

REPORT ON
1987 EXPLORATION PROGRAM
CHAPPELLE GOLD PROPERTY

Toodoggone River Area
Omineca Mining Division
British Columbia

NTS 94E/6E
Latitude: 57°17'N
Longitude: 127°06'W

FOR
MULTINATIONAL MINING INC. JOINT VENTURE

BY
N.C. CARTER, PH.D. P.ENG.

February 20, 1988

N.C. CARTER, Ph.D., P.Eng.
CONSULTING GEOLOGIST

THE GEOLOGICAL BRANCH
OF THE DEPARTMENT OF ENERGY
AND TECHNICAL SERVICES

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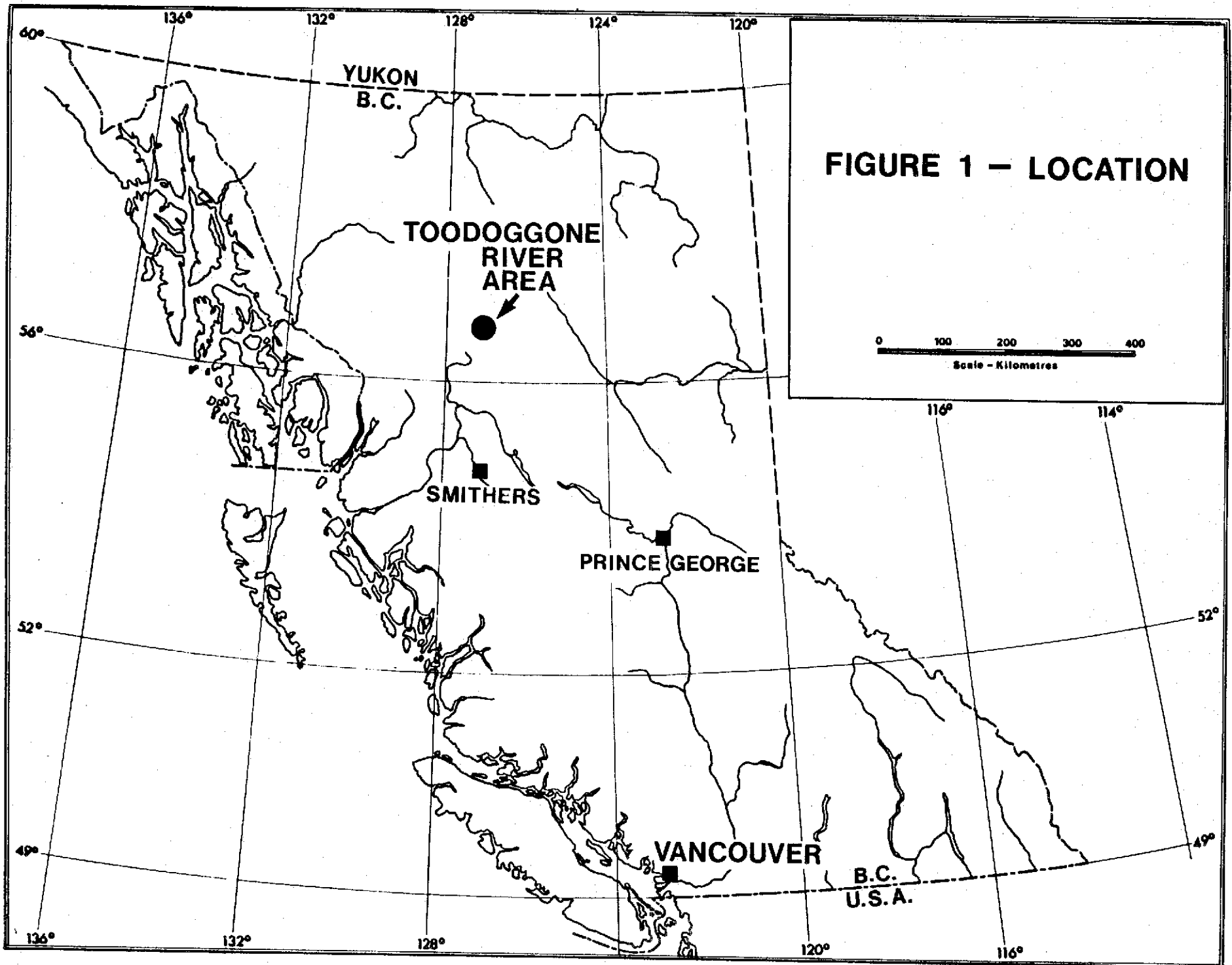
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INTRODUCTION

This report deals with the 1987 exploration program undertaken by Multinational Mining Inc. Joint Venture on the Chappelle gold property in the Toodoggone River area of north-central British Columbia. The Joint Venture includes Multinational Mining Inc. and Nissho Iwai Canada Ltd.

A two-phase diamond drilling program was directed principally to the B Zone. Limited prospecting and sampling resulted in the discovery of an area of base and precious metals mineralization east of B Zone.

LOCATION AND ACCESS

The Chappelle property includes a 35 km² area south of Toodoggone River in the western part of the Samuel Black Range 280 km north of Smithers (Figure 1). Principal mineralized zones, camp and mill are centred on Latitude 57°17' North, Longitude 127°06' West in NTS map-area 94E/6E.

Access to the property in 1987 was by air from Smithers to the Sturdee Valley airstrip, a distance of 270 km. A 15 km all-weather road links the property with the airstrip (Figure 2).

Construction of the Omineca Resource Road extension into the Toodoggone area was completed in the fall of 1987 and this will afford conventional access to the property in 1988.

Facilities on site include a 70 person camp, a 90 tonnes per day mill and ancillary buildings.

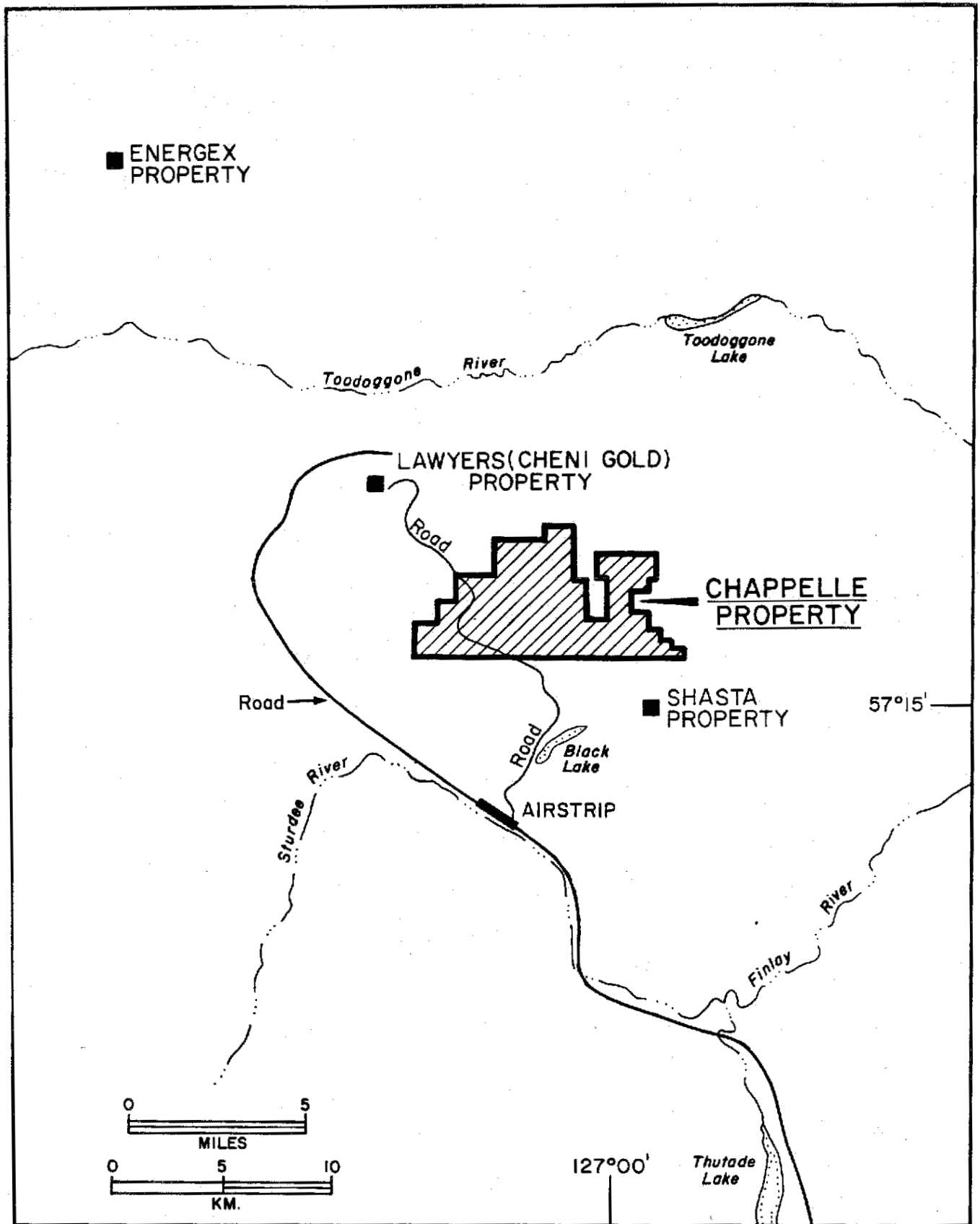


FIGURE 2 – LOCATION – CHAPPELLE PROPERTY

PHYSICAL SETTING

The Chappelle property is situated in open, alpine terrain. Sparse vegetation is restricted to valley bottoms and much of the claims area features alpine grasses and felsenmeer.

Elevations range from 1540 metres to more than 2000 metres above sea level. The property is essentially snow-free between June and September.

HISTORY

Gold-silver mineralization was discovered on the Chappelle property by Kennco Explorations (Western) Limited in 1969. Several quartz vein structures were identified including the A Vein which was explored by hydraulic trenching and two short diamond drill holes.

Conwest Exploration Ltd. optioned the property in 1973 and constructed an airstrip at Black Lake (Figure 2) and a road to the property prior to driving a 200 metre adit to further explore the A Vein. Limited underground diamond drilling was also carried out but results were not encouraging and the option was terminated.

DuPont of Canada Exploration Limited acquired the property in 1974 and over the next five years completed 8700 metres of diamond drilling and 460 metres of underground development on the A Vein structure. A production decision was made in 1979 and an airstrip was constructed in the Sturdee River Valley to facilitate air freighting of all equipment including a 90 tonnes per day mill.

The project, known as Baker Mine, went on stream in May of 1981. Operations over a 31 month period included milling of 70,000 tonnes which yielded 1169.7 kg gold (37,606 ounces) and 23079 kg silver (742,117 ounces).

During this period, 4260 metres of diamond drilling was undertaken on the A Vein and several other zones in the mine area in an attempt to increase reserves. These efforts were not successful and operations ceased December 1, 1983.

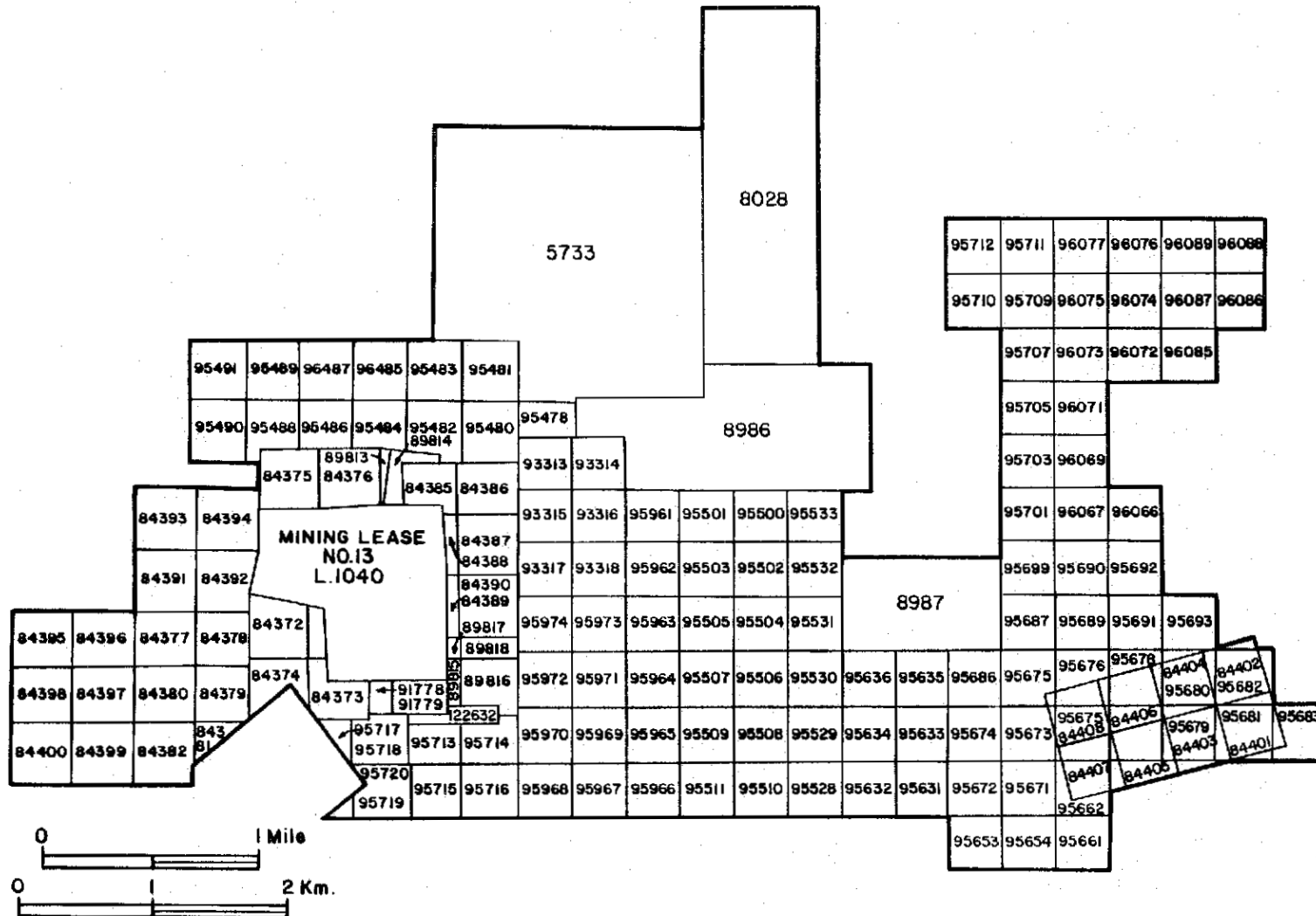
Multinational Resources Inc. acquired the mineral rights to the property in mid-1985 and carried out a program of heavy sediment sampling, trenching, resistivity surveys and 613 metres of diamond drilling on several zones in the area of the former mine. This program also included two drill holes on the B Zone, one of which intersected significant gold and silver values.

This was followed by a three-phase drilling program in 1986 consisting of 2032.7 metres. This program was successful in identifying a shoot containing good gold and silver grades within the B Zone.

MINERAL PROPERTY

The Chappelle property includes one Mining Lease (10 units), 158 2-post mineral claims and fractions and four Modified Grid claims comprising 44 mineral claim units, situated in the Omineca Mining Division. The claims are shown on Figure 3 and a complete listing is contained in Appendix I.

Multinational's agreement with DuPont Canada Inc. includes all



MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
MINERAL CLAIMS

57°15'

127°05'

FIGURE : 3

claims with the exception of 10 full and fractional 2-post claims on which the camp, mill and tailing pond are situated.

1987 EXPLORATION PROGRAM

The 1987 exploration program included 3614.6 metres of NQ diamond drilling in two phases between June and September. Most of the drilling was directed to B Zone where 26 inclined holes from 19 sites were completed. Two inclined holes were drilled on the North Quartz Zone, 450 metres northeast of B Zone.

Locations of 1986 and 1987 drill holes are shown on Figure 4 and complete drill logs are included as Appendix II. Drill core is stored in racks near the existing mill facility.

All but three of the 1987 drill hole locations were surveyed in September.

Resistivity surveys, utilizing a VLF-EM unit, were carried out over a small grid on B Zone and trial lines on the North Quartz and West Chappelle zones.

Limited prospecting was directed to the North Black gossan in the central property area and to an area east of the North Quartz Zone.

Additional claims were acquired by staking in September.

GEOLOGICAL SETTING

The Toodoggone River area is situated near the eastern margin of the Intermontane tectonic belt. The area is principally underlain

by a Mesozoic volcanic sequence which is intruded by Jurassic granitic rocks and in part overlain by late Cretaceous-early Tertiary clastic sedimentary rocks.

The region is host to a number of significant gold (silver) deposits and prospects. The majority of these are proximal to regional fault structures and are associated with veins, stockworks and silicified zones developed in a distinctive volcanic lithology of lower Jurassic age known as Toodoggone volcanics.

By contrast, precious metals mineralization on the Chappelle property is principally hosted by slightly older, late Triassic Takla Group volcanic rocks immediately north of their contact with granitic rocks of the Black Lake stock. Older, Permian age limestones and subordinate cherts are in thrust fault contact with Takla Group rocks in the southwestern part of the property.

Seven known vein systems occur in Takla Group volcanic rocks in the western part of the property. The veins strike northeasterly to west-northwest and are steeply dipping. Wallrocks are variably silicified and altered to sericite, clay minerals and carbonate with intensity increasing with proximity to vein structures. Pyrite is ubiquitous in country rocks, generally in the 2-5% range. Prominent gossans in Takla Group rocks are a feature of the central and western claims area.

Takla Group rocks are overlain by gently dipping porphyritic flows and fragmental rocks of the Toodoggone sequence near the north and west property boundaries. Toodoggone volcanics also

underlie much of the eastern claims area. Quartz-feldspar porphyry and finer grained felsic dykes, spatially related to several of the quartz veins, are believed to represent feeders for some of the Toodoggone volcanic rocks, which are also coeval with granitic rocks of the Black Lake stock.

Initial work on the Chappelle property showed best gold-silver grades to be contained in the A Vein which strikes northeast and dips steeply northwest. While the structure has been traced over a strike length of 400 metres, significant precious metals grades were found to be contained in a flat-lying shoot 200 metres in length by 3 metres wide and extending to a depth of 40 metres below surface. Reserve estimates prior to mining were 95,000 tonnes grading 33.9 grams gold (0.99 oz/ton) and 680.2 grams silver (19.84 oz/ton) per tonne, using a cut-off grade of 12 grams/tonne (0.35 oz/ton) gold equivalent.

Gold and silver values in the A Vein are present as electrum and argentite. Base metals minerals, chalcopyrite, sphalerite and galena, are commonly associated with higher gold-silver grades.

The A Vein is segmented by numerous cross-faults and dip-slip faults with the result that wallrocks, particularly in the hanging-wall, are badly broken.

Drilling by Multinational in 1985, 1986 and 1987 was mainly directed to B Zone, 365 metres northeast of, and on strike with A Vein (Figure 4). B Zone is similar in style and structure to A Vein and has been traced by drilling over a northeast strike

length of nearly 250 metres and to a depth of more than 200 metres. Better gold-silver grades are contained within a steeply northeast plunging shoot within the plane of the vein.

PROSPECTING

Limited prospecting in the North Balck gossan area in the central part of the property included sampling of a narrow quartz vein which yielded low gold, silver and copper values. A sample from a silicified, pyritized and quartz veined area at the northern part of the zone and along a fault contact between Takla and Toodoggone volcanics yielded 5 ppb gold, 0.9 ppm silver and 49 ppm copper.

Kennco Explorations stream sediment sampling in the early 1970's identified several areas with coincident anomalous gold, silver and copper values. One of these areas, east of the North Quartz Zone, was apparently not followed up until 1987 when angular quartz float was found near a regional northwest fault separating Takla volcanics on the west from Toodoggone volcanics on the east.

The quartz float contains galena, sphalerite and chalcopyrite and some low gold and silver values. Grab samples collected yielded the following results:

<u>Gold(ppb)</u>	<u>Silver(ppm)</u>	<u>Copper(ppm)</u>	<u>Lead(ppm)</u>	<u>Zinc(ppm)</u>
35	3.1	370	1870	3200
30	1.9	225	2150	3950
25	7.9	1090	4300	7900
20	7.7	580	6700	11500

Limited bulldozer trenching in this area which is 300 metres east of the North Quartz Zone (Figure 4) was not successful in determining the attitude or dimensions of the vein source which is obscured by extensive talus.

GEOPHYSICAL SURVEY

A Geonics VLF-EM 16 unit with resistivity attachment was used over a 1 km grid on B Zone in July. No significant resistivity highs were identified and similar results were obtained during orientation surveys conducted over the North Quartz and West Chappelle zones in August.

Much of the western property area features felsenmeer and/or talus which may prevent proper electrode contacts being made with this type of instrument.

DIAMOND DRILLING

As previously noted, 3614.6 metres of NQ diamond drilling was completed on the Chappelle property in 1987. Drill hole locations for 1986 and 1987 holes are shown on Figure 4 and cross sections through the 1987 holes, from southwest to northeast, are included as Figures 5 - 18. Figure 19, a longitudinal section of B Zone, summarizes results to date. Note that gold and silver assays are reported in Imperial units in the drill logs (Appendix II) and on the sections.

1986 drilling of B Zone partially defined a N55°E striking,

vertical to steeply northwest dipping quartz (carbonate) vein structure over a strike length of 150 metres and to a depth of 130 metres. True widths of the structure varied from 2.4 to 7.6 metres. Drilling showed better gold-silver grades to be apparently contained in a gently northeast raking shoot over a 60 metre vertical interval within the plane of the vein and which was open to depth and along strike to the northeast.

The B Zone structure is essentially blind and apparently apexes 10 to 30 metres below surface. The surface expression of the zone is a network of narrow quartz vein and veinlets having an overall west-northwest strike with moderate northeast dips. These are interpreted as being part of the hangingwall alteration zone which features intense quartz-carbonate-sericite-clay minerals (QSP) alteration of the Takla volcanic host rocks. Precious metals values within the exposed veins are low - gold values of less than 100 ppb are the norm.

The 1987 program was designed to confirm 1986 results and to further define the limits of the shoot containing good gold and silver values. Drilling yielded additional information regarding the style and distribution of precious metals mineralization, structural setting of the zone, wallrock alteration and distribution and nature of intrusive rocks within and marginal to the zone.

Takla Group host rocks include three principal types. Andesite porphyry, the most prevalent unit, features 2-4mm pyroxene phenocrysts and pink zeolite on fractures. Dacite, in part an alteration

of andesite, but also a discrete unit, is variably silicified. Intravolcanic sediments, in the form of banded siltstones occur within the sequence.

All host rocks contain 2-5% disseminated pyrite and are variably altered, epidote being prominent within the andesitic unit. Dacites within the hangingwall alteration zone are transformed to a creamy white rock featuring abundant sericite, carbonate and clay mineral alteration with numerous 2-4mm quartz veinlets and disseminated pyrite.

Deeper drill holes showed considerable quartz and pink feldspar (K-feldspar?) alteration of host rocks. Limy siltstones locally feature skarn alteration in the form of garnet, epidote and considerable pyrite.

Takla Group rocks are intruded by coarse grained quartz-feldspar porphyry and equigranular finer grained pink felsic units. A quartz-feldspar porphyry dyke apparently marks the southwest limits of B Zone and extends in an easterly direction through the upper parts of drill holes M87- 15 through -19 (Figure 4). Intrusive rocks were also intersected in the most easterly holes drilled and include a late stage dark grey, fine grained magnetic variety with large inclusions of quartz-feldspar porphyry. The intrusive rocks contain some quartz veins which are apparently later than the B Zone quartz vein structure.

Structural complexity of B Zone in the form of fault offsets increases with depth and along strike to the northeast. Vein contacts are commonly marked by gouge zones.

At least three stages of quartz veining are evident within the B Zone structure. Earliest stages include a drusy grey variety with 4mm carbonate patches which is commonly fractured and brecciated and healed by a creamy white chalcedonic quartz and by later quartz-carbonate stringers. Pyrite is a common constituent and chalcopyrite is a good indicator of gold mineralization - better gold grades have a direct correlation with copper values (see drill logs). Galena and sphalerite are also common vein constituents but are more prevalent in gently dipping vein structures in the hangingwall of B Zone.

While 1987 drilling succeeded in extending the known limits of the B Zone quartz vein structure along strike to the northeast and to depth, the shoot containing better gold-silver grades was found to be more restricted than originally anticipated (Figure 19). The shoot rakes steeply in a northeast direction and appears to terminate 110 metres below surface. It is enveloped by gold grades of less than 0.10 oz/ton.

The deepest hole drilled, M87-24, intersected slightly higher gold grades and may indicate the upper part of a second shoot at depth (Figure 19).

Two holes were drilled to further test the North Quartz Zone northeast of B Zone (Figure 4). Prospecting of this area in 1971 identified a number of steeply dipping quartz veins with west-northwest strikes. The zone was tested by 8 holes drilled between 1975 and 1981 on north-south and southwest azimuths, in view of

the overall strike of the exposed quartz veins which parallel those seen on surface at B Zone. The two 1987 holes were drilled on northwest and southeast azimuths to test for possible north-east striking quartz veins at depth, similar to B Zone.

Both holes intersected typical Takla Group andesites, dacites and some siltstone. Dacites exhibit varying degrees of K-feldspar and epidote alteration plus silicification in the matrix and as closely spaced quartz veinlets. Narrow feldspar porphyry dykes were noted in hole M87-20.

Both holes intersected narrow (less than 1 metre) quartz veins containing disseminated pyrite and galena and sphalerite at the bottom of hole M87-21. Gold and silver values for samples collected were low; copper lead and zinc values were present at the bottom of hole M87-21.

CONCLUSIONS AND RECOMMENDATIONS

Diamond drilling of B Zone in 1987 defined the limits of the shoot of better gold-silver grades originally identified in 1986. This zone is now estimated to contain 50,000 tons grading 0.587 oz/ton gold and 5.16 oz/ton silver at a 0.20 oz/ton gold cut-off grade and a minimum mining width of 1.8 metres.

The B Zone quartz vein structure has been traced over a 250 metre strike length and distribution of drilling to date indicates potential for additional well mineralized shoots at depth and possibly at shallower depths along strike to the northeast. Additional drilling is required to verify these hypotheses.

Further diamond drilling is also warranted in the area of the North Quartz Zone to test the possibility of an extension of B Zone.

The 'New' Zone, east of North Quartz, has yielded grab samples with copper, lead, zinc and anomalous gold and silver values. A program of backhoe trenching is recommended prior to testing this zone by diamond drilling.

