins. Faults as 158'-160'; intensely sheared @ 50° to C.A. 160'-177'; crushed andesite; 70% clay gouge 30% sheared rx. fragments; attitude 15° to C.A. | | | | | | | | | | |
| 177.0 | 184.5 | 7.5 | 6.8 | Dacite. C-grey, T-massive to brecciated; occasional 6" section of breccia with 1" clasts in clay matrix. M-plagioclase 40%, quartz 20%, kaolinite 30%, m-zeolites, tr; pyrite, tr; A-kaolinization of plag.; H-5. Faults at 183'; 10" crushed rx. in gouge @ 40° to C.A. 184.3' ; crushed rx. with gouge at 15° to C.A. | | | | | | | | | | |
| 184.5 | 191.2 | 6.7 | 6.2 | Fault gouge. C-dark green; highly crushed, occasional rx. fragment of andesite and dacite. | | | | | | | | | | |
| 191.2 | 196.0 | 4.8 | 3.8 | Andesite; (crushed). C-olive green, T-massive, highly sheared and crushed. Occasional 1/4" stringers of pure white quartz. M-plagioclase 30%, epidote 40%, chlorite 25%, m-zeolites Tr; pyrite, Tr; A-Propylitization, H-4. | | | | | | | | | | |
| 196.0 | 202.0 | 6.0 | 4.5 | Andesite. C-olive green to dark green. T-massive to tuffaceous. Occasional clast of fresh andesite in altered groundmass. M-plagioclase 40%, epidote 30%, chlorite 15%, m-zeolites, Tr; quartz veining, Tr; A-Propylitization; | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-1

SHEET NUMBER 3 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|----|-------|-------|--|--------|------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | | | | |
| | | | | (epidote after plagioclase). H-4 1/2. | | | | | | | | | | |
| | | | | FOOT OF HOLE. | | | | | | | | | | |
| | | | | Comments: Very difficult drilling. Return lost on two occasions. Squeezing ground; trouble with using mud. | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: 583-2 LENGTH: 200'
 LOCATION: Vein "A" South end DIP: -65° (at collar)
 LATITUDE: 4801.8 (mine grid) DEPARTURE: 587.7 (mine grid)
 ELEVATION: 5643.2 (top casing; 1' to ground) AZIMUTH: 89°58'02" (mine grid)
 HOLE STARTED: 1983 June 7 HOLE COMPLETED: 1983 June 9

| ACID &/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 192' | -62° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 4
 HOLE NUMBER: 583-2
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 83%
 LOGGED BY: T.J. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|--|--|------------|---------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FOOTAGE | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | | | |
| | | | | | C-colour, T-texture, M-major minerals, I of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | |
| 0 | 76.0 | 76.0 | 0 | Overburden. Casing set to 76 feet. | | | | | | | | | | |
| 76.0 | 105.0 | 29.0 | 24.5 | Feldspar Porphyry. Dacitic; highly sheared; much gouge. C-grey to beige. T-massive to porphyritic where fresh. M-kaolinite 50%, plagioclase 20%, quartz 15%; m-pyrite 3%, other clays 5%, zeolites, trace. A-kaolinization of plagioclase; intense. H-4. Faults at 83'-84'; clay gouge @ 40° to C.A. 86'-89'; crushed, shattered rock @ 15° to C.A. 90.8'-95'; crushed, gouged. No attitude. 99'-100.5'; gouged @ 20° to C.A. | | | | | | | | | | |
| 105.0 | 116.0 | 11.0 | 9.8 | Andesite Feldspar Porphyry; Argillized. C-light green-grey; T-porphyritic; euhedral-anhedral plagioclases to 4 mm randomly oriented in felsic groundmass. M-plagioclase 45%. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: 583-3 LENGTH: 198'
 LOCATION: Vein "A" DIP: -46°55'49"
 LATITUDE: 4801.06 n (mine grid) DEPARTURE: 645.5e (mine grid)
 ELEVATION: 5626.56 AZIMUTH: 91°20'31"
 HOLE STARTED: 1983 June 10 HOLE COMPLETED: 1983 June 11

| ACID B/OR TRO - PARI TESTS | | | | | |
|----------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 195' | 44° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 3
 HOLE NUMBER: 583-3
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 75%
 LOGGED BY: T. Brown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | |
|---------|-------|-------|-------|--|--------|------------|------------|-------|--------|--|--|--|--|
| FT-M | TO | WIDTH | RECVY | | NUMBER | % SURFACES | FOOTAGE TO | WIDTH | RECVY | | | | |
| | | | | C-colour, T-texture, M-major minerals, I of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | |
| 0 | 130.0 | 130.0 | 0.0 | Casing reamed to 130'; no definitive bedrock. | | | | | | | | | |
| 130.0 | 145.0 | 15.0 | 3.8 | Phenoandesite. C-dark to medium green. T-porphyrific; subhedral to euhedral 1/8-1/2" amphiboles and < 1/16" plagioclase phenos (broken anhedral and euhedral) in aphanitic groundmass. M-plagioclase 65%, amphiboles 15%, m-chlorite 10%, pyrite 3-5% (often replacing amphiboles) zeolite stringers. H-4 1/2, A-prophyllitization (moderate). | | | | | | | | | |
| 145.0 | 146.0 | 1.0 | 1.0 | Basalt Dyke; 30° to C.A. C-black; cut by pink zeolite stringers. T-massive; M-plagioclase 70%, mafics 15%, m-magnetite 5%, pyrite, Trace, zeolites 10%. H-4 1/2; Fault contact at bottom; 030° to C.A. | | | | | | | | | |
| 146.0 | 159.0 | 13.0 | 10.5 | Phenoandesite (as above). Fault at 153.5-154'; chl-clay | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: S83-3

 SHEET NUMBER 2 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | oz/ton | | ASSAYS | | | |
|---------|-------|-------|-------|-------------|--------|----------|---------|-------|-------|-------|--------|------|--------|--|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % SUCCES | FOOTAGE | | | | Au | Ag | | | | |
| | | | | | | | FROM | TO | WIDTH | DEPTH | | | | | | |
| | | | | | | | | | | | | | | | | |
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| 159.0 | 171.0 | 12.0 | 9.8 | | | | | | | | | | | | | |
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| 171.0 | 174.0 | 3.0 | 2.4 | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | |
| 174.0 | 179.4 | 5.4 | 4.6 | | 5559 | Tr. | 174 | 179.4 | 5.4 | 4.6 | 0.006 | 0.12 | | | | |
| | | | | | | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 583-3

 SHEET NUMBER 3 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | | | |
|---------|-------|-------|-------|--|--------|------------|---------|-------|---------------|-----|-------|------|--|-------|
| FROM | TO | WIDTH | RCVFT | | NUMBER | % SULFIDES | FOOTAGE | | | Au | Ag | | | |
| | | | | | | | FROM | TO | WIDTH | | | | | RCVFT |
| | | | | Fault with clay gouge at 177-177.5' @ 50° to C.A. Faulted Lower contact at 179' @ 60° to C.A. | | | | | | | | | | |
| 179.4 | 182.0 | 2.6 | 2.6 | Quartz Vein. C-white-grey mottled. T-massive to vuggy (3-5X vugs). Brecciated and healed with later quartz. M-quartz 90%, m-clay 5X, pyrite 3X, chalcocopyrite; Trace; other sulphides (grey) Trace. R-7, A-silicification, minor clay flooding. | 5560 | 3X | 179.4 | 182 | 2.6 | 2.6 | 0.055 | 2.83 | | |
| 182.0 | 198.0 | 16.0 | 16.0 | Phenoandesite; Kaolinitized. C-dark green-beige mottled. T-porphyratic; anhedral-euhedral plagioclases <1/8" long and <1/8" to 1/2" amphibole phenos in a dark green-beige f.g. groundmass. M-plagioclase 60%, amphibole remnants 10%, chlorite 10%, kaolinite 25%, m-zeolite stringers, pyrite 3X (v.f.g.), calcite (pervasive) 10%. R-4 1/2, A-propylitization and kaolinization. Crushed fault zones at 186' @ 30° to C.A. at 188' @ ?? attitude. at 193' @ 45° to C.A. at 195' @ 30° to C.A. | 5561 | 3X | 182.0 | 186.0 | 4.0 | 4.0 | 0.002 | 0.17 | | |
| | | | | Comments: Some of overburden may have been very soft, clay-gouged bedrock which could not be cored. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd

HOLE NUMBER: 583-4 LENGTH: 98 feet
 LOCATION: Vein "A" DIP: -46°04'
 LATITUDE: 4697.4m (mine grid) DEPARTURE: 783.7m (mine grid)
 ELEVATION: 5573.0' AZIMUTH: 270°39' (mine grid)
 HOLE STARTED: 1983 June 12 HOLE COMPLETED: 1983 June 13

| ACID B/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 95 | -45° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF 3
 HOLE NUMBER: 583-4
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 89%
 LOGGED BY: T.J. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | |
|---------|------|-------|-------|--|--------|------------|---------|-------|--------|--|--|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % SULFIDES | FOOTAGE | | | | | | |
| | | | | | | FROM | TO | WIDTH | DEPTH | | | | |
| | | | | C-colour, T-texture, M-major minerals, I of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | |
| 0.0 | 20.0 | 20.0 | 0.0 | Overburden; Casing reamed to 20'. | | | | | | | | | |
| 20.0 | 55.0 | 35.0 | 29.5 | Quartz-eye-Feldspar-Porphyry. C-grey; white speckled. T-porphyrific; <1/16 to 1/8" euhedral to anhedral white-cream plagioclase and 1/8 to 1/4" ovoid to hexagonal clear quartz eyes in an aphanitic felsic groundmass. M-plagioclase 65%, quartz 20%, clays after feldspar 15%; m-pyrite 5% (disseminated), chlorite; Trace. M-S; A-clay alteration of feldspar phenocrysts. Faults with clay gouge at 37.8-38.2' @ 30° to C.A. Faults with clay gouge at 39.6-40.1' @ 32° to C.A. Faults with clay gouge and crushed rx. 49-53' @ 18°-25° to C.A. Lower contact at O.P.P. in fault contact @ 18°-25° to C.A. | | | | | | | | | |
| 55.0 | 61.0 | 6.0 | 3.1 | Silicified Phenocrysts. C-dark green-dark grey. T-relic | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-4

SHEET NUMBER 2 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | | | |
|---------|------|-------|-------|---|--------|------------|---------|------|---------------|-----|-------|------|-------|-------|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FOOTAGE | | Au | Ag | | | | |
| | | | | | | | FROM | TO | | | | | WIDTH | RCVRY |
| | | | | porphyritic texture just visible; 1/8 - 1/2" amphiboles and <1/8" plagioclase phenos in dark grey-green aphanitic ground-mass. M-plagioclase 50%, quartz 25%, clay (kaolinite ?) 20%, m-pyrite 3% (disseminated), chlorite 8%. H-5; A-silicification and clay flooding. Core severely shattered to <1" pieces. | | | | | | | | | | |
| 61.0 | 63.5 | 2.5 | 2.5 | Quartz Vein. C-white; occasional grey streaks and patches. T-massive frequently brecciated and rehealed minor 1/8" - 1/2" vugs. M-quartz 95%; m-clay 2-3%, vugs-Tr. pyrite Trace; other sulphides Trace, occasional chlorite patch. Lower contact, fault at 20° to C.A. | 5562 | Tr. | 61.0 | 63.5 | 2.5 | 2.5 | 0.009 | 0.39 | | |
| 63.5 | 71.6 | 8.1 | 8.1 | Andesite. C-medium green; T-aphanitic to massive v.f.g. <1/32" mafics and plagioclase phenos in dark green ground-mass. M-plagioclase 70%, chlorite 10%, mafics 15%; m-pyrite 3%, magnetite-trace; zeolites as stringers 5%. H-4 1/2; A-propylitization; moderate to weak. Fault with gouge at 70.5-71.6' at 15° to C.A. | 5563 | 3% | 63.5 | 71.6 | 8.1 | 8.1 | 0.006 | 0.17 | | |
| 71.6 | 98.0 | 26.4 | 26.4 | Quartz Vein. C-white with grey patches and streaks. T-massive; numerous vugs. Minor brecciation and rehealing. M-quartz 90%, chlorite 5%, vugs 5%; m-pyrite Trace; other sulphides Trace; limonite staining on fractures and vugs. H-7. | 5564 | Tr. | 71.6 | 75.0 | 3.4 | 3.4 | 0.052 | 3.32 | | |
| | | | | | 5565 | Tr. | 75.0 | 79.5 | 4.5 | 4.5 | 0.096 | 6.11 | | |
| | | | | | 5566 | Tr. | 79.5 | 83.0 | 3.5 | 3.5 | 0.060 | 1.17 | | |
| | | | | | 5567 | Tr. | 83.0 | 88.0 | 5.0 | 5.0 | 0.012 | 0.20 | | |
| | | | | | 5568 | Tr. | 88.0 | 93.0 | 5.0 | 5.0 | 0.041 | 1.46 | | |
| | | | | | 5569 | Tr. | 93.0 | 98.0 | 5.0 | 5.0 | 0.058 | 3.14 | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: 583-5 LENGTH: 198'
 LOCATION: Vein "A" DIP: -60°26'
 LATITUDE: 4697.4n (mine grid) DEPARTURE: 785.1e (mine grid)
 ELEVATION: 5572.4' AZIMUTH: 270°08' (mine grid)
 HOLE STARTED: 1983 June 13 HOLE COMPLETED: 1983 June 15

| ACID &/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 190' | -60° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 4
 HOLE NUMBER: 583-5
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 82%
 LOGGED BY: T.J. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | |
|---------|------|-------|-------|--|--------|------------|---------|-------|--------|--|--|--|--|--|--|
| FROM | TO | WIDTH | REVRT | | NUMBER | % SULFIDES | FOOTAGE | | | | | | | | |
| | | | | | | FROM | TO | WIDTH | REVRT | | | | | | |
| | | | | C-colour, T-texture, M-major minerals, I of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | | |
| 0.0 | 14.0 | 14.0 | 0.0 | Overburden; casing to 14 feet. | | | | | | | | | | | |
| 14.0 | 27.5 | 13.5 | 12.5 | Quartz-eye-Feldspar-Porphyry. C-grey-white mottled; T-porphyrific; 1/16 - 1/4" plagioclase phenos and 1/8-1/2" oval quartz eyes in grey aphanitic groundmass. M-plagioclase 60%, quartz 20%, clays (kaolinite) 1%, m-pyrite 3%, limonite, Trace. H-4 1/2; A-Kaolinization. Faulted at 21-22.5' @ 15° to C.A. much clay gouge. Faulted at 25-27' @ 10° to C.A. much clay gouge. | | | | | | | | | | | |
| 27.5 | 31.5 | 4.0 | 2.5 | Basaltic Dyke. C-dark green; T-massive, occasional omygdale of c.c. M-plagioclase 70%, mafics 25%, m-zeolites Trace, limonite 5%. H-4 1/2, A-nil. | | | | | | | | | | | |
| 31.5 | 49.5 | 18.0 | 13.5 | Quartz-eye-Feldspar-Porphyry. as above 14-27.5'. | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 583-5

