REPORT ON

1986 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 RESOURCES INC.

BY

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

November 24, 1986

PART 1 OF 2

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

SMITHERS

FAME REPORT (M3)

15701

Province of British Columbia

Ministry of Energy Mines and Petroleum Resources

TYPE OF REPORT/SURVEY(S): DRILLING; GEOCHEMICAL

TOTAL COST: 283,683.76

AUTHOR(S): N.C. Carter

SIGNATURE(S):

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED: Nov. 28/86

YEAR OF WORK: 1986

PROPERTY NAME(S): Chappelle

COMMODITIES PRESENT: Au, Ag, Cu

B.C. MINERAL INVENTORY NUMBER(S) IF KNOWN: 94E-26

MINING DIVISION: Omineca

NTS: 94E/6E

LATITUDE: 57°17'14"

LONGITUDE: 127°6'13"

NAME(S) and NUMBER(S) of all mineral tenures in good standing (when work was done) that form the property: (Examples: Tim 1, Tim 2, Tim 3, PHOENIX Lot 1706, Mineral Lease M 123, Mining or Certified Mining Lease ML 12 (Lot 1040))

ML 13 (Lot 1040)

OWNER(S):

(1) Multinational Resources Inc. (2)

MAILING ADDRESS

OPERATOR(S) (that is, Company paying for the work):

(1) as above (2)

MAILING ADDRESS

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude):

Precious metal mineralization is principally hosted by Upper Triassic Takla Group volcanic rocks immediately north of their contact with granitic rocks of the Black Lake stock. Seven known quartz vein systems occur.

REFERENCES TO PREVIOUS WORK: A.R. 15321, 11598, 11516, 10662, 9889, 7533, 6096, 5667, 5268, 4066, 3419, 3418, 3367, 3343, 3314, 3362, 3198, 3171, 2819, 2582, 1959, 16499, 3366, 3417, 4065

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	COST APPORTIONED
GEOLOGICAL (scale, area)			
Ground			
Photo			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil	SOIL 6; Cu, Pb, Zn, Ag, Au		
Silt			
Rock	ROCK 43; Cu, Pb, Zn, Ag, Au		
Other			
DRILLING (total metres; number of holes, size)			
Core	DIAD 2032.7 m; 23 holes; NQ	ML 13 (Lot 1040)	
Non-core			
RELATED TECHNICAL			
Sampling/assaying	SAMP 422; Au, Ag		
Petrographic			
Mineralogic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY/PHYSICAL			
Legal surveys (scale, area)			
Topographic (scale, area)			
Photogrammetric (scale, area)			
Line/grid (kilometres)			
Road, local access (kilometres)			
Trench (metres)			
Underground (metres)			
		TOTAL COST	283,683.76

FOR MINISTRY USE ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value work done (from report) 283,683.76				
Value of work approved				
Value claimed (from statement)				
Value credited to PAC account				
Value debited to PAC account				
Accepted Date March 2/88	Rept. No. 15701			Information Class (2)