COST STATEMENT

Note: Work periods on the Chappelle property in 1987 were:

May 11-13
June 10-July 14
July 27-September 30

Diamond Drilling	
3614.6 metres @ \$110.74/metre	\$400,295.10
(Note: all-inclusive price as quoted by J.T. Thomas Diamond Drilling Ltd. -includes camp operation and all incidentals related to drilling)	
Mobilization-demobilization; cat time	<u>\$11,728.00</u>
	<u>\$412,023.10</u>
Analytical Costs	
Assaying and geochemical analyses of core samples - 500 samples - (includes a number of 'rush' samples)	\$10,359.25
Surface rock geochemical analyses and assays - 33 samples	<u>\$165.00</u>
	<u>\$10,524.25</u>
Transportation	
Fixed wing - scheduled and non-scheduled	\$5,553.25
Helicopter (prospecting)	\$883.78
General transport	<u>\$340.71</u>
	\$6,777.74
Supplies	
Sample bags, tags, etc	\$143.90
General supplies, duplicating	\$141.25
Topographic map	\$2,770.70
Insurance	\$610.00
Core Racks	<u>\$1,827.44</u>
	<u>\$5,493.29</u>

General Travel Expenses	
Vehicle rental and repairs	\$1,842.15
Motels and Meals	<u>775.45</u>
	\$2,617.60
Freight, courier	<u>\$2,121.30</u>
Drill Hole Survey	<u>\$990.70</u>
Geophysical Survey	<u>\$1,350.00</u>
Prospecting	
G. Auger - 13 days	\$2,600.00
N.C. Carter - 5 days	<u>\$1,750.00</u>
	<u>\$4,350.00</u>
Geological Assistance	
G. Auger - 70 days	<u>\$14,000.00</u>
Consulting Fees	
Project planning, supervision	
N.C. Carter - 71.5 days	\$25,025.00
Drafting, engineering - Teck Corporation	<u>\$2,581.02</u>
	<u>\$27,606.02</u>
Assessment Work Filing Fees	<u>\$3,230.00</u>
Report Preparation	
Drafting	\$491.83
Duplicating	\$345.60
Secretarial services	\$500.00
Compilation, report writing	<u>\$5,000.00</u>
	<u>\$6,337.43</u>
Management fees-Multinational Resources Inc.	<u>\$29,106.86</u>
Total Program Costs	<u>\$526,528.29</u>

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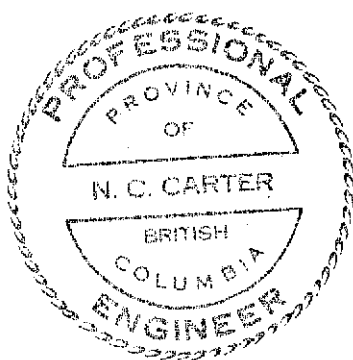
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AUTHOR'S QUALIFICATIONS

I, NICHOLAS C. CARTER, do hereby certify that:

1. I am a Consulting Geologist resident at 1410 Wende Road, Victoria, British Columbia.
2. I am a graduate of the University of New Brunswick with B.Sc. (1960), Michigan Technological University with M.S. (1962) and the University of British Columbia with Ph.D. (1974).
3. I have been a registered Professional Engineer in the Association of Professional Engineers of British Columbia since 1966.
4. I have practised my profession in eastern and western Canada and in parts of the United States over the past 25 years.
5. This report describes the 1987 exploration program on the Chappelle gold property which was carried out under my super supervision.

Dated at Victoria, British Columbia, this 27th day of February, 1988



N.C. Carter Ph.D. P.Eng.

N.C. Carter, Ph.D. P.Eng.

APPENDIX I

CHAPPELLE PROPERTY MINERAL CLAIMS

CHAPPELLE PROPERTY - MINERAL CLAIMS

<u>CLAIM NO.</u>	<u>RECORD NO.</u>	<u>MONTH OF RECORD</u>	
Mining Lease No. 13			
(10 Units)			
Chappelle # 11	84371	September	*
Chappelle # 12	84372	February	*
Chappelle # 13	84373	February	*
Chappelle # 14	84374	February	*
Chappelle # 15	84375	February	
Chappelle # 16	84376	February	
Chappelle # 17	84377	February	
Chappelle # 18	84378	February	
Chappelle # 19	84379	February	
Chappelle # 20	84380	February	
Chappelle # 21	84381	February	*
Chappelle # 22	84382	February	*
Chappelle # 25	84385	February	
Chappelle # 26	84386	February	***
Chappelle # 27	84387	February	***
Chappelle # 28	84388	February	***
Chappelle # 29	84389	February	***
Chappelle # 30	84390	February	***
Chappelle # 33	84391	February	
Chappelle # 34	84392	February	
Chappelle # 35	84393	February	
Chappelle # 36	84394	February	
Chappelle # 37	84395	February	*
Chappelle # 38	84396	February	*
Chappelle # 39	84397	February	*
Chappelle # 40	84398	February	*
Chappelle # 41	84399	February	*
Chappelle # 42	84400	February	*
Chappelle # 43	89813	July	
Chappelle # 44	89814	July	
Chappelle # 45	89815	July	*
Chappelle # 46	89816	July	*
Chappelle # 47	89817	July	***
Chappelle # 48	89818	July	***
Chappelle # 49	93313	September	***
Chappelle # 50	93314	September	***
Chappelle # 51	93315	September	***
Chappelle # 52	93316	September	
Chappelle # 53	93317	September	
Chappelle # 54	93318	September	
Chappelle # 55	91778	September	**
Chappelle # 56	91779	September	**
Chappelle # 57	95478	November	***
Chappelle # 59	95480	November	

<u>CLAIM NO.</u>	<u>RECORD NO.</u>	<u>MONTH OF RECORD</u>	
Chappelle # 60	95481	November	
Chappelle # 61	95482	November	
Chappelle # 62	95483	November	
Chappelle # 63	95484	November	
Chappelle # 64	95485	November	
Chappelle # 65	95486	November	
Chappelle # 66	95487	November	
Chappelle # 67	95488	November	
Chappelle # 68	95489	November	
Chappelle # 69	95490	November	
Chappelle # 70	95491	November	
Chappelle # 79	95500	November	*
Chappelle # 80	95501	November	*
Chappelle # 81	95502	November	*
Chappelle # 82	95503	November	*
Chappelle # 83	95504	November	*
Chappelle # 84	95505	November	*
Chappelle # 85	95506	November	*
Chappelle # 86	95507	November	*
Chappelle # 87	95508	November	*
Chappelle # 88	95509	November	*
Chappelle # 89	95510	November	*
Chappelle # 90	95511	November	*
Chappelle # 94	95961	November	*
Chappelle # 95	95962	November	*
Chappelle # 96	95963	November	*
Chappelle # 97	95964	November	*
Chappelle # 98	95965	November	*
Chappelle # 99	95966	November	*
Chappelle # 100	95967	November	*
Chappelle # 101	84401	February	
Chappelle # 102	84402	February	
Chappelle # 103	84403	February	
Chappelle # 104	84404	February	
Chappelle # 105	84405	February	
Chappelle # 106	84406	February	
Chappelle # 107	84407	February	
Chappelle # 108	84408	February	
Chappelle # 109	95968	November	*
Chappelle # 110	95969	November	*
Chappelle # 111	95970	November	*
Chappelle # 112	95971	November	
Chappelle # 113	95972	November	*
Chappelle # 114	95973	November	
Chappelle # 115	95974	November	
Chappelle # 116	95631	November	*
Chappelle # 117	95632	November	*
Chappelle # 118	95633	November	*
Chappelle # 119	95634	November	*
Chappelle # 120	95635	November	*

<u>CLAIM NO.</u>	<u>RECORD NO.</u>	<u>MONTH OF RECORD</u>	
Chappelle # 121	95636	November	*
Chappelle # 138	95653	November	*
Chappelle # 139	95654	November	*
Chappelle # 146	95661	November	*
Chappelle # 147	95662	November	*
Chappelle # 156	95671	November	*
Chappelle # 157	95672	November	*
Chappelle # 158	95673	November	*
Chappelle # 159	95674	November	*
Chappelle # 160	95675	November	*
Chappelle # 161	95676	November	*
Chappelle # 162	95677	November	*
Chappelle # 163	95678	November	*
Chappelle # 164	95679	November	*
Chappelle # 165	95680	November	*
Chappelle # 166	95681	November	*
Chappelle # 167	95682	November	*
Chappelle # 168	95683	November	*
Chappelle # 171	95686	November	*
Chappelle # 172	95687	November	*
Chappelle # 174	95689	November	*
Chappelle # 175	95690	November	*
Chappelle # 176	95691	November	*
Chappelle # 177	95692	November	*
Chappelle # 178	95693	November	*
Chappelle # 184	95699	November	*
Chappelle # 186	95701	November	*
Chappelle # 188	95703	November	*
Chappelle # 190	95705	November	*
Chappelle # 192	95707	November	*
Chappelle # 194	95709	November	*
Chappelle # 195	95710	November	*
Chappelle # 196	95711	November	*
Chappelle # 197	95712	November	*
Chappelle # 198	96066	November	*
Chappelle # 199	96067	November	*
Chappelle # 201	96069	November	*
Chappelle # 203	96071	November	*
Chappelle # 204	96072	November	*
Chappelle # 205	96073	November	*
Chappelle # 206	96074	November	*
Chappelle # 207	96075	November	*
Chappelle # 208	96076	November	*
Chappelle # 209	96077	November	*
Chappelle # 217	96085	November	*
Chappelle # 218	96086	November	*
Chappelle # 219	96087	November	*
Chappelle # 220	96088	November	*
Chappelle # 221	96089	November	*

<u>CLAIM NO.</u>	<u>RECORD NO.</u>	<u>MONTH OF RECORD</u>	
Chappelle # 245	95528	November	*
Chappelle # 246	95529	November	*
Chappelle # 247	95530	November	*
Chappelle # 248	95531	November	*
Chappelle # 249	95532	November	*
Chappelle # 250	95533	November	*
Chappelle # 256	95713	November	**
Chappelle # 257	95714	November	**
Chappelle # 258	95715	November	**
Chappelle # 259	95716	November	**
Chappelle # 260	95717	November	**
Chappelle # 261	95718	November	**
Chappelle # 262	95719	November	**
Chappelle # 263	95720	November	**
C.W. 1 Fraction	122632	April	
PEL	5733	August	***
GOLDEN WARRIER	8028	October	***
MUT 1	8986	September	
MUT 2	8987	September	

* Mineral Claims Grouped - September, 1986.

** Claims currently held by Du Pont Canada Inc.

*** Mineral Claims Grouped September, 1987

APPENDIX II

DIAMOND DRILL HOLE LOGS

N.C. CARTER, Ph.D., P.Eng.
CONSULTING GEOLOGIST

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M37-1

DIP TEST		
Angle		
Footage	Reading	Corrected
66.8	53	46

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun June 15, 1987
 Date Finished June 17, 1987
 Date Logged _____

Lat. 2305.56
 Dep. 12333.70
 Bearing -44° @ 140°
 Elev. Collar 1791.28

Total Depth 66.8m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Pb / Zn (ppm)
FROM	TO									
0	9.1		CASING							
9.1	11.58	60	ANDESITE - augite porphyry - lt green- 4 mm phenos - badly broken - Fe stained fractures							
11.58	11.89		FAULT BRECCIA							
11.89	17.98	75	DACITE - lt buff to grey - num healed frs with qtz-carb and pink zeolite - 1 m fault gouge @ 16.3							
18.0	22.9	30-65	QUARTZ VEIN - bx with white rock frags- minor carb-finely dissem py and dark minerals - PbS, ZnS - fuchsite prevalent 30-35% recovery last 3 m - lower contact 20° to core	17501	17.98	18.90	0.91	0.010	0.36	
				17502	18.90	19.81	0.91	0.008	0.15	
				17503	19.81	21.34	1.53	0.007	0.11	
				17504	21.34	22.89	1.55	0.001	0.02	
22.9	28.7	90	GREY DACITE - Qtz-Sericite-Pyrite Altn (QSP) abundant qtz-30%-5-10% py in seams minor op in initial 1.3m - 5 cm fault gouge @ 25.9m and below qtz vein- Abundant bx in section with dissem and str py to 10%	17505	22.89	24.10	1.22	0.001	0.01	
				17506	24.10	25.63	1.53	0.001	0.01	
				17507	25.63	27.16	1.53	0.008	0.05	
				17508	27.16	28.78	1.62	0.002	0.06	
28.7	31.5	85	QUARTZ VEIN - lt grey-some rock incl. @ 30m - fg dissem py to 3% PbS and ZnS in 2 cm str - 0.1m fault gouge @ end of section	17509	28.78	29.69	0.91	0.004	0.27	990
				17510	29.69	30.60	0.91	0.010	0.44	895
				17511	30.60	31.58	0.98	0.007	0.43	1010
										3990
										7400

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-1

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____	Sheet No. <u> 2 </u>	Lat. _____	Total Depth _____
Section _____		Dep. _____	Logged By _____
Date Begun _____		Bearing _____	Claim _____
Date Finished _____		Elev. Collar _____	Core Size _____
Date Logged _____			

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
31.5	44.2	90	GREY ANDESITE - frag texture in part- 4 mm frags-Occ 2-4 mm qtz strs @ 45° to core -pink zeolite in frs @ 37.5 m fine dissem to 2%- mainly in banded 4 mm qtz vlts	17512	31.58	33.11	1.53	0.001	0.15
44.2	53.9	70	As Previous-ground core						
53.9	59.0	90	GREY-GREEN ANDESITE-mottled appearance- 2 mm epidote strs - 2 % py						
59.0	66.8	90	DACITE - lt grey-occ 4 mm banded qtz strs @ 40° to core-epidote strs-Otz bx @ 62.5 and 65.8 m Gouge 63.7-64.3 m						
			END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-2

DIP TEST		
Footage	Angle	
	Reading	Corrected
66.8	66	60

Hole No. _____ Sheet No. 1 Lat. 2305.56
 Section _____ Dep. 12333.70
 Date Begun June 17, 1987 Bearing -61° @ 140°
 Date Finished June 18, 1987 Elev. Collar 1791.28
 Date Logged _____

Total Depth 78.6 m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag
								(oz/t)	(oz/t)
0	19.8		CASING						
19.8	20.7	95	QTZ-CARB VEIN - vuggy-up to 10% dissem py clots	17513	19.81	-20.66	0.85	0.001	0.01
20.7	25.5	95	GREY DACITE - QSP Altn - occ 2-4mm qtz strs @ 30° to core-2% dissem py	17514	20.66	-22.19	1.53	0.001	0.02
25.5	34.1	60	GREY DACITE - QSP Altn-fault gouge @ 25.5 and 27.3 m - badly broken - more qtz veining than previous; py 5-8%	17515	22.19	-23.87	1.68	0.001	0.01
				17516	23.87	-25.55	1.68	0.001	0.01
				17517	25.55	-27.68	2.13	0.001	0.01
				17518	27.68	-29.81	2.13	0.001	0.01
				17519	29.81	-31.94	2.13	0.001	0.01
34.1	49.1	90	ANDESITE - green-2-5% py-Epidote patches and strs- plu pink zeolite-Occ 4 mm banded qtz vlts @ 60° to core- Pink K-spar altn @ 37.2m - Py and po locally to 10%- 2-4 mm px phenos evident						
49.1	52.7	85	ANDESITE - as previous but with num 4 mm - 4 cm banded grey qtz veins @ 60° 1/2.5 cm spacing- badly broken 50.3-51m						
52.7	57.0	90	DACITE - QSP Altn-grey banded qtz vlts Occ pink zeolite strs						
57.0	60.7	90	GREY ANDESITE - badly broken						
60.7	62.9	90	SHEAR ZONE - abundant clay gouge - 50% qtz - minor sulfides	17521	60.66	-62.19	1.53	0.001	0.06
				17522	62.19	-62.95	0.76	0.001	0.05

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-2

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
62.9	-66	8 85	ANDESITE - grey- occ qtz vlts only						
66.8	71.3	90	GREY DACITE - QSP Altn-Num 2 mm qtz vlts @ 70° to core-in central section plus silicified areas - vlts are banded, grey, and offset by frs parallel to core	17523	70.41	-71.32	0.91	0.001	0.01
71.3	73.9	75	QUARTZ VEIN - gouge zone at top - 3 cm- 0.6 m - core loss- may be sheared wallrx in part- shearing @ 60° to core - dark grey minerals plus 5% finely dissem py	17524	71.32	-71.93	0.61	0.001	0.01
				17525	71.93	-72.54	0.61	0.008	0.06
				17526	72.54	-73.15	0.61	0.001	0.01
				17527	73.15	-73.94	0.79	0.001	0.01
				17528	73.94	-74.31	0.37	0.006	0.06
				17529	74.31	-75.53	1.22	0.001	0.05
73.9	78.6	90	ANDESITE - sheared-epidote altn- initial 0.37 m sheared with qtz-contact @ 60°, followed by qtz vlts to 75.3m						
END OF HOLE									

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-3

DIP TEST		
Footage	Angle	
	Reading	Corrected
102.7	76	71

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun June 18, 1987
 Date Finished June 21, 1987
 Date Logged _____

Lat. 2305.56
 Dep. 12333.70
 Bearing -73°@140°
 Elev. Collar 1791.28

Total Depth 118.9m
 Logged By NCC
 Mining Lease 13
 Claim NO
 Core Size _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
0	10.7		CASING						
10.7	23.3	35	ANDESITE - badly broken- lost core-several gouge zones						
23.3	24.7	90	OTZ (CARB) VEIN - broken upper contact- lower tight @ 60° to core-2-5% finely dissem py plus dk grey mineral	17530	23.32	23.93	0.61	0.001	0.01
				17531	23.93	24.69	0.76	0.001	0.01
24.7	27.4	90	DACITE - creamy white to lt grey-30% qtz in matrix - 5% dissem py	17532	24.69	26.21	1.52	0.001	0.01
27.4	34.7	60	DACITE - QSP Altn-badly broken- num gouge zones-py strs in typical banded qtz vlts 0.6m gouge @ 32.9m						
34.7	39.6	70	ANDESITE - green to grey-4mm pink K-spar vlts @ top of section-badly broken- 0.6m gouge @ 39.9m						
39.6	48.5	70	DACITE - QSP Altn-badly broken-num gouge zones						
48.5	53.9	90	DACITE - QSP Altn - 0.6m gouge zones @ 50 and 51.5m-banded qtz vlts -2mm-2cm @ 45° to core-5% py-Brown carb flooding @ 50.3m with incl of qtz str						
53.9	61.1	90	DACITE - QSP Altn-qtz flooding-py to 5% gypsum on frs. Bx of qtz vlts	17533	54.25	55.77	1.52	0.006	0.05
				17534	55.77	57.29	1.52	0.001	0.05

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-3

DIP TEST		
Angle		
Footage	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
61.1	62.3	90	SKARN ALTN - garnet, carb, K-feldspar with sooty grey to black mineral (ZnS) and 10-15% py	17535	61.72	62.33	0.61	0.005	0.11
62.3	66.8	90	DACITE - QSP Altn-brown carb altn plus K-feldspar - 1cm gypsum vein @ 40° @ 63.4 0.3m qtz-carb vein @ 64m - Num banded grey qtz vlts @ 60° to core with dissem py						
66.8	68.6	90	DACITE - QSP Altn - fewer qtz vlts than previous plus abundant K spar and silicification - 5-10% dissem py						
68.6	80.8	90	DACITE - QSP Altn grey to lt green matrix Num 2-4mm vlts @ 60° - 1 per 2.5cm- Gouge @ 74.1 and 77.2m - qtz vlts more numerous near end of section						
80.8	87.6	95	DACITE - QSP Altn-few qtz vlts but qtz in matrix-finely dissem py to 5% - 0.6m gouge @ 50° @ 83.8m beyond which silica content increases - vuggy qtz near end of section	17536	86.11	87.63	1.52	0.002	0.06
87.6	90.8	95	QTZ VEIN - vuggy character-2mm vesicles- Upper contact tight @ 30°. Grey mineral plus 10-15% py in streaks @ 88.4m- Alt'd wallrock incl prevalent-lower contact indistinct- local fine dissem cp	17537	87.63	88.24	0.61	0.006	0.06
				17538	88.24	88.85	0.61	0.026	0.18
				17539	88.85	89.46	0.61	0.007	0.06
				17540	89.46	90.07	0.61	0.079	0.30
				17541	90.07	90.83	0.76	0.057	0.13

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-3

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 3 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au			Ag		Pb	
							(oz/t)	(oz/t)	(oz/t)	(oz/t)	(oz/t)	(oz/t)	Zn (ppm)
90.8	94.5	95	DACITE - OSP Altn - lt grey-cherty-occ 2mm px remnants-stockwork of 1-2mm qtz vlts- 3-5% finely dissem py	17542	90.83	91.74	0.91	0.004	0.01	0.04			
				17543	91.74	92.65	0.91	0.001	0.04				
94.5	98.3	95	DACITE - QSP Altn zone-varies from cherty (intravolcanic sediment?) to normal texture										
98.3	99.4	95	SILICIFIED ZONE - abundant qtz flooding- PbS, ZnS at end of section - 5-10% py	17544	98.30	98.91	0.61	0.004	0.08	128			
				17545	98.91	99.37	0.46	0.008	0.18	6750			
99.4	105.5	95	DACITE - QSP Altn as previous - cherty- Gypsum vein - 1cm- at start - later than qtz vlts										
105.5	109.7	95	QSP Altn - late carb altn as veins which cut qtz vlts with gypsum-0.3m qtz vein @ 60° @ 108.2m - bx with clay altn beyond this plus gouge to 109.7m with abundant clay and carb										
109.7	112.3	95	QSP Altn- 5% dissem py and 0.3m qtz vein @ 50° @ 109.7 and 111.6 - vuggy	17546	109.73	111.10	1.37	0.001	0.08				
				17547	111.10	112.32	1.22	0.006	0.08				
				17548	112.32	112.93	0.61	0.046	0.18				
112.3	114.8	95	QTZ VEIN - vuggy with py and dk grey mineral	17549	112.93	113.54	0.61	0.048	0.08				
				17550	113.54	114.15	0.61	0.019	0.07				
				17551	114.15	114.76	0.61	0.026	0.06				
114.8	115.8	95	QSP Altn with silica flooding	17552	114.76	115.83	1.07	0.036	0.12				
115.8	118.9	95	ANDESITE -green-qtz-K-spar veins, epidote strs										

END OF HOLE

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-4

DIP TEST		
Angle		
Footage	Reading	Corrected
146.9	63	56

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun June 21, 1987
 Date Finished June 23, 1987
 Date Logged _____

Lat. 2334.99
 Dep. 12303.51
 Bearing -58° @ 140°
 Elev. Collar 1789.39

Total Depth 146.9m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
0	3.0		CASING						
3.0	14.6	85	ANDESITE PORPHYRY - green-1-3mm px phenos oxidized fr planes-to 12.2m-badly broken-5% py						
14.6	21.6	85	ANDESITE PORPHYRY as previous - 0.3m fault gouge at start-py seams (5%) @ 40° to core						
21.6	32.6	75	ANDESITE - badly broken - num frs @ 40° with chlorite and pink zeolite						
32.6	44.5	75	ANDESITE - medium green-porphyrific in part-num frs @ 30-60° to core - blocky-py on frs						
44.5	45.0	95	QUARTZ VEIN - finely dissem py to 5% Lower contact @ 60°						
45.0	47.2	90	ANDESITE - porphyritic-						
47.2	47.7		ANDESITE - fault gouge parallel to core						
47.7	48.8	95	ANDESITE - variably silicified with chlorite-epidote altn						
48.8	50.6	95	ANDESITE - silicified with abundant qtz lenses and 2mm strs - 5% py-pink K-spar and orange qtz strs	17553	48.77	50.60	1.83	0.004	0.08

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-4

DIP TEST		
Footage	Angle	
	Reading	Corrected

Sheet No. 2

Hole No. _____ Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au		Ag	
								(oz/t)	(oz/t)	(oz/t)	(oz/t)
50.6	54.7	95	QUARTZ VEIN - indistinct upper and lower contacts (tight)-num 4mm strs dk grey sulfide (ZnS) plus py and epidote Wallrock inclusions - mainly lt grey QSP altn 51.8-53.3m - Drusy qtz @ 53.8m	17554	50.60	51.64	1.04	0.001	0.22	0.006	0.55
				17555	51.64	52.68	1.04	0.005	0.30	0.013	0.17
				17556	52.68	53.72	1.04				
				17557	53.72	54.72	1.00				
54.7	60.2	95	DACITE - QSP Altn- lt grey-2mm qtz vlts @ 40° plus 10cm qtz lenses @ 56.1, 59.0, -gradational contacts	17558	54.72	56.55	1.83	0.011	0.18	0.002	0.04
				17559	56.55	58.38	1.83	0.002	0.05		
				17560	58.38	60.21	1.83				
60.2	62.5	95	QUARTZ VEIN - some wallrock inclusions- drusy texture, broken @ 60.7m, dk grey mineral - ZnS ₂ -PbS plus py to 5% and possible cp	17561	60.21	60.67	0.46	0.011	0.24	0.006	0.70
				17562	60.67	61.28	0.61	0.012	0.60	0.006	0.06
				17563	61.28	61.89	0.61				
				17564	61.89	62.50	0.61				
62.5	68.1	90	DACITE - QSP Altn- num qtz strs and irreg qtz lenses-qtz flooding last 1m and shearing - gouge	17565	62.50	64.02	1.52	0.002	0.02	0.001	0.01
				17566	64.02	65.54	1.52	0.001	0.05	0.001	0.07
				17567	65.54	67.06	1.52				
				17568	67.06	68.06	1.00				
68.1	79.1	95	ANDESITE - medium green-qtz flooding and 4cm qtz strs @ 45° @ 71-71.6m, Py on frs - up to 15-20% @ 78.3								
79.1	80.8	95	QTZ FELDSPAR PORPHYRY - sharp contacts @ 45°- inclusions of bleached andesite; 10-15% pyrite in central part of section								
80.8	82.8	90	DACITE - QSP Altn-qtz vlts,py seams and gouge zones @ 45°								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-4

DIP TEST		
Angle		
Footage	Reading	Corrected

Sheet No. 3

Hole No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Logged By _____
Date Begun _____	Bearing _____	Claim _____
Date Finished _____	Elev. Collar _____	Core Size _____
Date Logged _____		

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au		Ag	
								(oz/t)	(oz/t)	(oz/t)	(oz/t)
82.8	86.6	95	ANDESITE - grey-green-uniform texture; qtz-zeolite strs-broken at end of section								
86.6	91.0	95	DACITE - QSP Altn-1m gouge @ 87.5m	17569	90.07	91.01	0.94	0.005		0.13	
91.0	92.2	95	QUARTZ VEIN - 3cm gouge on upper contact, irregular lower contact @ 40°; 10-15% sulfides-mainly py with some cp and possible ZnS- section includes silicified wallrock	17570	91.01	91.59	0.58	0.032		1.17	
				17571	91.59	92.20	0.61	0.017		0.58	
92.2	101.7	90	DACITE - QSP Altn-occ qtz strs-carb strs and gouge zones	17572	92.20	93.72	1.52	0.006		0.20	
101.7	102.5	95	QUARTZ (CARB) VEIN- occ 2cm ang frags-alt'd wallrock-brecciated-vuggy, sharp contacts @ 45°- dissem py	17573	100.28	101.44	1.16	0.005		0.01	
				17574	101.44	101.81	0.37	0.012		0.11	
				17575	101.81	102.21	0.40	0.002		0.05	
				17576	102.21	103.34	1.13	0.001		0.02	
102.5	116.9	95	DACITE - QSP Altn-gouge zones @ 45°; 2mm qtz strs @ 30°- qtz rich section 110-111.5m; 0.15m fault gouge @ 110.2m 5% dissem py	17577	110.03	111.55	1.52	0.001		0.11	
				17578	115.84	116.86	1.52	0.006		0.18	
116.9	118.8	95	QUARTZ VEIN = num wallrock inclusions; dissem py clots plus dk grey to black mineral (ZnS) - tight contacts	17579	116.86	117.47	0.61	0.002		0.06	
				17580	117.47	118.08	0.61	0.005		0.05	
				17581	118.08	118.78	0.70	0.017		0.11	
118.8	120.1	95	DACITE - QSP Altn-num 2cm rounded qtz inclusions	17582	118.78	120.09	1.31	0.005		0.04	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-4