 SHEET NUMBER 2 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | | | | | |
|---------|-------|-------|-------|-------------|--------|-----------|---------|----|--------|-------|--|--|--|--|--|--|--|--|--|
| FROM | TO | WIDTH | REVRT | | NUMBER | % DIJIDES | FOOTAGE | | | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | REVRT | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | |
| 49.5 | 53.8 | 4.3 | 4.3 | | | | | | | | | | | | | | | | |
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| 53.8 | 101.5 | 47.7 | 29.7 | | | | | | | | | | | | | | | | |
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| 101.5 | 115.0 | 14.5 | 12.5 | | | | | | | | | | | | | | | | |
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| 115.0 | 132.0 | 24.0 | 16.2 | | | | | | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-5

SHEET NUMBER 4 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|----|-------|-------|--|--------|-------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVTY | | NUMBER | % SPLDES | FROM | TO | WIDTH | RCVTY | | | | |
| | | | | FOOT OF HOLE. | | | | | | | | | | |
| | | | | Comments: Lost circulation about 175'; cemented and got some circ. back. Squeezing ground from 194-198'. | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: S83-6 LENGTH: 80 feet
 LOCATION: Vein "A" DIP: -59°02'
 LATITUDE: 4699.7n (mine grid) DEPARTURE: 711.0e (mine grid)
 ELEVATION: 5598.3' AZIMUTH: 87°42'
 HOLE STARTED: 1983 June 15 HOLE COMPLETED: 1983 June 15

| ACID B/OR TRO - PARI TESTS | | | | | |
|----------------------------|--------|---------|--------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FORAGE | DIP | AZIMUTH |
| 80' | -59.5' | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 2
 HOLE NUMBER: S83-6
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 92%
 LOGGED BY: T.J. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton | | ASSAYS | | | | | |
|---------|------|-------|-------|-------------|--|------------|------|------|--------|-------|--------|-------|------|--|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % SULFIDES | FROM | TO | WIDTH | DEPTH | Au | Ag | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 0.0 | 30.0 | 30.0 | 0.0 | | Overburden. Casing reamed to 30 feet. | | | | | | | | | | | |
| 30.0 | 63.7 | 33.7 | 32.2 | | Quartz-eye-Feldspar-Porphyry. C-grey with beige mottling. T-porphyrictic; anhedral to euhedral <1/16" to 1/8" plagioclase phenos with 1/8" to 3/8" oval quartz eyes in beige-grey felsic groundmass. M-plagioclase 60%, quartz 20%, kaolinite after plagioclase 15%; m-pyrite 5%, limonite staining on fracs. from 30-56'. Faults at 51.8-52.5' @ 60° to C.A. with clay gouge. Faults at 61.5-63.7' @ 60° to C.A. with clay gouge. | | | | | | | | | | | |
| 63.7 | 68.9 | 5.2 | 4.0 | | Quartz Vein. C-white with limonite stain on fractures. T-massive to vuggy. Minor brecciation and healing by SiO ₂ . M-quartz 90%, w-vugs 5%, sulphides 2%, clay and calcite 3%. H-7. | 5571 | Tr. | 63.7 | 68.9 | 5.2 | 4.0 | 0.001 | 0.02 | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-6

SHEET NUMBER 2 OF 2

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | |
|---------|------|-------|-------|--|--------|------------|------|------|---------------|-------|-------|------|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | Au | Ag |
| | | | | Upper contact is faulted at 60° to C.A. | | | | | | | | |
| 68.9 | 80.0 | 11.1 | 9.5 | Dacite (possibly Kaolinized andesite). C-grey with green mottling. T-very fine grained crystalline. M-plagioclase 50%, kaolinite 30%, quartz 15%; m-pyrite 5%, zeolites, Trace. R-5 1/2; A-kaolinization of plag. phenos and ground-mass. Faults at 74.5-75.0'; attitude? Faults at 78-80' attitude 30° to C.A. FOOT OF HOLE. | 5572 | 5% | 68.9 | 75.0 | 6.1 | 4.8 | 0.002 | 0.02 |
| | | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd

HOLE NUMBER: 583-7 LENGTH: 201'
 LOCATION: Vein "A" DIP: -44°43'
 LATITUDE: 4749.2m (mine grid) DEPARTURE: 771.2m (mine grid)
 ELEVATION: 3595.5' AZIMUTH: 268°46'
 HOLE STARTED: 1983 June 15 HOLE COMPLETED: 1983 June 16

| ACID B/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 192' | -43° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 4
 HOLE NUMBER: 583-7
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 85%
 LOGGED BY: T.J. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | |
|---------|-------|-------|-------|---|--------|------------|--------------|------------|--------|-------|--|--|--|--|--|
| FROM | TO | WIDTH | RECVY | | NUMBER | % SULFIDES | FOOTAGE FROM | FOOTAGE TO | WIDTH | RECVY | | | | | |
| | | | | C-colour, T-texture, M-major minerals, I of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | | |
| 0.0 | 48.0 | 48.0 | 0.0 | Overburden; casing reamed to 48 feet (much of overburden actually mine waste rock). | | | | | | | | | | | |
| 48.0 | 124.5 | 76.5 | 76.0 | Quartz-eye-Feldspar-Porphyry. C-grey, white speckled. I-porphyritic; anhedral to euhedral 1/16-1/8" plagioclase phenos and 1/8-3/8" oval quartz eyes in aphanitic groundmass. M-plagioclase 60%, quartz 20%, kaolinite 15%, m-pyrite 3%, zeolites, trace, limonite, trace on fractures. Faults at 60-61' @ 15° to C.A. minor clay gouge. Faults at 66.5-67' @ 30° to C.A. High clay gouge. Faults at 68.8-69.5', unknown attitude, much clay gouge and crushed rock, <1/16" diameter. Faults at 91.6-96' with clay gouge @ 15° to C.A. Faults at 111' @ 25° to C.A. with 2" clay gouge. Faults at 119.5-120' @ 20° to C.A. with clay gouge. | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER 582-7

SHEET NUMBER 2 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton | | ASSAYS | |
|---------|-------|-------|------|---|--------|-------------|---------|-------|--------|-----|--------|------|
| FROM | TO | WIDTH | ACFT | | NUMBER | % SAPPHIRES | FOOTAGE | | Au | Ag | | |
| | | | | | | | FROM | TO | | | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 126.5 | 136.0 | 11.5 | 6.0 | Quartz-eye-Dacite (appears silicified??). C-light grey; T-massive except for numerous 1/8-3/8" oval and hexagonal quartz phenos. M-plagioclase 65%, quartz 20%, clays 10%, m-pyrite 2%, limonite on fractures. B-4 1/2; A-kaolinization and weak SiO ₂ . Fault with crushed and gouged rock at 133-134' (loss water circulation @ this point) @ 10° to C.A. | 5573 | 2% | 131.0 | 136.0 | 5.0 | 3.0 | 0.002 | 0.02 |
| 136.0 | 144.0 | 8.0 | 4.0 | Quartz and Quartz-eye Dacite (very poor core recovery; mostly ground pieces < 1 1/2"). C-white quartz, dacite same as above. T-massive quartz; dacite same as above. M-quartz 100% for quartz frags. See above for dacite; m-pyrite in quartz. Trace. NOTE: Possible quartz vein here; quartz pebbles total 50% of pebbles in box to 144'. | 5574 | Tr. | 136.0 | 141.0 | 5.0 | 1.0 | 0.079 | 1.16 |
| | | | | | 5575 | Tr. | 141.0 | 143.0 | 3.0 | 1.0 | 0.032 | 1.62 |
| 144.0 | 163.0 | 19.0 | 5.1 | Quartz-eye Dacite similar to 124.5-136' - occasional quartz pebble, redrilled; cave?? NOTE: (Very poor recovery. Lost water circulation about 143 again). | 5576 | Tr. | 144.0 | 163.0 | 19.0 | 5.1 | 0.023 | 1.92 |
| 163.0 | 173.0 | 10.0 | 7.9 | Dacite-Feldspar Porphyry (zeolitic). C-medium grey-green. T-1/32-1/8" plagioclase phenos in aphanitic groundmass. | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 583-7

 SHEET NUMBER 3 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | |
|---------|-------|-------|-------|---|--------|--------|---------|-------|--------|--|--|--|--|
| FROM | TO | WIDTH | RCVAT | | NUMBER | GRADES | FOOTAGE | | | | | | |
| | | | | | | FROM | TO | WIDTH | RCVAT | | | | |
| | | | | M-plagioclase 65%, kaolinite 20%, m-zeolites 5% (as stringers), pyrite 2%, mafics - trace; limonite on fractures. H-4; A-kaolinization. Fault at 164'; 3" clay-limonite gouge. Fault at 173'; 6" clay gouge @ 30° to C.A. | | | | | | | | | |
| 171.0 | 184.5 | 11.5 | 11.5 | Dacite (kaolinite phenoandesite). C-medium grey, T-very fine grained to massive; occasional pyrite knot. M-plagio- class 65%, kaolinite 25%, m-pyrite 3%, chlorite 5%, H-4; A-kaolinization. Rock totally shattered to <1" pieces. Clots of pyrite-chlorite, possibly relic amphibole phenos. | | | | | | | | | |
| 184.5 | 191.0 | 6.5 | 6.5 | Phenoandesite. C-dark green; grey mottled. T-porphyritic; 1/8-3/8" dark green amphibole phenos. in dark green chloritic groundmass. M-plagioclase 50%, amphiboles 15%, chlorite 20%, sericite-kaolinite 10%, m-pyrite 3%, zeolite, minor stringers. H-4; A-chloritization and kaolinization and sericitization. Faults at 177'; 3" chlorite-clay gouge @ 20° to C.A. slick- ensides at 45° to fault plane dip. Faults at 183.8'; 2" chloritic gouge @ 35° to C.A. Faults at 185.2'; chlorite gouge @ 15° to C.A. slickensides at 15° to fault plane dip. | | | | | | | | | |
| 191.0 | 201.0 | 10.0 | 10.0 | Dacite (sericitized). C-light green to grey. T-v.f.g. por- phyritic. <1/16" anhedral plagioclase phenos in aphanitic | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-7

SHEET NUMBER 4 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|----|-------|------|---|--------|-------------|------|----|--------|------|--|--|--|--|
| FROM | TO | WIDTH | RCVY | | NUMBER | % PIECES | FROM | TO | WIDTH | RCVY | | | | |
| | | | | groundmass. M-plagioclase 60% (largely altered to chlorite-sericite), sericite (+ chlorite) 30%, m-pyrite 5%, zeolites 5%. H-4; A-sericitization, chloritization. NOTE: Rock intensely crushed to 60% <1" pieces. FOOT OF HOLE. | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: S83-8 LENGTH: 201'
 LOCATION: Vein "A" DIP: -46°40'
 LATITUDE: 4749.0n (mine grid) DEPARTURE: 721.5e (mine grid)
 ELEVATION: 5597.70' AZIMUTH: 90°44'36"
 HOLE STARTED: 1983 June 17 HOLE COMPLETED: 1983 June 18

| ACID B/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 193' | -46° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 3
 HOLE NUMBER: S83-8
 PROPERTY: Chappelle
 ACCOUNT No.: 716-00
 CORE SIZE: NQ
 % CORE RECOVERY: 91%
 LOGGED BY: T.J. Brown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|--|--------|------------|--------------|------------|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVRT | | NUMBER | % SULFIDES | FOOTAGE FROM | FOOTAGE TO | WIDTH | RCVRT | | | | |
| | | | | C-colour, T-texture, M-major minerals, I of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | |
| 0.0 | 50.0 | 50.0 | 0.0 | Overburden; reamed casing to 50'. | | | | | | | | | | |
| 50.0 | 103.0 | 53.0 | 53.0 | Quartz-eye-Feldspar-Porphry. C-grey-beige mottled (bleached; weathered, 62-75'). I-porphyrific, <1/16-1/4" anhedral to euhedral creamy coloured plagioclase and 1/8-3/4" quartz eyes in beige aphanitic groundmass. M-plagioclase 25%, visible phenos 25% groundmass, quartz 20%, kaolinite 20%, m-pyrite 2%, limonite staining on fractures. H-4 1/2; A-kaolinization. Faults at 55.8-56'; clay-limonite gouge @ 30° to C.A. Faults at 68.7-69'; clay gouge @ 40° to C.A. Faults at 73.5-74.3'; clay gouge and crushed rock @ 15° to C.A. Faults at 86.5-87'; clay gouge. Faults at 91.4-92'; clay gouge @ 15° to C.A. Faults cont'd at 99.6-100' @ 40° to C.A. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-B

SHEET NUMBER 2 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | |
|---------|-------|-------|-------|---|--------|--------|------|----|--------|-------|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | GRADES | FROM | TO | WIDTH | RCVRY | | | | | |
| | | | | Faults cont'd at 101-102.6' @ 30° and 40° to C.A. much crushed and gouged rock. | | | | | | | | | | | |
| 103.0 | 105.0 | 2.0 | 2.0 | Basalt Dyke (U.C. ? L.C. 60° to C.A.). C-dark green, pink stringers. T-massive. M-plagioclase 65%, mafics 15%, chlorite 15%, m-magnetite, Trace, zeolites 3% (as stringers). H-4; A-chloritization. Fault at 103.4-103.6' @ 30° to C.A. | | | | | | | | | | | |
| 105.0 | 111.0 | 6.0 | 3.8 | Quartz-eye-Feldspar-Porphyry, as above 50-103'. Faults at 107-108' (only angular pebbles). | | | | | | | | | | | |
| 111.0 | 126.0 | 15.0 | 10.0 | Dacite. C-grey; mottled. T-massive to tuffaceous aphanitic 1/2-2" clasts in grey massive groundmass. M-plagioclase 60%, kaolinite 25, m-pyrite 10%, zeolite's trace, limonite on fractures. H-4 1/2; A-kaolinization. Faults at 111-111.3' rusty-limonitic gouge @ 60° to C.A. Faults at 120-125'; clay gouge @ 15° to C.A. | | | | | | | | | | | |
| 126.0 | 132.0 | 6.0 | 6.0 | Phenoandesite. C-medium to dark green. T-porphyrific, anhedral to euhedral <1/8-3.8" amphibole phenos in dark green aphanitic groundmass. Occasional plag. phenos visible, <1/16". M-plagioclase 60%, amphiboles 15%, chlorite 20%, m-pyrite 3%, zeolites, Trace. H-4; A-chloritization. Intensely crushed rock; broken to 75% <1 1/2" pieces. | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: S83-8

 SHEET NUMBER 3 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | |
|---------|-------|-------|-------|---|--------|------------|------|----|--------|-------|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRT | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRT | | | | | |
| | | | | Fault at 127' @ 20° to C.A. | | | | | | | | | | | |
| | | | | Fault at 128-130' @ 20° to C.A. clay-chl. gouge. | | | | | | | | | | | |
| 132.0 | 161.0 | 29.0 | 23.5 | Andesite. C-light green. T-v.f.g. crystalline; <1/32" plagioclase phenos in aphanitic matrix. M-plagioclase 50%, kaolinite ± sericite 30%, chlorite 10%, m-pyrite 5%, zeolites, trace. H-4; A-kaolinization-chloritization. Faults at 136.5'; 1/2 zeol-clay gouge @ 30° to C.A. Faults at 142-144'; highly crushed core. No attitude. Faults at 151.5-152'; clay gouge @ 40° to C.A. Faults at 158.5-161'; shear zone with 20% Py @ 60° to C.A. with much chlorite-zeolites-clay gouge. | | | | | | | | | | | |
| 161.0 | 201.0 | 40.0 | 39.5 | Phenoandesite. C-dark green, T-porphyritic; 1/8-1/2" anhedral, broken and euhedral amphiboles in fine grained chlorite groundmass. M-plagioclase 60%, amphibole 15%, chlorite 15%, m-pyrite 3%, magnetite trace, zeolites on fractures, calcite, trace. H-4 1/2; A-chloritic. Faults at 170-170.5'; clay gouge @ 25° to C.A. Faults at 175' @ 20° to C.A. chlorite gouge; 1/4" thick. Faults at 191-191.5' with chlorite gouge. Faults at 193-194' with chlorite gouge @ 30° to C.A. | | | | | | | | | | | |
| | | | | FOOT OF HOLE. | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: 883-9 LENGTH: 200'
 LOCATION: Vein A DIP: -45°49'
 LATITUDE: 4597.9n (mine grid) DEPARTURE: 635.8e (mine grid)
 ELEVATION: 5642.0' AZIMUTH: 89°31'
 HOLE STARTED: 1983 June 18 HOLE COMPLETED: 1983 June 20

| ACID D/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 197' | -45° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 4
 HOLE NUMBER: 883-9
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 91%
 LOGGED BY: T.J. Droun/P. Webb