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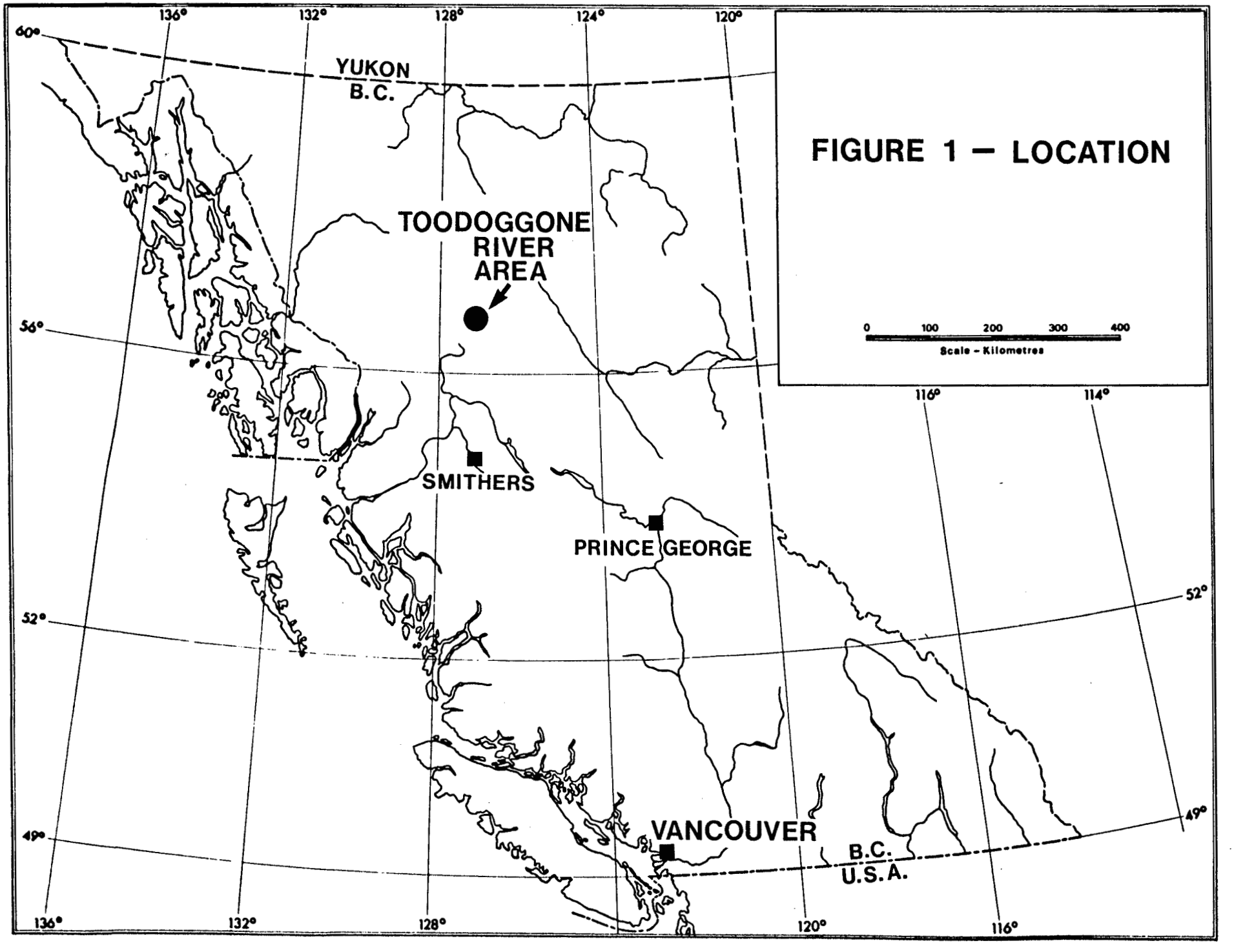


FIGURE 1 — LOCATION
0 100 200 300 400
Scale – Kilometres
YUKON
B.C.
TOODOGGONE
RIVER
AREA
SMITHERS
PRINCE GEORGE
VANCOUVER
B.C.
U.S.A.
60°
56°
52°
49°
136°
132°
128°
124°
120°
116°
114°

INTRODUCTION

This report deals with the 1986 exploration program undertaken by Multinational Resources Inc. on its Chappelle gold property in the Toodoggone River area of north-central British Columbia.

A three-phase diamond drilling program was carried out on the B Zone and some prospecting and sampling was done on several other zones on the Chappelle property and the company's Peregrine-Falcon A property to the north.

LOCATION AND ACCESS

The Chappelle property includes a 35 km^2 area south of the 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.

Current access to the property is by air from Smithers to the Sturdee River Valley airstrip, a distance of 270 km. A 15 km all-weather road links the property with the airstrip (Figure 2).

The terminus of the Omineca Resource Road is 60 km southeast of the property.