DIP TEST		
Footage	Angle	
	Reading	Corrected

4

Hole No. _____ Sheet No. _____ Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
120.1	122.1	95	DACITE - grey, aphanitic, K-feldspar and qtz str						
122.1	127.1	95	DACITE - QSP Altn- original px phenos evident-num qtz str, 5% py						
127.1	128.9	95	DACITE - lt grey, aphanitic, some qtz str and dissem py						
128.9	134.3	95	DACITE - QSP Altn-lt grey to creamy white, num qtz str and frs - 1/lcm @ 35° to core Multiple stage veining locally faulted and brecciated-late stage Ov @ 60° to core -cuts vlt. Increasing qtz to end of section - 8cm fault bx @60° at end qtz frags in gouge	17583	132.74	134.26	1.52	0.005	0.04
134.3	139.3	90	QUARTZ VEIN - drusy, particularly in late stage creamy white quartz. First 0.6m is mainly wallrock inclusion-grades to lt grey qtz with 2-4mm drusy cavities with 3% dissem py. Wallrock inclusion=0.3m- @ 135.6m. Sharp lower contact @ 45° Cp @ 136m	17584	134.26	134.87	0.61	0.018	0.06
				17585	134.87	135.48	0.61	0.056	0.23
				17586	135.48	136.09	0.61	0.057	0.29
				17587	136.09	136.70	0.61	0.039	0.24
				17588	136.70	137.31	0.61	0.142	0.49
				17589	137.31	137.92	0.61	0.029	0.17
				17590	137.92	138.53	0.61	0.007	0.05
				17591	138.53	139.29	0.76	0.017	0.05
139.3	140.2	90	ANDESITE - grey-green, variably silicified	17592	139.29	140.20	0.91	0.008	0.06
140.2	140.8	90	QUARTZ VEIN - occ drusy cavities	17593	140.20	140.81	0.61	0.008	0.06
140.8	146.9	95	ANDESITE - pink carb str plus epidote	17594	140.81	141.72	0.91	0.010	0.11

END OF HOLE

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-5

DIP TEST		
Footage	Angle	
	Reading	Corrected
114.9	72	66

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun June 24, 1987
 Date Finished June 26, 1987
 Date Logged _____

Lat. 2334.76
 Dep. 12362.63
 Bearing -65° @ 140°
 Elev. Collar 1811.46

Total Depth 114.9m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
FROM	TO									
0	4.3		CASING							
4.3	11.3	75	ANDESITE PORPHYRY - 2-4mm px phenos in medium green matrix - finely dissem py with most sulfide on frs which are oxidized - broken and blocky							
11.3	25.3	75	ANDESITE PORPHYRY - badly broken with gouge @ 11.6, 17.7 and 20.1m; Fe stain on frs to end of section							
25.3	54.9	60	ANDESITE PORPHYRY - badly broken gouge @ 26.5, 29m; Fe stained frs to 36.6m beyond which recovery is 40% or less to 44.8m. 2mm px phenos, 2-3% dissem py							
54.9	63.1	70	ANDESITE as previous but with variable silicified zones and occ qtz str with py @ 45°; poor recovery in latter section							
63.1	65.8	50	ANDESITE - qtz, K-feldspar flooding							
65.8	77.7	50	ANDESITE PORPHYRY - 2-4mm px phenos; badly broken, significant core loss							
77.7	90.8	85	ANDESITE PORPHYRY - med green, dissem py on frs, as disseminations and in str to 5%; badly broken, pink carb frs @ 81.7m							
90.8	91.4	40	FAULT BRECCIA - gouge with qtz frags	17595	90.83	91.44	0.61		0.001	0.12

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-5

DIP TEST		
Angle		
Footage	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
91.4	93.7	80	QUARTZ VEIN - lower contact 6cm shear @ 45°, dissem dk grey to black sulfides throughout plus 5% pyrite. Green chlorite and epidote locally. 4mm sulfide bands 92-92.9m . Jasper noted	17596	91.44	91.99	0.55	0.004	0.12
				17597	91.99	92.54	0.55	0.006	0.23
				17598	92.54	93.09	0.55	0.008	0.35
				17599	93.09	93.67	0.58	0.002	0.12
93.7	100.0	85	DACITE - QSP Altn- num 4mm qtz vlts and qtz flooding. Banded qtz vlts @ 20° to core plus later glassy qtz veins. Some carb in frs	17600	93.67	95.19	1.52	0.001	0.05
				17601	95.19	96.71	1.52	0.001	0.05
				17602	96.71	98.23	1.52	0.001	0.05
100.0	114.9	95	DACITE - buff, aphanitic, occ qtz strs gradational to mottled texture @ 107.3m occ 4cm gouge zones. Qtz vein 0.3m @ 113.4m - minor py						
			END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-6

DIP TEST		
Footage	Angle	
	Reading	Corrected
142.3	78	75

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun June 27, 1987
 Date Finished June 29, 1987
 Date Logged _____

Lat. 2334.76
 Dep. 12362.08
 Bearing -75° @ 140°
 Elev. Collar 1811.46

Total Depth 142.3m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
FROM	TO										
0	4.3		CASING								
4.3	18.9	70	ANDESITE PORPHYRY - 2-4mm px phenos in medium green matrix. Fractured and badly broken with Fe stain on frs throughout								
18.9	21.3	80	ANDESITE - Fe stain, cut by num qtz-carb str								
21.3	28.7	60	ANDESITE PORPHYRY - badly broken-core loss								
28.7	34.1	75	ANDESITE PORPHYRY - 3-5% dissem py, Fe stain to 29m - broken								
34.1	47.9	50	ANDESITE - badly broken- silicified section with some qtz @ 36.6m, py clots								
47.9	61.7	70	ANDESITE PORPHYRY - some silicified sections K-feldspar altn- finely dissem py to 2%; Cave @ 60.4m								
61.7	66.1	70	DACITE - lt brown-aphanitic, finely dissem py								
66.1	78.6	70	ANDESITE - ppy texture, local 5-10% sulfides on frs; lithic frags @ 72.8m; badly broken core								
78.6	91.1	80	ANDESITE PORPHYRY - 4mm px phenos - badly broken with core loss to 87.5m; 4mm qtz vlts @ 89m, gouge at end of section								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-6

DIP TEST		
Footage	Angle	
	Reading	Corrected

Sheet No. 2

Hole No. _____ Section _____ Lat. _____ Total Depth _____
 Date Begun _____ Date Finished _____ Bearing _____ Logged By _____
 Date Logged _____ Elev. Collar _____ Core Size _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au	Ag	Pb	Zn
FROM	TO								(oz/t)	(oz/t)	(ppm)	(ppm)
91.1	92.4	90	DACITE - buff-silicified with 5-10% py	17603	91.13	92.36	1.22	0.004	0.07	34	3300	
92.4	97.2	90	QUARTZ VEIN - with qtz veined and silicified wallrock; upper contact @ 45°; to 93.7m drusy white qtz with minor wallrock inclusions and up to 5% py and some ZnS; to 96m qtz veined and silicified dacite; to end of section, drusy qtz vein with dk grey mineral - lower contact sheared @ 45°	17604	92.36	93.03	0.67	0.002	0.07	16	54	
				17605	93.03	93.73	0.70	0.001	0.11	24	68	
				17606	93.73	94.83	1.10	0.001	0.12	33	74	
				17607	94.83	95.96	1.13	0.002	0.12	8500	19000	
				17608	95.96	96.57	0.61	0.006	1.45	200	5000	
				17609	96.57	97.18	0.61	0.001	0.29			
97.2	98.5	90	ANDESITE - gouge zone, shearing @ 40° to core with some bx and lcm qtz frags	17610	97.18	98.46	1.28	0.006	0.14			
98.5	102.9	95	DACITE - QSP Altn-mottled white to buff matrix-num qtz strs and veins with dissem py									
102.9	116.4	95	DACITE - buff to grey-some cherty sections num pink zeolite frs - faint banding locally with carb strs - Py to 2%									
116.4	118.6	95	DACITE - QSP Altn as previous									
118.6	125.6	95	DACITE - buff - occ lithic frags and faint banding - intraval sediment Broken 121-124.lm									

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-6

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 3 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au		Ag	
								(oz/t)	(oz/t)	(oz/t)	(oz/t)
125.6	126.5	95	QTZ-K-Feldspar Vein-no obvious sulfides	17611	125.58	126.49	0.91	0.002	0.13		
126.5	139.6	95	DACITE as previous - intravol sediment?								
139.6	141.0	95	QUARTZ VEIN - wallrock incl @ 139.9m	17612	139.60	140.97	1.37	0.001	0.21		
END OF HOLE											

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-7

DIP TEST		
Footage	Angle	
	Reading	Corrected
172.8	75	70

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun _____
 Date Finished June 29, 1987
 Date Logged July 2, 1987

Lat. 2352.10
 Dep. 12345.45
 Bearing -70 @ 140°
 Elev. Collar 1807.12

Total Depth 172.8m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au		Ag	
							(oz/t)	(oz/t)	(oz/t)	(oz/t)
0	4.3	CASING								
4.3	24.1	80								
		ANDESITE PORPHYRY - medium green, 2-4mm px phenos-Fe stained frs, badly broken 3% finely dissem py								
24.1	58.5	60								
		ANDESITE PORPHYRY - badly broken with num gouge zones and core loss-minor qtz veining and pink carb strrs near end of section								
58.5	70.4	70								
		ANDESITE PORPHYRY - num pink zeolite filled frs; better recovery than previous								
70.4	81.1	75								
		ANDESITE PORPHYRY - uniform texture								
81.1	81.4	90								
		QUARTZ VEIN - drusy with py and dk grey mineral	17613	81.08	81.38	0.30	0.005	0.12		
81.4	90.8	60								
		ANDESITE - ppy texture- 5%+ dissem py-chloritic slips, badly broken								
90.8	93.5	50								
		DACITE - QSP Altn-abundant qtz	17614	90.83	93.48	2.65	0.006	0.19		
93.5	96.9	85								
		QUARTZ VEIN - drusy in part with dissem py (+cp) and dk grey mineral and epidote Chloritic frs; poor recovery at end of section	17615	93.48	94.09	0.61	0.005	0.48		
			17616	94.09	94.70	0.61	0.001	0.26		
			17617	94.70	95.31	0.61	0.005	0.47		
			17618	95.31	96.10	0.79	0.006	0.65		
			17619	96.10	96.92	0.82	0.008	0.31		
96.9	107.6	55								
		DACITE - QSP Altn-badly broken plus local gouge zones - poor recovery	17620	96.92	99.66	2.74	0.001	0.07		

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-7

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au		Ag	
								(oz/t)	(oz/t)	(oz/t)	(oz/t)
107.6	109.4	90	DACITE - QSP Altn - mottled matrix; num dk grey qtz strs and white qtz pods with dissem py	17621	107.59	109.42	1.83	0.002	0.06		
109.4	118.9	90	DACITE - sheared-num carb strs and chlor slips @ 30° except for last 1.5m								
118.9	119.6	95	QUARTZ VEIN - drusy in part-some chlor partings with dissem py and dk grey mineral	17622	118.87	119.63	0.76	0.017	1.06		
119.6	122.5	95	DACITE - buff-aphanitic-abundant qtz strs in intial section	17623	119.63	121.15	1.52	0.004	0.21		
122.5	128.3	95	DACITE - QSP Altn-original adesite ppy texture partly evident - qtz rich section @ 127.10 - some lithic frags								
128.3	135.9	95	DACITE - buff, gradational with previous; increasing qtz content								
135.9	137.8	95	QSP Altn - abundant drusy qtz lenses with py locally to 10%; 3cm gouge @ 137m	17624	135.94	136.85	0.91	0.001	0.06		
				17625	136.85	137.76	0.91	0.001	0.09		
137.8	140.7	95	QUARTZ VEIN - gradational with previous; may be silicified wallrock with buff inclusions and carbonate	17626	137.76	138.37	0.61	0.001	0.09		
				17627	138.37	138.98	0.61	0.006	0.18		
				17628	138.98	139.59	0.61	0.012	0.44		
				17629	139.59	140.20	0.61	0.005	0.17		
140.7	150.9	95	DACITE - buff, aphanitic,num qtz lenses and banded vlts -dk grey, 5% pyrite	17630	140.20	140.65	0.46	0.005	0.13		
				17631	140.65	142.33	1.68	0.001	0.11		

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-7

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 3 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
150.9	155.8	95	DACITE as previous but with fewer qtz str occ epidote strs and abundant pink K-feldspar altn adjacent to frs						
155.8	164.6	95	DACITE - QSP Altn-gradational with previous - K-feldspar altn and num qtz lenses						
164.6	166.4	95	QSP Altn - abundant qtz	17632	164.59	165.50	0.91	0.005	0.07
166.4	167.9	95	QUARTZ VEIN - drusy texture, minor py, wallrock inclusions with grey mineral, carb on frs	17633	165.50	166.41	0.91	0.005	0.06
				17634	166.41	167.17	0.76	0.023	0.18
				17635	167.17	167.93	0.76	0.047	0.41
167.9	170.1	95	QSP Altn - mottled texture, minor qtz	17636	167.93	169.45	1.52	0.006	0.13
170.1	172.8	95	DACITE lt brown-aphanitic, qtz str @ 172 - pink zeolite on frs						
END OF HOLE									

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-8

DIP TEST		
Footage	Angle	
	Reading	Corrected
90.5	65	60

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun July 2, 1987
 Date Finished July 3, 1987
 Date Logged _____

Lat. 2210.63
 Dep. 12324.69
 Bearing -60° @ 330°
 Elev. Collar 1777.30

Total Depth 90.5m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
0	24.4		CASING						
24.4	33.8	80	ANDESITE - medium green-broken, num chlor slips - micro frs with py, qtz-carb- K-feldspar vlts locally						
83.8	36.9	85	DACITE - buff to pink - minor qtz vlts @ 34.4; py on frs						
36.9	45.4	90	ANDESITE - gradational with previous, 4cm qtz vein @ 42.7m; py on frs						
45.4	46.9	90	DACITE as previous - pink; K-feldspar- qtz altn and qtz veining 45.7-46.3m; 5% dissem py on frs; Epidote and K-feldspar Altn 49.7-50.3m						
46.9	52.1	95	ANDESITE - uniform green; 5% py dissem and on frs						
52.1	63.1	95	DACITE - buff, aphanitic, occ qtz strs and 5% dissem py. Irreg qtz veining 54.9-55.8m with sulfides incl cp and zns @ 55.4m	17637	54.86	55.93	1.07	0.012	0.93
63.1	64.3	95	DACITE - QSP Altn-sheared nearly parallel to core, gouge with qtz last 0.3m. Irreg qtz lenses @ 63.7m; lcm carb strs parallel to core	17638	63.09	64.31	1.22	0.019	0.26

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-8

DIP TEST		
Footage	Angle	
	Reading	Corrected

Sheet No. 2

Hole No. _____ Section _____ Date Begun _____ Date Finished _____ Date Logged _____

Lat. _____ Dep. _____ Bearing _____ Elev. Collar _____

Total Depth _____ Logged By _____ Claim _____ Core Size _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag	Cu
								(oz/t)	(oz/t)	(ppm)
64.3	69.6	95	QUARTZ VEIN - initial 1.2m broken with some clay gouge; to 65.8m grey to white with some carb rich frags and low sulfide content; to 67.5m greyish cast with dissem py, cp and dk grey mineral and possible bornite; to end of section, qtz is brecciated with fair amt cp.	17639	64.31	-64.92	0.61	0.023	0.18	780
				17640	64.92	-65.53	0.61	0.058	0.12	1700
				17641	65.53	-66.14	0.61	0.144	0.16	4430
				17642	66.14	-66.75	0.61	0.153	0.35	6000
				17643	66.75	-67.36	0.61	0.337	0.49	13000
				17644	67.36	-67.97	0.61	0.277	1.75	4500
				17645	67.97	-68.58	0.61	0.011	0.01	60
			Indistinct broken contacts	17646	68.58	-69.19	0.61	0.082	0.12	740
				17647	69.19	-69.65	0.46	0.598	0.35	9500
69.6	76.5	95	DACITE - QSP Altn-irreg qtz lenses @ start, then lcn vltz @ 40° to core, locally heavy pyrite; carb-clay gouge and shearing @ 40° @ 71.9, 75.9 and end	17648	69.65	-71.16	1.52	0.025	0.13	
76.5	82.6	95	DACITE - buff, abundant py in 3mm seams, @ 45°, silicified with some patchy dk brown sections							
82.6	85.3	95	ANDESITE - some py seams as previous-gradational with previous, 3cm fault bx healed by qtz @ 87.6m							
85.3	88.1	95	DACITE as previous - broken							
88.1	90.5	95	DACITE - QSP altn- gouge and broken last 1.2m. Num grey 2mm qtz strz throughout							
			END OF HOLE							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-9

DIP TEST		
Footage	Angle	
	Reading	Corrected
38.7	53	45

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun July 4, 1987
 Date Finished July 4, 1987
 Date Logged _____

Lat. 2242.87
 Dep. 12263.73
 Bearing -45° @ 140°
 Elev. Collar 1756.42

Total Depth 38.7
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Cu (ppm)
FROM	TO									
0	4.5		CASING							
4.5	16.5	85	DACITE - buff to brown with num qtz lenses, and str; broken sections with gouge to 8.2m; lithic frags in green matrix @ 14.9m 5% py on frs							
16.5	29.1	85	DACITE - gouge initial 0.9m, qtz-carb altn 16.8-18.3m; broken with gouge zones 20.4-22.6 and 25-25.6m. Typical QSP altn over last 3m with irreg qtz lenses and str with pyrite. Vlts @ 45° to core. Carb-clay altn @ 28.7m	17649	28.19	29.10	0.91	0.024	0.18	
29.1	33.5	90	QUARTZ VEIN - upper contact @ 40°, lower contact indistinct-broken; initial 0.6m dissem py (cp) clots, next 0.6m white qtz, ehlor partings little sulfide; to 31.7m dk grey dissem mineral grading to dissem cp; to end of section - some carb, green mica and dissem sulfides	17650	29.10	29.71	0.61	1.808	1.34	15000
				17651	29.71	30.32	0.61	0.630	0.64	4150
				17652	30.32	30.93	0.61	0.165	6.77	930
				17653	30.93	31.54	0.61	1.867	4.26	12800
				17654	31.54	32.15	0.61	3.063	1.40	10500
				17655	32.15	32.76	0.61	1.429	0.65	3600
				17656	32.76	33.52	0.76	0.618	1.05	5700
33.5	36.9	95	DACITE - grey to buff, aphanitic, sheared with gouge parallel to core @ 34.7m then broken core to end of section; Orange qtz str with py seams throughout	17657	33.52	34.74	1.22	0.016	0.79	
36.9	38.7	95	DACITE - ANDESITE- gradational-uniform grey-green with occ qtz str							
			END OF HOLE							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-10

DIP TEST		
Footage	Angle	
	Reading	Corrected
50.9	65	58

Hole No. _____	Sheet No. <u>1</u>	Lat. <u>2242.87</u>	Total Depth <u>50.9m</u>
Section _____		Dep. <u>12263.73</u>	Logged By <u>NCC</u>
Date Begun <u>July 4, 1987</u>		Bearing <u>-58° @ 140°</u>	Claim <u>Mining Lease 13</u>
Date Finished <u>July 5, 1987</u>		Elev. Collar <u>1756.42</u>	Core Size <u>NQ</u>
Date Logged _____			

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
FROM	TO									
0	7.9		CASING							
7.9	17.4	80	DACITE - buff, aphanitic, num qtz strs -4mm @ 50° to core; 5-10% py as dissem and on frs. Original ppy texture noted locally							
17.4	19.2	90	ANDESITE - lt green-uniform texture; Some frags noted							
19.2	24.4	90	DACITE - 2mm py seams @ 30°							
24.4	29.6	90	ANDESITE - gradational with previous but with epidote-same 5-10% py content							
29.6	36.6	90	DACITE - buff; K-feldspar altn locally, Qtz veining with abundant pyrite 30.1	17658	30.18	31.40	1.22		0.001	0.07
			31.3m, 35.2-36.7m	17659	35.20	36.57	1.37		0.007	0.08
36.6	40.1	90	DACITE - sheared with abundant carb-clay gouge; shearing parallel to 20° to core Minor qtz veining	17660	38.56	40.08	1.52		0.001	0.14
40.1	42.1	95	QUARTZ VEIN - upper contact @ 70° with gouge (2cm). Lower contact indistinct and broken with minor gouge. Vein is lt grey to white-some bx, tight with minor drusy texture. Dissem py with some hint of grey mineral - probable core loss	17661	40.08	40.75	0.67		0.011	0.09
				17662	40.75	41.42	0.67		0.003	0.11
				17663	41.42	42.06	0.64		0.006	0.05

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-10

DIP TEST		
Angle		
Footage	Reading	Corrected

Hole No. _____ Sheet No. 2

Section _____

Date Begun _____

Date Finished _____

Date Logged _____

Lat. _____ Total Depth _____

Dep. _____ Logged By _____

Bearing _____ Claim _____

Elev. Collar _____ Core Size _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
42.1	44.8	70	DACITE - mottled texture in part-lt brown minor qtz veining, py seams-significant core loss	17664	42.06	43.58	1.52	0.006	0.31
44.8	49.1	95	DACITE - intravolcanic sediment-banding @ 45° to core						
49.1	50.9	95	DACITE - initial 0.3m gouge section - broken to end						
			END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-11

DIP TEST		
Footage	Angle	
	Reading	Corrected
68.6	76	70

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun July 5, 1987
 Date Finished July 6, 1987
 Date Logged _____

Lat. 2242.87
 Dep. 12263.73
 Bearing -70° @ 140°
 Elev. Collar 1756.42

Total Depth 68.6m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
0	4.6		CASING						
4.6	11.9	70	DACITE - QSP Altn-creamy white with occ 2mm qtz strs-broken with cave sections-Gouge at end of section						
11.9	13.4	90	QUARTZ VEINING in gouge and QSP altd zone 15cm qtz vein @ start with dissem py and green mica	17665	11.89	13.41	1.52		
13.4	33.5	90	DACITE - qtz vlts and irreg white qtz lenses throughout with 5-10% py on frs. 0.3m gouge zones @ 13.7 and 15.8m. Pink carb and zeolite @ 22.9m-continues with some epidote altn to end. Qtz lenses @ 19.5, 22.5 and 29.2m- 5cm fault bx @ end						
33.5	46.3	95	ANDESITE - dk green-few qtz strs pink carb and zeolite filled frs; uniform texture						
46.3	49.4	95	DACITE - num py strs @ 20° to core. Prominent brownish tinge to 49.4m and local frag texture						
49.4	52.4	95	DACITE - lt grey-silicified, some py strs						
52.4	54.7	90	DACITE - sheared parallel to core with abundant clay-carb gouge-some 4mm qtz strs	17666	53.19	54.71	1.52	0.016	0.08

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-11

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
54.7	56.4	75	QUARTZ VEIN - sheared wallrock inclusions 55 and 56.1m - each 0.3m size. Qtz is lt grey to white-minor dissem py - no drusy texture	17667	54.71	55.26	0.55	0.033	0.17
				17668	55.26	55.81	0.55	0.002	0.05
				17669	55.81	56.39	0.58	0.001	0.01
56.4	60.0	90	DACITE - lt grey to buff; badly sheared with num slips @ 20-45°. Broken core	17670	56.39	57.91	1.52	0.001	0.12
60.0	68.6	95	INTRAVOLCANIC SEDIMENT - banding @ 45° to core- qtz-carb strs @ 64m. 2cm subrounded clasts @ 62.8 - cherty						
			END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-12

DIP TEST		
Footage	Angle	
	Reading	Corrected
No Test		

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun July 6, 1987
 Date Finished July 6, 1987
 Date Logged _____

Lat. 2245*
 Dep. 12264*
 Bearing -45° @ 140°
 Elev. Collar 1751*

Total Depth 30.5m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

* Not Surveyed

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
0	6.7		CASING						
6.7	10.4	10*	QUARTZ VEIN - badly broken and ground- significant core loss; should be main vein - only 0.37m badly broken core Drusy - 2mm vugs	17671	6.71	-10.36 (0.37m core)	3.66*	0.362	0.30
10.4	16.2	75	DACITE - gouge to 12.5m; 0.3m Qv @ 13.4m Broken to end of section-Mo on frs @ 13.9m	17672	10.36	-12.49	2.13	0.009	0.41
				17673	12.49	-14.01	1.52	0.006	0.31
16.2	20.6	80	DACITE - as previous but not as badly broken						
20.6	30.5	90	QTZ FELDSPAR PORPHYRY dyke - partly chilled margin to 21.9m-grey mineral on frs @ start, Crowded 2mm qtz eyes and 4mm-1cm white feldspar phenos with some chlor hbld phenos to 4mm. Notable lack of qtz veining Abundant sericite-clay altn - uniform creamy white color						
			END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-13

DIP TEST		
Footage	Angle	
	Reading	Corrected
77.7	53	45

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun July 6, 1987
 Date Finished July 8, 1987
 Date Logged _____

Lat. 2230.53
 Dep. 12211.43
 Bearing -45° @ 140°
 Elev. Collar 1734.82

Total Depth 77.7m
 Logged By NCC
 Claim Mining Leas 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
0	9.1		CASING						
9.1	22.3	80	ANDESITE - medium green - some altn to dacitic variety @ 13-14.5m - 5% py on frs Qtz-K-feldspar strs locally; broken throughout Gouge @ 13m						
22.3	23.3	90	QTZ FELDSPAR PORPHYRY (QFP) Dyke - broken						
23.3	31.1	85	ANDESITE - badly broken with clay gouge zones @ 25, 26-27.5m						
31.1	36.4	90	DACITE - bordering on QFP altn - badly broken @ end of section						
36.4	54.3	90	QFP Dyke - lt grey to white - finer grained chilled margin @ start - Gouge @ 37.5m, Pyrite seam @ 40.2m; Gouge @ 39, 41.5, 42 and 48m. Pyrite dissem locally - silicified near end of section with occ Qtz veins - Mislatch @ 55.2m - 0.6m lost core which may include lower contact						
54.3	57.0	95	DACITE - lt brown - Qtz strs and py seams - silicified						
57.0	58.5	95	DACITE - silicified, dissem py	17674	57.00	58.52	1.52	0.001	0.01
58.5	68.6	95	QFP - silicified, fg crowded ppy with irreg Qtz lenses - some white carb strs	17675	67.06	68.58	1.52	0.001	0.01

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-13

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag
FROM	TO						(oz/t)	(oz/t)
68.6	71.8	95 OFP - Qtz veining to 50%+ over much of section and includes drusy Qv @ 70.7-71.3	17676	68.58	69.65	1.07	0.001	0.03
		Most veining appears to be parallel to core-drusy Qtz contains finely dissem py	17677	69.65	70.72	1.07	0.001	0.01
			17678	70.72	71.33	0.61	0.001	0.01
			17679	71.33	71.79	0.46	0.001	0.01
71.8	77.7	95 DACITE - QSP Altn-hybrid with OFP in part badly broken with gougematerial @ 74.4, 76.2 and 77.4m	17670	71.79	73.16	1.37	0.001	0.03
		END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-14

DIP TEST		
Footage	Angle	
	Reading	Corrected
93.0	61	54

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun July 8, 1987
 Date Finished July 10, 1987
 Date Logged _____