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|--|--------|------------|--------------|------------|--------|-------|--|--|--|--|
| FROM | ID | WIDTH | RECVY | | NUMBER | % SULFIDES | FOOTAGE FROM | FOOTAGE TO | WIDTH | RECVY | | | | |
| | | | | C-colour, T-texture, M-major minerals, I of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | |
| 0.0 | 58.0 | 58.0 | 0.0 | | | | | | | | | | | |
| 58.0 | 152.0 | 94.0 | 87.4 | Quartz-eye-Feldspar-Porphyry. C-light grey, dark grey mottling. T-porphyrictic; anhedral to euhedral plagioclase phenocrysts 0.5 mm - 3 mm in length, cream coloured; 0.5 mm - 4 mm quartz eyes in medium grey groundmass. M-plagioclase: 15% visible phenocrysts, 25% groundmass, quartz 20%, kaolinite 25%, m-pyrite 3-5%, limonite staining on fractures; pervasive limonite staining on/in kaolinite from 91-104'. H-6; A-kaolinization trace calcite stringers. Faults at 66.3-66.5' 80° to C.A. Faults at 70.5-71' 35° to C.A. Faults at 75-76' 20° to C.A. clay gouge. Faults at 79-79.5' gravel and clay gouge. Faults at 81-84' 10° to C.A. clay gouge. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: SBJ-9

 SHEET NUMBER 2 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton | | ASSAYS | | | | | | | |
|---------|-------|-------|-------|--|--|-----------|---------|-------|--------|-------|--------|------|--|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % REFINES | FOOTAGE | | | | Au | Ag | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | | | | | | | |
| | | | | | Faults at 97.5-97.7' @ 70° to C.A. | | | | | | | | | | | | | |
| | | | | | Faults at 100.6-100.8' @ 40° to C.A. | | | | | | | | | | | | | |
| | | | | | Faults at 104.5-105' @ 35° and 70° to C.A. | | | | | | | | | | | | | |
| | | | | | Faults at 107-109' @ 30° to C.A. | | | | | | | | | | | | | |
| | | | | | Faults at 110.3-111.5' clay gouge. | | | | | | | | | | | | | |
| | | | | | Faults at 121.5-121.8' @ 30° to C.A. | | | | | | | | | | | | | |
| | | | | | Faults at 127-130; @ 60° to C.A. clay gouge. | | | | | | | | | | | | | |
| | | | | | Faults at 143.5-143.8' @ 25° to C.A. | | | | | | | | | | | | | |
| | | | | | Faults at 113.8-114 @ 45° to C.A. clay gouge and gravel. | | | | | | | | | | | | | |
| 152.0 | 155.3 | 3.3 | 3.2 | Basaltic Dyke. U.C. @ 50° to C.A. L.C. @ 30° to C.A. C-dark green to medium green (where altered). T-v.f.g. M-mostly plagioclase; m-magnetite, zeolite (red), calcite, zeolite and calcite are as stringers (calcite up to 0.7 mm thick). H-4. Fault at 154.8-155.3' clay gouge @ 30° to C.A. on L.C. A-Kaolinization (?). | | | | | | | | | | | | | | |
| 155.3 | 156.4 | 1.1 | 1.1' | Quartz-vein-Feldspar-Porphyry. as above to 152'. Lots of kaolinite alteration. | | | | | | | | | | | | | | |
| 156.4 | 160.7 | 4.3 | 2.4 | Quartz Vein. U.C. @ 60° to C.A. L.C. 30° to C.A. C-light grey. T-massive. M-quartz 80%, m-kaolinite 10%, calcite 5%, pyrite and grey sulphide 5%. L.C. fault @ 30° to C.A. clay gouge. 160.7' | 5577 | 52 | 156.4 | 160.7 | 4.3 | 2.4 | 0.011 | 0.42 | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-9

SHEET NUMBER 3 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | | | |
|---------|-------|-------|-------|-------------|--------|-----------|---------|----|--------|-------|--|--|--|--|--|--|--|
| FROM | TO | WIDTH | RCVAT | | NUMBER | % CHANGES | FOOTAGE | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVAT | | | | | | | |
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| 160.7 | 192.5 | 31.8 | 28.3 | | | | | | | | | | | | | | |
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| 192.5 | 194.5 | 2.0 | 2.0 | | | | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

HOLE NUMBER: SB3-9

SHEET NUMBER 4 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | ASSAYS | | | | |
|---------|-------|-------|-------|--|--------|----------|--------------|------------|-------|--------|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SOLIDS | FOOTAGE FROM | FOOTAGE TO | WIDTH | RCVRY | | | | |
| | | | | kaolinite SX, calcite SX (stringers), amphiboles (SX), dacite, syenite, pheno andesite clasts in silicified fine grained matrix. | | | | | | | | | | |
| 194.5 | 197.1 | 2.6 | 2.6 | Phenoandesite. as 160.7-192.5' but unaltered. C-medium-dark green. I-porphyrific-dark amphibole phenocrysts in fine grained matrix. Gypsum vein 1" thick at 197' @ 30" to C.A. | | | | | | | | | | |
| 197.9 | 200.0 | 2.1 | 2.1 | Dacitic Breccia as at 192.5-194.5' with clasts of dark dacite, phenoandesite, syenite, propylitized basaltic clasts. | | | | | | | | | | |
| | | | | FOOT OF HOLE. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: S83-10 LENGTH: 224'
 LOCATION: Vein A DIP: -60°10'
 LATITUDE: 4597.9 (mine grid) DEPARTURE: 634.3 (mine grid)
 ELEVATION: 5642.1 AZIMUTH: (mine) 89°30'
 HOLE STARTED: 1983 June 19 HOLE COMPLETED: 1983 June 21

| ACID &/OR TRO-PARI TESTS | | | | | |
|--------------------------|-----|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 217' | 60° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 4
 HOLE NUMBER: S83-10
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ-BQ
 % CORE RECOVERY: 85%
 LOGGED BY: P. Webb

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | |
|---------|-------|-------|-------|---|--------|------------|--------------|----|--------|-------|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FOOTAGE FROM | TO | WIDTH | RCVRY | | | | | |
| | | | | C-colour, T-texture, M-major minerals, Z of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | | |
| 0.0 | 43.5 | 43.5 | 0.0 | Overburden. | | | | | | | | | | | |
| 43.5 | 44.5 | 1.0 | 0.4 | Phenoandesite. C-dark green-grey. T-porphyrific, phenos of amphibole 1 mm - 5 mm diameter in fine grained aphanitic groundmass. M-plagioclase 60%, amphibole 20%, m-pyrite 5%, kaolinite 10%, chlorite 5%. A-kaolinitization and chloritization. H-5. | | | | | | | | | | | |
| 44.5 | 148.8 | 101.1 | 89.7 | Quartz-eye-Feldspar-Porphyry. C-medium green-grey. T-porphyrific - anhedral to euhedral phenos in plagioclase 0.5 mm - 5 mm diameter, partially to wholly altered to kaolinite, anhedral to euhedral quartz eyes. 0.5 mm - 3 mm in aphanitic groundmass, M-plagioclase 50%, kaolinite 23%, quartz 20%, m-pyrite 5%, calcite 2%. A-46.1-60.5' intensely kaolinitized, 60.5-98.5' moderately kaolinitized, 98.5 - | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-10

SHEET NUMBER 2 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | | |
|---------|-------|-------|-------|---|--------|------------|------|----|--------|-------|--|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | | | | | | |
| | | | | slightly kaolinitized. Pervasive kaolinitization throughout plagioclase phenos. kaolinitization also affects groundmass in moderate alteration and intense. H-intense, 1.5; moderate, 3; slight, 4.5. Faults at 44.5-46.2 clay gouge. Faults at 54.5-57' clay gouge. Faults at 79.8-81.6' clay gouge @ 50° to C.A. Faults at 86-86.2' clay gouge and gravel @ 80° to C.A. Faults at 113-113.3 clay gouge @ 55° to C.A. Faults @ 78-78.2' clay gouge @ 50° to C.A. Faults at 77.7-77.8' clay gouge and gravel @ 70° to C.A. Faults at 97.7-98' clay gouge and gravel @ 35° to C.A. Faults at 111.6-112' clay gouge. Faults at 111' clay gouge @ 5° to C.A. Faults at 118-118.5' clay gouge and gravel @ 40° to C.A. Faults at 124.1-124.2' clay gouge @ 45° to C.A. Faults at 130-130.2' clay gouge @ 30° to C.A. Faults at 130.9-131' gravel and clay. Faults at 132-133' gravel and clay. Faults at 137.1-138.2' clay gouge @ 70° to C.A. Faults at 139.3-142' clay gouge and gravel. Faults at 145.6-147.7' clay gouge @ 70° to C.A. Faults at 147.9-148.8 clay gouge @ 40° to C.A. | | | | | | | | | | | | |
| 148.8 | 151.3 | 2.5 | 1.9 | Basaltic Dyke. C-dark grey to black. T-fine grained | | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: S83-10

 SHEET NUMBER 3 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | ASSAYS | | | | | | | | | |
|---------|-------|-------|-------|-------------|--------|------------|---------|----|-------|--------|--|--|--|--|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FOOTAGE | | | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | | | | | | | | |
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| 151.3 | 157.0 | 5.7 | 5.1 | | | | | | | | | | | | | | | | |
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| 157.0 | 157.2 | 1.2 | 1.2 | | | | | | | | | | | | | | | | |
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| 157.2 | 183.5 | 26.3 | 25.3 | | | | | | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-10

SHEET NUMBER 4 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | oz/ton ASSAYS | | | |
|---------|-------|-------|-------|--|--------|----------------|-------|-------|-------|-------|---------------|------|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % RECOVERED | FROM | TO | WIDTH | RCVRY | Au | Ag | | |
| 183.5 | 214.0 | 30.5 | 19.1 | Phenoandesite. C-dark green to black. T-porphyrific, subhedral to anhedral phenos of amphibole 0.5 mm - 2 mm plus plagioclase laths 2-3 mm long. From 183.5-185.5 there is pervasive faulting (1 every 10 cm), from 185.5-186.5 the rock has been altered to a medium green colour. M-plagioclase 65%, amphibole 10%, calcite (stringers) 8%, m-kaolinite 7%, pyrite 8%, chlorite 2%. A-slight argillic. H-4 1/2. Faults at 183.5-184 clay gouge and gravel. Faults at 195-195.4 clay gouge. | 5578 | 7-10% | 212.0 | 214.0 | 2.0 | 2.0 | 0.001 | 0.06 | | |
| 214.0 | 218.0 | 4.0 | 4.0 | Quartz Vein. I.C. @ 60° to C.A. C-light grey with darker mottles. T-brecciated - 1-6 mm subrounded quartz clasts in quartz matrix. M-quartz 90%, m-pyrite 3-5%, chalcopyrite <1%, galena 2%, argentite 1-2%, sphalerite <1%. H-7. A-none. | 5579 | 10% | 214.0 | 218.0 | 4.0 | 4.0 | 0.306 | 1.86 | | |
| 218.0 | 224.0 | 6.0 | 5.5 | Phenoandesite as above 183.5-214.0'. Fault at 218.3-219 gravel @ 40° to C.A. | 5580 | 7-10% | 218.0 | 222.0 | 4.0 | 3.5 | 0.001 | 0.29 | | |
| | | | | FOOT OF HOLE. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd

HOLE NUMBER: S83-11 LENGTH: 215'
 LOCATION: Vein A DIP: -44°45'
 LATITUDE: 4649.1n (mine grid) DEPARTURE: 597.6e (mine grid)
 ELEVATION: 5642.3 AZIMUTH: 88°29'
 HOLE STARTED: 1983 June 22 HOLE COMPLETED: 1983 June 23

| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
|---------|-------|---------|---------|-----|---------|
| 200' | 44.5° | | | | |
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SHEET No. 1 OF 4
 HOLE NUMBER: S83-11
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 94%
 LOGGED BY: P. Webb

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | |
|---------|-------|-------|-------|--|--------|------------|---------|----|-------|-------|--------|--|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % SULFIDES | PREPARE | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | DEPTH | | | | |
| | | | | | | | | | | | | | | |
| 0.0 | 59.0 | 59.0 | 0.0 | Overburden. | | | | | | | | | | |
| 59.0 | 124.0 | 65.0 | 61.8 | Quartz-eye-Feldspar-Porphyry. C-medium green-grey. T-porphyrific, 0.5-10 mm diameter anhedral to euhedral phenos of plagioclase in fine grained, aphanitic groundmass, 0.5-4 mm euhedral to anhedral quartz eyes. M-plagioclase 67%, quartz 20%, m-pyrite 5%, kaolinite 8%; A-the feldspar phenos have been slightly altered due to argillic, alteration in some small sections (avg. 0.5') the argillic alteration has affected the groundmass also to a slight extent. H-4 1/2. - at 93' there is a fairly sharp contact with a darker version of the same rock type. This phase of the quartz-eye-feldspar-porphyry continues to 99.5' where the contact with the lighter coloured QFP is brecciated. While the presence of quartz-eyes is noted, they are lacking in | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-11

SHEET NUMBER 3 of 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|--|--------|----------|---------|-------|--------|-------|--------|------|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % DRIFTS | FOOTAGE | | oz/ton | | ASSAYS | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | Au | Ag | | |
| 128.0 | 173.0 | 45.0 | 40.0 | Quartz-eye-Feldspar-Porphyry, as above 59-124'. Faults at 135-136' - clay gouge @ 60° to C.A. 136.5-139' - clay gouge @ 50° to C.A. 139.9-140' - clay gouge @ 40° to C.A. 154.3-154.6' - clay gouge and gravel @ 60° to C.A. 164.7-165' - gravel. 165.6-167' - clay gouge and gravel @ 80° (???) to C.A. 168.5-171' - clay gouge and gravel @ 50° to C.A. | | | | | | | | | | |
| 173.0 | 174.9 | 1.9 | 1.9 | Andesite. U.C. @ 60° to C.A. L.C. @ 40° to C.A. C-dark grey. Y-very fine grained-aphanitic. M-plagioclase 70%, mafics 15%, quartz 8%; m-zeolites 2% (in stringers). A-none, B-3 1/2-4. Faults at U.C. 173-173.1' - clay gouge @ 60° to C.A. Lower contact is sharp. | | | | | | | | | | |
| 174.9 | 183.0 | 10.1 | 9.6 | Quartz-eye-Feldspar-Porphyry, as above 59-124', 128-173'. Faults at 176-177.8' - clay gouge and gravel @ 80° to C.A. 181.8-183' - clay gouge and gravel @ 35° to C.A. 183.6-184.5' - gravel @ 30° to C.A. | 5581 | 5% | 183.0 | 185.0 | 2.0 | 2.0 | 0.021 | 1.85 | | |
| 185.0 | 192.0 | 7.0 | 7.0 | Quartz Vein. L.C. @ 70° to C.A. C-light grey. Y-massive. M-quartz 91%; m-galena 2%, pyrite 3%, chalcocite 1%, argentite 2%, sphalerite 1%. | 5582 | 10% | 185.0 | 188.0 | 3.0 | 3.0 | 0.260 | 4.97 | | |
| | | | | | 5583 | 10% | 188.0 | 192.0 | 4.0 | 4.0 | 0.121 | 3.50 | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-11

SHEET NUMBER 4 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | | | | |
|---------|-------|-------|-------|--|--------|------------|---------|-------|---------------|-----|-------|-------|--|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % SULFIDES | FOOTAGE | | Au | Ag | | | | | |
| | | | | | | | FROM | TO | | | WIDTH | DEPTH | | | |
| 192.0 | 215.0 | 23.0 | 22.6 | Phenocrysts. G-dark grey-green. T-porphyratic, 1-3 mm phenos of black amphibole, euhedral to anhedral. M-plagioclase 65%, amphibole 20%, quartz 10%; m-pyrite 5%. A-intense silicification noted adjacent to quartz vein. H-4 1/2-5. Faults at 194.2-194.4' - clay gouge @ 50° to C.A. | 5586 | 6% | 192.0 | 194.0 | 2.0 | 2.0 | 0.037 | 0.28 | | | |
| | | | | END OF HOLE. | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: S83-12 LENGTH: 281'
 LOCATION: Vein A DIP: -72°27'
 LATITUDE: 4649.1n (mine grid) DEPARTURE: 595.0e (mine grid)
 ELEVATION: 5642.2 AZIMUTH: 89°59'
 HOLE STARTED: 1983 June 23 HOLE COMPLETED: 1983 June 26

| ACID &/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 274' | -72° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 4
 HOLE NUMBER: S83-12
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 74%
 LOGGED BY: P. Webb

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | |
|---------|-------|-------|-------|-------------|--------|------------|---------|----|--------|-------|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FOOTAGE | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 0.0 | 42.0 | | | | | | | | | | | | |
| 42.0 | 132.5 | 90.5 | 85.5 | | | | | | | | | | |
| | | | (95%) | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-12

SHEET NUMBER 2 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | |
|---------|-------|-------|-------|---|--------|------|---------|-------|--------|--|--|--|
| FROM | TO | WIDTH | RECVY | | NUMBER | % | FOOTAGE | | | | | |
| | | | | | | FROM | TO | WIDTH | | | | |
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| | | | | | | | | | | | | |
| 132.5 | 148.0 | 15.5 | 4.6 | Phenoandesite. C-medium green. T-porphyratic - anhedral to euhedral phenos of black amphibole in a fine grained plagioclase matrix. The phenos are between 1-3 mm in diameter and many have the core of the pheno replaced with pyrite and kaolinite. M-plagioclase 67%, amphibole 10%, kaolinite 15%; m-pyrite 8%. A-most of the rock has undergone argillic alteration. The phenos are replaced by pyrite and kaolinite. B-4-4 1/2. | | | | | | | | |
| | | | (30%) | One fault is noted at 148' @ 70° to C.A. but most of the unit is intensely brecciated which is the most likely explanation for the poor recovery. | | | | | | | | |
| 148.0 | 223.0 | 75.0 | 41.1 | Quartz-eye-Feldspar-Porphry. as above 42-135.5'. This section of the core seems to represent a shear zone. The core is very broken up and there is a very wide fault zone. | | | | | | | | |
| | | | (55%) | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 583-12

 SHEET NUMBER 3 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | |
|---------|-------|-------|-------|---|--------|-------------|---------|-------|--------|--|--|--|--|
| FROM | TO | WIDTH | ACERT | | NUMBER | % SOLIDS | FOOTAGE | | | | | | |
| | | | | | | FROM | TO | WIDTH | ACERT | | | | |
| | | | | The plagioclase phenos are generally altered to kaolinice. Between 148' and 167' the core is fair; between 167' and 204' is where the bulk of the fault zone and shear zone lie. Faults at 154.5-155' - gravel and clay gouge. 156.6-156.7' - gravel & clay gouge @ 40° to C.A. 157.3-158' - clay gouge and gravel. 167-176' - gravel and clay gouge. 197-197.3' - clay gouge. The core from 181-223' is a dark green colour, not as light as the preceding Q.F.P. Faults at 204-204.5' - gravel and clay gouge. 210.8-213' - clay gouge. 217-217.6' - clay gouge & gravel. 2 cross at this point both @ 50° to C.A. | | | | | | | | | |
| 223.0 | 224.0 | 1.0 | 0.6 | Dacite. C-medium green-grey. T-fine grained, aphanitic. (60X) M-plagioclase 75X, calcite 10X (stringers); m-kaolinite 5X, mafics 7X, pyrite 3X. A-slight argillic alteration; H-4 1/2. | | | | | | | | | |
| 224.0 | 232.0 | 8.0 | 2.5 | Quartz-vein-Feldspar-Porphyry. as above 181-223'. (31X) | | | | | | | | | |
| 232.0 | 281.0 | 49.0 | 38.15 | Andesite. C-dark green-grey. T-fine grained, aphanitic. (78X) M-plagioclase 60X, quartz 15X, mafics 10X; m-pyrite 5X, kaolinite 2X, gypsum 8X; A-slight argillic alteration. H-4 1/2-5. | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-12

SHEET NUMBER 4 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | |
|---------|----|-------|------|--|---------------|---------|---------|----|--------|------|--|--|--|
| FROM | TO | WIDTH | RECY | | SAMPLE NUMBER | % | FOOTAGE | | | | | | |
| | | | | | | GRAVITY | FROM | TO | WIDTH | RECY | | | |
| | | | | Faults at 255.3-256.5' - clay & gravel @ 60° to C.A. | | | | | | | | | |
| | | | | 265-266.5' - gravel. | | | | | | | | | |
| | | | | BOTTON OF HOLE. | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd

HOLE NUMBER: 581-13 LENGTH: 75'
 LOCATION: Vein A DIP: -44°46'
 LATITUDE: 4600.7n (mine grid) DEPARTURE: 769.4e (mine grid)
 ELEVATION: 5581.4' AZIMUTH: 272°06' (mine grid)
 HOLE STARTED: 1983 June 26 HOLE COMPLETED: 1983 June 26

| ACID &/OR TRO-PARI TESTS | | | | | |
|--------------------------|-------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 71' | 44.5° | | | | |
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SHEET No. 1 OF: 2
 HOLE NUMBER: 581-13
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: HQ
 % CORE RECOVERY: 82.4%
 LOGGED BY: P. Webb

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | |
|---------|------|-------|------|---|--------|------------|---------|----|-------|------|--------|--|--|--|
| FROM | TO | WIDTH | RECY | | NUMBER | % SUITABLE | FOOTAGE | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RECY | | | | |
| | | | | C-colour, I-texture, M-major minerals, I of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | |
| 0.0 | 30.0 | 30.0 | 0.0 | Overburden. | | | | | | | | | | |
| 30.0 | 73.8 | 43.8 | 35.8 | Quartz-eye-Feldspar-Porphyry. C-light green-grey. T-porphyritic, 1-8 mm anhedral to euhedral phenos of plagioclase, moderately altered to kaolinite, in a fine grained matrix of plagioclase. Also 1-4 mm euhedral to anhedral quartz eye phenocrysts. M-plagioclase 52%, quartz 20%, kaolinite 10%; m-ovrite 10%, chalcocite 1%. A-sericitic alteration of groundmass (slight) and pyroxillitization. H-4 1/2 (chalcocite is in small piece of core between 30' and fault at 30.4' - likely near the vein). Faults at 30.4-30.7' - clay and gravel @ 20° to C.A. 33-35' - clay gouge. 36.2-36.8' - clay gouge @ 30° to C.A. 42.7-43' - clay gouge and gravel @ 25° to C.A. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-13

SHEET NUMBER 2 OF 2

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | | | | | |
|---------|------|-------|-------|--|--------|---------|---------|----|--------|-------|--|--|--|--|--|--|--|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % SALES | FOOTAGE | | | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | DEPTH | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | Faults at 44.5-46' - clay gouge. | | | | | | | | | | | | | | | |
| 73.8 | 75.0 | 1.3 | 1.3 | Basaltic Dyke. C-dark green-gray. T-porphyritic, small phenos (1-2 mm) of plagioclase, quartz and hornblende. Fine grained aphanitic plagioclase matrix. M-plagioclase 73%, quartz 8%, hornblende (mafics) 7%, m-calcite 5% (stringers), zeolites (red stringers) 5%, other 2%. A-none. B-5. | | | | | | | | | | | | | | | |
| | | | | BOTTOM OF HOLE. | | | | | | | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: S83-14 LENGTH: 195'
 LOCATION: Vein A DIP: -43°53'
 LATITUDE: 4759.9n (mine grid) DEPARTURE: 788.6e (mine grid)
 ELEVATION: 5595.9' AZIMUTH: 86°21' (mine grid)
 HOLE STARTED: 1983 June 27 HOLE COMPLETED: 1983 June 28

| ACID B/OR TRO - PARI TESTS | | | | | |
|----------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 185' | -44° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 3
 HOLE NUMBER: S83-14
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: 80
 % CORE RECOVERY: 67%
 LOGGED BY: P. Webb

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|--|--------|------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVRT | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRT | | | | |
| | | | | C-colour, T-texture, M-major minerals, I of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | |
| 0.0 | 40.0 | 40.0 | 0.0 | Overburden. | | | | | | | | | | |
| 40.0 | 101.8 | 61.8 | 39.1 | Quartz-eye-Feldspar-Porphyry. C-light green-grey; T-porphyr- itic, 1-10 mm, anhedral to euhedral phenos of plagioclase in fine grained aphanitic groundmass. Also, 1-5 mm euhedral to anhedral quartz-eye phenocrysts. M-plagioclase 60%, quartz 20%, kaolinite 10%; m-pyrite 6%, hematite (staining) 2%, white stringers (H3) 1/2 of zeolite (?) 1%, quartz stringers 1%. A-argillic alteration of plagioclase phenocrysts to kaolinite is pervasive though not complete. Groundmass is slightly altered adjacent to some stringers of zeolite and quartz. B-4 1/2. Faults at 46.7-47' - gravel and clay @ 45° & 25° to C.A. 53.7-54.4' - gravel @ 50° to C.A. 91-98' - clay (?) - no core. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-14

SHEET NUMBER 2 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton | | ASSAYS | |
|---------|-------|-------|-------|---|--------|------------|---------|-------|--------|-------|--------|------|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FOOTAGE | | | | Au | Ag |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | |
| | | | | Faults at 100-101.8' - clay @ 50° to C.A. | | | | | | | | |
| 101.8 | 104.0 | 2.2 | 2.2 | Basaltic Dyke. U.C. @ 50° to C.A. L.C. @ 60° to C.A. C-dark grey-black. T-fine grained. Black mafic mineral forms small (0.5 mm) specks in dark grey aphanitic matrix. M-plagioclase 70%, mafic 20%; m-zeolite (red) 5%, zeolite(?) (white) 5%. A-none. H-4. | | | | | | | | |
| 104.0 | 131.0 | 27.0 | 13.8 | Phenoandesite. C-light green-grey. T-porphyrific, small (1-3 mm), euhedral to anhedral phenos of tremolite in matrix of fine grained plagioclase, light coloured due to argillic alteration. Quartz stringers cut through much of this section, particularly between 104-105'. M-plagioclase 55%, quartz 10%, tremolite (amphibole) 20%; m-pyrite 10%, kaolinite 5%, zeolite (white stringers) trace. A-this is actually a phenoandesite which has undergone argillic alteration. The mine term for this rock is a phenodacite though. Quartz stringers are most abundant in the upper and lower portions of this section. H-4 1/2 - in altered areas, up to 7 close to quartz stringers. | 5585 | 10% | 128.0 | 131.0 | 3.0 | 1.5 | 0.041 | 3.37 |
| 131.0 | 140.0 | 9.0 | 5.6 | Quartz Vein. C-light grey. T-massive. M-quartz 85%; m-kaolinite (clay) 5%; pyrite 5%, chalcopyrite 3%, acanthite 1%, other metallics 1%. A-none; some faulting. H-7. | 5586 | 15% | 131.0 | 134.0 | 3.0 | 1.5 | 0.321 | 3.16 |
| | | | | | 5587 | 15% | 134.0 | 137.0 | 3.0 | 3.0 | 0.020 | 0.65 |
| | | | | | 5588 | 15% | 137.0 | 140.0 | 3.0 | 1.1 | 0.006 | 0.34 |
| | | | | Fault at 133.8-135.5' - gravel and clay gouge @ 50° to C.A. | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-14

SHEET NUMBER 3 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | | | |
|---------|-------|-------|-------|--|--------|------------|-----------|-------|---------------|-------|-------|------|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % DIAMETER | PROCESSES | | | | Au | Ag | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | | | |
| 140.0 | 143.5 | 3.5 | 2.3 | Silicified Phenoandesite. C-light grey. T-porphyrific. The 1-4 mm phenos of amphibole have been silicified. They are subhedral to anhedral. Where not silicified the groundmass has been kaolinitized. M-quartz 60%, kaolinite 20%, plagioclase 10%; m-pyrite 10%. A-silicification, argillic alteration. H-4-7. | 5589 | 10% | 140.0 | 143.5 | 3.5 | 2.3 | 0.007 | 0.22 | | |
| 143.5 | 195.0 | 51.5 | 41.1 | Phenoandesite. C-medium to dark green-grey. T-porphyrific, 1-4 mm euhedral to anhedral phenocrysts of amphibole (black) in a fine grained matrix. M-plagioclase 65%, gypsum 10%, amphibole 20%; m-pyrite 5%. A-the phenocrysts have been altered to a clay material in some portions of this section. H-4. * Between 150' and 156' this unit has been brecciated, and a clay-gypsum mixture forms the cement. There are many faults between 156' and 171' and this is likely a shear zone. Faults at 155.6-156' - gouge @ 55° to C.A. 156-166' - fault zone at 35° to C.A. 175-175.4' - clay gouge @ 70° to C.A. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: 583-15 LENGTH: 304'
 LOCATION: Vein A DIP: -67° 11'
 LATITUDE: 5449.6n (mine grid) DEPARTURE: 484.5e (mine grid)
 ELEVATION: 5796.7' AZIMUTH: 91°09'
 HOLE STARTED: 1983 June 29 HOLE COMPLETED: 1983 July 1

| ACID &/OR TRO - PARI TESTS | | | | | |
|----------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 291' | -66° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 5
 HOLE NUMBER: 583-15
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: HQ
 % CORE RECOVERY: 98%
 LOGGED BY: P. Webb