Lat. 2230.53
 Dep. 12211.43
 Bearing -55° @ 140°
 Elev. Collar 1734.82

Total Depth 93.0m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
0	9.1		CASING						
9.1	31.4	75	DACITE - grey to buff-gouge zones 11-14.3m (10% recovery), 15.5-19.5m(60% recovery) Carb strs locally-entire section badly broken, casing extended to 27m-gradational contact with following:						
31.4	43.0	90	HYBRID ZONE - dacite and QtzFeldspar Ppy (QFP) lt grey to lt green, broken with carb filled fractures; 0.3 m gouge zones @ 37.5 and 38.7m						
43.0	75.0	95	QFP - lt grey, coarse grained- 0.5-1cm subhedral grey qtz and clay altd white to lt green feldspar phenos. Gouge @ 45.4m Sericite-clay altn in matrix with 2-3% dissem py and py strs. Gouge @ 58m; Locally finer gr with 3mm mafic phenos prevalent - 1m gouge @ end of section						
75.0	77.4	95	QFP as previous but with occ qtz strs and irreg white qtz lenses and 1cm py clots	17681	74.98	76.20	1.22	0.002	0.01
				17682	76.20	77.42	1.22	0.003	0.06
77.4	78.1	95	QTZ (CARB) VEIN - sheared contacts-carb to 20% as clots - dissem py, locally vuggy	17683	77.42	78.09	0.67	0.001	0.01
78.1	86.0	95	QFP - lt grey-some qtz lenses-minor py gouge zones 78.9 and 79.6m, Qtz veining with py @ end of section	17684	78.09	79.00	0.91	0.001	0.01
				17685	79.00	79.91	0.91	0.001	0.05
				17686	84.27	85.95	1.68	0.001	0.03

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-14

DIP TEST		
		Angle
Footage	Reading	Corrected

Sheet No. 2

Hole No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Logged By _____
Date Begun _____	Bearing _____	Claim _____
Date Finished _____	Elev. Collar _____	Core Size _____
Date Logged _____		

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
86.0	89.4	95	OFP - num frs with pyrite						
89.4	93.0	95	DACITE - sheared with fault bx and py in initial 0.7m - Silicified with qtz lenses pyrite and ZnS? 90.5-92.4m-badly broken, shear zone @ 45° to core @ 90.6m (5cm)	17687	90.53	92.36	1.83	0.001	0.03
			END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-15

DIP TEST		
Footage	Angle	
	Reading	Corrected
120.4	64	58

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun July 10, 1987
 Date Finished July 12, 1987
 Date Logged _____

Lat. 2226.10
 Dep. 12369.03
 Bearing -58° @ 320°
 Elev. Collar 1798.88

Total Depth 120.4m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
0	12.2		CASING						
12.2	23.5	60	DACITE - badly broken-poor recovery, lt grey-green, silicified						
23.5	31.1	80	DACITE - lt grey-fragmental texture -broken, 20% recovery 28.3-31.1m						
31.1	35.7	80	DACITE - num carb strrs and chloritic slips						
35.7	35.8		GOUGE ZONE - clay-carbonate						
35.8	40.2	90	DACITE - QSP Altn-finely dissem py to 2%; Lenses of drusy qtz veining @ 36.9-37.5, 38.3-38.8, 39.5-39.9m. Irreg contacts; vary from 10-40° to core- most Qv contain irreg wallrock inclusions	17688	35.84	37.36	1.52	0.013	0.11
				17689	37.36	38.88	1.52	0.020	0.01
				17690	38.88	40.22	1.34	0.022	0.06
40.2	62.5	90	QTZ (CARB) VEIN - initial section has wallrock inclusions-silicified @ 40.5-41.1, 41.5-41.7 (5cm gouge @ 80°), 42.4-42.7m - all at low angles to core axis. 2-4mm white carb clots (10%) and lining drusy cavities with py particularly in first 4.6m. Green mica @ 44.3m; wallrock inclusions 44.3-44.5, 48.8, and 2cm wallrock frags 49.1-50.9m. Brecciated @ 53.3-gouge and chlor slips @ 55.2m; Vein tighter down section with wallrock incl increasing last 6m-sulfide content decreases; Mismatch 61.6m 20-50% recovery last 1m, lower contact lost	17691	40.22	40.98	0.76	0.033	0.01
				17692	40.98	41.74	0.76	0.016	0.01
				17693	41.74	42.50	0.76	0.017	0.06
				17694	42.50	43.27	0.76	0.007	0.01
				17695	43.27	44.03	0.76	0.001	0.01
				17696	44.03	44.80	0.76	0.006	0.01
				17697	44.80	45.55	0.76	0.002	0.01
				17698	45.55	46.30	0.76	0.002	0.03
				17699	46.30	47.07	0.76	0.001	0.01
				17700	47.07	47.83	0.76	0.001	0.02
				17701	47.83	48.61	0.76	0.006	0.01
				17702	48.61	49.37	0.76	0.006	0.04
				17703	49.37	50.13	0.76	0.007	0.06

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-15

DIP TEST		
Footage	Angle	
	Reading	Corrected

Sheet No. 2

Hole No. _____ Section _____ Date Begun _____ Date Finished _____ Date Logged _____

Lat. _____ Dep. _____ Bearing _____ Elev. Collar _____

Total Depth _____ Logged By _____ Claim _____ Core Size _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
40.2	62.5	5 (cont'd)		17704	50.13	50.89	0.76	0.005	0.01
				17705	50.89	51.65	0.76	0.008	0.01
				17706	51.65	52.43	0.76	0.012	0.01
				17707	52.43	53.19	0.76	0.018	0.05
				17708	53.19	53.96	0.76	0.010	0.06
				17709	53.96	54.71	0.76	0.004	0.01
				17710	54.71	55.47	0.76	0.005	0.06
				17711	55.41	56.23	0.76	0.006	0.01
				17712	56.23	57.00	0.76	0.005	0.08
				17713	57.00	57.76	0.76	0.007	0.01
				17714	57.76	58.52	0.76	0.006	0.01
				17715	58.52	59.28	0.76	0.005	0.03
				17716	59.28	60.04	0.76	0.004	0.01
				17717	60.04	61.56	1.52	0.005	0.01
				17718	61.56	62.47	0.91	0.015	0.06
62.5	63.4	90	DACITE - lt grey-silicified, qtz strs parallel to core	17719	62.47	63.38	0.91	0.005	0.03
63.4	73.6	95	ANDESITE - lt green to grey, occ 4mm qtz strs-banded @ 70° to core. Qtz-carb strs and K-Feldspar altn locally; widespread epidote streaks						
73.6	89.2	95	DACITE - buff to grey; num 2-4mm banded grey qtz vlts; K-feldspar strs throughout, Abundant K-spar and Qtz 79.9-80.5m; QSP altn 89m to end; 0.3m fault gouge @ 88.3m and 90.2m	17720	89.31	90.68	1.37	0.012	0.07

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-15

DIP TEST		
Footage	Angle	
	Reading	Corrected

3

Hole No. _____ Sheet No. _____ Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au		Ag		Pb
							(oz/t)	(oz/t)	(oz/t)	(oz/t)	Zn
89.2 96.5	95	QUARTZ VEIN - irregular sheared upper contact. Sheared wallrock inclusions - mainly gouge - 91.1-91.7, 92.4-92.9, 95.4-95.7m - all with at least 50% qtz. Qtz is drusy with 5% pyrite; 70% recovery 93.6-95.7m	17721	90.68	91.23	0.55	0.036	0.17			(ppm)
			17722	91.23	92.08	0.85	0.077	0.06			
			17723	92.08	92.69	0.61	0.102	0.16			
			17724	92.69	93.30	0.61	0.041	0.01			
			17725	93.30	93.91	0.61	0.030	0.06			
			17726	93.91	94.52	0.61	0.010	0.05			
			17727	94.52	95.13	0.61	0.008	0.05			
			17728	95.13	95.83	0.70	0.005	0.10			
			17729	95.83	96.50	0.67	0.002	0.03			
96.5 100.1	95	DACITE - QSP Altn-qtz lenses - 0.3m- @ 98.8 and 100m-contacts @ 50° to core. 5% pyrite with some cp-section is variably silicified	17730	96.50	97.72	1.22	0.002	0.04			
			17731	97.72	98.94	1.22	0.006	0.03			
			17732	98.94	100.13	1.19	0.018	0.01			
100.1 109.4	95	DACITE - Qsp Altn= num closely spaced 1-4mm dk grey banded qtz strs-most 70° to core, Some carb strs parallel to core									
109.4 110.7	95	DACITE - silicified and qtz veined with dissem pyrite	17733	109.36	110.70	1.34	0.007	0.01			
110.7 111.6	95	QUARTZ VEIN - initial section pale green with ZnS, second is typical white to grey vuggy qtz	17734	110.70	111.16	0.46	0.031	0.58			100
			17735	111.16	111.62	0.46	0.020	0.15			33000
111.6 120.4	95	DACITE - QSP Altn-fewer qtz strs than previous @ 70° to core; Grey Qv cut by white qtz carb strs	17736	111.62	112.84	1.22	0.006	0.06			
END OF HOLE											

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-16

DIP TEST		
Footage	Angle	
	Reading	Corrected
123.4	70	65

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun July 12, 1987
 Date Finished July 13, 1987
 Date Logged _____

Lat. 2226.10
 Dep. 12369.03
 Bearing -64° @ 320°
 Elev. Collar. 1798.88

Total Depth 123.4m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au	Ag
									(oz/t)	(oz/t)
0	15.2		CASING							
15.2	25.6	85	QTZ FELDSPAR PORPHYRY blocky white zoned feldspar phenos 4mm-2cm- subhedral 4mm qtz eyes in med grey fg qtz rich matrix with some dissem pyrite							
25.6	36.6	90	ANDESITE - med green, num slips and 4mm-1cm qtz-carb strs parallel to core. Epidote patches							
36.6	38.4	95	DACITE - QSP Altn- fault gouge - 0.4m @ 37.9m @ 60° to core-variably silicified	17737	36.58	38.41	1.83		0.004	0.01
38.4	40.6	95	QUARTZ VEIN - drusy cavities to 1cm lined with qtz xls. Green mica locally-dissem py to 5%. Wallrock inclusions last 0.6m	17738	38.41	39.14	0.73		0.002	0.01
				17739	39.14	39.87	0.73		0.001	0.01
				17740	39.87	40.63	0.76		0.003	0.01
40.6	41.8	95	QFP - grey-crowded ppy with dissem py and possible cp-qtz veining first 0.4m	17741	40.63	41.76	1.13		0.005	0.01
41.8	61.9	90	DACITE - lt green, variably silicified but notable lack of qtz strs and low sulfide content. Badly broken to 49m with some gouge locally. Pink zeolite-carb 2-4mm filled frs parallel to core. 2% finely dissem pyrite. Badly broken 57.6-58.8m with some gouge.							
61.9	63.7	90	ANDESITE - gradational with previous; epidote altn plus qtz-zeolite atrs 61.9-63m							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-16

DIP TEST		
Footage	Angle	
	Reading	Corrected

Sheet No. 2

Hole No. _____ Sheet No. _____ Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag	Cu
								(oz/t)	(oz/t)	(ppm)
63.7	90.7	90	DACITE - as previous but with occ lcm grey qtz strs @ 45° to core. Epidote altn prominent locally. Py to 5% on frs and as dissem. Badly broken with gouge 68.6-71.6 beyond which abundant epidote gives apple green color to lt brown matrix. Broken 78-85m. Qtz - K-feldspar-pink carb strs 86.9- 90.7m							
90.7	99.4	90	DACITE - QSP Altn- banded grey Qv and lenses of qtz @ 91.4, 92.4m. Gouge zones @ 96.6 and 98.6m Lower contact broken	17742	98.15	99.37	1.22	0.009	0.08	
99.4	107.3	95	QUARTZ (CARB) VEIN - to 101.7-2cm rounded wallrock frags - clay-carb altd- to 105.8- drusy cavities with streaks cp @ 103-103.2, (30%), 105.3m. To end of section-drusy with carb spots and wallrock inclusions with green mica. Lower contact @ 45°	17743	99.37	99.98	0.61	0.019	0.13	530
				17744	99.98	100.59	0.61	0.050	0.48	3800
				17745	100.59	101.20	0.61	0.028	0.35	1870
				17746	101.20	101.81	0.61	0.159	3.21	12300
				17747	101.81	102.42	0.61	0.190	0.49	7900
				17748	102.42	103.03	0.61	0.874	1.82	17600
				17749	103.03	103.63	0.61	0.449	13.13	22000
				17750	103.63	104.25	0.61	0.153	1.29	2300
				17751	104.25	104.86	0.61	0.079	0.48	2620
				17752	104.86	105.47	0.61	0.484	3.35	17200
				17753	105.47	106.08	0.61	0.084	0.37	2000
				17754	106.08	106.69	0.61	0.012	0.11	1120
				17755	106.69	107.30	0.61	0.083	0.06	560
107.3	114.3	95	DACITE - QSP Altn-qtz lenses-drusy @ 111.3, 113.4m-num banded grey qtz strs @ 45° to core	17756	107.30	108.82	1.52	0.018	0.10	
				17757	108.82	110.34	1.52	0.012	0.11	
				17758	110.34	111.86	1.52	0.013	0.07	
				17759	111.86	113.08	1.52	0.001	0.08	
				17760	113.08	114.30	1.22	0.006	0.07	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-16

DIP TEST		
		Angle
Footage	Reading	Corrected

Hole No. _____ Sheet No. 3 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au	Ag	
								(oz/t)	(oz/t)	
114.3	114.9 95	QUARTZ VEIN -drusy, minor pyrite	17761	114.30-1	114.91	0.61		0.008	0.02	
114.9	118.0 95	DACITE - QSP Altn-creamy white-num qtz lenses	17762	114.91-1	116.43	1.52		0.012	0.07	
			17763	116.43-1	117.95	1.52		0.008	0.07	
118.0	123.4 95	DACITE - buff color-occ qtz strcs and lenses - pyrite @ 122.2m. Carb rich frs @ 10-20° to core								
		END OF HOLE								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-17

DIP TEST		
Footage	Angle	
	Reading	Corrected
230.4	66	60

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun August 4, 1987
 Date Finished August 9, 1987
 Date Logged _____

Lat. 2195.18
 Dep. 12392.56
 Bearing -60° @ 320°
 Elev. Collar 1809.98

Total Depth 230.4m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY		DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
FROM	TO											
0	12.2			CASING								
12.2	27.1	85		DACITE - lt green-epidote altn-original 2mm px phenos locally visible; white qtz @ start, also 20.4m. Chloritic partings, Core broken - num fractures. Minor K-spar altn; 2% py in matrix								
27.1	35.4	90		As previous-more qtz veining and silicified areas @ 27.3, 28.2-28.6m. Mislatch @ end of section								
35.4	37.5	90		DACITE as previous-epidote, K-spar and some qtz								
37.5	44.8	90		ANDESITE - dk green-gradational with previous epidote strs silcified zone 43.1-43.5; Funely dissem py, po to 3%								
44.8	53.9	80		ANDESITE - dk green, badly broken; clay seams 52.7-53.0, 53.9-54.2m								
53.9	66.1	90		DACITE lt green brownish tinge-5% dissem pyrite, some qtz and K-spar and abundant epidote								
66.1	68.6	90		DACITE - num dk grey qtz strs and bx zones with epidote								
68.6	71.0	90		ANDESITE - dk green pink zeolite strs								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-17

DIP TEST		
Footage	Angle	
	Reading	Corrected

Sheet No. 2

Hole No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Logged By _____
Date Begun _____	Bearing _____	Claim _____
Date Finished _____	Elev. Collar _____	Core Size _____
Date Logged _____		

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
71.0	73.9	95	QTZ FELDSPAR PORPHYRY - aphanitic matrix, buff- 2mm - 4mm qtz eyes and white feldspar phenos; finely disseminated; pink zeolite, carb and clay on frs						
73.9	87.8	95	QTZ FELDSPAR PORPHYRY - granular matrix with 4mm qtz and feldspar phenos. Gouge zones @ 45° to core @ 75.3, 80.3, 81m; phenos to 2cm @ 83.8 and 85.2m. Chilled lower contact with crowded 2mm feldspar phenos. Brecciated Qv 85.5-86.6; contains rounded ppy frags in drusy qtz matrix with disseminated py. Lower contact @ 45°	17764	85.50	86.57	1.07	0.002	0.01
87.8	94.6	95	ANDESITE - dk green, variably broken, Occ qtz veins vein @ 93.4m contains jasper						
94.6	96.5	95	DACITE - buff to pink, silicified with K-spar in matrix - epidote altn						
96.5	100.0	95	ANDESITE - as previous - badly broken						
100.0	104.5	95	DACITE - buff to pink; num qtz lenses and irreg veins with pyrite - K-spar altn with epidote str - broken						
104.5	106.7	95	ANDESITE BRECCIA - ang frags to 3cm - badly broken						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-17

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 3 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au		Ag	
							(oz/t)	(oz/t)	(oz/t)	(oz/t)
106.7	111.7 95	DACITE - lt grey to buff - banding @ 30° to core - intravolcanic sediment								
111.7	125.9 95	ANDESITE - medium green-crowded lmm px phenos; qtz veining @ 116.1, 121.6m with some bleaching finely dissem po. Some pink zeolite and carb strs - relatively unbroken as compared with previous								
125.9	130.5 80	ANDESITE - badly broken, num chlor alips @ 45° - pink carb strs @ 70°								
130.5	132.0 95	DACITE - buff, variably silicified with irreg qtz lenses; py to 10% + epidote								
132.0	138.7 95	DACITE - buff, less qtz and silicification than previous; abundant K-spar and qtz								
138.7	141.6 95	ANDESITE - medium green-epidote strs								
141.6	152.9 90	DACITE - buff to lt green, gradational with previous. Num pink K-spar strs and K-spar flooding of matrix. Pink zeolite-carb on frs. Occ lcm qtz vlts @ 45° 5-10% dissem py. Some epidote altn. Mismatch - core loss 146.6-148.1m								
152.9	154.4 95	QUARTZ BRECCIA - irreg contacts - 2-3cm rock frags in white to grey qtz matrix; strs of pyrite and possible cp	17765	152.86	154.38	1.07	0.003	0.18		

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-17

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 4 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
154.4	160.3	95	DACITE as previous-buff to pink, abundant dissem pyrite-some silicification. latter part of section has num pink zeolite-carb strcs - 2mm wide- @ varying angles to core						
160.3	168.1	95	DACITE - buff to grey-fragmental texture- 2-4 cm rounded lithic frags in variable silicified matrix. 2cm Qv @ 160.3,161.8 @ 30° to core. Py on frs and as dissem to 5%. Variable epidote altn- mainly in last 1.5m						
168.1	168.4	95	GOUGE ZONE - clay altn						
168.4	174.8	95	DACITE - lt grey-green- aphanitic, variably silicified with occ qtz-K-spar strcs; Patchy to dissem sulfides; K-spar altn of matrix	17766	173.28	174.80	1.52	0.001	0.12
174.8	175.4	95	QUARTZ VEIN - carb-clay clots to 4mm. Minor sulfides-some green mica	17767	174.80	175.41	0.61	0.001	0.13
175.4	177.6	95	DACITE as previous-qtz bx zone - 2cm- @ 20° @ 177m- some pink zeolite	17768	175.41	176.93	1.52	0.001	0.09
177.6	178.6	95	ANDESITE - med green-dissem po to 5%					(ppb)	(ppm)
178.6	200.4	95	ANDESITE - DACITE - variably silicified, particularly from 184.7 m, Occ qtz-K-spar vlts with py and epidote; 2-4cm lithic frags; Silicified 195.1-200.3m	17769	195.13	197.20	2.07	41	3.7
				17770	199.80	200.47	0.67	47	2.3

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-17

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 5 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (ppb)	Ag (ppm)
FROM	TO								
200.4	204.4	95	DACITE - buff-aphanitic; pink zeolite, carb str. Broken 203-204						
204.4	213.4	95	ANDESITE - bleached, silicified, fragmental texture as previous- gradational to green color @ 206.7. Qtz strs and py 208.9-209.9m	17771	208.94	209.85	0.91	43	2.1
213.4	218.8	95	DACITE - aphanitic-bleached, pink zeolite and carb strs parallel to core. Qtz veining with py strs @ 20° to core 215.4-217.2	17772	215.43	217.17	1.74	56	1.9
218.8	230.4	95	ANDESITE - fragmental texture. Partially silicified-strs and dissem of py (po) to 5%. Pink zeolite strs parallel core 225.6-227.7. Qv and strs py 221-221.6 and 228.9-230.4m - gradational to dacite near end of hole.	17773	220.98	222.50	1.52	28	2.5
				17774	228.90	230.42	1.52	74	1.4
			END OF HOLE						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-18

DIP TEST		
Footage	Angle	
	Reading	Corrected
146.3	66	60

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun August 9, 1987
 Date Finished August 11, 1987
 Date Logged _____

Lat. 2193.42
 Dep. 12326.75
 Bearing -62° @ 330°
 Elev. Collar 1777.33

Total Depth 146.3m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NO

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE						
FROM	TO												
0	18.3		CASING										
18.3	31.9	60	ANDESITE - DACITE badly broken to 11m, followed by clay and gouge zones - core recovery locally less than 50%. Section includes green andesite, buff dacite, both with 5% dissem pyrite										
31.9	32.9	80	QTZ FELDSPAR PORPHYRY - 2mm qtz eyes in aphanitic lt brown matrix. Gouge zones										
32.9	51.2	90	QTZ FELDSPAR PORPHYRY lt grey granular matrix; 2-4mm qtz and euhedral to subhedral white feldspar phenos. Py as fine dissem and hairline seams. Occ 2-4cm white plag phenos. Num gouge sections including 33.2-33.8, 46.9-48.8 and 50m. Finer grained at end of section - chilled margin last 1.2m										
51.2	55.5	90	ANDESITE - initial 1m bleached next to dyke, grading to medium green variety with 2mm px phenos. Last 1.8m shows intense qtz-carb veining @ 20° to core plus chlor slips. 5% dissem py and po										
55.5	71.3	95	ANDESITE - medium grey-original ppy texture evident locally. K-feldspar-qtz flooding and veining 64.3-65.5m. Epidote as clots and strs-minor pink zeolite mainly last 3m, parallel to core-gradational to following										

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-18

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Cu (ppm)
71.3	74.1	95	SKARN ZONE - garnet, epidote, green chlorite, magnetite and py in str	17775	71.32	72.54	1.22	0.012	0.01	144
74.1	79.6	95	SILTSTONE - intravolcanic sediment, banded @ 30° to core, lt grey-green with pyrite str							
79.6	81.7	95	QTZ FELDSPAR PORPHYRY dyke - sharp contacts @ 25° - broken with gouge							
81.7	87.8	95	SILTSTONE - faint layering - some skarn altn							
87.8	89.6	95	ANDESITE - fg grey epidote altn							
89.6	91.7	95	SILTSTONE - layering @ 45°							
91.7	95.4	95	ANDESITE - med grey-original ppy texture - qtz veining and py and garnet str 92.4-93.3. Qtz flooding 94.5m, gradational contact with previous	17776	92.35	93.26	0.91	0.006	0.06	530
95.4	108.5	95	SILTSTONE - grey-green; layering @ 35° abundant garnet @ 97.8m. Broken 98.8-100.6, 102.4 and 103.9-104.8m. Skarn zones with py and garnet last 0.9m							
108.5	112.5	95	DACITE - like previous but no banding; qtz rich sections with garnet and py 108.8 and 111.3m							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-18

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 3 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au	Ag	Cu
FROM	TO								(oz/t)	(oz/t)	(ppm)
112.5	113.4	95	ANDESITE-DACITE - sheared and gouge- occ qtz strs @ 15° to core-chloritic slips								
113.4	116.4	95	ANDESITE - DACITE - num qtz-carb filling hairline frs- py to 5%								
116.4	120.7	95	DACITE - occ 4-8mm white qtz vlts with py @ 35-45° to core								
120.7	122.8	95	DACITE - sheared and broken particularly last 0.6m; chlor slips @ 15° plus gouge Occ 2mm banded dk grey qtz strs	17777	121.31	122.83	1.52	0.011	0.06	340	
122.8	139.0	95	QUARTZ (CARB) VEIN - upper contact sheared with gouge @ 20° to core. Dk grey wallrock inclusions to 123.6m with heavy pyrite. Drusy cavities 2-4mm and dissem py to 125m; py to 25% @ 125. Broken 125.6- 128m. 0.3m wallrock incl @ 20° to core @ 128.5. To 129.8 qtz is white with 2 phases near end and occ 4mm carb clots; To 132.6 - bx qtz with greyish cast and 2 stages of veining. To 134.4 vuggy- xlline vugs to 5mm. Pale green chlor- carb-clay clots to end of section plus increasing white carb clots to 5mm. Wallrock inclusions last 0.3m. Irregular lower contact @ 45°	17778 17779 17780 17781 17782 17783 17784 17785 17786 17787 17788 17789 17790 17791 17792 17793 17794	122.83 123.59 124.35 124.96 125.57 126.18 126.79 127.40 128.01 128.62 129.23 129.84 130.45 131.06 131.67 132.28 132.89 133.50	0.76 0.76 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61 0.61	0.012 0.001 0.002 0.018 0.006 0.002 0.005 0.005 0.006 0.015 0.001 0.050 0.039 0.066 0.053 0.047 0.014	0.01 0.01 0.02 0.06 0.02 0.02 0.02 0.01 0.01 0.01 0.01 0.06 0.07 0.12 0.06 0.01 0.03	32 34 36 32 34 23 20 22 38 49 30 1000 440 990 50 30 30		

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-18

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 4 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH	FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag	Cu
22.8	139.0		95	(CONT'D)	17795	133.50	134.11	0.61	0.015	0.02	27
					17796	134.11	134.72	0.61	0.013	0.01	28
					17797	134.72	135.33	0.61	0.021	0.02	38
					17798	135.33	135.94	0.61	0.012	0.01	62
					17799	135.94	136.55	0.61	0.030	0.01	380
					17800	136.55	137.16	0.61	0.066	0.01	1540
					17801	137.16	137.77	0.61	0.018	0.01	270
					17802	137.77	138.38	0.61	0.006	0.01	30
					17803	138.38	138.99	0.61	0.017	0.01	146
139.0	141.9		95	DACITE - medium grey-variably silicified, with some irreg qtz vltts+garnet+K-spar	17804	138.99	140.51	1.52	0.023	0.05	840
141.9	146.3		95	DACITE - med grey. No obvious qtz veining or silicification - occ K-spar strs							
END OF HOLE											

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-19

DIP TEST		
Footage	Angle	
	Reading	Corrected
159.7	65	59

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun August 12, 1987
 Date Finished August 14, 1987
 Date Logged _____

Lat. 2201.88
 Dep. 12360.69
 Bearing -60° @ 320°
 Elev. Collar 1794.14

Total Depth 159.7m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	AU (oz/t)	Ag (oz/t)
FROM	TO								
0	20.1		CASING						
20.1	29.3	35	ANDESITE - dk green-badly broken-poor core recovery						
29.3	33.8	80	DACITE - lt brown, 4mm grey qtz strs Fault zone-gouge-29.9-33.8m-chloritic-shearing parallel to core						
33.8	41.0	90	DACITE - skarn altn-epidote and orange garnet-moderately broken-some K-feldspar altn. Last 1.2m banded dk grey 4mm qtz strs						
41.0	41.8	90	QTZ FELDSPAR PORPHYRY - fg aphanitic pink matrix with 2mm qtz eyes-sheared upper contact						
41.8	54.3	90	QFP - granular buff to grey matrix-2-4mm subhedral qtz eyes and blocky white feldspar phenos up to 2 cm Sheared and broken parallel to core 44.5-47.2, volcanic inclusions @ 57m Occ grey qtz strs @ 45° - 5% pyrite Sheared lower contact						
54.3	63.4	95	DACITE - lt grey-green, broken and sheared to 62m. Occ grey banded qtz strs Qtz vein 57.6-58.8m with wallrock incl, 100% qtz last 0.4m	17805	57.61	58.83	1.22	0.005	0.03

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-19

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2
 Section _____
 Date Begun _____
 Date Finished _____
 Date Logged _____