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|---|--------|------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVRT | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRT | | | | |
| | | | | C-colour, T-texture, M-major minerals, Z of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | |
| 0.0 | 22.0 | 22.0 | 0.0 | Overburden. | | | | | | | | | | |
| 22.0 | 69.5 | 47.5 | 46.7 | Phenoandesite. C-dark green-grey. T-porphyrific, 1-8 mm anhedral to euhedral phenos of black amphibole in fine grained aphanitic matrix. M-plagioclase 53%, amphibole 10%, quartz 20%; m-pyrite 10%, chlorite 5%, calcite (stringers) 2%. A-this whole section has been intensely silicified. Many of the amphibole phenos have been replaced by chlorite and/or pyrite. H-5. | | | | | | | | | | |
| 69.5 | 124.8 | 55.3 | 54.8 | Dacite. C-colour. T-porphyrific to massive, 1-2 mm euhedral to anhedral phenos of plagioclase; some 2-4 mm euhedral quartz eyes (in small section); some scattered 1-2 mm euhedral amphibole phenos also. M-plagioclase 65%, quartz 20%; m-amphibole 5%, pyrite 5%, chlorite 3%, calcite | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-15

SHEET NUMBER 2 OF 5

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | |
|---------|-------|-------|------|--|--------|---------------|---------|-------|--------|-----|--------|-------|--|
| FROM | TO | WIDTH | RCYR | | NUMBER | % SULFIDES | FOOTAGE | | oz/ton | | ASSAYS | | |
| | | | | | | FROM | TO | WIDTH | RCYR | Au | Ag | | |
| | | | | (stringers) 2X. A-the plagioclase phenos show signs of argillic alteration and most of the groundmass has been silicified. H-5-6. | | | | | | | | | |
| 124.8 | 125.2 | 0.4 | 0.4 | Quartz Vein. C-medium grey. T-massive. M-quartz 90X; m-pyrite 7X, chalcopyrite 2X, other 1X. A-none; H-7. | 5590 | 10X | 124.8 | 125.2 | 0.4 | 0.4 | 0.003 | 0.01 | |
| 125.2 | 126.2 | 1.0 | 1.0 | Dacite. as above 69.3-124.8'. | | | | | | | | | |
| 126.2 | 150.9 | 24.7 | 24.7 | Quartz-eye-Feldspar-Porphyry. C-light green-grey. T-porphyrific; 1-4 mm anhedral to euhedral phenos of plagioclase and 1-5 mm euhedral to anhedral quartz-'eye' phenocrysts in a light coloured, argillically altered and slightly silicified groundmass. M-plagioclase 70X, quartz 23X; m-pyrite 2X, kaolinite 5X. A-slight silicification and the phenos of plagioclase have been argillically altered to a moderate degree. H-4 1/2-5. Faults at 129.2-129.4' - gravel (breccia) @ 25° to C.A. 131.4-131.7' - clay and gravel @ 80° to C.A. | | | | | | | | | |
| 150.9 | 153.0 | 2.1 | 2.1 | Quartz Vein. C-medium grey. T-massive. M-quartz 90X; m-pyrite 4X, chalcopyrite 3X, acanthite 3X. A-none; H-7. | 5591 | 10X | 150.9 | 153.0 | 2.1 | 2.1 | 0.003 | <0.01 | |
| 153.0 | 160.7 | 7.7 | 7.7 | Phenoandesite. C-dark green-grey. T-porphyrific, 1-5 mm euhedral to anhedral phenos of black amphibole in a lighter | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-15

SHEET NUMBER 3 OF 5

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | | | | | | |
|---------|-------|-------|-------|---|--------|--------------|---------|-------|---------------|-------|-------|-------|--|--|--|--|--|
| FROM | TO | WIDTH | RCVFT | | NUMBER | % S&F/GES | FOOTAGE | | | | Au | Ag | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVFT | | | | | | | |
| | | | | aphanitic groundmass. M-plagioclase 60%, amphibole 20%; m-pyrite 10%, quartz 10%. A-this unit has been moderately silicified quartz and pyrite form stringers with quartz on both walls and inside filled with pyrite. Fault at 160.3-160.7' - clay and gravel. | | | | | | | | | | | | | |
| 160.7 | 161.6 | 0.9 | 0.9 | Quartz Vein. C-medium grey. T-massive. M-quartz 90%; m-pyrite 7%, chalcopyrite 1. A-none. H-7. | 5592 | 10% | 160.7 | 161.6 | 0.9 | 0.9 | 0.002 | <0.01 | | | | | |
| 161.6 | 172.0 | 10.4 | 10.4 | Phenoandesite. as above 153-160.7'. Pyrite in quartz stringers near quartz veins at top and bottom of this sec- tion; disseminated pyrite throughout. | | | | | | | | | | | | | |
| 172.0 | 173.3 | 1.3 | 1.3 | Quartz Vein. as above 160.7-161.6'. | 5593 | 10% | 172.0 | 173.3 | 1.3 | 1.3 | 0.002 | <0.01 | | | | | |
| 173.3 | 203.0 | 29.7 | 26.0 | Phenoandesite. as above 153-160.7'. | | | | | | | | | | | | | |
| 203.0 | 205.5 | 2.5 | 2.5 | Quartz Vein. U.C. @ 10" to C.A. L.C. @ 14" to C.A. C-light grey. T-brecciated, faulted. M-quartz 85%; m-pyrite 7%, chalcopyrite 3%, kaolinite 5%. A-none, faulted though. H-7. Fault between 203.8-204.2' - clay gouge and gravel | 5594 | 10% | 203.0 | 205.5 | 2.5 | 2.5 | 0.004 | 0.10 | | | | | |
| 205.5 | 211.5 | 6.0 | 6.0 | Syenite. C-medium green-grey. T-porphyrific, 1-4 mm euhedral to anhedral plagioclase phenos in fine grained | | | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-15

SHEET NUMBER 4 OF 5

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | |
|---------|-------|-------|-------|--|--------|-------------|---------|-------|---------------|-----|-------|------|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % RECOVERED | FOOTAGE | | Au | Ag | | |
| | | | | | | | FROM | TO | | | | |
| | | | | aphanitic groundmass. M-plagioclase 85%, mafics 5%; m-pyrite 5%, quartz (stringers and silicified groundmass adjacent to stringers) 5%. A-silicification due to quartz stringers. H-4 1/2-5. | | | | | | | | |
| 211.5 | 215.2 | 3.7 | 3.7 | Andesite. C-dark green. T-aphanitic-fine grained plagioclase and mafics. M-plagioclase 83%, mafics 10% (black); m-pyrite 2%, quartz 5%. A-slightly silicified. H-4 1/2-5. | | | | | | | | |
| 215.2 | 221.0 | 5.8 | 5.8 | Dacite Feldspar Porphyry. C-medium grey-beige. T-porphyrific - small, 1-2 mm phenos of anhedral to euhedral phenos of plagioclase and quartz. M-plagioclase 70%, quartz 20%; m-pyrite 5%, goethite 5%. A-intensely silicified. H-5. Fault at 220.8-221' - clay gouge and gravel @ 50° to C.A. | | | | | | | | |
| 221.0 | 223.0 | 2.0 | 2.0 | Quartz Vein, as above 203-205.5' (some Dacite Feldspar Porphyry in this sample). | 5595 | 10% | 221.0 | 223.0 | 2.0 | 2.0 | 0.004 | 0.05 |
| 223.0 | 290.5 | 67.5 | 67.5 | Dacite Feldspar Porphyry, as above 215.2-221. Fault at 260-261.4' - clay gouge @ 60° to C.A. Between 241.4-266' the phenos of plagioclase are as large as 5 mm (1-5 mm) and the colour of the groundmass is darker (dark grey). This type of rock is also found between 279 and 290.5'. Fault at 275.4-275.6' - clay and gravel @ 60° to C.A. | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER 583-15

SHEET NUMBER 5 of 5

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | |
|---------|-------|-------|-------|---|--------|------------|---------|----|--------|--|--|--|
| FROM | TO | WIDTH | RECVY | | NUMBER | % ANALYSES | FOOTAGE | | | | | |
| | | | | | | | FROM | TO | | | | |
| 290.5 | 304.0 | 13.5 | 13.5 | Phenoandesite. as above 22-69.5' (phenos 1-5 mm). | | | | | | | | |
| | | | | BOTTOM OF HOLE. | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: S83-16 LENGTH: 407'
 LOCATION: Vein A DIP: -79°06'
 LATITUDE: 5449.6n (mine grid) DEPARTURE: 483.9e (mine grid)
 ELEVATION: 5795.7' AZIMUTH: 93°57' (mine grid)
 HOLE STARTED: 1983 July 1 HOLE COMPLETED: 1983 July 3

| ACID &/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 407' | -78° | | | | |
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SHEET No. 1 OF 6
 HOLE NUMBER: S83-16
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 96%
 LOGGED BY: P. Webb

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | |
|---------|-------|-------|-------|--|--------|------------|------|----|--------|-------|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | | | | | |
| | | | | C-colour, T-texture, M-major minerals, X of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | | |
| 0.0 | 20.0 | 20.0 | 0.0 | Overburden. | | | | | | | | | | | |
| 20.0 | 140.0 | 120.0 | 112.3 | Phenoandesite. C-dark grey. T-porphyrific. 1-5 mm euhedral to anhedral phenos of black amphibole in a fine grained aphanitic groundmass. M-plagioclase 70%, amphibole 20%; m-pyrite 5%, quartz 5%. A-the top portion of this unit, from 20-56' has been subjected to surface groundwater alteration and therefore the black phenos of amphibole have been altered to a greenish mineral-chlorite? or penninite? The groundmass does not appear to be affected by this alteration. H-4 1/2. Faults at 42.4-42.6' - clay gouge @ 40° to C.A. 64-65' - gravel and clay gouge @ 50° to C.A. 119-119.1' - clay gouge @ 20° to C.A. 121' - 0.3" thick, clay filled @ 50° to C.A. | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 583-16

 SHEET NUMBER 2 OF 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | | | |
|---------|-------|-------|-------|---|--------|------------|---------|-------|--------|-------|--------|------|--------|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FOOTAGE | | | | oz/ton | | ASSAYS | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | Au | Ag | | | | | |
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| 140.0 | 142.5 | 2.5 | 2.2 | Quartz Vein. C-light-medium grey. T-brecciated - clasts of phenoandesite in quartz. M-quartz 80%; w-pyrite 8%, kaolinite 4%, plagioclase 5%, chalcopyrite 3%. A-kaolinization of phenoandesite clasts. H-7. | 5596 | 11% | 140.0 | 142.5 | 2.5 | 2.2 | 0.004 | 0.10 | | | | | |
| | | | | Faults at 140.4-140.9' - clay and gravel @ 55° to C.A. 141.5-141.8' - gravel @ 55° to C.A. | | | | | | | | | | | | | |
| 142.5 | 145.4 | 2.9 | 2.9 | Silicified Phenoandesite, as above 20-140' but intensely silicified. C-medium grey-green. H-5 1/2-6. | 5597 | 8% | 142.5 | 145.4 | 2.9 | 2.9 | 0.003 | 0.01 | | | | | |
| | | | | Faults at 145.2-145.4' - clay gouge. | | | | | | | | | | | | | |
| 145.4 | 179.0 | 33.6 | 33.6 | Quartz-eye-Feldspar-Porphyry. C-light to medium green-grey. | | | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-16

SHEET NUMBER 3 of 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | oz/ton ASSAYS | | | |
|---------|-------|-------|-------|---|--------|------------|---------|-------|-------|-----|---------------|--------|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SIZES | FOOTAGE | | | | Au | Ag | | |
| | | | | | | FROM | TO | WIDTH | RCVRY | | | | | |
| | | | | T-porphyrific, 1-4 mm euhedral to anhedral phenos of plagioclase, 2-4 mm euhedral to anhedral quartz-'eyes' in fine grained, silicified groundmass. M-plagioclase 62%, quartz 25%; m-pyrite 5%, kaolinite 5%, chlorite 3%. A-intensely silicified; argillic alteration in some sections, some propylization. H-6-6 1/2. | 5598 | 5% | 177.0 | 179.0 | 2.0 | 2.0 | 0.004 | <0.001 | | |
| | | | | Faults at 174.8-175' - gravel and clay @ 50° to C.A. | | | | | | | | | | |
| 179.0 | 179.9 | 0.9 | 0.9 | Quartz Vein. C-light grey, T-massive. M-quartz 90%; m-pyrite 6%, chalcopyrite 2%, scannite 2%, H-7. | 5599 | 10% | 179.0 | 179.9 | 0.9 | 0.9 | 0.004 | <0.001 | | |
| 179.9 | 193.0 | 13.1 | 13.1 | Phenoandesite. as above 20-140'. C-dark grey-black. Weakly magnetic. | | | | | | | | | | |
| 193.0 | 197.8 | 4.8 | 4.8 | Quartz-Dacite Breccia. C-medium-dark grey-brown. T-brecciated; angular clasts (5-40 mm) of massive quartz and dacite in a quartz matrix. A-dacite clasts have been silicified. H-6-7. | | | | | | | | | | |
| | | | | Fault at 196-196.1 clay gouge and gravel @ 60° to C.A. | | | | | | | | | | |
| 197.8 | 201.0 | 3.2 | 3.2 | Quartz Vein. C-dark grey. T-brecciated, slightly massive. M-quartz 87%; m-pyrite 10%, plagioclase (in breccia clasts) 3%. | 5600 | 10% | 197.8 | 201.0 | 3.2 | 3.2 | 0.001 | 0.001 | | |
| 201.0 | 214.0 | 13.0 | 13.0 | Dacite Feldspar Porphyry. C-medium grey-green. T-porphyrific, | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-16

SHEET NUMBER 4 OF 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|---|--------|----------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCYRT | | NUMBER | % SOLIDS | FROM | TO | WIDTH | RCYRT | | | | |
| | | | | 1-10 mm euhedral to anhedral phenos of plagioclase in a fine grained matrix. M-plagioclase 75%, quartz 10%; m-pyrite 5%, epidote 7%, kaolinite 3%. A-the phenos show signs of an earlier argillic alteration with the present propylitization a later overprint. H-4 1/2. | | | | | | | | | | |
| 214.0 | 215.8 | 1.8 | 1.8 | Quartz-Dacite Breccia. U.C. @ 40° to C.A. L.C. @ 20° to C.A. as above 192-197.8'. | | | | | | | | | | |
| 215.8 | 228.5 | 13.0 | 13.0 | Quartz-eye-Feldspar-Porphyry. as above 145.4-179'. A-intense propylitization; quartz stringers. | | | | | | | | | | |
| 228.5 | 233.4 | 4.9 | 4.9 | Dacite Feldspar Porphyry. as above 201-214'. | | | | | | | | | | |
| 233.4 | 240.0 | 6.6 | 5.8 | Phenoandesite. as above 20-140'. Fault at 233.3-233.5' - clay gouge and gravel. | | | | | | | | | | |
| 240.0 | 299.0 | 59.0 | 56.1 | Dacite Feldspar Porphyry. as above 228.5-233.4'. Faults at 248.2-248.5' - silicified between 270-272.5' (small veinlet). | | | | | | | | | | |
| 299.0 | 341.0 | 42.0 | 41.2 | Quartz-eye-Feldspar-Porphyry. as above 145.4-179'. light grey colour between 304-311' due to silicification adjacent to small quartz veinlets. Medium brown-grey otherwise. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-16

SHEET NUMBER 5 OF 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | | | | |
|---------|-------|-------|-------|--|--------|------------|---------|-------|---------------|-------|-------|------|--|--|--|
| FROM | TO | WIDTH | RCVRT | | NUMBER | % SULFIDES | FOOTAGE | | | | Au | Ag | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRT | | | | | |
| | | | | Faults at 317-317.2 - gravel and clay gouge @ 80° to C.A. 320-320.6' - gravel. This unit takes on a very dark colour between 331-332.2' - almost black. Between 332.2' and 341' there are many small quartz veinlets that lighten the colour again. | | | | | | | | | | | |
| 341.0 | 349.0 | 8.0 | 8.0 | Phenoandesite. as above 20-140'. Colour is very dark-near black. U.C. is faulted (narrow). L.C. fault at 50° to C.A. Fault at 344-344.3' - clay & gravel @ 45° to C.A. | | | | | | | | | | | |
| 349.0 | 369.5 | 20.5 | 18.1 | Quartz-eye-Feldspar-Porphyry. as above 299-341'. Large fault zone from 349-354' filled with clay gouge and breccia @ 40° to C.A. | | | | | | | | | | | |
| 369.5 | 371.0 | 1.5 | 1.5 | Quartz Vein. as above 179-179.9. T-massive. | 5001 | 10% | 369.5 | 371.0 | 1.5 | 1.5 | 0.001 | 0.03 | | | |
| 371.0 | 373.5 | 2.5 | 2.5 | Quartz-eye-Feldspar-Porphyry. as above 349-369.5'. Intensely silicified. Faults L.C. at 373.3-373.5' filled with clay gouge @ 60° to C.A. | | | | | | | | | | | |
| 373.5 | 405.0 | 31.5 | 31.5 | Phenoandesite. as above 20-140'. Faults at 380-381' - clay gouge. | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 383-16

SHEET NUMBER 6 OF 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | |
|---------|-------|-------|-------|---|--------|------------|---------|----|---------|---|---|---|---|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % DIAMETER | FOOTAGE | | GRAVITY | G | S | I | O |
| | | | | | | | FROM | TO | | | | | |
| | | | | Faults at 382-382.2' - clay gouge @ 15° to C.A. Matrix is a medium grey colour. Calcite stringers. | | | | | | | | | |
| 405.0 | 407.0 | 2.0 | 2.0 | Quartz-eye-Feldspar-Porphyry. as above 371-373.5'. | | | | | | | | | |
| | | | | FOOT OF HOLE. | | | | | | | | | |
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DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: 583-17 LENGTH: 396'
 LOCATION: Vein E DIP: -73°41'50"
 LATITUDE: 5530.95n (mine grid) DEPARTURE: 493.89e (mine grid)
 ELEVATION: 5793.26' AZIMUTH: 91°56'32" (mine grid)
 HOLE STARTED: 1983 July 3 HOLE COMPLETED: 1983 July 5

| ACID B/OR TRO - PARI TESTS | | | | | |
|----------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 396' | -72° | | | | |
| | | | | | |
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SHEET No. 1 OF: 6
 HOLE NUMBER: 583-17
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: HQ
 % CORE RECOVERY: 82%
 LOGGED BY: T. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | |
|---------|------|-------|-------|--|--------|------------|------|----|--------|-------|--|--|--|--|--|
| FROM | TO | WIDTH | DEPTH | | NUMBER | % SULFIDES | FROM | TO | WIDTH | DEPTH | | | | | |
| | | | | C-colour, T-texture, M-major minerals, X of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | | |
| 0.0 | 20.0 | 20.0 | 0.0 | Overburden. Casing reamed to 20'. | | | | | | | | | | | |
| 20.0 | 72.0 | 52.0 | 52.0 | Phenoandesite. C-dark to medium green, mottled. T-porphyr- itic; 1-5 mm dark green to black chloritized amphiboles, euhedral to anhedral aphanitic groundmass. M-plagioclase 50%, amphibole 25%, chlorite 15%; m-pyrite 5%, limonite on fractures 3%. A-chlorite. H-4 1/2. Faults at 27' @ 75° to C.A. 38-39' @ 30° & 15° to C.A. L.C. faulted at 60° to C.A. | | | | | | | | | | | |
| 72.0 | 95.0 | 23.0 | 22.9 | Quartz-eye-Feldspar-Porphyry. C-grey and beige mottled; T-porphyr- itic; 0.5-2 mm white and beige plagioclase phenos; mostly anhedral, some euhedral; in grey aphanitic groundmass 0.5-1 mm anhedral quartz eyes; much smaller than other | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: SB3-17

SHEET NUMBER 2 OF 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|---|--------|----------|--------------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | REGRY | | NUMBER | % QUARTZ | FOOTAGE FROM | TO | WIDTH | REGRY | | | | |
| | | | | phases of Q.F.P. to south of Vein A. A-kaolinization of plagioclase; sericite alteration as greenish blebs. H-4 1/2-5. Faults at 76' @ 35° to C.A. 2" clay gouge. 80.5' @ 80° to C.A. 3" clay gouge. 92' @ 7° attitude. | | | | | | | | | | |
| 95.0 | 132.0 | 37.0 | 30.8 | Dacite (Kaolinized). C-light to medium grey. T-fine grained crystalline to massive. Appears to be gradational from Q.F.P. above. M-plagioclase 50%, kaolinite 20%, quartz 15%, m-zeolites 2%, pyrite 3%, clay gouge 5%. A-intensely faulted and broken and kaolinized. H-4 1/2. Faults at 107-111' @ 15° & 30° to C.A.; crushed zone. 113.5-124' @ 15° to C.A. Highly crushed and clay gouged core. | | | | | | | | | | |
| 132.0 | 152.0 | 20.0 | 16.0 | Phenoandesite. as above 20-72'. Very crushed and gouged. Faults at 134-136'; chlorite gouge. 141-144'; all clay-chlorite gouge at 15-20° to C.A. Occasional 1/4" Q.V.'s at 144-148'; white with Py. | | | | | | | | | | |
| 152.0 | 156.0 | 6.0 | 2.4 | Dacite. C-beige. T-sphanitic, fine grained, occasional 1-2 mm wide q.v.'s with Pyrite. M-plagioclase 55%, quartz 20%, kaolinite 20%; m-pyrite 3-5%. A-kaolinization. H-5 1/2. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-17

SHEET NUMBER 3 OF 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|---|--------|---------------|---------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVFT | | NUMBER | % GAL/100L | FOOTAGE | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVFT | | | | |
| 156.0 | 173.0 | 17.0 | 13.1 | Phenoandesite. as above; highly crushed and faulted. Faults at 162-165.5' @ 30° & 45° to C.A. 170.5-171' @ 30° to C.A. clay gouge. | | | | | | | | | | |
| 173.0 | 175.0 | 2.0 | 2.0 | Dacite. C-brown-beige. T-fine grained aphanitic to massive with occasional white quartz stringers to 5 mm wide. M-plagioclase 60%, quartz 20%, clay 15%; m-pyrite 3-5%, zeolites trace. A-kaolinite. H-4 1/2-5. Fault at 173.5-174.5 at 10° to C.A. | | | | | | | | | | |
| 175.0 | 181.0 | 6.0 | 3.5 | Andesite (possible dyke). C-dark green. T-fine grained with clay-chlorite groundmass. M-plagioclase 40%, chlorite 20%, clay 25%; m-zeolites 5%, calcite 5%. A-chloritization. H-4. Faults at 181' (L.C.) @ 80° to C.A. | | | | | | | | | | |
| 181.0 | 199.5 | 8.5 | 5.0 | Dacite (Silicified). C-beige (grey mottled). T-fine grained beige and white plagioclases in aphanitic beige-grey felsic groundmass. Frequent quartz patches and stringers. M-plagioclase 50%, quartz 20%, kaolinite 20%; m-calcite-zeolites 5%, pyrite 3%. A-kaolinitization of feldspars. H-4 1/2. Faults at 199.5' @ 30° to C.A. with slicks at 45°. | | | | | | | | | | |
| 199.5 | 214.0 | 4.5 | 2.7 | Shear Zone. C-dark green chlorite gouge; crushed to 1/2" | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER 583-17

SHEET NUMBER 5 OF 6

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | |
|---------|-------|-------|-------|--|--------|------------|------|----|--------|-------|--|--|--|--|--|
| FROM | TO | WIDTH | RCVKT | | NUMBER | % SURFACES | FROM | TO | WIDTH | RCVKT | | | | | |
| 270.5 | 295.2 | 15.2 | 15.2 | Dacite-Feldspar-Porphry. as above (245.5-269'). | | | | | | | | | | | |
| 295.2 | 298.5 | 3.3 | 3.3 | Andesite; dyke? as above 269-270.5'. | | | | | | | | | | | |
| 298.5 | 317.0 | 18.5 | 18.5 | Dacite-Feldspar-Porphry; as above 245.5-269' with bleached zones from 312-314' and pink (hematite) stained plagioclase where kaolinized and green where sericitized. | | | | | | | | | | | |
| 317.0 | 319.5 | 2.5 | 2.5 | Syenite (dyke?). C-dark brown, white speckled. T-medium stained crystalline, 3-6 mm cream coloured plagioclases in brown felsic groundmass. M-plagioclase phenos 25%, and groundmass 35%, hornblende 6%, orthoclase 25%; m-pyrite after hornblende 2%. A-relatively fresh. H-5 -5 1/2. | | | | | | | | | | | |
| 319.5 | 365.0 | 45.5 | 35.5 | Dacitic Feldspar Porphyry. Similar to before but more grey in colour. Broken into <2 1/2" long pieces. Brown kaolinite patches rimming most of the c.g. plagioclases rims about 1-3 mm wide. Faults at 333' - crushed core. 350-351.5' - crushed and gouged. | | | | | | | | | | | |
| 365.0 | 396.0 | 31.0 | 27.0 | Andesite (Kaolinitized). C-medium to light green (mottled). T-massive to v.f.g. crystalline. Phenos of piag. rarely visible to eye. M-plagioclase 40%, kaolinite 30%, sericite 15%; m-pyrite 5%, chlorite 5%, zeolites 3%. A-kaolinitiza- | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: S83-18 LENGTH: 200'
 LOCATION: Vein E DIP: -45°06'
 LATITUDE: 5633.7n (mine grid) DEPARTURE: 354.8e (mine grid)
 ELEVATION: 5784.9' AZIMUTH: 55°04' (mine grid)
 HOLE STARTED: 1983 July 5 HOLE COMPLETED: 1983 July 6

| ACID B/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 150' | -45° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 3
 HOLE NUMBER: S83-18
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 84%
 LOGGED BY: T. Brown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | |
|---------|------|-------|-------|--|--------|------------|--------------|------------|---------------|-------|-------|------|
| FROM | TO | WIDTH | RCVMT | | NUMBER | % SULFIDES | FOOTAGE FROM | FOOTAGE TO | WIDTH | RCVMT | Au | Ag |
| | | | | C-colour, T-texture, M-major minerals, Σ of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | |
| 0.0 | 23.0 | 23.0 | 0.5 | Overburden. Casing reamed to 22". | | | | | | | | |
| 23.0 | 46.0 | 23.0 | 16.5 | Phenoandesite. C-dark green (with much limonite on fractures). I-porphyritic; 1-4 mm black amphiboles and 1-2 mm plagioclase laths in medium green rusty groundmass. M-plagioclase 60%, amphiboles 25%, chlorite 10%; m-pyrite 3%, limonite 5%, zeolites, trace. A-propylitization. H-6 1/2. Faults at 30-34' @ 20° to C.A. & 80° to C.A. causing highly crushed core. Faults at 46' with rusty clay gouge 2" thick. | | | | | | | | |
| 46.0 | 65.0 | 19.0 | 14.5 | Silicified Phenoandesite. As above with frequent 1/2-3" quartz veins at 30° and 45° to C.A. Quartz veins about 6" apart. Phenoandesite bleached along veins for 1/4-1/2" either side. Q.Vs. occasionally contain grey sulphides & pyrite. | 5002 | 5% | 46.0 | 55.0 | 9.0 | 4.5 | 0.002 | 0.12 |
| | | | | | 5003 | 5% | 55.0 | 65.0 | 10.0 | 10.0 | 0.002 | 0.07 |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 583-18

 SHEET NUMBER 2 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | |
|---------|-------|-------|------|---|---|-------------|---------|--------|---------|--|--------|--|--|--|
| PROF | TO | DEPTH | RCFT | | NUMBER | % OXIDES | PACKAGE | | | | | | | |
| | | | | | | FROM | TO | WEIGHT | REMARKS | | | | | |
| | | | | | Faults at 50' @ 30° to C.A. 55' @ 7 attitude. 63.5' @ 80° to C.A. | | | | | | | | | |
| 65.0 | 93.3 | 28.3 | 28.3 | Phenoandesite. As above 23-46'; with smaller amphibole phenocrysts. Core highly broken and oxidized. Zeolite filled shear zone at 88-89' @ 30° to C.A. L.C. of Phenoandesite at 25° to C.A. | | | | | | | | | | |
| 93.3 | 111.0 | 17.7 | 17.5 | Dacite Tuff. C-grey-green-beige. T-tuffaceous clasts to 3" consisting of grey-green fine grained dacite feldspar porphyry and beige clasts of patches of massive dacite and/or kaolinized dacite. M-plagioclase 60%, quartz 15%, kaolinite 10%; m-pyrite 5%, zeolites 5%. A-kaolinitization. H-4 1/2-5. Faults at 97.5' @ 85° to C.A. 100.4' @ 60° to C.A. 104.8' with clay gouge. 107.5-108' with crushed-gouged rock. | | | | | | | | | | |
| 111.0 | 180.0 | 69.0 | 58.5 | Phenoandesite. As above 23-46'. Quite fresh, without oxidization. Core broken to <1 1/2" pieces. Probable shear zone to 126'. Fault gouge at 112-116'. No attitude 118-119' @ 25° to C.A. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: 583-19 LENGTH: 151'
 LOCATION: Vein E DIP: -54°37'
 LATITUDE: 5633.3n (mine grid) DEPARTURE: 554.3e (mine grid)
 ELEVATION: 5784.3' AZIMUTH: 55°01'46" (mine grid)
 HOLE STARTED: 1983 July 6 HOLE COMPLETED: 1983 July 7

| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
|---------|-----|---------|---------|-----|---------|
| -150' | 52° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 4
 HOLE NUMBER: 583-19
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 93%
 LOGGED BY: T. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | oz/ton | | ASSAYS | | |
|---------|------|-------|-------|--|--------|-------------|------|------|-------|--------|-------|--------|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULPHIDES | FROM | TO | WIDTH | RCVRY | Au | Ag | | |
| | | | | | | | | | | | | | | |
| 0.0 | 30.0 | 30.0 | 0.0 | Overburden. Casing reamed to 30 feet. | | | | | | | | | | |
| 30.0 | 61.0 | 31.0 | 25.5 | Phenoandesite. C-dark to light green, with rusty limonite on all fractures. T-porphyrific; dark green 1-4 mm subhedral to euhedral amphibole phenos and occasional 1-2 mm white to grey plagioclases in dark green to grey aphanitic groundmass. M-plagioclase 60%, amphiboles 20%, chlorite 10%; m-pyrite 5%, limonite 5%, clay 5%. A-moderately propyliticized minor bleaching from 44-47'; highly oxidized core. M-4, 1/2. Faults at 48-53' @ 70-80°; rusty limonitic gouge. 60.5-61' @ 70° to C.A. | | | | | | | | | | |
| 61.0 | 69.5 | 8.5 | 8.5 | As above with frequent 3-8 mm quartz veinlets at 30° & 60° to C.A. every 2-6". Veinlets contain fine grained pyrite and grey sulphide. | 5005 | 3-5% | 61.0 | 69.5 | 8.5 | 8.5 | 0.002 | 0.13 | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-19