Lat. _____ Total Depth _____
 Dep. _____ Logged By _____
 Bearing _____ Claim _____
 Elev. Collar _____ Core Size _____

DEPTH	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
63.4	69.2 95	DACITE - lt grey to pink-frag texture, K-spar altn as strs and irreg zones								
69.2	72.7 95	DACITE - sheared and bx-chlor slips @ 40°								
72.7	75.3 95	DACITE AS PREVIOUS - abundant qtz flooding + K-spar and epidote								
75.3	78.9 95	ANDESITE - med green-frag texture- some bleached sections-py on frs								
78.9	88.7 95	DACITE - gradational with previous-Occ qtz strs with py @ 40° to core, minor epidote altn-K-spar								
88.7	92.7 95	ANDESITE - as previous								
92.7	95.4 95	DACITE - buff to pink; qtz strs, pink carb on frs								
95.4	96.9 95	FAULT ZONE - shearing @ 20°; gouge and chloritic slips								
96.9	118.4 95	DACITE - py seams @ 101.2m parallel to core; sheared and broken 104-106m Qtz-pink carb-K-spar strs 105-106.5m								
118.4	123.9 95	ANDESITE - green-gradational with previous								
123.9	128.3 95	DACITE - vfg- buff to pink-minor hairline qtz-pink carb strs								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-19

DIP TEST		
Footage	Angle	
	Reading	Corrected

3

Hole No. _____ Sheet No. _____ Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Cu (ppm)
FROM	TO									
128.3	134.4	95	DACITE - Qtz-sericite-pyrite altn(QSP) with grey granular matrix and irreg qtz patches 128.6m and 133.2-134.4m	17806	133.20	134.27	1.07	0.004	0.04	
134.4	143.0	95	DACITE - buff-fg-varies to lt grey variety with irreg qtz patches last 0.6m	17807	141.43	142.95	1.52	0.001	0.01	145
143.0	154.3	95	QUARTZ VEIN - upper contact irregular- possibly 20-30° to core. To 143.6, irreg wallrock inclusions, @ 144.1 dissem py xls and 4mm white carb-clay clots with py 144.8-147.8- blue grey streaks (argentite?) Bx-multiple qtz veining 145-145.6, 139.6-141.1-drusy character with blue-grey tinge. To 151m-white drusy qtz with occ 4mm white carb clots. Py dominant sulfide -@ 152m green chlorite- Wallrock incl 153.3-154.2. Lower contact 3cm gouge @ 35°. PbS @ 145.7m	17808	142.95	143.56	0.61	0.002	0.01	82
				17809	143.56	144.17	0.61	0.001	0.01	43
				17810	144.17	144.78	0.61	0.001	0.01	24
				17811	144.78	145.39	0.61	0.001	0.01	16
				17812	145.39	146.00	0.61	0.001	0.01	17
				17813	146.00	146.61	0.61	0.001	0.01	14
				17814	146.61	147.22	0.61	0.001	0.01	14
				17815	147.22	147.83	0.61	0.001	0.01	13
				17816	147.83	148.44	0.61	0.001	0.01	18
				17817	148.44	149.05	0.61	0.001	0.01	14
				17818	149.05	149.66	0.61	0.001	0.01	16
				17819	149.66	150.27	0.61	0.001	0.01	15
				17820	150.27	150.88	0.61	0.001	0.01	19
				17821	150.88	151.49	0.61	0.001	0.01	20
				17822	151.49	152.10	0.61	0.001	0.01	26
				17823	152.10	152.71	0.61	0.001	0.03	80
				17824	152.71	153.32	0.61	0.001	0.07	220
				17825	153.32	153.93	0.61	0.013	0.08	420
				17826	153.93	154.33	0.40	0.043	0.11	550
154.3	159.7	95	DACITE dk grey-occ qtz patches- dissem py to 5%- vague frag texture	17827	154.33	155.85	1.52	0.011	0.07	
END OF HOLE										

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-20

DIP TEST		
Footage	Angle	
	Reading	Corrected
123.7m	52	45

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun August 14/87
 Date Finished August 17/87
 Date Logged _____

Lat. 2470N
 Dep. 12745E
 Bearing -45° @ 320°
 Elev. Collar 1815 m

Total Depth 123.7 m
 Logged By N.C. Carter
 Claim Chappelle 27&28
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/ton)	Ag (oz/ton)
FROM	TO								
0	30.5		CASING						
30.5	35.1	80	ANDESITE - green - abundant epidote alt'n Some px phenos noted - badly broken						
35.1	36.0	80	FAULT COUGE 45° to core						
36.0	38.7	85	ANDESITE - medium green-fragmental texture (lapilli tuff) Very finely dissem sulfides Badly broken-numerous chloritic slips @30°						
38.7	44.2	85	DACITE - lt. grey with occ qtz vlts and irreg patches- abundant dissem and streaky pyrite to 10%. Epidote alt'n						
44.2	47.5	90	DACITE - num qtz strs with pyrite and possibly chalcopyrite-white carb strs as well. 12 cm qtz vein @ 45° @ 46.3 m and drusy 1 cm qtz strs @ 46.9 m. Badly broken to 45.7 m	17828	44.20	46.02	1.82	0.011	0.06
				17829	46.02	47.55	1.53	0.008	0.06
47.5	48.4	95	QUARTZ VEIN -45° to core-chloritic bands -2 stages of quartz-little sulfide noted	17830	47.55	48.37	0.82	0.003	0.12
48.4	49.4	95	DACITE - as previous- qtz strs with dissem py to 5%	17831	48.37	49.38	1.00	0.001	0.06
49.4	53.0	95	DACITE - grey, aphanitic-occ hairline carb strs-patchy epidote-minor quartz						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-20

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/ton)	Ag (oz/ton)
FROM	TO								
53.0	53.8	95	FELDSPAR PORPHYRY DYKE - chilled contacts 2-4 mm white feldspar phenos in med grey matrix. with abundant Qtz.						
53.8	61.3	95	DACITE as previous - some Qtz rich sections @ 57.6 and 58.2 m also 60.4 m. Py 5% -uniform appearance-badly broken. Fragmental texture @ 58.2m						
61.3	62.8	95	FELDSPAR PORPHYRY DYKE as previous						
62.8	77.4	95	DACITE as previous-more Qtz strcs including grey banded type @ 63.7m with abundant pyrite-10%-on fractures. Drusy Qtz @ 67m K-feldspar with Qtz 70.4-72.2m. Fragmental texture 71.6-72.5m Epidote alt'n locally	17832	63.40	64.62	1.22	0.001	0.02
				17833	66.45	67.51	1.06	0.001	0.01
				17834	76.20	77.42	1.22	0.001	0.05
77.4	78.0	95	QUARTZ VEIN - drusy-dissem py-irreg contacts	17835	77.42	78.03	0.61	0.001	0.06
78.0	82.3	95	DACITE - as previous-fragmental texture cherty fragments	17836	78.03	79.25	1.25	0.001	0.01
82.3	90.5	95	DACITE - silicification intense with num patches white and grey Qtz. Buff, angular cherty inclusions. Qtz vein @ 40° to core. Py to 5-10%. Feldspar Porphyry dyke @ 84.9-85.3m. Qtz content to 50% overall-py seams locally	17837	82.30	84.13	1.83	0.001	0.01
				17838	84.13	85.95	1.83	0.001	0.01
				17839	85.95	87.76	1.83	0.001	0.01
				17840	87.78	89.15	1.37	0.001	0.01
				17841	89.15	90.53	1.38	0.001	0.06

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-20

DIP TEST		
Footage	Angle	
	Reading	Corrected

3

Hole No. <u> </u>	Sheet No. <u> </u>	Lat. <u> </u>	Total Depth <u> </u>
Section <u> </u>		Dep. <u> </u>	Logged By <u> </u>
Date Begun <u> </u>		Bearing <u> </u>	Claim <u> </u>
Date Finished <u> </u>		Elev. Collar <u> </u>	Core Size <u> </u>
Date Logged <u> </u>			

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au		Ag	
FROM	TO							(oz/ton)	(oz/ton)		
90.5	93.1	95	DACITE - grey-occ silicified areas and qtz strs @ 40° to core								
93.1	96.9	95	DACITE - cherty in part- buff to lt brown brecciated @ 93.6 m - dissem py and strs to 5%. Fragmental texture-ang frags @ 96.8m								
96.9	106.1	95	DACITE - lt grey - qtz-pink carb strs @ 40° to core with pyrite. Occ cherty fragments-qtz strs are locally drusy	17842	05.00	106.10	1.10	0.002	0.01		
106.1	107.4	95	DACITE -silicified and qtz veined - 2 varieties of qtz - earlier grey cut by drusy white 2 cm vlts. Initial stage qtz has pink K-feldspar and carbonate plus pyrite streaks to 10%	17843	106.10	106.74	0.64	0.001	0.06		
				17844	106.74	107.38	0.64	0.001	0.01		
107.4	111.1	95	DACITE - grey as previous - occ buff cherty sections near end	17845	107.38	108.94	1.56	0.001	0.01		
				17846	110.46	111.07	0.43	0.001	0.01		
111.1	111.6	95	QUARTZ VEIN - contact @ 30° to core- drusy in part - pyrite streaks	17847	111.07	111.65	0.58	0.002	0.01		
111.6	121.8	95	DACITE as previous-cherty sections								
121.8	122.7	95	DACITE - qtz carb strs with py	17848	121.77	122.68	0.91	0.001	0.01		
122.7	123.7	95	ANDESITE - grey-green-fine dissem py								
			END OF HOLE								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-21

DIP TEST		
Footage	Angle	
	Reading	Corrected
93.3 m	64	58

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun August 17/87
 Date Finished August 19/87
 Date Logged _____

Lat. 2548N
 Dep. 12755E
 Bearing -60°@140°
 Elev. Collar 1794 m

Total Depth 93.3 m
 Logged By N.C. Carter
 Claim Chappelle 27
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au		Ag	
FROM	TO							(oz/ton)	(oz/ton)		
0	6.1		CASING								
6.1	20.4	85	DACITE - buff to grey-badly broken Num white to grey qtz veins @ 70° to core	17849	9.91	-11.64	1.73	0.004	0.01		
			Initial section includes banded siltstone	17850	13.11	-14.33	1.22	0.001	0.01		
			- banding @ 30° to core. Num qtz veins	17851	15.54	-16.15	0.61	0.001	0.01		
			and lenses with pink carb and possibly	17852	16.15	-17.71	1.56	0.005	0.01		
			K-feldspar. One section with py streaks	17853	17.71	-19.05	1.34	0.004	0.01		
			@ 20.3m - 5cm wide - chalcopryrite noted								
			15.5-16.2m preceded by 5cm gouge								
20.4	26.4	90	ANDESITE - medium green-porphyritic texture-px phenos-sheared with carb str								
			@ 30° to core @ 21.3m - gouge at end of								
			section								
26.4	27.4	90	ANDESITE - alt'd to buff-pink variety								
			with num pink zeolite str and fracture								
			fillings.								
27.3	37.5	90	ANDESITE - medium green- fault breccia								
			at start @ 60°, badly broken, gouge at								
			31.4,33.8 and end of section								
37.5	41.5	95	DACITE - uniform grey, fine grained,								
			qtz lenses @ 38.7,39.9m - Dissem py on								
			fractures. Brecciated @ 40.2m								
41.5	58.4	95	CHERTY SILTSTONE - fine banding @ 50°								
			Qtz lenses and breccia @ 46.4-47.2m								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-21

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu (ppm)	Au (opt)	Ag (opt)	Pb / Zn	
FROM	TO										ppm	ppm
41.5	58.4		Cont'd. - pyrite streaks, chalcopyrite noted - banding decreases down section, broken 53.0-53.9m. Qtz-pink zeolite-carb str. Qtz breccia 57.3-58.4m	17854	46.39	47.24	0.85	0.002	0.23			
				17855	57.30	59.59	2.29	0.005	0.16			
58.4	69.6	95	DACITE - grey- K-feldspar and epidote alt'n plus pyrite clots. Occ drusy qtz vlt. @ 45° to core. Sheared @ 64.2m @ 30° to core	17856	69.65	70.62	0.97	310	0.005	0.33	820	4850
69.6	70.6	95	QUARTZ VEIN - drusy-1-2cm vugs with pyrite and sphalerite. Some white carb clots. Contacts @ 50° to core									
70.6	93.3	95	DACITE - occ cherty sections-occ qtz vlt. -drusy with abundant carbonate @ 45° to core. Qtz breccia section with pyrite 90.2-93.3m. 25% galena, sphalerite last 0.2m	17857	90.22	91.74	1.52	380	0.003	0.16	140	168
				17858	91.74	93.27	1.52	295	0.008	1.58	19000	25000
END OF HOLE												

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-22

DIP TEST		
Footage	Angle	
	Reading	Corrected
158.8	62	56

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun August 19, 1987
 Date Finished August 21, 1987
 Date Logged _____

Lat. 2334.84
 Dep. 12286.01
 Bearing -57° @ 140°
 Elev. Collar 1783.05

Total Depth 158.8m
 Logged By NCC
 Claim Mining Leas 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Pb Zn (ppm)
FROM	TO									
0	24.4		CASING							
24.4	32.0	55	ANDESITE - green-pz phenos badly broken gouge - poor recovery							
32.0	34.6	80	ANDESITE - lt green - gouge @ 34.1m							
34.6	43.9	80	QUARTZ (CARB) VEIN - upper contact @ 45° Initial section-abundant chlorite, xlline carb sections 38.4-39.3. Wallrock incl and K-feldspar altn 40.8-41.6m followed by xlline carb to near end of section with chlorite, epidote; green silicate @ 43m. Initial 0.6m gouge. Pb-Zn near end of section - overall little sulfide	17859	34.59-35.81	1.22	0.001	0.07	185	
				17860	35.81-37.03	1.22	0.002	0.05	138	
									19	
									265	
				17861	37.03-38.25	1.22	0.001	0.09	850	
				17862	38.25-39.47	1.22	0.001	0.30	2650	
				17863	39.47-40.69	1.22	0.005	0.48	5100	
43.9	46.9	90	DACITE - med brown-occ 2mm qtz vlts @ 45°	17864	40.69-41.91	1.22	0.001	0.17	170	
46.9	52.4	95	ANDESITE - green, gradational with previous; 2-4mm px phenos, finely dissem pyrite	17865	41.91-43.13	1.22	0.006	0.28	395	
				17866	43.13-44.20	1.07	0.002	0.12	160	
52.4	53.5	95	DACITE - lt brown, silica flooding, cg pyrite						1200	
53.5	57.9	95	ANDESITE as previous - silica flooding @ 55.2m							
57.9	58.5	95	DACITE - fault bx, gouge, silica flooding							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-22

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag	Pb
FROM	TO							(oz/t)	(oz/t)	Zn
58.5	59.1	95	FELDSPAR PORPHYRY dyke - contacts @ 60° 2cm qtz incl at end							(ppm)
59.1	64.5	95	ANDESITE - green to lt brown with incr pyrite down section							
64.5	85.0	95	DACITE - qtz-sericite-pyrite altn (QSP)- mineralized hairline to 2mm qtz vlt. Qtz-carb vein 67.7-69.1m with num wallrock inclusions-drusy in part-little sulfide, irreg contacts @ 45°; 8cm shear @ 70.1m. Qtz vlt increase in density down section - gradational contacts with following; shearing with gouge @ 77.4, 83.8m. 5% dissem pyrite	17867	67.67	69.35	1.68	0.001	0.04	
				17868	83.52	85.04	1.52	0.001	0.07	
85.0	96.3	95	DACITE - grey-lack of crowded qtz vlt. Sheared and gouge 87.8-88.7m. Occ dk grey banded 4mm qtz vlt							
96.3	103.6	95	DACITE - QSP Altn-numqtz vlt with pyrite							
103.6	108.2	95	DACITE - lack of num qtz vlt							
108.2	113.0	95	DACITE -grey, gouge initial 0.3m- abundant qtz flooding-white and grey banded qtz vlt @ 45°; 5-10% dissem py	17869	108.20	109.72	1.52	0.001	0.06	
				17870	109.72	111.24	1.52	0.001	0.05	
				17871	111.24	113.00	1.50	0.001	0.07	
113.0	114.1	95	QUARTZ (CARB) VEIN - white, massive with epidote, chlorite, ZnS and pyrite in initial section	17872	113.00	114.16	1.16	0.018	0.58	1650 16000

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-22

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 3 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Cu (ppm)
FROM	TO									
114.1	129.2	95	DACITE - OSP Altn - num qtz vlts - 3 stages evident. Dissem py 5%	17873	114.1	116-115.38	1.22	0.005	0.12	
129.2	135.3	95	SILTSTONE - layering @ 30° to core							
135.3	140.0	95	DACITE - qtz-carb flooding locally, gradational to andesite							
140.0	142.6	95	DACITE - bleached, qtz flooding-veins @ 40° with cg pyrite qtz bx @ 140.2m	17874	139.96	141.27	1.31	0.001	0.04	
				17875	141.27	142.55	1.28	0.036	0.11	
142.6	145.4	95	QUARTZ VEIN - drusy, 1-3mm py lined cavities sulfide content low, possible cp. Upper and lower contacts @ 70°	17876	142.55	142.95	0.40	0.036	0.17	540
				17877	142.95	143.56	0.61	0.012	0.10	49
				17878	143.56	144.17	0.61	0.011	0.01	320
				17879	144.17	144.78	0.61	0.011	0.01	147
				17880	144.78	145.39	0.61	0.006	0.01	78
145.4	147.4	95	DACITE - bleached andesite-occ 5cm Qv @ 70° - dissem pyrite	17781	145.39	147.37	1.98	0.004	0.05	215
147.4	158.8	95	ANDESITE - green, occ qtz-pink carb strs and pyrite on frs-some rounded frags to 2cm - bleached sections with qtz veining and pink zeolite 150.9-151.5, 155.4-156.1							
			END OF HOLE							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-23

DIP TEST		
Footage	Angle	
	Reading	Corrected
181.7	72	65

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun August 21, 1987
 Date Finished August 24, 1987
 Date Logged _____

Lat. 2334.84
 Dep. 12286.01
 Bearing -65° @ 140°
 Elev. Collar 1783.05

Total Depth 181.7m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NO

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Pb Zn (ppm)
FROM	TO									
0	6.1		CASING							
6.1	29.3	80	ANDESITE PORPHYRY - dissem py, Fe stained fractures to 14m- badly broken, bx @ 9.8m 2-4mm px phenos							
29.3	41.0	40	ANDESITE - badly broken with sand and gouge sections - poor core recovery							
41.0	47.7	90	QUARTZ (CARB) VEIN ZONE - several wallrock inclusions and abundant epidote and chlorite. Some skarn min. - drusy white qtz initial 1.5m. Chlor-epidote-py 44.5-46m, bx qtz in part - some ZnS, Carb rich section @ end	17882	41.00	41.89	0.89	0.002	0.02	87
				17883	41.89	42.79	0.91	0.001	0.01	23
				17884	42.79	44.01	1.22	0.001	0.01	14
				17885	44.01	45.23	1.22	0.001	0.01	16
47.7	56.8	95	DACITE - altn of previous, buff- num qtz strs @ 40°; 5-10% pyrite; 15cm gouge sections 57.9, 59.1 and 59.7m	17886	45.23	46.45	1.22	0.012	0.05	54
				17887	46.45	47.67	1.22	0.005	0.36	1820
56.8	62.5	95	ANDESITE - px phenos-gradational contacts							3400
62.5	66.1	95	DACITE - med brown, occ qtz strs but mainly zeolite in frs. Occ 2cm frags, py strs and dissem 5-10%							
66.1	67.9	95	FELDSPAR PORPHYRY - irregular contacts and rounded wallrock inclusions; subhedral white 2-3mm crowded feldspar phenos in grey siliceous matrix							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-23

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Pb	Zn
										(ppm)	
67.9	73.7	95	DACITE -grey to buff, qtz vlts increase in frequency- broken with gouge zones- 0.3m- 69,69.8 and 73.5m. K-feldspar, qtz and pyrite (5%) @ 71.6m								
73.7	75.8	95	QUARTZ VEINING - wallrock inclusions fair amount of sulfide incl ZnS. Bx @ end of section	17888	73.70	75.77	2.07	0.009	0.30	178	2380
75.8	80.8	95	DACITE - broken, occ qtz strs - skarn altn- 10% pyrite @ end of section	17889	79.86	80.77	0.91	0.005	0.08	205	3900
80.8	81.7	95	QUARTZ VEIN - chlorite, epidote, pyrite, ZnS	17890	80.77	81.68	0.91	0.024	0.77	3400	24000
81.7	86.1	95	DACITE - buff -occ qtz strs @ 45°. Chlor slips; sharp lower contact	17891	81.86	83.20	1.52	0.006	0.06		
86.1	87.1	95	DACITE - QSP Altn - num qtz vlts @ 40° and ma-sive qtz -0.3m-86.6m	17892	86.11	87.18	1.07	0.001	0.02		
87.1	91.7	95	As Previous - altn salmon pink color. Num qtz strs @ 40°; py on frs								
91.7	95.1	95	DACITE - brick red color - K-feldspar?								
95.1	97.8	95	DACITE - QSP Altn - grey								
97.8	99.7	95	DACITE - brick red color as previous								
99.7	102.3	95	DACITE grey, QSP Altn								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-23

DIP TEST		
Footage	Angle	
	Reading	Corrected

3

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Bearing _____	Logged By _____
Date Begun _____	Date Finished _____	Elev. Collar _____	Claim _____
Date Logged _____			Core Size _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
102.3	107.0	95	DACITE - pink, sharp upper contact @ 50° 2cm frags locally-num qtz strs and occ 2mm px phenos						
107.0	110.3	95	DACITE - QSP Altn-num qtz strs - pink variety last 0.6m						
110.3	123.7	95	DACITE - grey to pink (K-spar altn?) qtz strs not as numerous as previous; irreg qtz flooding with py; Gauge @ 114m	17893	122.16	123.68	1.52	0.001	0.05
123.7	124.7	95	QUARTZ VEIN - drusy, some ZnS and py; 8cm gouge @ lower contact	17894	123.68	124.66	0.98	0.006	0.05
124.7	125.6	95	DACITE - qtz flooding, grey	17895	124.66	125.57	0.91	0.009	0.11
125.6	130.8	95	DACITE -grey to buff. Notable lack of qtz strs						
130.8	142.5	95	DACITE - lt grey to buff, silicification extensive - crude layering @ 40° - Siltstone -						
142.5	145.7	95	ANDESITE - uniform texture - green						
145.7	155.9	95	DACITE - bleached andesite - lt grey occ qtz strs, some py strs						
155.9	160.1	95	ANDESITE - grey - frag texture locally						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-23

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 4 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag	Cu
FROM	TO							(oz/t)	(oz/t)	(ppm)
160.1	168.2	95	DACITE - lt grey to buff, increasing qtz vltz and strz with pyrite seams- typical QSP Altn at end							
168.2	171.1	95	DACITE - qtz flooding and veins (8cm) with pyrite	17896	168.19	169.71	1.52	0.005	0.01	112
				17897	169.71	171.11	1.40	0.071	0.02	445
171.1	178.2	95	QUARTZ (CARB) VEIN - irreg upper contact -sharp lower contact @ 45°; qtz is white with ooc grey bands; little sulfide overall- mainly pyrite. 3 stages of qtz evident including white chalcedonic variety. Drusy throughout. Significant carb @ 178 and 176. Wallrock inclusions last 0.9m Gouge zones 173 and 174.5m with wallrock inclusions	17898	171.11	171.72	0.61	0.012	0.01	23
				17899	171.72	172.33	0.61	0.004	0.01	54
				17900	172.33	172.94	0.61	0.005	0.01	7
				24701	172.94	173.55	0.61	0.001	0.01	46
				24702	173.55	174.16	0.61	0.001	0.03	11
				24703	174.16	174.77	0.61	0.017	0.01	1550
				24704	174.77	175.38	0.61	0.001	0.05	115
				24705	175.38	175.99	0.61	0.001	0.09	4
				24706	175.99	176.60	0.61	0.005	0.06	250
				24707	176.60	177.21	0.61	0.005	0.05	56
				24708	177.21	178.19	0.61	0.012	0.01	290
178.2	179.3	95	DACITE -grey, qtz flooding	24709	178.19	179.29	1.10	0.006	0.07	510
179.3	181.7	95	DACITE - grey, 2cm grey qtz vltz @ 45°							
			END OF HOLE							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-24

DIP TEST		
Footage	Angle	
	Reading	Corrected
212.1	69	63

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun August 24, 1987
 Date Finished August 28, 1987
 Date Logged _____

Lat. 2382.63
 Dep. 12309.67
 Bearing -63° @ 140°
 Elev. Collar 1796.90

Total Depth 212.1m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH	RECOVERY		DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au	Ag	Pb
	FROM	TO							(oz/t)	(oz/t)	Zn
0	24.4		CASING								
24.4	44.5	80	ANDESITE - px porphyry in initial section badly broken; white carb strs, gouge @ 35.2m , 37.8m, Dacite (bleached andesite) @ 38.4-39m, 5% pyrite								
44.5	96.3	50	ANDESITE as previous-badly broken, core loss - zeolite on frs								
96.3	72.5	70	ANDESITE as previous, better core recovery, Gouge @ 69m								
72.5	80.2	70	ANDESITE - num chloritic slips ; 5% pyrite on fractures								
80.2	89.6	85	ANDESITE PORPHYRY - scattered px phenos pyrite seams, pink felsic dyke @ 82.3-82.6m								
89.6	92.1	20	FELSIC DYKE - core loss								
92.1	103.6	80	ANDESITE as previous, pronounced shearing and bx last 0.6m @ 45° to core								
103.6	112.5	90	DACITE - lt brown to med brown. Num irreg qtz lenses and irreg qtz-carb strs; 5% py on frs. Pink zeolite in frs near end of section								
112.5	114.9	90	QUARTZ BRECCIA VEINING - wallrock inclusions+ epidote, drusy, white, Pbs, Zns	24710	112.47	113.69	1.22	0.025	0.44	32000	
				24711	113.69	114.91	1.22	0.005	0.18	1360	9300

DIAMOND DRILL RECORD

PROPERTY CAHPPELLE

HOLE No. M87-24

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au		Ag		Pb / Zn	
								(oz/t)	(oz/t)	(oz/t)	(oz/t)	(ppm)	(ppm)
114.9	121.3	95	DACITE - bx in part, 0.6m felsic dyke @ 116.1, 5-10% pyrite										
121.3	123.4	95	DACITE - abundant qtz lenses - 3-5% pyrite	24712	121.31	123.44	2.13	0.001	0.06				
123.4	131.4	95	DACITE - num qtz lenses and strrs as previous, Mainly lt grey with pinkish cast, Bx and healed with qtz 125.9-127.5m										
131.4	140.5	95	DACITE - buff to pink, K-feldspar altn. Num grey banded 2mm qtz vlts and hairline zeolite frs										
140.5	148.7	95	DACITE - grey with pinkish cast, shearing with banded qtz vlts - chlorite partings; Qtz flooding @ 142, 143.6, 146.6-147.2m 5-10% pyrite										
148.7	153.9	95	QTZ FELDSPAR PORPHYRY DYKE - bx zone - rounded frags of dacite and ang qtz and feldspar xls - 2-4mm - lt grey, Pyrite to 20% at start of section	24713	148.74	150.26	1.52	0.001	0.06				
153.9	156.7	95	DACITE - grey, irreg contacts with previous; bx grey banded qtz vlts										
156.7	158.0	95	QUARTZ BRECCIA VEIN - with contained wallrock; drusy in part - epidote, ZnS, PbS	24714	156.67	158.01	1.34	0.001	0.06	185			3000
158.0	170.1	95	DACITE - QSP Altn qtz strrs locally										

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-24

DIP TEST		
Footage	Angle	
	Reading	Corrected

Sheet No. 3

Hole No. _____ Sheet No. _____ Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au	Ag	Cu
								(oz/t)	(oz/t)	(ppm)
170.1	172.8	95	QTZ FELDSPAR PORPHYRY - bx zone as previous gradational in latter part of section to lt grey qtz ppy.							
172.8	176.8	95	DACITE - buff to lt grey							
176.8	180.1	95	QFP - bx in part as previous; finely dissemin py							
180.1	192.6	95	DACITE - lt grey to brown, zeolite strcs 0.3m qtz lenses @ 187,190 and 1cm strcs to end of section; broken with gouge @ 192m	24715	190.04	191.41	1.37	0.007	0.06	
				24716	191.41	192.63	1.22	0.020	0.05	
192.6	197.2	95	QUARTZ (CARR) VEIN - drusy, white to grey, pyrite lined cavities-greyish cast, -metallics?-2 stages qtz-late creamy white stage with bx @ 195.7m. Pale green silicate @ 193.5m	24717	192.63	193.09	0.46	0.037	0.06	40
				24718	193.09	193.55	0.46	0.011	0.05	27
				24719	193.55	194.16	0.61	0.032	0.08	255
				24720	194.16	194.77	0.61	0.020	0.06	46
				24721	194.77	195.38	0.61	0.003	0.04	31
				24722	195.38	195.99	0.61	0.005	0.07	38
197.2	212.1	95	DACITE - bx and qtz veined to 198.1m Qtz vltcs - 2cm @ 60° with K-feldspar 201.5-204.2m - Fragmental texture from this point to end of hole	24723	195.99	196.60	0.61	0.017	0.07	550
				24724	196.60	197.21	0.61	0.008	0.10	295
				24725	197.21	198.12	0.91	0.154	1.47	
				24801	198.12	199.03	0.91	0.028	0.14	
				24802	199.03	200.55	1.52	0.007	0.13	
				24803	200.55	202.07	1.52	0.012	0.12	
				24804	202.07	202.98	0.91	0.011	0.13	
			END OF HOLE	24805	202.98	204.20	1.22	0.006	0.12	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-25

DIP TEST		
Footage	Angle	
	Reading	Corrected
178.6	66	60

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun August 28, 1987
 Date Finished Sept. 1, 1987
 Date Logged _____

Lat. 2398.12
 Dep. 12387.77
 Bearing -60° @ 140°
 Elev. Collar 1828.70

Total Depth 178.6m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
0	24.4		CASING						
24.4	32.9	60	ANDESITE - green, badly broken-core loss						
32.9	46.6		Triconing - no core						
46.6	87.2	65	ANDESITE - 2-4mm px phenos-badly broken, variable core recovery - no Fe stain even from top of hole; 2% pyrite restricted to fractures, zeolite on frs; hematite-epidote section 83.8-84.4m						
87.2	95.4	85	ANDESITE , less broken than previous-better recovery- prominent px phenos						
95.4	100.0	85	DACITE - buff to grey-broken						
100.0	107.0	90	ANDESITE - crowded px phenos - lt green, gradational with following, Py seams						
107.0	108.8	95	DACITE - num blue-grey qtz veins and vlts with abundant pyrite on frs - 10%	24726	106.98	108.81	1.83	0.006	0.11
108.8	121.9	95	DACITE - brick red- num qtz strrs @ 40° to core. 5% pyrite in qtz	24727	116.59	118.21	1.62	0.001	0.04
121.9	124.5	90	ANDESITE - med green-epidote strrs Occ 2mm qtz vlts, 1mm pyrite seams						
124.5	135.0	95	DACITE - salmon pink-num qtz vlts, bx with 2cm frags, buff to 127.4-alt pink and brown						

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-25

DIP TEST		
Footage	Angle	
	Reading	Corrected

Sheet No. 2

Hole No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Logged By _____
Date Begun _____	Bearing _____	Claim _____
Date Finished _____	Elev. Collar _____	Core Size _____
Date Logged _____		

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Cu (ppm)
135.0	141.7	95	DACITE - lt grey-significant increase in qtz veining and dissem pyrite. Grey ppy dyke - 0.3m @ 139.6m							
141.7	144.8	95	DACITE - qtz flooding, 5% dissem pyrite	24728	141.73-143.25	1.52	0.001	0.06		
				24729	143.25-144.77	1.52	0.001	0.06		
144.8	148.5	95	QUARTZ VEINING - 50-100% qtz- wallrock inclusions- 20% pyrite initial 0.6m Sheared with gouge 147.9-148.5m	24730	144.77-145.99	1.22	0.001	0.07		
				24731	145.99-147.21	1.22	0.001	0.03		
				24732	147.21-148.49	1.28	0.001	0.04		
148.5	151.2	95	DACITE - significant qtz content- gradational contacts	24733	148.49-149.83	1.34	0.001	0.04		
				24734	149.83-151.17	1.34	0.001	0.05		
151.2	154.7	95	QUARTZ BRECCIA VEIN - angular, siliceous dk grey fragments in white qtz matrix Finely dissem sulfides - pyrite- Early grey qtz cut by creamy white variety - drusy in part. Chalcedonic qtz near end of section. Qtz bx @ 152.7 Minor gouge @ 151.5, 154.1m	24735	151.17-151.78	0.61	0.013	0.12	138	
				24736	151.78-152.39	0.61	0.005	0.18	162	
				24737	152.39-153.00	0.61	0.001	0.06	24	
				24738	153.00-153.61	0.61	0.001	0.02	12	
				24739	153.61-154.68	1.07	0.001	0.04	28	
154.7	158.6	95	DACITE - white carbonate section at start to 158.4 - irreg qtz lenses to end	24740	154.68-155.78	1.10	0.004	0.34		
				24741	155.78-157.18	1.40	0.003	0.06		
				24742	157.18-158.64	1.46	0.001	0.06		
158.6	163.9	95	DACITE - occ qtz strrs with pyrite - grey broken in part with white carb on frs							
163.9	165.4	95	DACITE - num qtz lenses and strrs with dissem pyrite	24743	163.92-165.35	1.43	0.004	0.06		

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-25

DIP TEST		
Footage	Angle	
	Reading	Corrected

Sheet No. 3

Hole No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Logged By _____
Date Begun _____	Bearing _____	Claim _____
Date Finished _____	Elev. Collar _____	Core Size _____
Date Logged _____		

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au		Ag	
								(oz/t)	(oz/t)	(oz/t)	(oz/t)
165.4	166.4	95	QUARTZ VEIN - white - drusy in part - finely dissem pyrite	24744	165.85	166.42	1.07	0.005	0.05		
166.4	169.2	95	DACITE - grey, abundant qtz veining- 1mm qtz vltis randomly oriented plus irreg qtz patches - white carb-clay on frs at end with gouge	24745	166.42	167.94	1.52	0.001	0.03		
				24746	167.94	169.16	1.22	0.002	0.05		
169.2	172.5	95	DACITE as previous - qtz veining not as pronounced								
172.5	178.6	95	DACITE - aphanitic- grey with epidote stris + zeolite and carbonate on frs to 174.3m Some irreg qtz lenses and stris in more granular matrix to 178.3. Andesite px ppy last 0.3m								
END OF HOLE											

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-26

DIP TEST		
		Angle
Footage	Reading	Corrected
215.2	66	60

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun Sept. 1, 1987
 Date Finished Sept. 4, 1987
 Date Logged _____

Lat. 2437.68
 Dep. 12431.23
 Bearing -60° @ 140°
 Elev. Collar 1842.42

Total Depth 215.2m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Cu (ppm)
FROM	TO									
0	36.6		CASING							
36.6	111.3	60	ANDESITE PORPHYRY - 2-4mm px phenos 5% dissem pyrite mainly on chloritic frs; py is cg in part; Entire section badly broken with num gouge sections and core loss. Mislatch @ 105.2m. Occ dacite sections including initial 3m, 69.2-71.3, Pink zeolite on fractures							
111.3	114.6	70	ANDESITE as previous - not as badly broken; abundant py on frs							
114.6	115.2	80	DACITE - medium brown, siliceous, irreg qtz lenses							
115.2	119.5	85	ANDESITE as previous - fairly abundant qtz bx zones 117.3-119.2m with pyrite; 8cm fault bx @ 60° @ 117.2m							
119.5	123.8	90	DACITE - buff to grey - to 121m qtz vltz and 10% pyrite; From 121 alternating qtz bx; 8-15cm gouge @ 60° @ 121.3 and 122.5	24747	119.48	121.00	1.52	0.005	0.12	91
				24748	121.00	122.52	1.52	0.002	0.19	60
				24749	122.52	123.80	1.28	0.001	0.24	18
123.8	125.2	95	QUARTZ BRECCIA - alt white to dk grey quartz - dissem py to 5%; Subangular lithic frags 1-3cm. Sharp lower contact @ 60°	24750	123.80	124.50	0.70	0.001	0.06	50
				24751	124.50	125.20	0.70	0.002	0.17	28

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-26

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au Ag Cu		
								oz/t)	(oz/t)	(ppm)
125.2	127.1	95	DACITE - buff - occ white qtz strs with pyrite. Broken with gouge -0.3m- @ 126.2	24752	125.20	127.09	1.89	0.001	0.06	102
127.1	128.6	95	DACITE - grey, alternating with andesite 2mm px phenos locally							
128.6	129.9	95	QTZ FELDSPAR PORPHYRY dyke - bx with irreg qtz lenses- buff to pink	24753	128.63	129.91	1.28	0.001	0.06	38
129.9	142.0	95	DACITE - fragmental texture - Px phenos 1-2mm. Lithic cherty frags with 5-10% dissem pyrite in matrix. 15cm gouge at 131m Broken to 133.5m. Minor qtz Locally broken with gouge sections 134.7, 140.5 and end. 2mm white gypsum strs in latter part of section							
142.0	145.8	90	FAULT BRECCIA - dk grey chloritic and graphitic matrix with rounded 2cm qtz fragments. Discrete qtz lenses 142.3-142.6 (with jasper) and 144.8-145.8. Sharp lower contact @ 50°	24754	141.98	142.65	0.67	0.001	0.08	310
				24755	142.65	144.11	1.46	0.001	0.07	240
				24756	144.11	145.79	1.68	0.004	0.12	380
145.8	153.6	95	DACITE - fragmental texture-lapilli size frags, brecciated; qtz vltz; qtz rich section 149.3-150.3m Gouge 150.6 and end; Green mica 146 and 150.6m	24757	149.35	150.57	1.22	0.001	0.06	115
153.6	158.2	95	ANDESITE - medium green, abundant epidote altn. Num qtz strs, Frag texture in part 0.3 m fault bx and gouge 156.7m							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-26

DIP TEST		
		Angle
Footage	Reading	Corrected

Sheet No. 3

Hole No. _____	Lat. _____	Total Depth _____
Section _____	Dep. _____	Logged By _____
Date Begun _____	Bearing _____	Claim _____
Date Finished _____	Elev. Collar _____	Core Size _____
Date Logged _____		

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu		Pb	Zn	
							(ppm)	(oz/t)			(oz/t)
158.2	159.4	95	DACITE - abundant qtz veining and qtz lenses - Qtz Bx @ 158.8, followed by fault gouge for 0.3m - Qtz bx-dk grey vlts cut by creamy white chalcedonic qtz	24758	158.19	159.41	1.22	78	0.001	0.05	
159.4	165.2	95	DACITE - buff to med brown; aphanitic, Num 2-4mm banded grey qtz vlts								
165.2	172.8	95	DACITE - buff to grey- more granular than previous. Qtz vlts as previous plus 15cm lengths of grey qtz - tight with epidote - no sulfide - @ 167.9 and 169.8m								
172.8	176.2	95	DACITE - buff to grey- badly broken; irreg qtz lenses near end of section								
176.2	179.7	95	QUARTZ BRECCIA ZONE - epidote and streaky ZnS to 177m. Massive 4mm pyrite str @ 176.2. Qtz bx to end of section Fault @ 178.6m - gouge	24759	176.17	177.08	0.91	340	0.004	0.47	280
				24760	177.08	178.30	1.22	132	0.001	0.12	60
				24761	178.30	179.67	1.37	86	0.005	0.08	160
179.7	187.3	95	DACITE - grey-partly gradational to andesite. Occ qtz str with orange variety- 1mm pink zeolite str- Occ grey qtz vlts.								460
187.3	190.7	95	DACITE - grey - granular - qtz vlts Gouge 189.2m								
190.7	199.9	95	DACITE - buff to brown - silicified Qtz bx with K-feldspar 99.7	24762	191.11	192.33	1.22	300	0.001	0.06	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-26

DIP TEST		
		Angle
Footage	Reading	Corrected

4

Hole No. _____ Sheet No. _____ Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/l)	Ag (oz/l)	Cu (ppm)
FROM	TO										
199.9	204.2	95	DACITE - grey, abundant epidote altn - not as silicified as previous								
204.2	206.3	95	DACITE - lt grey-green, num dk grey qtz strs and irreg qtz lenses. 1mm dissem pyrite clots	24763	204.46	205.68	1.22	0.001	0.11	1340	
206.3	204.2	95	DACITE - grey - abundant epidote- lt grey to creamy white - few qtz vltz- creamy white with finely dissem pyrite; Occ qtz filled fractures								
			END OF HOLE								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-27

DIP TEST		
Footage	Angle	
	Reading	Corrected
221.3	65	59

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun Sept. 4, 1987
 Date Finished Sept. 7, 1987
 Date Logged _____

Lat. 2290.90
 Dep. 12511.73
 Bearing -60° @ 320°
 Elev. Collar 1878.04

Total Depth 221.3m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Cu (ppm)
FROM	TO									
0	30.5		CASING							
30.5	43.9	70	ANDESITE PORPHYRY - varying to xl tuff, 2-4mm px phenos plus similar size xl and lithic fragments in medium green matrix. Finely dissem pyrite. Num chlorite slips - badly broken 35, 40.5-42.4m							
43.9	45.4	80	QUARTZ VEINING and silicified grey volcanic - broken, Fe stain - qtz is drusy - minor sulfide- green mica @ 45.3m	24764	43.89	45.41	1.52	0.001	0.03	19
45.4	46.3	80	ANDESITE - preceded by 0.3m gouge	24765	45.41	46.32	0.91	0.001	0.04	51
46.3	51.2	70	QUARTZ VEINING and silicified andesite; badly broken with core loss. Significant qtz veining to 50.3. Gouge @ 46.6. Qtz is drusy in part	24766	46.32	48.30	1.98	0.001	0.03	23
				24767	48.30	50.28	1.98	0.022	0.03	29
				24768	50.28	51.19	0.91	0.001	0.03	26
51.2	53.9	80	ANDESITE PORPHYRY - crowded 4mm px phenos							
53.9	54.7	85	ANDESITE - fragmental - 2cm rounded lithic frags							
54.7	55.2	90	FELSIC DYKE - vfg lt brown matrix, some white feldspar phenos							
55.2	61.3	90	ANDESITE - xl lithic tuff - epidote altn locally - few lithic frags							
61.3	62.5	90	FELSIC DYKE - fg - pink - sharp upper contact - 0.5mm feldspar phenos							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-27

DIP TEST		
Footage	Angle	
	Reading	Corrected

Sheet No. 2

Hole No. _____ Section _____ Lat. _____ Total Depth _____
 Date Begun _____ Date Finished _____ Bearing _____ Logged By _____
 Date Logged _____ Elev. Collar _____ Core Size _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE			
FROM	TO									
62.5	81.1	95	ANDESITE - xl lithic tuff - augite ppy matrix. Occ 2mm white carb str							
81.1	86.7	95	ANDESITE - fg - uniform grey-green. Badly broken - clay-carb shear zone 85.6-86.3m							
86.7	95.1	95	QTZ FELDSPAR PORPHYRY - grey fg matrix initially with 2mm qtz eyes grading to scattered broken pink feldspar phenos- 1-2mm; In central section-mainly 2-4mm pink phenos. Finely disseminated pyrite - some dk grey lithic inclusions at end irregular contacts; gouge 91.7-92.3							
95.1	101.2	90	ANDESITE PORPHYRY - 2-4mm px phenos in medium green matrix. White carb str - 5% disseminated pyrite							
101.2	101.8	95	SHEAR ZONE - @ 30° to core - gouge							
101.8	104.9	95	ANDESITE - occ px phenos - finely disseminated pyrite - occ 2mm white qtz str and silicified areas							
104.9	120.9	95	ANDESITE PORPHYRY as previous - randomly oriented white qtz str - Broken-gouge 110.3, 111.3, 114-115m, 118; Fragmental texture 118m. Qtz str @ 45°							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-27

DIP TEST		
		Angle
Footage	Reading	Corrected

3

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____		Dep. _____	Logged By _____
Date Begun _____		Bearing _____	Claim _____
Date Finished _____		Elev. Collar _____	Core Size _____
Date Logged _____			

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au	Ag	Cu
									(ppb)	(ppm)	(ppm)
120.9	122.2	95	RHYOLITE DYKE - upper and lower contacts sharp @ 25° - 1-2mm qtz str. Pink to grey siliceous aphanitic matrix - no obvious phenos. 5% dissem pyrite								
122.2	124.1	95	ANDESITE as previous - xl tuff in part								
124.1	128.0	95	RHYOLITE DYKE as previous - fg dissem py 1cm drusy white qtz vits locally								
128.0	130.0	10	FAULT ZONE - gouge - 0.3m core only								
130.0	130.8	90	ANDESITE PORPHYRY as previous								
130.8	136.7	95	BRECCIA ZONE - fragments of andesite, rhyolite dyke, subrounded; resembles diatrema? - QFP dyke material - 15cm @ 132.3m - parallel to core- May be related to dk grey ppy dyke which appears to crosscut breccia over a 0.3m interval @ 134.4m. Qtz flooding @ 135.9 Most contained fragments are 2-5cm; some to 10 cm	24769	135.03	136.40	1.37		20	1.0	265
136.7	139.0	95	ANDESITE PORPHYRY - medium green matrix 4mm px phenos - silicified bx zone 137.8-138.4m								
139.0	141.0	95	PORPHYRY DYKE - fg lt to dk brown aphanitic matrix with pink feldspar phenos and mafic phenos 2-4mm - blocky QFP frags 0.6-1.2m Magnetic								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-27

DIP TEST		
Footage	Angle	
	Reading	Corrected

4

Hole No. _____ Sheet No. _____ Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (ppb)	Ag (ppm)	Cu (ppm)
FROM	TO									
141.0	143.1	95	BRECCIA ZONE - with 15cm ppy dyke as previous @ 142m. Broken grey banded qtz vlts cut by white qtz @ end of section	24770	141.43	-143.11	1.68	5	0.8	220
143.1	146.9	95	FELSIC DYKE - pink - siliceous- large inclusions of silicified andesite ppy Num qtz vlts 144.5-145.8m	24771	144.48	-145.85	1.37	50	0.9	405
146.9	150.9	95	PORPHYRY DYKE - dk grey magnetic matrix- chilled contacts - gradational to cg ppy with px phenos 146.9-147.5m. Occ 4mm qtz vlts @ 40° to core - finely dissem pyrite							
150.9	153.8	95	BRECCIA ZONE - closely spaced angular frags 2-10cm- of QFP and felsic dyke. Cut by fg dk grey ppy dyke - sharp contacts @ 70° @ 146.3-146.5m							
153.8	154.6	95	PORPHYRY DYKE - grey to green matrix - vfg non-magnetic							
154.6	157.4	95	BRECCIA ZONE as previous - more siliceous matrix							
157.4	160.9	95	GRAY PPY DYKE - magnetic							
160.9	161.7	95	FELSIC DYKE - num qtz vlts @ 45° - pink matrix; epidote altn							
161.7	163.5	95	GRAY PPY DYKE - qtz veining - little sulfide							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-27

DIP TEST		
	Angle	
Footage	Reading	Corrected

5

Hole No. _____	Sheet No. _____	Lat. _____	Total Depth _____
Section _____		Dep. _____	Logged By _____
Date Begun _____		Bearing _____	Claim _____
Date Finished _____		Elev. Collar _____	Core Size _____
Date Logged _____			

DEPTH FROM	TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (ppb)	Ag (ppm)	Cu (ppm)
163.5	164.7	95	FELSIC UNIT - num qtz strs @ 45°	24772	163.53	164.75	1.22	10	0.4	82
164.7	175.1	95	PORPHYRY COMPLEX - inclusions of andesite some indication of breccia - some qtz veining							
175.1	182.1	95	FELSIC UNIT - pink qtz strs @ 45°; qtz-K-feldspar 177.4-178.3m	24773	177.39	178.30	0.91	5 (oz/t)	0.6 (oz/t)	58
182.1	184.4	95	QUARTZ VEINING - in felsic unit - dacite Fault gouge - 10cm @ 182.6 @ 45° followed by 50-100% qtz to 183.3 then qtz veined felsic unit to end of section	24774	182.11	182.58	0.46	0.001	0.01	66
				24775	182.58	183.34	0.76	0.001	0.01	17
				24776	183.34	184.41	1.07	0.001	0.01	18
184.4	197.2	95	FELSIC UNIT - dacite? - lt brown to pink matrix - num qtz strs with pyrite streaks Fault @ 189.3m (lost drill water). 25% qtz in sampled interval	24777	191.26	192.48	1.22	10 (ppb)	0.7 (ppm)	17
197.2	201.8	95	DACITE - grey, siliceous, num qtz strs							
201.8	207.0	95	DACITE - approaching qtz-sericite-pyrite altn (QSP) num qtz strs cut by later massive qtz	24778	201.78	203.30	1.52	15	0.6	36
207.0	207.9	95	DACITE - buff to salmon pink							
207.9	213.1	95	BRECCIA ZONE - ppy matrix with angular lithic fragments. Drusy qtz vein and qtz bx in sample interval, parallel to core	24779	212.38	213.05	0.67	5	2.0	240

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-27

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____	Sheet No. <u>6</u>	Lat. _____	Total Depth _____
Section _____	Dep. _____	Bearing _____	Logged By _____
Date Begun _____	Date Finished _____	Elev. Collar _____	Claim _____
Date Logged _____			Core Size _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)	Cu (ppm)
FROM	TO									
213.1	217.5	95	BRECCIA ZONE as previous - qtz str							
217.5	219.3	95	QUARTZ VEINING - 1cm str parallel to core massive with inclusions 218.4-218.8m	24780	217.47	218.38	0.91	0.001	0.06	174
			White qtz bx	24781	218.88	219.32	0.94	0.001	0.08	148
219.3	221.3	95	BRECCIA ZONE as previous - qtz str							
			END OF HOLE							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-28

DIP TEST		
Footage	Angle	
	Reading	Corrected
160.3	NO TEST	

Hole No. _____ Sheet No. 1
 Section _____
 Date Begun Sept. 8, 1987
 Date Finished Sept. 10, 1987
 Date Logged _____

Lat. 2402.39
 Dep. 12344.65
 Bearing -50° @ 140°
 Elev. Collar 1811.42

Total Depth 160.3m
 Logged By NCC
 Claim Mining Lease 13
 Core Size NQ

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
0	33.5		CASING						
33.5	38.7	85	ANDESITE PORPHYRY - medium green - 2-4mm px phenos - broken, Fe stain						
38.7	40.5	85	ANDESITE - Qtz-K-feldspar veining @ 30° to core 38.7-39.1, 39.5-40.5. Fe stain-broken	24782	38.71	40.54	1.83	0.001	0.06
40.5	59.1	85	ANDESITE PORPHYRY as previous. Fe stain to 42.7. Fragmental texture locally. Badly broken, chloritic slips @ 40°; Locally heavy pyrite on fractures						
59.1	84.4	80	ANDESITE - porphyry texture - fewer and smaller phenos - scattered, badly broken						
84.4	85.6	85	DACITE - pink - silicified						
85.6	116.4	85	ANDESITE PORPHYRY - badly broken, grey Qtz vltz @ 114m; gradational to following Bx @ 112.8m - amethystine Qtz	24783	111.86	113.08	1.22	0.001	0.05
116.4	118.0	95	GREY PORPHYRY DYKE - orange feldspar phenos - magnetic						
118.0	123.8	90	ANDESITE PORPHYRY - shear zone @ 118.3 followed by Qtz bx and silicification to 120m - Dissem and streaky pyrite	24784	118.26	118.87	0.61	0.002	0.06

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-28

DIP TEST		
Angle		
Footage	Reading	Corrected

Hole No. _____ Sheet No. 2 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH FROM TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu	Au	Ag	Pb	Zn
							(ppm)	(oz/t)	(oz/t)	(ppm)	
123.8 128.0	95	DACITE - buff - qtz strcs and veining over sample interval- altn of andesite ppy	24785	125.97	127.40	1.43	0.001	0.05			
128.0 129.8	95	ANDESITE PORPHYRY - lt green matrix; crowded px phenos - minor qtz-carb veining									
129.8 132.5	95	DACITE - qtz strcs buff to lt green matrix some pink carbonate									
132.5 134.4	95	As previous but variably bx with abundant qtz veining and locally ZnS	24786	132.50	133.50	1.00	0.004	0.12	225		
			24787	133.50	134.41	0.91	0.006	0.31	1290		
											1450
134.4 136.3	95	QUARTZ VEIN - num inclusions silicified wallrocks and pink K-feldspar @ 134.7. Qtz bx in part - 3 generations of qtz	24788	134.41	135.11	0.70	155	0.005	0.12		
			24789	135.11	135.72	0.61	360	0.001	0.06		
			24790	135.72	136.33	0.61	345	0.001	0.07		
136.3 138.1	95	DACITE - moderate qtz veining and silicification- gradational to following	24791	136.33	137.76	1.43	0.001	0.06			
138.1 140.8	95	QUARTZ VEIN - bx in part with at least 2 stages of qtz - drusy in part - local dk grey cast - minor epidote - finely dissem py, po	24792	137.76	138.37	0.61	530	0.008	0.18		
			24793	138.37	138.98	0.61	235	0.007	0.34		
			24794	138.98	139.59	0.61	152	0.006	0.18		
			24795	139.59	140.20	0.61	525	0.012	0.32		
			24796	140.20	140.81	0.61	154	0.001	0.07		
140.80 143.6	95	DACITE - buff to lt grey; abundant qtz veining at start to 142m	24797	140.81	142.18	1.37	0.001	0.05			
			24798	142.18	143.55	1.37	0.002	0.04			

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M87-28

DIP TEST		
Footage	Angle	
	Reading	Corrected

Hole No. _____ Sheet No. 3 Lat. _____ Total Depth _____
 Section _____ Dep. _____ Logged By _____
 Date Begun _____ Bearing _____ Claim _____
 Date Finished _____ Elev. Collar _____ Core Size _____
 Date Logged _____

DEPTH		RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Au (oz/t)	Ag (oz/t)
FROM	TO								
143.6	144.2	95	QUARTZ BRECCIA - dissem pyrite	24799	143.55	144.16	0.61	0.001	0.05
144.2	147.6	95	DACITE - locally dk brown - only occ qtz vlts and pyrite seams						
147.6	149.1	95	QUARTZ VEINING - dissem pyrite	24800	147.58	149.10	1.52	0.002	0.06
149.1	160.3	95	DACITE - OSP Altn to 158.2m then grey andesite with white carb strs to end BX with gouge 151; broken 153.3-157.3m						
			END OF HOLE						