SHEET NUMBER 2 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | | | | |
|---------|------|-------|-------|---|--------|------------|------|------|---------------|-------|-------|------|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | Au | Ag | | | |
| 69.5 | 71.5 | 2.0 | 2.0 | Quartz Vein. C-white with yellow limonite on fractures. T-massive, vuggy 5%. M-quartz 90%; m-pyrite 3%, clay trace. limonite trace, vugs 5%. H-7. Core broken to <1" pieces. H.W. contact @ 70° to C.A. with grit and clay gouge. | 5006 | 5% | 69.5 | 71.5 | 2.0 | 2.0 | 0.002 | 0.13 | | | |
| 71.5 | 73.5 | 2.0 | 2.0 | As above 61-69.5'. | 5007 | 5% | 71.5 | 73.5 | 2.0 | 2.0 | 0.002 | 0.23 | | | |
| 73.5 | 81.5 | 8.0 | 8.0 | Andesite Feldspar Porphyry Tuff. C-medium grey to green with beige mottling. T-tuffaceous clasts to 2" across consisting of 3-5 mm long plag. laths in grey-beige aphanitic ground- mass all within dark green massive andesite matrix. M-plagioclase 60%, mafics 10%, chlorite 10%, rock fragments 5%; m-pyrite 5%, zeolites 5%, limonite 5%. A-moderate propylitization. H-4 1/2. | | | | | | | | | | | |
| 81.5 | 86.0 | 4.5 | 4.5 | Phenoandesite. C-dark green. T-porphyrific (as above 30-61'). No limonite on fractures. Fault at 84.8-85.2' with clay gouge @ 30° to C.A. | | | | | | | | | | | |
| 86.0 | 90.5 | 4.5 | 4.5 | Dacite Feldspar Porphyry Tuff. C-dark green with beige and cream mottling. T-porphyrific; patches of plagioclase porphyry with laths of <1-3 mm length in dark green ground- mass all within green-beige aphanitic groundmass. M-plagio- class 60%, quartz 10% (as patches and occasional stringer <2 mm), pyrite 10%, chlorite 10%; m-zeolites trace, kaolinite | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-19SHEET NUMBER 3 OF 4

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|-------|---|--------|------------|------|----|--------|-------|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVRY | | | | |
| | | | | † sericite 5%. A-propylitic with trace of kaolinite-sericite. H-4 1/2-5. Faults at 91' with crushed core. | | | | | | | | | | |
| 90.5 | 106.0 | 15.5 | 14.5 | Phenoandesite; as before (81.5-86'). Quartz veinlet 1" wide roughly paralleling CA from 102-106'; chlorite patches with 10% pyrite. Fault at - major fault 93-96' with clay gouge @ 25° to C.A. | | | | | | | | | | |
| 106.0 | 131.0 | 25.0 | 22.5 | Dacite. C-light green-grey becoming beige 3' below U.C. T-very fine grained, <0.05 mm plagioclase phenos, beige and white. M-plagioclase 60%, quartz 15%, kaolinite 10%; m-chlorite 5%, pyrite 5-7%, zeolites (white) 5%. A-weakly kaolinitized. H-4 1/2-5. Faults at 108' @ 70° to C.A. 109' @ 70° to C.A. (same fault?) | | | | | | | | | | |
| 131.0 | 151.0 | 20.0 | 20.0 | Phenoandesite (Intensely sheared). C-dark green. T-porphyrific as above (81.5-86'). M-plagioclase 40%, chlorite 30%, amphiboles 10%, clay gouge 15%; m-pyrite 3-5%, zeolites. A-chloritization due to intense shearing. H-3 1/2-4. Faults at 132' @ 30° to C.A. 133' @ 40° to C.A. 139-141' - shattered core. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: S83-20 LENGTH: 105'
 LOCATION: Vein E DIP: -49°44'
 LATITUDE: 5700.5m (mine grid) DEPARTURE: 549.7m (mine grid)
 ELEVATION: 5790.0' AZIMUTH: 90°14' (mine grid)
 HOLE STARTED: 1983 July 7 HOLE COMPLETED: 1983 July 7

| ACID B/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 104' | -46° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF 2
 HOLE NUMBER: S83-20
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 77%
 LOGGED BY: T. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | | |
|---------|------|-------|------|--|--------|------------|---------|-------|---------------|-----|-------|------|--|
| FROM | TO | WIDTH | RCRY | | NUMBER | % SULFIDES | FOOTAGE | | | Au | Ag | | |
| | | | | | | FROM | TO | WIDTH | RCRY | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| 0.0 | 23.0 | 23.0 | 0.0 | Overburden. Casing reamed to 23 feet. | | | | | | | | | |
| 23.0 | 73.0 | 50.0 | 37.3 | Phenoandesite. C-dark grey-green; highly rusted. T-porphyritic; 1-4 mm euhedral to subhedral tremolite phenos in aphanitic groundmass. M-plagioclase 60%, tremolite 20%, chlorite 10%; m-pyrite 7%, limonite 5% (mostly on fractures), zeolites 3%. Faulting at 28-31' @ 15° and 40° to C.A. 44-46.5' @ 80° to C.A. (clay gouge). 50-51' @ 75° to C.A. with clay gouge. Zeolite filled shear zone 57-74' at 20° to C.A. Probable fault!! Very poor recovery from 66-75'. | | | | | | | | | |
| 73.0 | 75.0 | 2.0 | 0.6 | Phenoandesite; weakly silicified (similar to above). C-medium grey-green. T-as above with occasional 3-5 mm | 5008 | cr. | 73.0 | 75.0 | 2.0 | 0.6 | 0.012 | 0.01 | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: S83-20

SHEET NUMBER 2 of 2

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | |
|---------|-------|-------|-------|--|--------|-------------|------|------|---------------|-------|-------|------|
| FROM | TO | WIDTH | RCYRT | | NUMBER | % OXIDES | FROM | TO | WIDTH | RCYRT | Au | Ag |
| | | | | quartz stringers. Appears brecciated. M-plagioclase 60%, quartz 30%; m-pyrite, trace; limonite 5%. A-silicification. H-5 1/2. | | | | | | | | |
| | | | | Faults at contact, attitude unknown rock too crushed to determine. | | | | | | | | |
| 75.0 | 79.0 | 4.0 | 0.5 | Same as above 73-75' with less quartz say 15-20% and more oxidized. | 5009 | Tr. | 75.0 | 79.0 | 4.0' | 0.5 | 0.009 | 0.02 |
| 79.0 | 86.5 | 6.5 | 5.5 | Dacite (altered phenoandesite?). C-grey to light green. T-very fine grained with occasional green clots of chlorite or sericite. M-plagioclase 60%, chlorite 15%, sericite 10%; m-pyrite 5%, clay 5%, limonite on fractures. A-sericitization + chloritization. H-4 1/2. | | | | | | | | |
| | | | | Faults at 82-84' - highly crushed core. 86-86.5' - highly crushed core. | | | | | | | | |
| 86.5 | 105.0 | 18.5 | 18.5 | Fault zone with mostly chlorite and clay gouge to 95' and totally shattered-chlorite phenoandesite ? to 105'. Probably near parallel to core axis. | | | | | | | | |
| | | | | FOOT OF HOLE. | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: S83-21 LENGTH: 154'
 LOCATION: Vein E DIP: -59°36'
 ELEVATION: 5700.6m (mine grid) DEPARTURE: 548.1e (mine grid)
 ELEVATION: 5790.2' AZIMUTH: 90°10' (mine grid)
 HOLE STARTED: 1983 July 7 HOLE COMPLETED: 1983 July 8

ACID B/OR TRO-PARI TESTS

| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
|---------|------|---------|---------|-----|---------|
| 150' | -59° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 2
 HOLE NUMBER: S83-21
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 77%
 LOGGED BY: T. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|------|-------|------|--|--------|----------|------|----|--------|------|--|--|--|--|
| FROM | TO | WIDTH | HCVT | | NUMBER | % SALTDS | FROM | TO | WIDTH | HCVT | | | | |
| | | | | C-colour, T-texture, M-major minerals, X of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | |
| 0.0 | 20.0 | 20.0 | 0.0 | Casing reamed to 20', through overburden. | | | | | | | | | | |
| 20.0 | 66.5 | 44.5 | 39.5 | Phenoandesite. C-dark to medium green with much brown from oxidized pyrite (limonite). T-porphyrific; 1-4 mm tremolite phenos in dark green to medium green aphanitic groundmass. Occasional white zeolite stringer at variable attitudes. M-plagioclase 65%, tremolite 15-20%, limonite 10%; m-pyrite trace, chlorite trace, zeolites trace. A-propylitic (weak). H-4 1/2. Faulting at 31.5-32.5' - unknown attitude. 39-40' @ 35° to C.A. 42.5-42.8' @ 30° to C.A. 46.5-47' @ 60° to C.A. 60-62' @ 45° to C.A. with much rusty clay gouge. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: SB3-21

 SHEET NUMBER 2 OF 2

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|-------|-------|------|---|--------|----------|------|----|--------|------|--|--|--|--|
| FROM | TO | WIDTH | RCYR | | NUMBER | % QUARTZ | FROM | TO | WIDTH | RCYR | | | | |
| 44.5 | 101.0 | 36.5 | 25.5 | Dacite. C-light grey; white and beige mottled. T-fine grained aphanitic to massive. M-plagioclase 60%, quartz 20%, kaolinite 10%; m-pyrite 3%, zeolites trace. A-weakly kaolinized feldspars, mostly crystalline plagioclase. H-4 1/2. Faults at 66-68' @ 50° to C.A. with much crushed and gouged rock. 70-71.6' @ 30° to C.A. (as above). 75-75.5' @ 30° to C.A. (clay gouge). 81.8' - crushed and shattered rock, no attitude. 84' @ 55° to C.A. with 2" gouge. | | | | | | | | | | |
| 101.0 | 154.0 | 53.0 | 38.5 | Phenoandesite. C-dark green. T-porphyritic; 1-4 mm euhedral and subhedral tremolite phenocrysts in dark green chloritic groundmass. M-plagioclase 60%, tremolite 20%, chlorite 15%; m-pyrite 5%, zeolites trace. A-chloritization. H-4 1/2; variably magnetic. Faults at 101' @ unknown attitude, contact with overlying dacite. Core broken to 80% <1" pieces. FOOT OF HOLE. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd

HOLE NUMBER: S83-22 LENGTH: 164'
 LOCATION: Vein E DIP: -44°55'
 LATITUDE: 5751.60 (mine grid) DEPARTURE: 473.50 (mine grid)
 ELEVATION: 5809.9' AZIMUTH: 88°58'
 HOLE STARTED: 1983 July 8 HOLE COMPLETED: 1983 July 9

| ACID B/OR TRO - PARI TESTS | | | | | |
|----------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 160' | -43° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 3
 HOLE NUMBER: S83-22
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 51%
 LOGGED BY: T. Brown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | |
|---------|------|-------|------|--|--------|------------|---------|----|--------|------|--|--|
| FROM | TO | WIDTH | RCVY | | NUMBER | % SULFIDES | FOOTAGE | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVY | | |
| | | | | | | | | | | | | |
| | | | | | | | | | | | | |
| 0.0 | 23.0 | 23.0 | 0.0 | Overburden. Casing reamed to 23 feet. | | | | | | | | |
| 23.0 | 61.5 | 38.5 | 23.0 | Syenite. C-pink, speckled by white and pink feldspar and black-green mafics. T-medium grained holocrystalline textures: Feldspars range from v.f.g. to 4 mm across. Biotites up to 3 mm and hornblende to 3 mm long. M-plagioclase 50%, orthoclase 30%, biotite 8%, hornblende 8%; m-pyrite 5%, zeolites 5%. A-highly leached by weathering to 59'. M-5 where fresh. Faults at 43-44' - clay gouge @ 50° to C.A. 48-49' - clay gouge @ 30° to C.A. 50.8-51' - clay gouge @ 40° to C.A. 60-61.5' - with clay gouge. | | | | | | | | |
| 61.5 | 94.0 | 32.5 | 21.0 | Phenoandesite. C-dark green-grey. T-porphyrific. 1-2 mm | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-22

SHEET NUMBER 2 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | |
|---------|-------|-------|-------|--|--------|------------|------|----|--------|-------|--|--|--|--|--|
| FROM | TO | WIDTH | RCVMT | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RCVMT | | | | | |
| | | | | amphibole phenos in fine grained groundmass. Highly oxidized and weathered. M-plagioclase 40%, clays 30%, chlorite 20%; m-pyrite 5%, zeolites 5%. A-clay altered, mostly by weathering. H-4-4 1/2. Faults at 66' @ 45° to C.A. 66.8' @ 50° to C.A. 68' @ 70° to C.A. 71.5' @ 7 attitude. | | | | | | | | | | | |
| 94.0 | 160.0 | 66.0 | 24.0 | Syenite (as above with strong clay alteration). C-grey with pink mottling. Texture as above. M-plagioclase 30%, orthoclase 30%, kaolinite 30%; m-chlorite after hornblende and biotite pyrite 1-3%, zeolites 5%. A-kaolinization of feldspars, chloritization of mafics. H-4 1/2. Core broken to 50% <2" pieces. Faults at 100-101.5' - crushed rock. 148-150' 159-160' | | | | | | | | | | | |
| 160.0 | 164.0 | 4.0 | 4.0 | Syenite (as above but p.opyllitized). Texture as above. M-plagioclase 50%, mostly to sericite, orthoclase 30%, mostly to kaolinite, hornblende 8%, mostly to chlorite, biotite 5-10%, mostly to chlorite; m-epidote traces on some fractures; pyrite 3%. A-propylitic and kaolinic alteration. H-4 1/2. | | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: SB3-23 LENGTH: 157'
 LOCATION: Vein E DIP: -44°21'
 LATITUDE: 5818.0n (mine grid) DEPARTURE: 512.9n (mine grid)
 ELEVATION: 5807.8' AZIMUTH: 98°50' (mine grid)
 HOLE STARTED: 1983 July 9 HOLE COMPLETED: 1983 July 10

| ACID B/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 150' | -42° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 1
 HOLE NUMBER: SB3-23
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 98%
 LOGGED BY: T. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | |
|---------|-------|-------|-------|--|--------|------------|------|----|-------|------|--------|--|--|--|
| FROM | TO | WIDTH | RECY | | NUMBER | % SULFIDES | FROM | TO | WIDTH | RECY | | | | |
| | | | | C-colour, T-texture, M-major minerals, X of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | | |
| 0.0 | 33.0 | 33.0 | 0.0 | Overburden. Casing reamed to 33'. | | | | | | | | | | |
| 33.0 | 157.0 | 124.0 | 121.5 | Syenite. C-pink-grey mottled. T-medium grained crystalline; in places prophyritic (rarely). Feldspars white-pink to 3 mm. M-plagioclase 40%, orthoclase 30% (some zoned), hornblende 10%, biotite 10%; m-pyrite 5%, chlorite 5-8% (after hornblende and/or biotite). Occasional inclusions of f.g. grey-beige dacite. 68-104' bleached grey; kaolinitized; appears similar to dacite porphyry noted elsewhere on property but definitely syenitic with biotite and hornblende. H-4-5. Faults at 36.5-36.7' @ 60°. | | | | | | | | | | |
| | | | | 63' with 4" gritty clay gouge. | | | | | | | | | | |
| | | | | 83.2-84' @ 60° to C.A. | | | | | | | | | | |
| | | | | FOOT OF HOLE AT 157'. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: 583-24 LENGTH: 153'
 LOCATION: Vein A Nth End DIP: -45°
 LATITUDE: 5751.0n (mine grid) DEPARTURE: 818.5e (mine grid)
 ELEVATION: 5744.6' AZIMUTH: Approximately 90°
 HOLE STARTED: 1983 July 10 HOLE COMPLETED: 1983 July 11 (mine grid)

| ACID &/OR TRO-PARI TESTS | | | | | |
|--------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 150' | -45° | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 3
 HOLE NUMBER: 583-24
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY:
 LOGGED BY: T. Drown