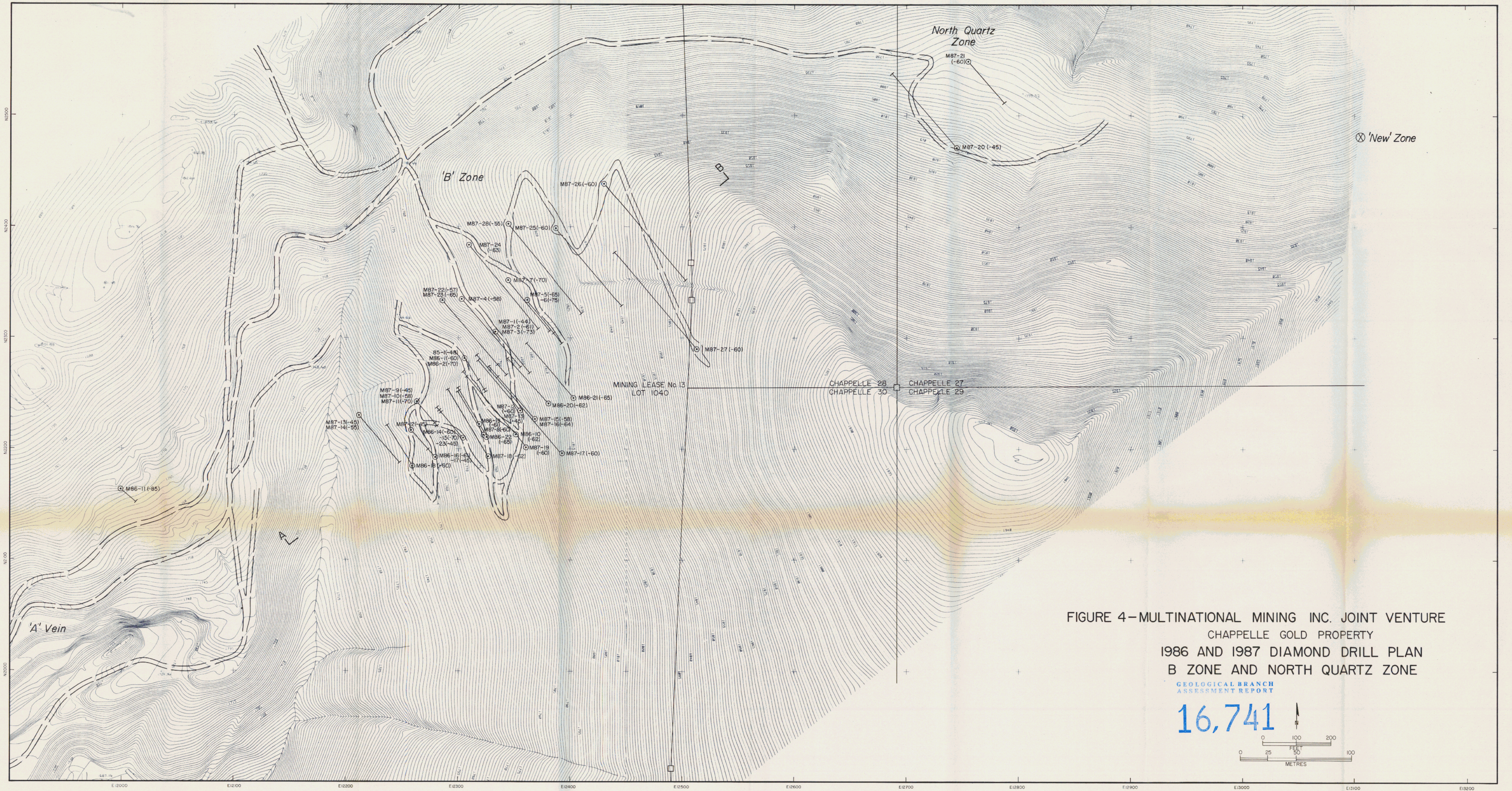
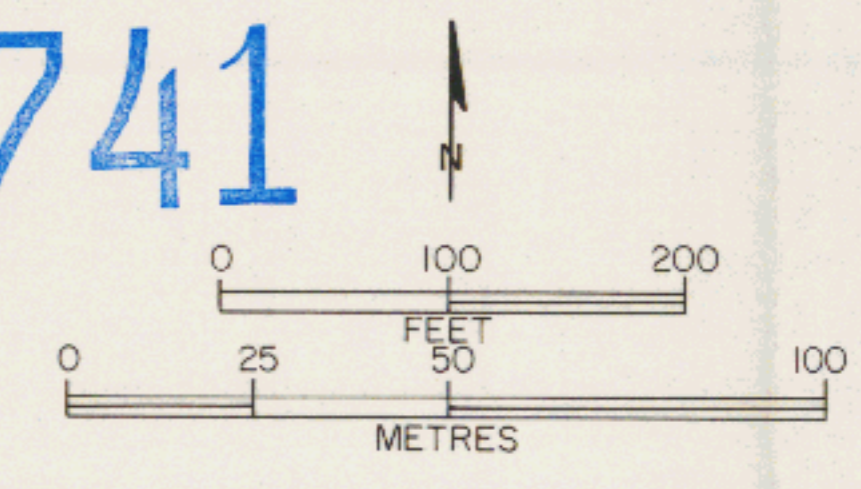


FIGURE 4—MULTINATIONAL MINING INC. JOINT VENTURE
 CHAPPELLE GOLD PROPERTY
 1986 AND 1987 DIAMOND DRILL PLAN
 B ZONE AND NORTH QUARTZ ZONE
 GEOLOGICAL BRANCH
 ASSESSMENT REPORT

16,741



2200 N
GEOLOGICAL BRANCH
ASSESSMENT REPORT

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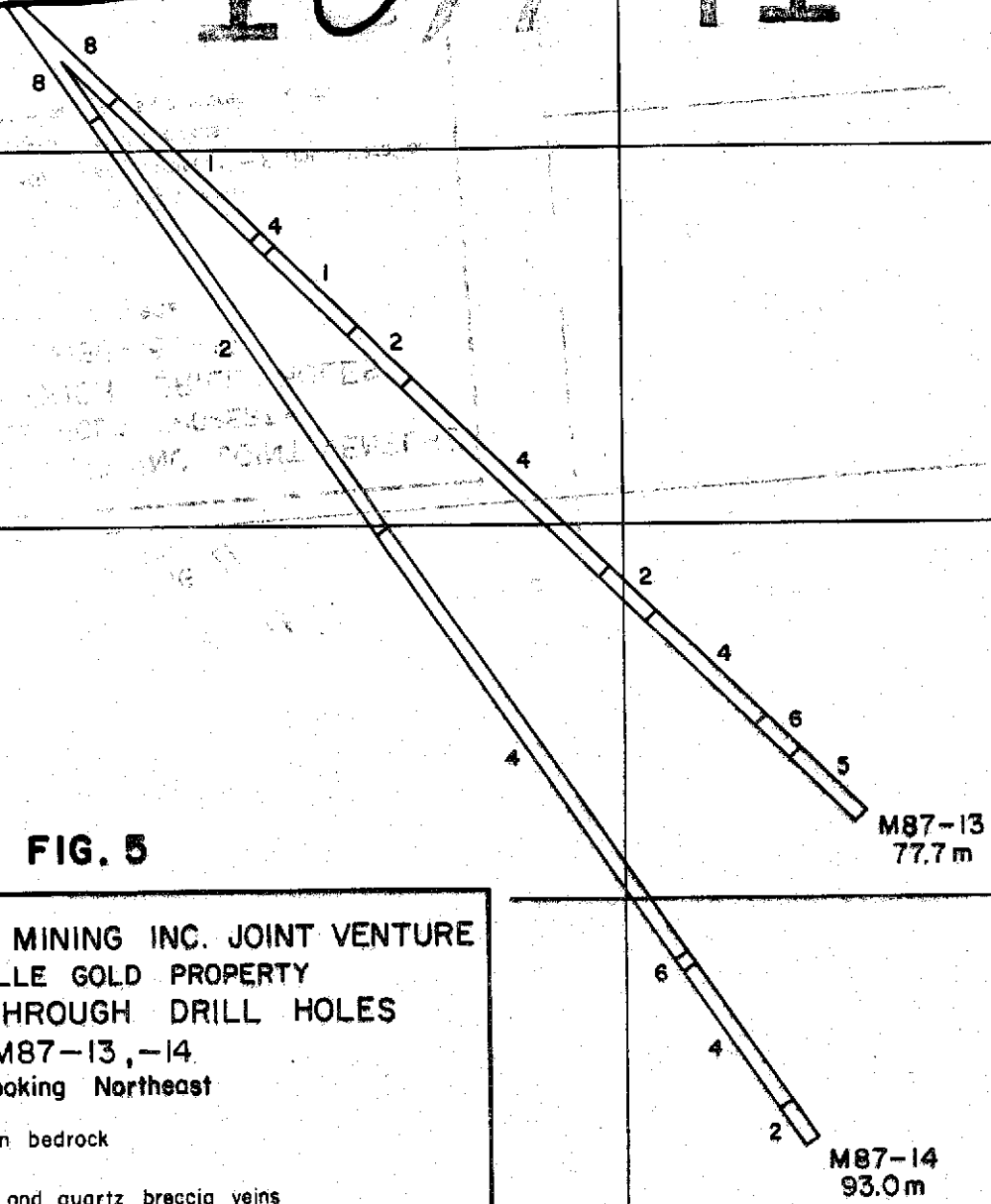


FIG. 5

MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
M87-13, -14
Looking Northeast

- 8 Overburden, broken bedrock
- 7 Fault Zones
- 6 Quartz (Carbonate) and quartz breccia veins
- 5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
- 4 Quartz - Feldspar - Porphyry; Felsite dykes
- 3 Intravolcanic Sediments - siltstones, calcareous units
- 2 Dacite
- 1 Augite Andesite

0.315, 5.78 / 0.55 — Au (oz/ton), Ag (oz/ton) / metres

Feet 0 25 50 Feet
 Metres 0 10 20 Metres
 Scale 1:500

16,741

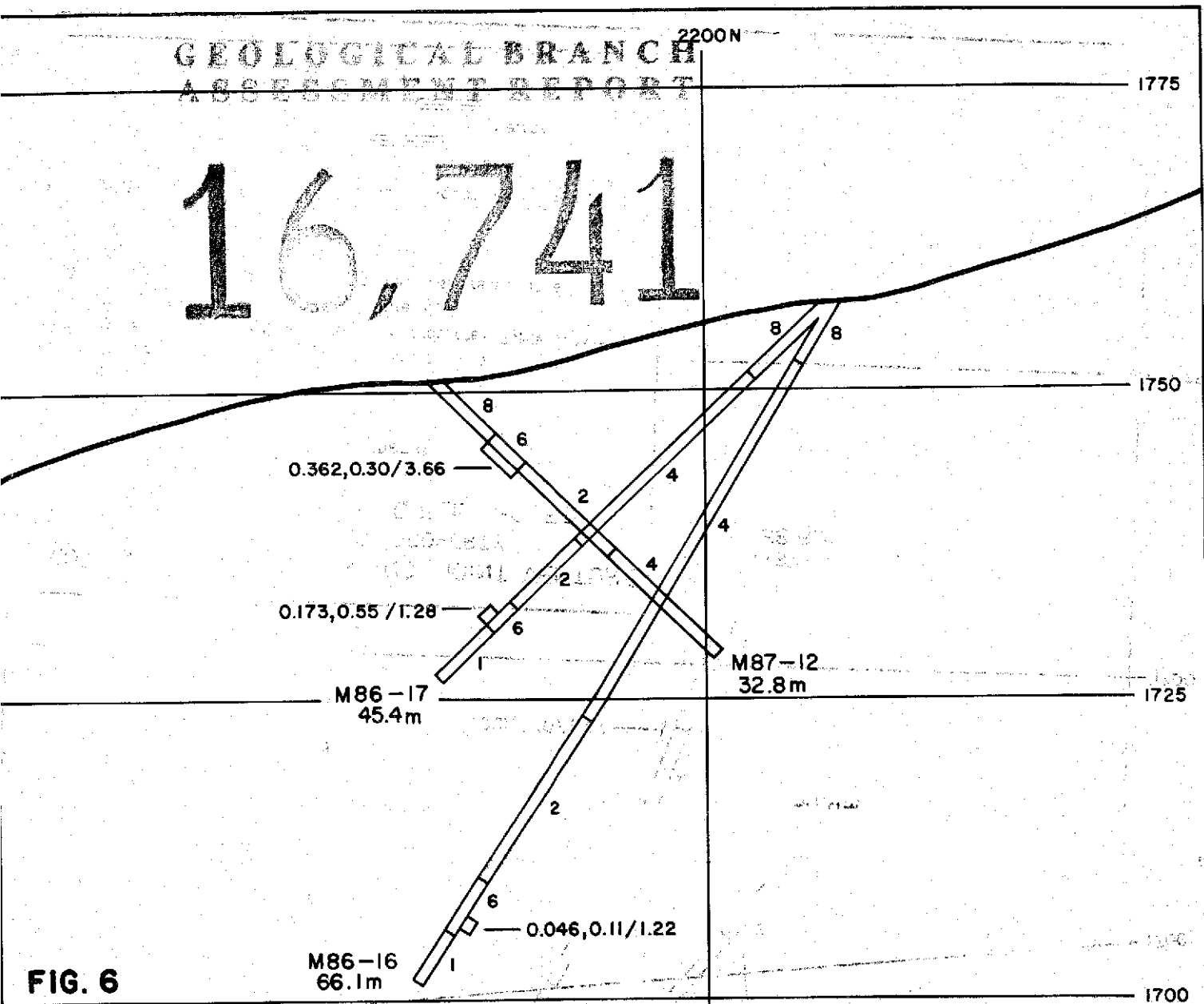
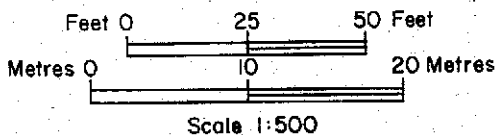


FIG. 6

MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
M87-12 ; M86-15, -16
Looking Northeast

- 8 Overburden, broken bedrock
- 7 Fault Zones
- 6 Quartz (Carbonate) and quartz breccia veins
- 5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
- 4 Quartz - Feldspar - Porphyry; Felsite dykes
- 3 Intravolcanic Sediments - siltstones, calcareous units
- 2 Dacite
- 1 Augite Andesite

0.315, 5.78 / 0.55 — Au (oz/ton), Ag (oz/ton) / metres



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2200 N

2250 N

1750

1725

1700

1675

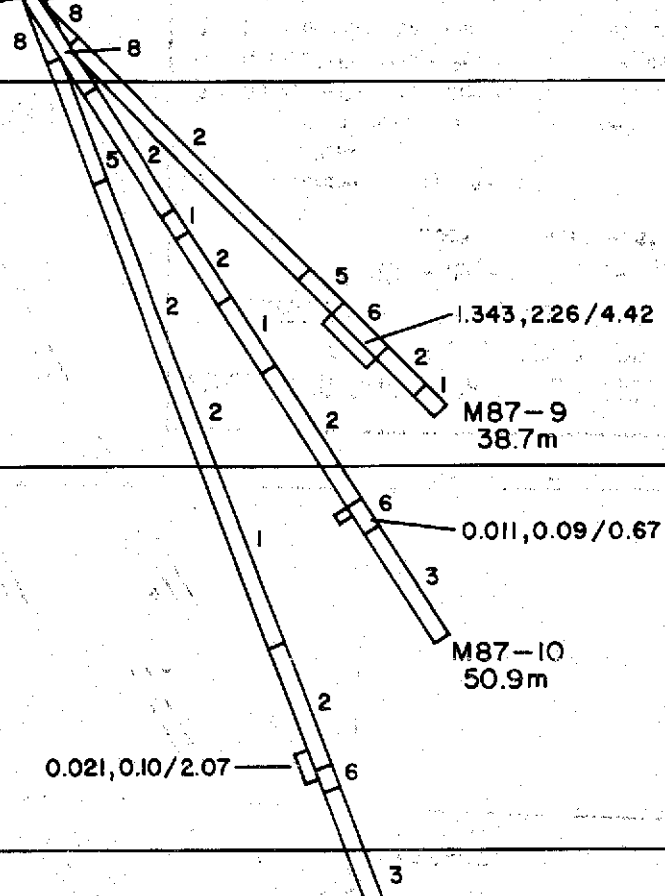
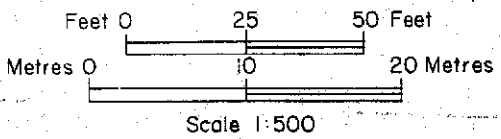


FIG. 7

MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
M87-9, -10, -11
Looking Northeast

- 8 Overburden, broken bedrock
- 7 Fault Zones
- 6 Quartz (Carbonate) and quartz breccia veins
- 5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
- 4 Quartz - Feldspar - Porphyry; Felsite dykes
- 3 Intravolcanic Sediments - siltstones, calcareous units
- 2 Dacite
- 1 Augite Andesite

0.315, 5.78 / 0.55 — Au (oz/ton), Ag (oz/ton) / metres



1775

2250N

2m SW of Section

7m SW of Section

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16,741

2200N

1750

1725

1700

1.153, 3.06 / 3.45
0.090, 0.40 / 5.70
1.363, 0.86 / 2.30

M86-19
71.4m

0.215,
0.47 / 4.11

M87-8
90.5m

1.301, 0.01 / 0.61

M86-22
118.0m

0.051, 0.06 / 3.28

0.048, 0.01 / 1.22

M87-18
146.3m

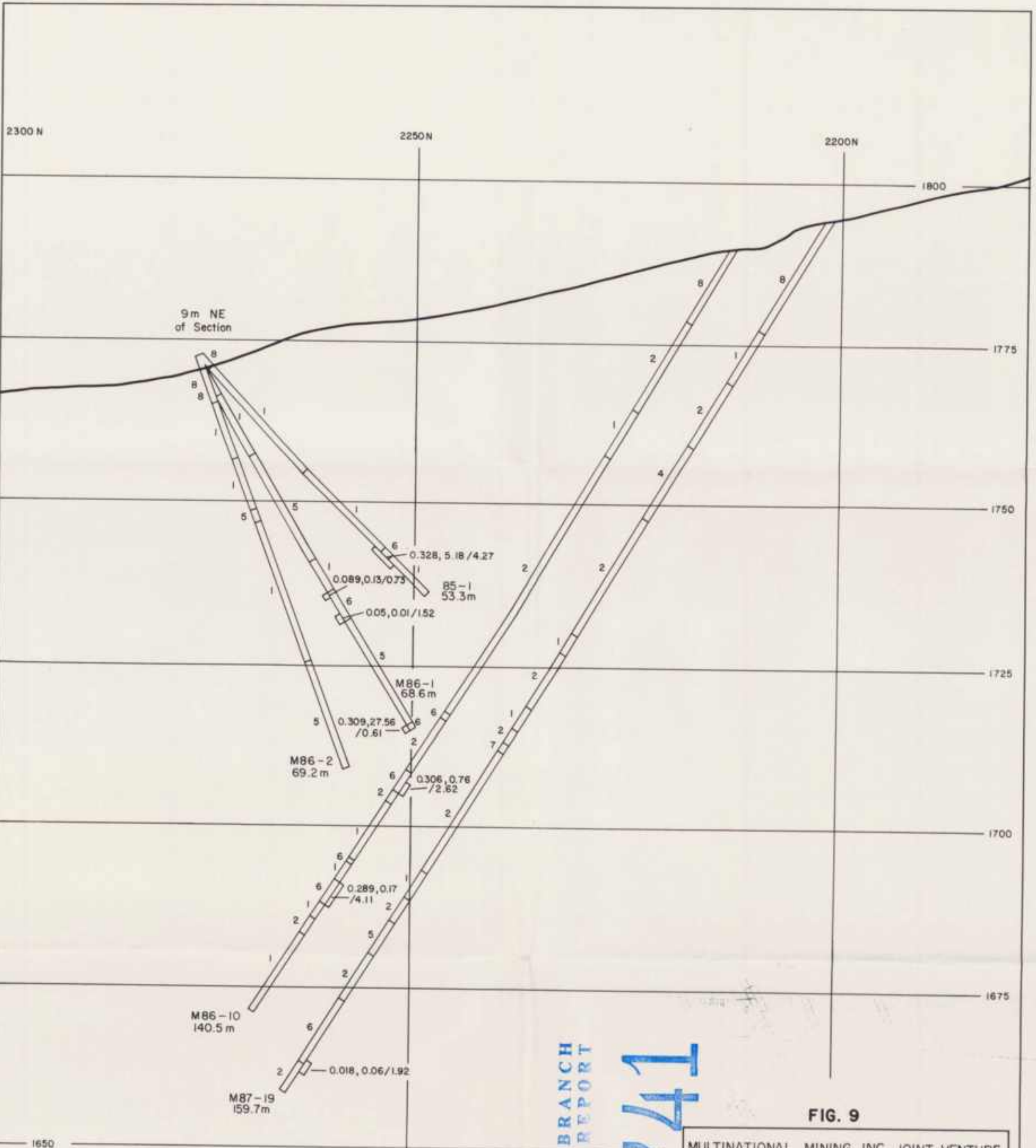
FIG. 8

MULTINATIONAL MINING INC. JOINT VENTURE
 CHAPPELLE GOLD PROPERTY
 SECTION THROUGH DRILL HOLES
 M86-19, -22; 87-8, -18
 Looking Northeast

- 8 Overburden, broken bedrock
- 7 Fault Zones
- 6 Quartz (Carbonate) and quartz breccia veins
- 5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
- 4 Quartz - Feldspar - Porphyry; Felsite dykes
- 3 Intravolcanic Sediments - siltstones, calcareous units
- 2 Dacite
- 1 Augite Andesite

0.315, 5.78 / 0.55 — Au (oz/ton), Ag (oz/ton) / metres

Feet 0 25 50 Feet
 Metres 0 10 20 Metres
 Scale 1:500



GEOLOGICAL BRANCH ASSESSMENT REPORT

167741

FIG. 9

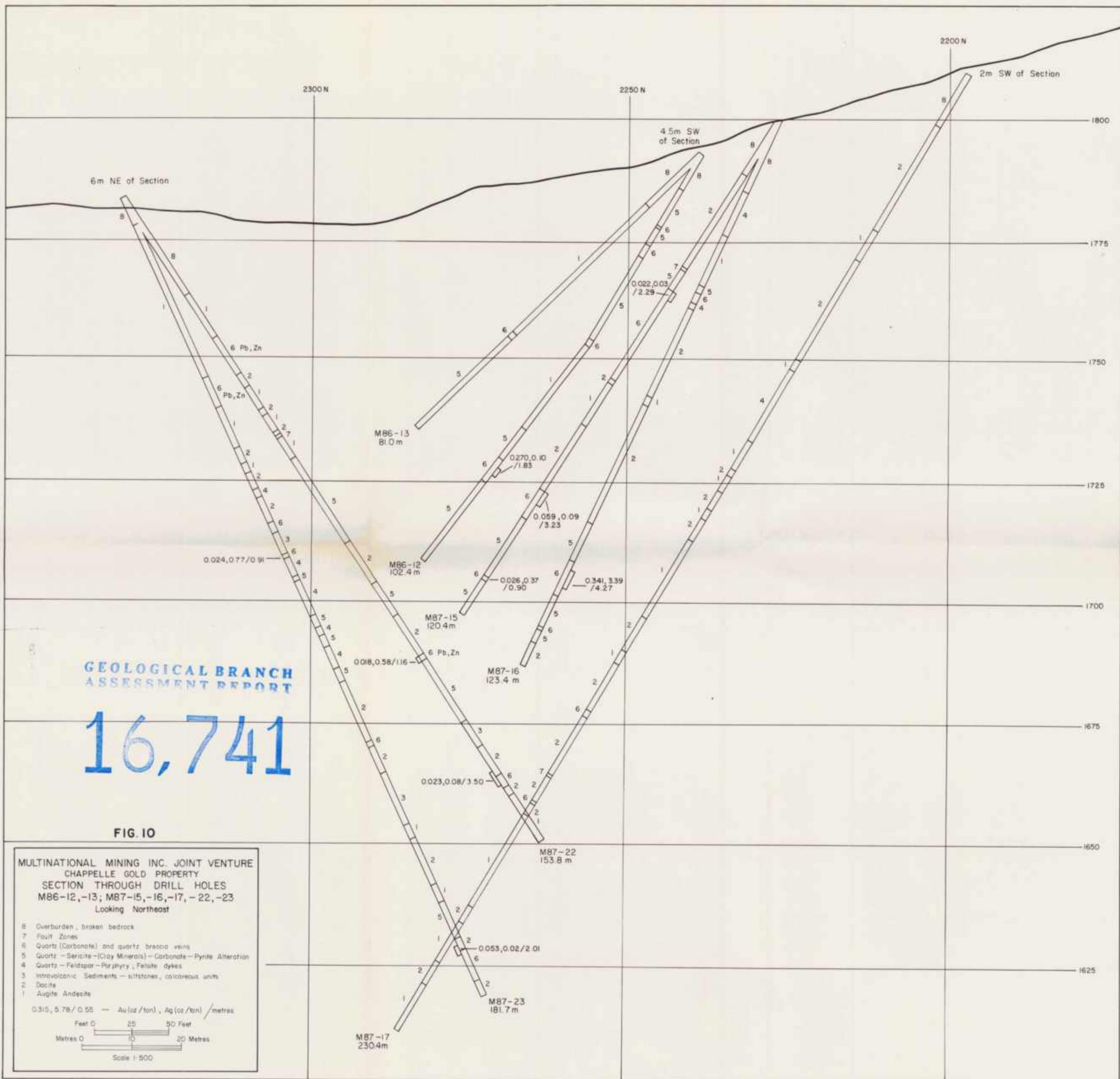
MULTINATIONAL MINING INC. JOINT VENTURE
 CHAPPELLE GOLD PROPERTY
 SECTION THROUGH DRILL HOLES
 MB7-19; MB6-1, -2, -10, 85-1
 Looking Northeast

- 8 Overburden, broken bedrock
- 6 Fault Zones
- 5 Quartz (Carbonate) and quartz breccia veins
- 5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
- 4 Quartz - Feldspar - Porphyry, Felsite dykes
- 3 Intravolcanic Sediments - siltstones, calcareous units
- 2 Dacite
- 1 Augite Andesite

0.315, 5.78 / 0.55 — Au (oz/ton), Ag (oz/ton) / metres

Feet 0 25 50 Feet
 Metres 0 10 20 Metres

Scale 1:500



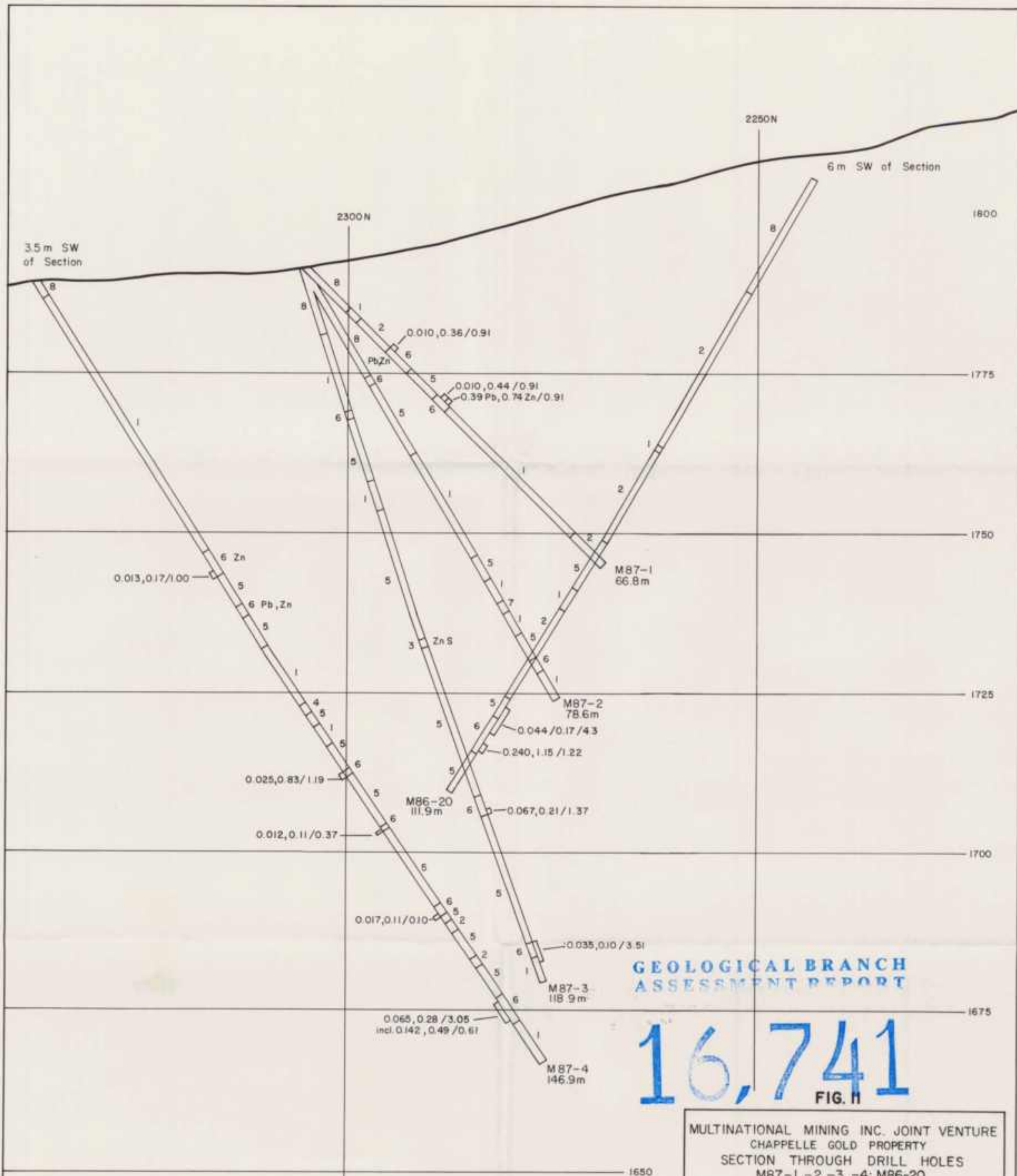
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ASSESSMENT REPORT

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FIG. 10

MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
M86-12, -13; M87-15, -16, -17, -22, -23
Looking Northeast

- 8 Overburden, broken bedrock
 - 7 Fault Zones
 - 6 Quartz (Carbonate) and quartz breccia veins
 - 5 Quartz - Sericite (Clay Minerals) - Carbonate - Pyrite Alteration
 - 4 Quartz - Feldspar - Porphyry, Felsite dykes
 - 3 Intravolcanic Sediments - siltstones, calcareous units
 - 2 Dacite
 - 1 Augite Andesite
- 0.315, 5.76 / 0.55 — Au (oz/ton), Ag (oz/ton) / metres
- Feet 0 25 50 Feet
Metres 0 10 20 Metres
Scale 1:500

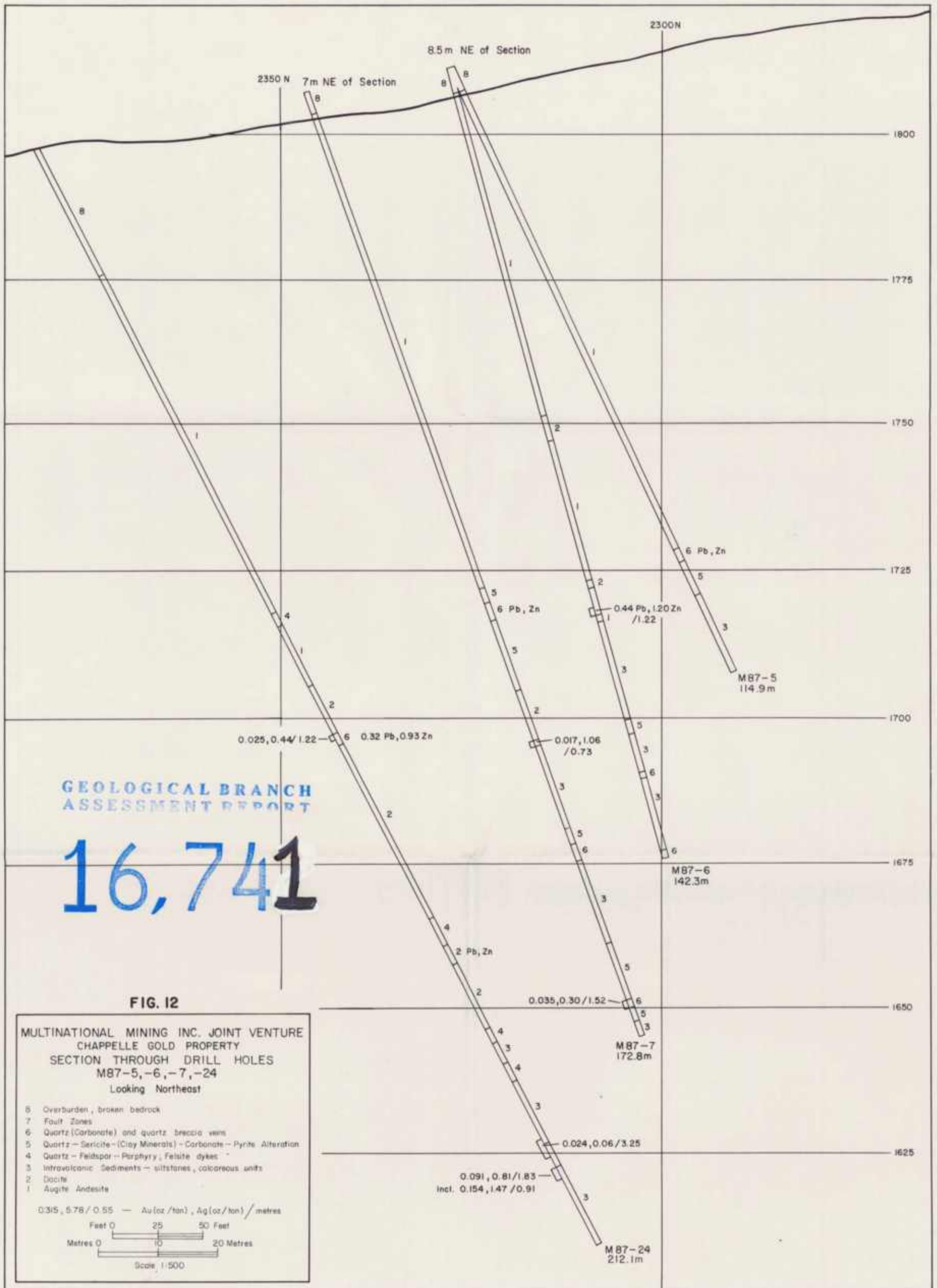


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ASSESSMENT REPORT**

16,741
FIG. II

MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
MB7-1, -2, -3, -4; M86-20
Looking Northeast

- 8 Overburden, broken bedrock
 - 7 Fault Zones
 - 6 Quartz (Carbonate) and quartz breccia veins
 - 5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
 - 4 Quartz - Feldspar - Porphyry, Felsite dikes
 - 3 Intravolcanic Sediments - siltstones, calcareous units
 - 2 Dacite
 - 1 Augite Andesite
- 0.315, 5.78 / 0.55 — Au (oz/ton), Ag (oz/ton) / metres
- Feet 0 25 50 Feet
Metres 0 10 20 Metres
Scale 1:500



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ASSOCIATION REPORT

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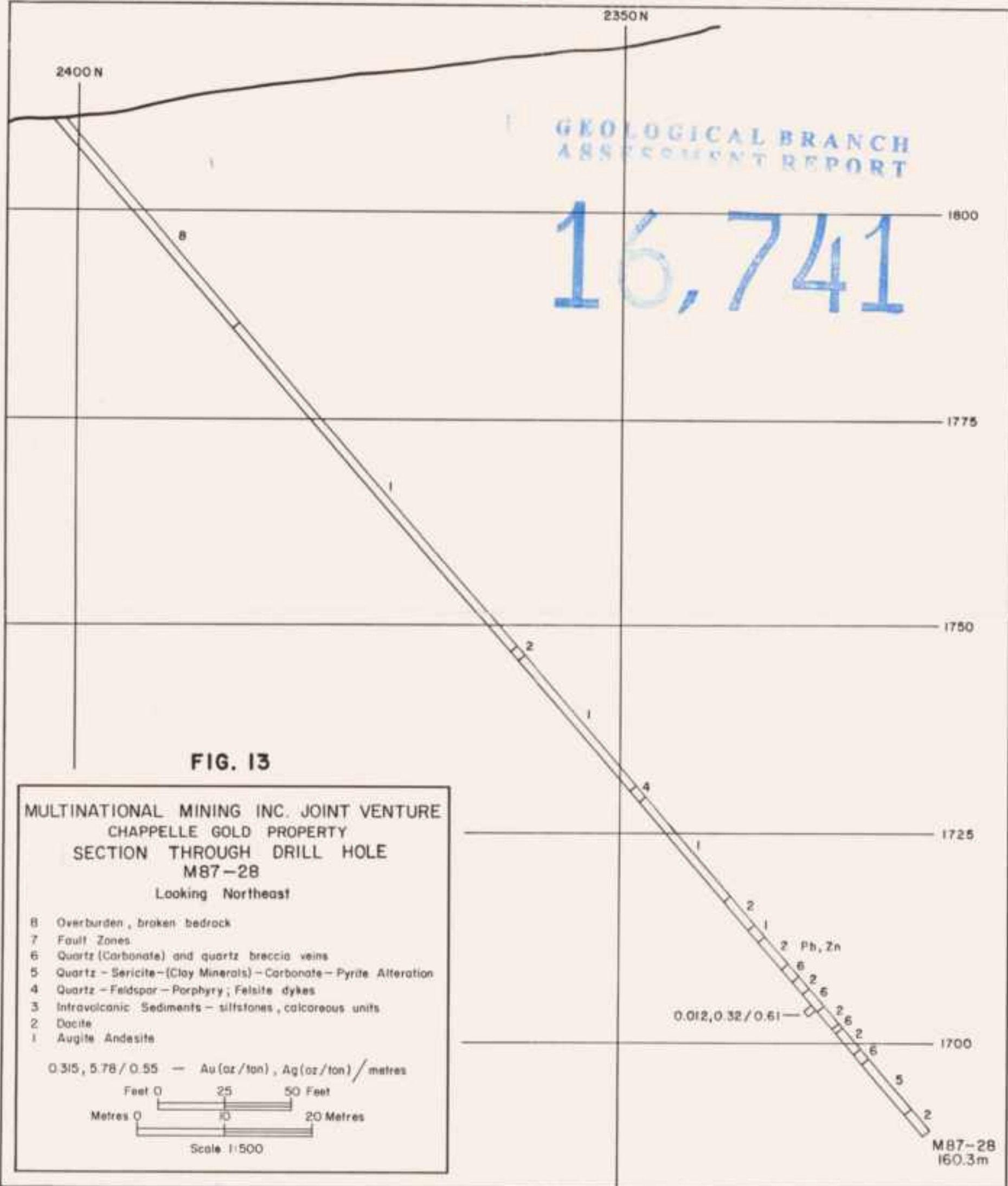


FIG. 13

MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLE
M87-28
Looking Northeast

8 Overburden, broken bedrock
7 Fault Zones
6 Quartz (Carbonate) and quartz breccia veins
5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
4 Quartz - Feldspar - Porphyry; Felsite dykes
3 Intravolcanic Sediments - siltstones, calcareous units
2 Dacite
1 Augite Andesite

0.315, 5.78 / 0.55 — Au (oz/ton), Ag (oz/ton) / metres

Feet 0 25 50 Feet
Metres 0 10 20 Metres
Scale 1:500

0.012, 0.32 / 0.61

M87-28
160.3m

16,741

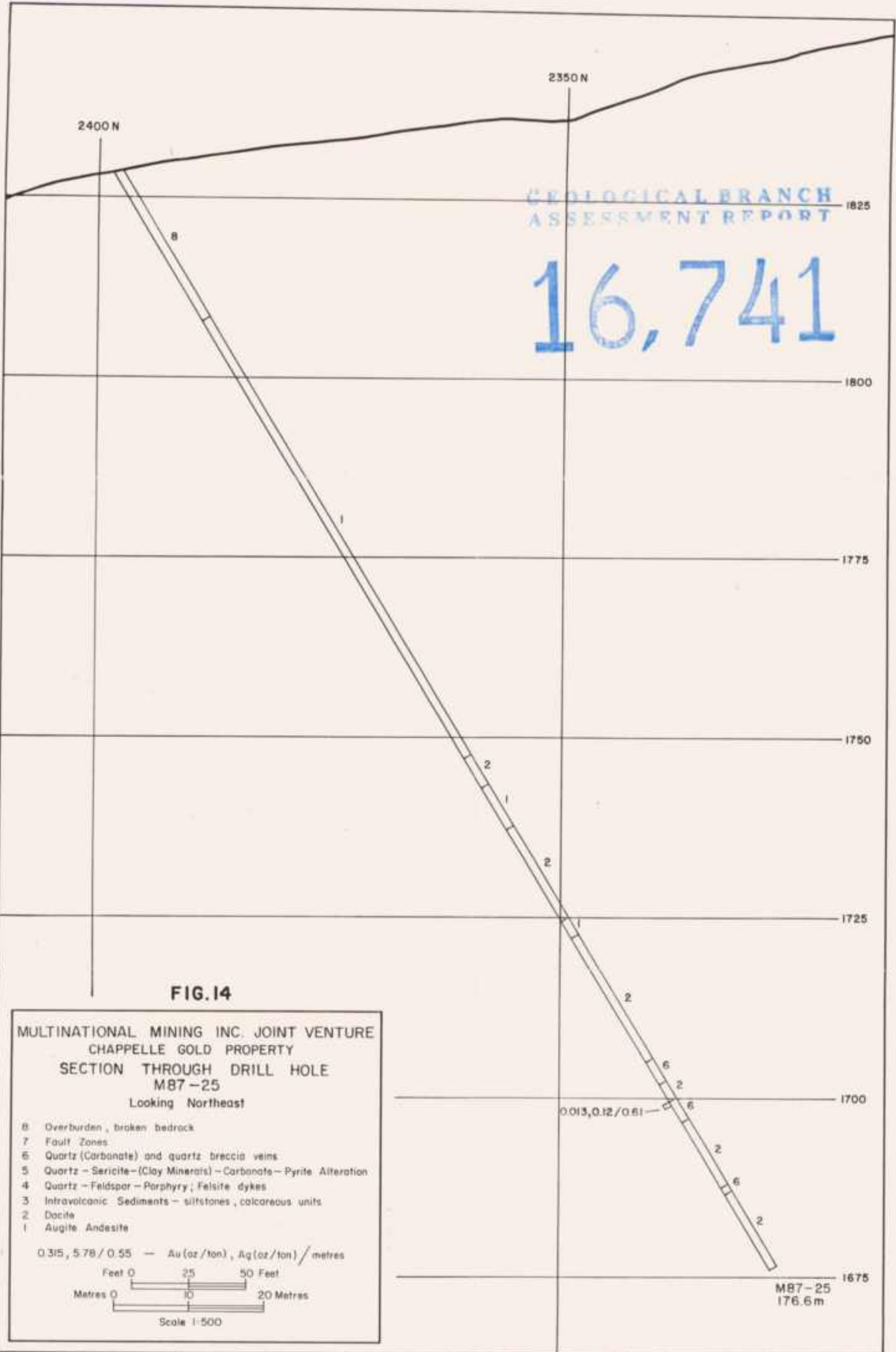


FIG. 14

MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLE
MB7-25
Looking Northeast

8 Overburden, broken bedrock
7 Fault Zones
6 Quartz (Carbonate) and quartz breccia veins
5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
4 Quartz - Feldspar - Porphyry; Felsite dykes
3 Intravolcanic Sediments - siltstones, calcareous units
2 Dacite
1 Augite Andesite

0.315, 5.78 / 0.55 — Au (oz/ton), Ag (oz/ton) / metres

Feet 0 25 50 Feet
Metres 0 10 20 Metres
Scale 1:500

2350 N

2300 N

1900

1875

1850

1825

1800

1775

1750

1725

1700

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ASSESSMENT REPORT

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FIG. 15

MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLE
M87-27
Looking Northeast

- 8 Overburden, broken bedrock
- 7 Fault Zones
- 6 Quartz (Carbonate) and quartz breccia veins
- 5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
- 4 Quartz - Feldspar - Porphyry; Felsite dykes
- 3 Intravolcanic Sediments - siltstones, calcareous units
- 2 Dacite
- 1 Augite Andesite

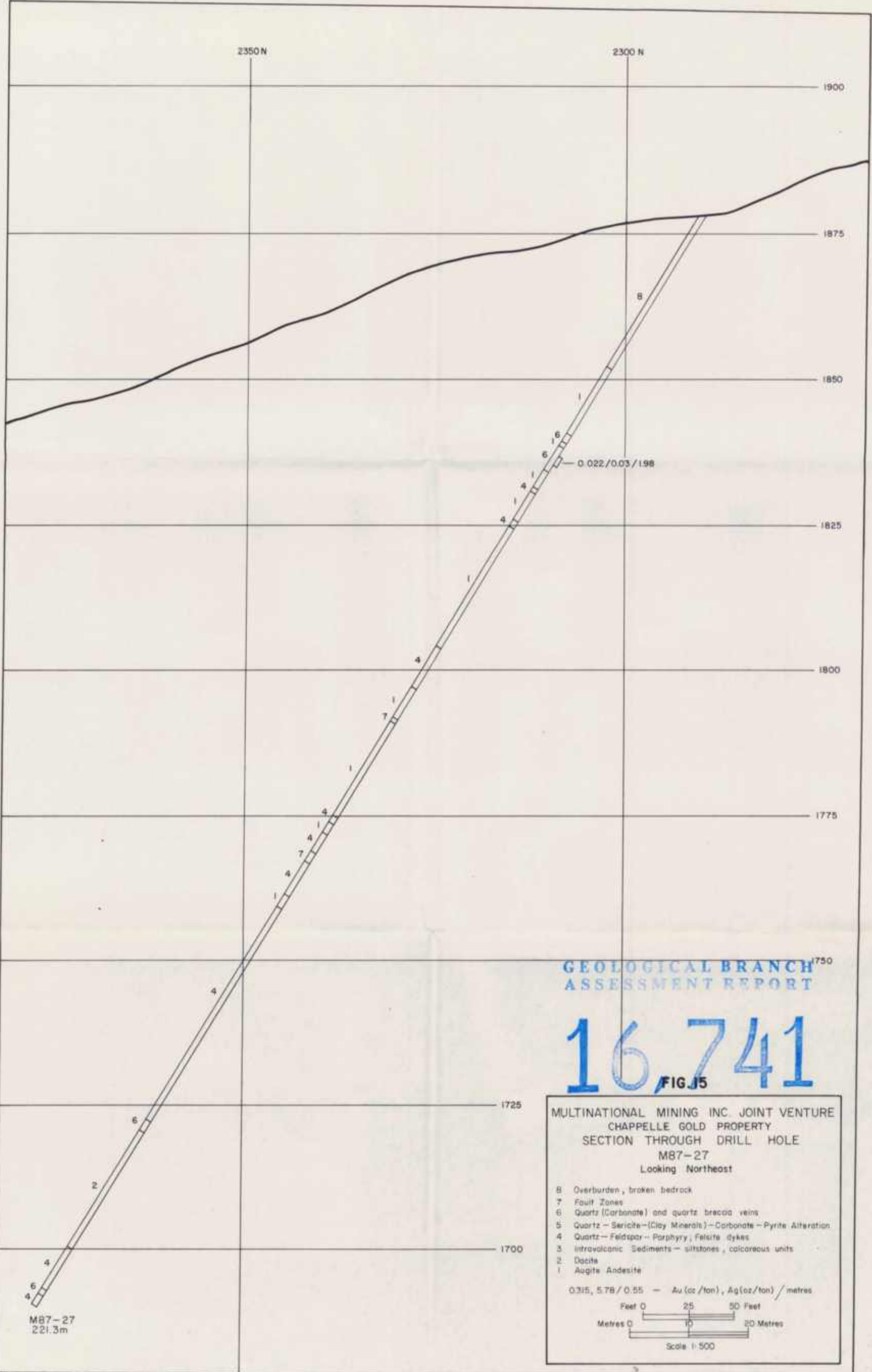
0.315, 5.78 / 0.55 - Au (oz/ton), Ag (oz/ton) / metres

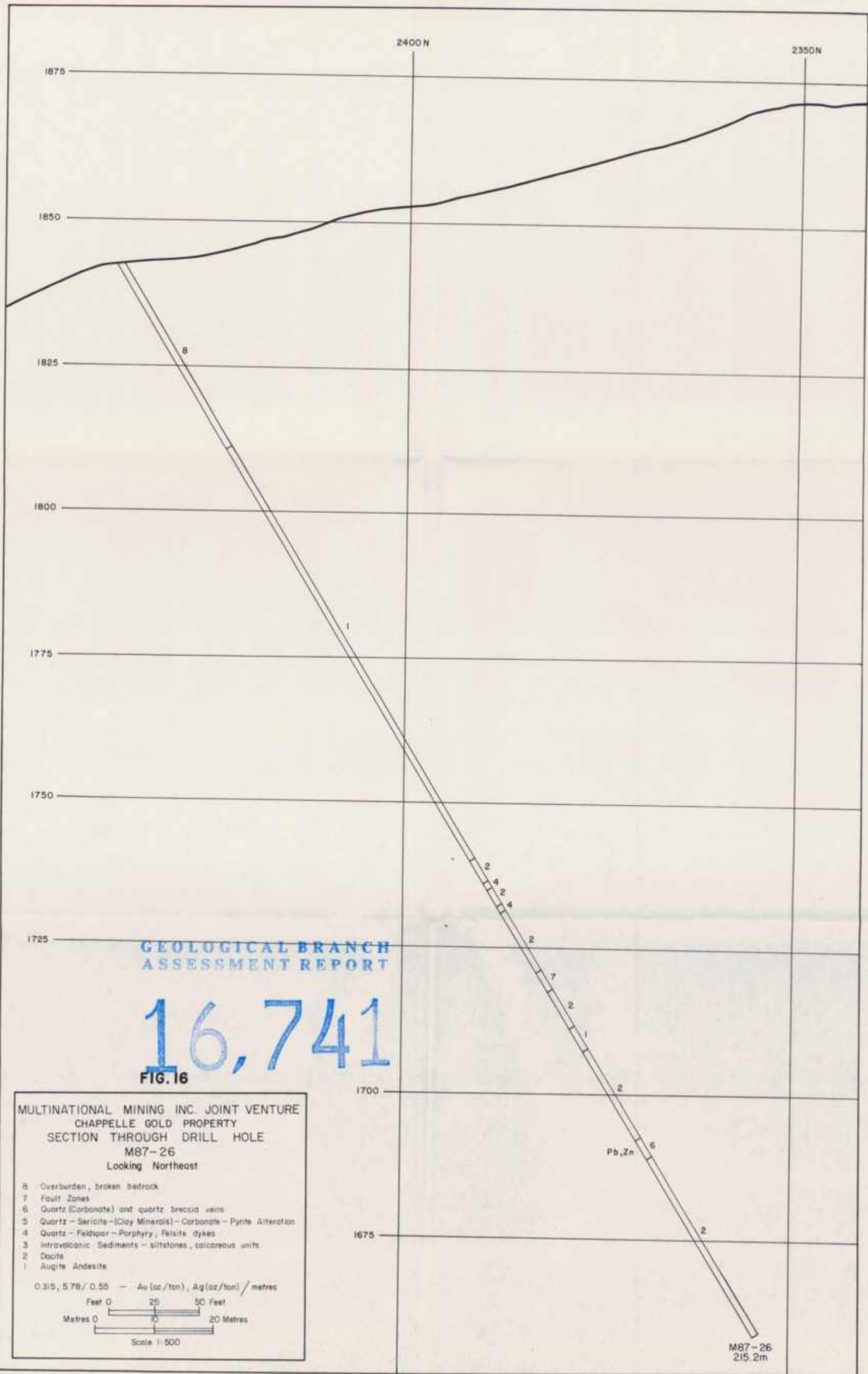
Feet 0 25 50 Feet

Metres 0 10 20 Metres

Scale 1:500

M87-27
221.3m





GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,741
FIG. 16

MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLE
M87-26
Looking Northeast

8 Overburden, broken bedrock
7 Fault Zones
6 Quartz (Carbonate) and quartz breccia veins
5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
4 Quartz - Feldspar - Porphyry; felsite dykes
3 intravolcanic Sediments - siltstones, calcareous units
2 Dacite
1 Augite Andesite

0.315, 5.78 / 0.55 - Au (oz/ton), Ag (oz/ton) / metres

Feet 0 25 50 Feet
Metres 0 10 20 Metres
Scale 1:500

M87-26
215.2m

GEOLOGICAL BRANCH
ASSESSMENT REPORT

2500N

16,741

1800

1775

1750

FIG. 17

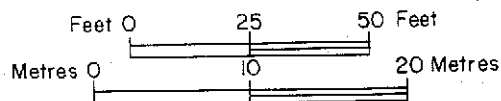
M87-20
123.7 m

1725

MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLE
M87-20 (North Quartz Zone)
Looking Northeast

- 8 Overburden, broken bedrock
- 7 Fault Zones
- 6 Quartz (Carbonate) and quartz breccia veins
- 5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
- 4 Quartz - Feldspar - Porphyry; Felsite dykes
- 3 Intravolcanic Sediments - siltstones, calcareous units
- 2 Dacite
- 1 Augite Andesite

0.315, 5.78 / 0.55 — Au (oz/ton), Ag (oz/ton) / metres



Scale 1:500

2550 N

2500 N

1800

GEOLOGICAL BRANCH
ASSIGNMENT REPORT

16,741

1775

1750

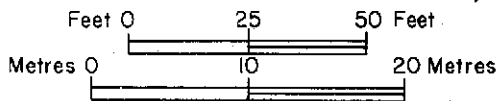
1725

FIG. 18

MULTINATIONAL MINING INC. JOINT VENTURE
 CHAPPELLE GOLD PROPERTY
 SECTION THROUGH DRILL HOLE
 M87-21 (North Quartz Zone)
 Looking Northeast

- 8 Overburden, broken bedrock
- 7 Fault Zones
- 6 Quartz (Carbonate) and quartz breccia veins
- 5 Quartz - Sericite - (Clay Minerals) - Carbonate - Pyrite Alteration
- 4 Quartz - Feldspar - Porphyry; Felsite dykes
- 3 Intravolcanic Sediments - siltstones, calcareous units
- 2 Dacite
- 1 Augite Andesite

0.315, 5.78 / 0.55 — Au (oz/ton), Ag (oz/ton) / metres



Scale 1:500

M 87-21
 93.3m
 0.008, 1.58, 1.9% Pb, 2.5% Zn / 1.58



GEOLOGICAL BRANCH
ASSESSMENT REPORT

16,741

FIGURE 19

MULTINATIONAL MINING INC. JOINT VENTURE
CHAPPELLE GOLD PROPERTY
B ZONE - LONGITUDINAL SECTION

0.306, 0.76 2.62 — Au (oz/ton), Ag (oz/ton) /metres
N.S.V. - No Significant Values