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | |
|---------|------|-------|------|-------------|---|------------|---------|----|--------|------|--|--|--|--|
| FROM | TO | WIDTH | RECY | | NUMBER | % SULFIDES | FOOTAGE | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RECY | | | | |
| | | | | | C-colour, T-texture, M-major minerals, I of total, m-minor minerals and sulphides, A-alteration, H-hardness. | | | | | | | | | |
| 0.0 | 40.0 | 40.0 | 0.0 | | Overburden. Casing reamed to 40'. | | | | | | | | | |
| 40.0 | 62.0 | 22.0 | 15.0 | | Quartz-eye-Feldspar Porphyry. C-grey, white mottled. T-porphyrific, 2-5 mm grey to translucent quartz eyes and 1-3 mm long plagioclase laths in grey aphanitic groundmass. M-plagioclase 60%, quartz (mostly eyes) 20-30%, kaolinite 5-10%; m-pyrite 3-5%, limonite trace on fractures. A-kaolinitization, largely weathering product here. H-4 1/2. Faults at 54-54.5' - crushed core. | | | | | | | | | |
| 62.0 | 90.0 | 28.0 | 28.0 | | Andesite. C-dark to medium green. T-fine grained aphanitic groundmass with occasional porphyritic plagioclase phenos from 0.5-2 mm across. In part appears tuffaceous but too strongly fractured to tell. M-plagioclase 65%, mafics 20%, chlorite 10%; m-pyrite 5%, zeolites trace, limonite 5%. | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-24

SHEET NUMBER 2 of 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | oz/ton ASSAYS | | | |
|---------|-------|-------|-------|--|--------|------------|-----------------------------|-------|---------------|-----|-------|------|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % DRA/100T | FOOTAGE FROM TO WIDTH RCVRY | Au | Ag | | | |
| | | | | A-chloritization of mafics and weak propylitic alteration of plagioclase. H-4 1/2. | | | | | | | | |
| | | | | Fault at 65.4-65.5' - No attitude, crushed. | | | | | | | | |
| | | | | 74' @ 30° to C.A. | | | | | | | | |
| | | | | 75' @ 30° to C.A. | | | | | | | | |
| | | | | Quartz stringers 1" wide; white at 35° to C.A. | | | | | | | | |
| | | | | 84-84.5' - crushed zone @ 20° to C.A. | | | | | | | | |
| | | | | 88' @ 25°-30° to C.A. with limonitic gouge. | | | | | | | | |
| 90.0 | 97.0 | 7.0 | 5.0 | Dacite? - brecciated and silicified felsic rock. C-grey and beige 50:50. T-breccia, beige dacitic (alt'd andesite) fragments, angular to 1 1/2" across in quartz cement. M-rock fragments of feldspar-kaolinite? 50%, quartz 40%, clay 5-8%; m-pyrite 3-5%. A-silicifications: kaolinitization. H-5 1/2-6. | | | | | | | | |
| | | | | Faults at 93' @ 60° to C.A. | | | | | | | | |
| 97.0 | 107.0 | 10.0 | 5.8 | Quartz-eye-Feldspar Porphyry (as above 22-62'). Broken to 80% less than 1 1/2" pieces to 101 then good core to 107. | 5013 | | 97.0 | 107.0 | 10.0 | 5.8 | 0.006 | 0.01 |
| 107.0 | 114.0 | 7.0 | 1.0 | Quartz Vein & Quartz-eye Porphyry - only pebbles of pure white quartz and quartz eye porphyry as in 22-62'. Fault is L.C. on zone at 80° to C.A. Drillers report very soft ground here and rods dropped without forced feed. | 5014 | | 107.0 | 114.0 | 7.0 | 1.0 | 0.009 | 0.01 |

DIAMOND DRILL HOLE RECORD

 HOLE NUMBER: 583-24

 SHEET NUMBER 3 OF 3

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | |
|---------|-------|-------|------|---|--------|------|---------|-------|------|--|--------|--|--|--|
| FROM | TO | DEPTH | RECY | | NUMBER | % | FOOTAGE | | | | | | | |
| | | | | | | FROM | TO | WIDTH | RECY | | | | | |
| 114.0 | 131.0 | 17.0 | 14.5 | Dacite (possibly highly altered andesite). C-grey to beige. T-massive to aphanitic; only minor visible plagioclase/clay phenos to 0.5 mm across. M-plagioclase 50%, kaolinite 30%, quartz 15%; m-pyrite 3%, chlorite 3%. A-strong kaolinitization giving rock a beige felty matt texture. H-4 1/2-5. Faults at 118.5' @ 40° to C.A. crushed clay and rock. 131' - L.C. at dacite @ 35° to C.A. | | | | | | | | | | |
| 131.0 | 139.0 | 8.0 | 7.5 | Andesitic Feldspar Porphyry. C-medium green with pink and white spots. T-porphyrific 1-3mm pink and white feldspar in green aphanitic groundmass. M-plagioclase as phenos 30%, as groundmass 40%, chlorite 20%; m-pyrite 5%, zeolites 5%, limonite trace. A-chloritization of mafics in groundmass and possible sericitization of plagioclase in groundmass. H-4 1/2. | | | | | | | | | | |
| 139.0 | 153.0 | 14.0 | 14.0 | Phenandesite. C-dark green to medium green; mottled. T-porphyrific; remnants of amphiboles from 2-4 mm across in aphanitic groundmass. M-plagioclase 50%, kaolinite 25%, amphiboles 10%, chlorite 10%; m-pyrite 5%, zeolites as tiny strings. Bleached zone with much limonite on fractures from 143-149'. Bleached to light grey but looks like same rock as above. A-kaolinitization of groundmass giving beige mottling to rock and chloritization of mafics. H-4 1/2. | | | | | | | | | | |
| | | | | FOOT OF HOLE. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

DRILLED BY: D.W. Coates Enterprises Ltd
 HOLE NUMBER: 583-25 LENGTH: 197'
 LOCATION: Vein A DIP: -49°18'
 LATITUDE: 4799.2n (mine grid) DEPARTURE: 801.51e (mine grid)
 ELEVATION: 5597.6' AZIMUTH: 89°58' (mine grid)
 HOLE STARTED: 1983 July 11 HOLE COMPLETED: 1983 July 12

| ACID &/OR TRO - PARI TESTS | | | | | |
|----------------------------|------|---------|---------|-----|---------|
| FOOTAGE | DIP | AZIMUTH | FOOTAGE | DIP | AZIMUTH |
| 190' | -49° | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

SHEET No. 1 OF: 3
 HOLE NUMBER: 583-25
 PROPERTY: Chappelle
 ACCOUNT No.: 714-00
 CORE SIZE: NQ
 % CORE RECOVERY: 96%
 LOGGED BY: I. Droun

| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | | | ASSAYS | | | |
|---------|------|-------|-------|---|--------|---|---------|----|-------|-------|--------|--|--|--|
| FROM | TO | WIDTH | RECYT | | NUMBER | % | FOOTAGE | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RECYT | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| 0.0 | 30.0 | 30.0 | 0.0 | Overburden. Casing reamed to 30'. | | | | | | | | | | |
| 30.0 | 41.0 | 11.0 | 3.3 | Quartz-Feldspar-Porphyry. C-grey to white; rusty along fractures. T-porphyrific; 2-5 mm transparent quartz eyes in v.f.g. felsic groundmass. M-plagioclase 70%, quartz 20%; m-kaolinite 5-10%. A-weak kaolinization. R-4 1/2, poor core recovery here; highly weathered. | | | | | | | | | | |
| 41.0 | 69.0 | 28.0 | 21.5 | Phenoandesite (weathered and bleached). C-medium green to grey. T-porphyrific; 1-3 mm dark green to black amphiboles in medium green f.g. matrix. M-plagioclase 60%, amphiboles 25%, chlorite 10%; m-zeolites as fillings of shears 5-8%, pyrite 3%. A-chloritization of amphiboles and weak kaolinization of plagioclase. R-4 1/2. Faults at 54.5-55.6' @ 30° to C.A. | | | | | | | | | | |

DIAMOND DRILL HOLE RECORD

HOLE NUMBER: 583-25

SHEET NUMBER 3 OF 3

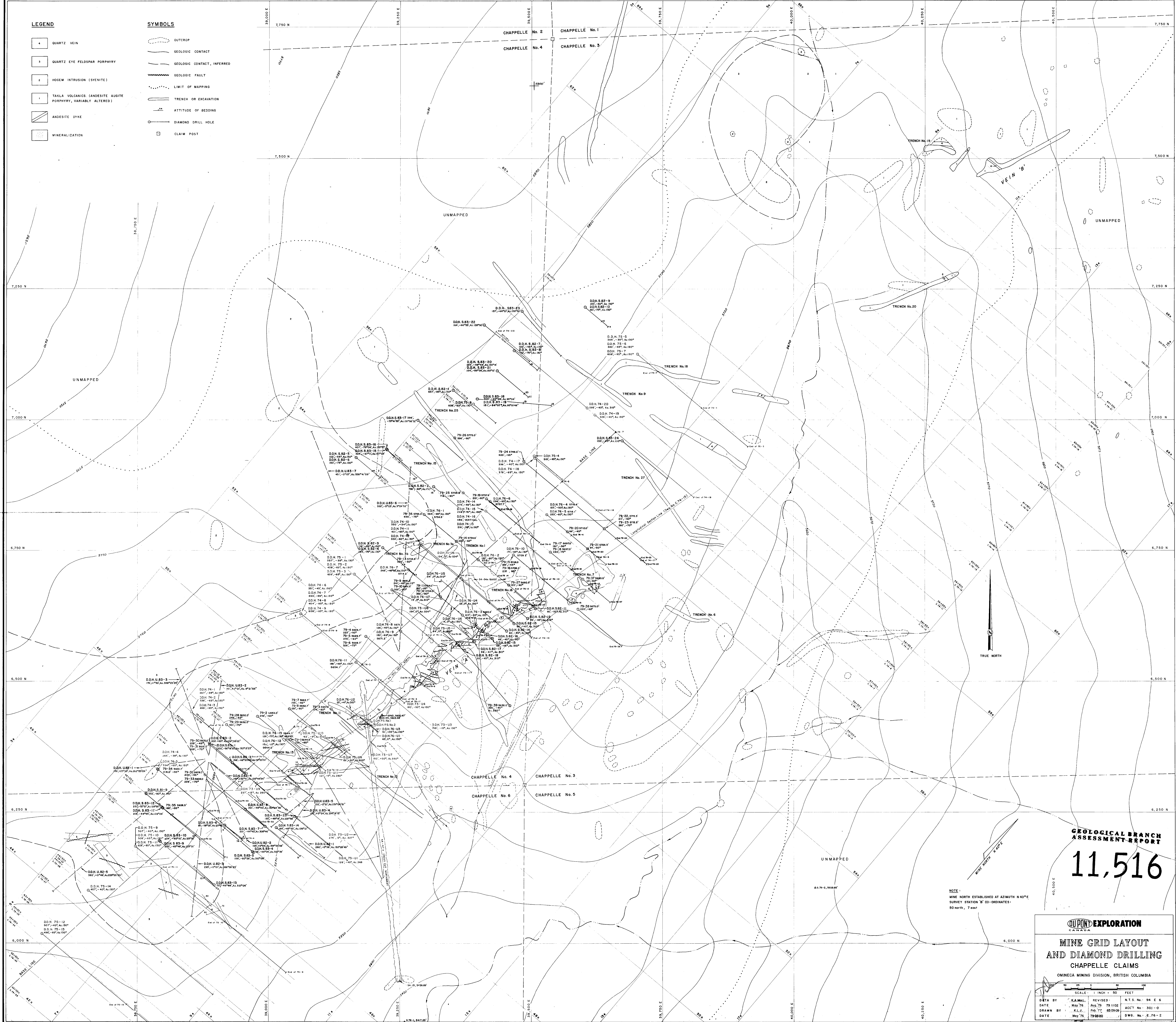
| FOOTAGE | | | | DESCRIPTION | SAMPLE | | | | ASSAYS | | | | | | | | | | |
|---------|-------|-------|-------|---|--------|------------|---------|----|--------|-------|--|--|--|--|--|--|--|--|--|
| FROM | TO | WIDTH | RCVRY | | NUMBER | % SIZES | FOOTAGE | | | | | | | | | | | | |
| | | | | | | | FROM | TO | WIDTH | RCVRY | | | | | | | | | |
| | | | | largely epidotized and amphiboles pyritized. M-plagioclase 50%, amphibole 20%, epidote 15%; m-pyrite 5%, chlorite 8-10%, zeolites trace. A-epidotization of plagioclase (30% altered); pyritization and chloritization of amphibole. H-4 1/2. NOTE: occasional tuffaceous zone 6-10" wide. Faults at 131.5' @ 30° to C.A. 144-145.2' - Q.F.P. dyke; U.C. @ 45°; L.C. @ 50° to C.A. 153-154' @ 75° to C.A. | | | | | | | | | | | | | | | |
| 163.0 | 197.0 | 34.0 | 30.5 | Phenoandesite. C-dark green to black. T-1-3 mm dark green- black amphibole pheno and occasional 1-2 mm plagioclase laths in fine grained dark green groundmass. M-plagioclase 60%, amphibole 20%, chlorite 15%; m-pyrite 5-8%, zeolites as stringers ± calcite. A-chlorite and pyrite. H-4 1/2. Faults at 180-180.5' @ 20° to C.A. 181.5-181.7' @ 15° to C.A. 183-184' @ 10° to C.A. FOOT OF HOLE. | | | | | | | | | | | | | | | |

LEGEND

- 4 QUARTZ VEIN
- 3 QUARTZ EYE FELDSPAR PORPHYRY
- 2 HOSEM INTRUSION (SYENITE)
- 1 TAKLA VOLCANICS (ANDESITE AUGITE PORPHYRY, VARIABLY ALTERED)
- ANDESITE DYKE
- MINERALIZATION

SYMBOLS

- OUTCROP
- GEOLOGIC CONTACT
- GEOLOGIC CONTACT, INFERRED
- GEOLOGIC FAULT
- LIMIT OF MAPPING
- TRENCH OR EXCAVATION
- ATTITUDE OF BEDDING
- DIAMOND DRILL HOLE
- CLAIM POST



GEOLOGICAL BRANCH ASSESSMENT REPORT

11,516

NOTE:
 MINE NORTH ESTABLISHED AT AZIMUTH N40°E
 SURVEY STATION W' CO-ORDINATES:
 50 NORTH, T 6501

DUPONT EXPLORATION
 CANADA

MINE GRID LAYOUT AND DIAMOND DRILLING CHAPPELLE CLAIMS

OMINECA MINING DIVISION, BRITISH COLUMBIA

SCALE: 1 INCH = 50 FEET

| | | | |
|---------|----------|----------------|-------------------|
| DATE BY | K.A.M.H. | REVISED | N.T.S. No. 94 E 6 |
| DATE | May 76 | Aug 75 79 1102 | ACT' No. 301-C |
| DATE | K.L.J. | Feb 77 830909 | |
| DATE | May 76 | 190000 | DWG. No. C.76-2 |