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

PHYSICAL SETTING

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

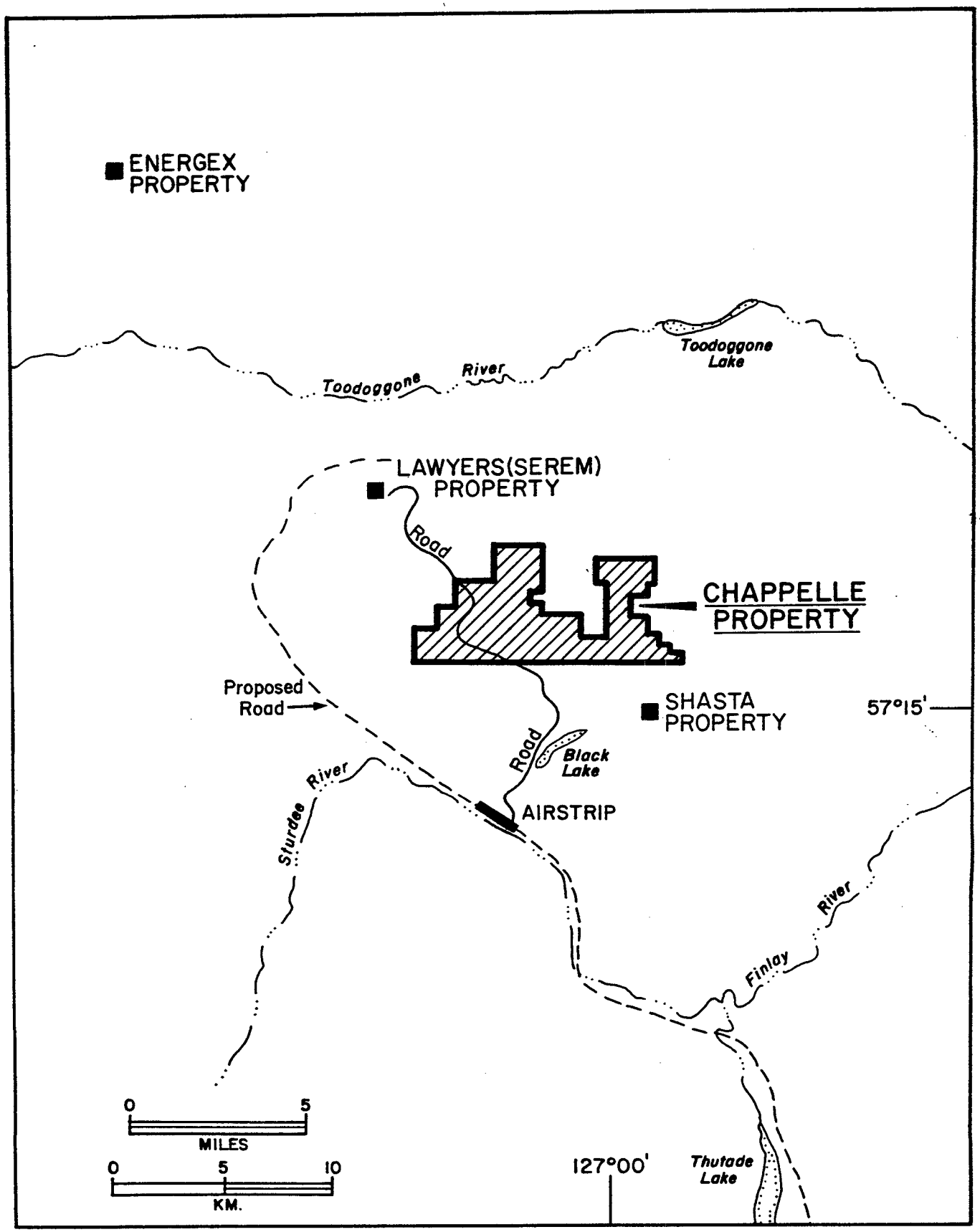


FIGURE 2 — LOCATION — CHAPPELLE PROPERTY

features alpine grasses and felsenmeer.

Elevations range from 1540 metres to more than 2000 metres above sea level.

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 1,169,658 grams gold (37,606 ounces) and 23,079,838 grams 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 vicinity of the former mine. This $107,000 program included two drill holes on the B Zone, one of which intersected significant gold and silver values.

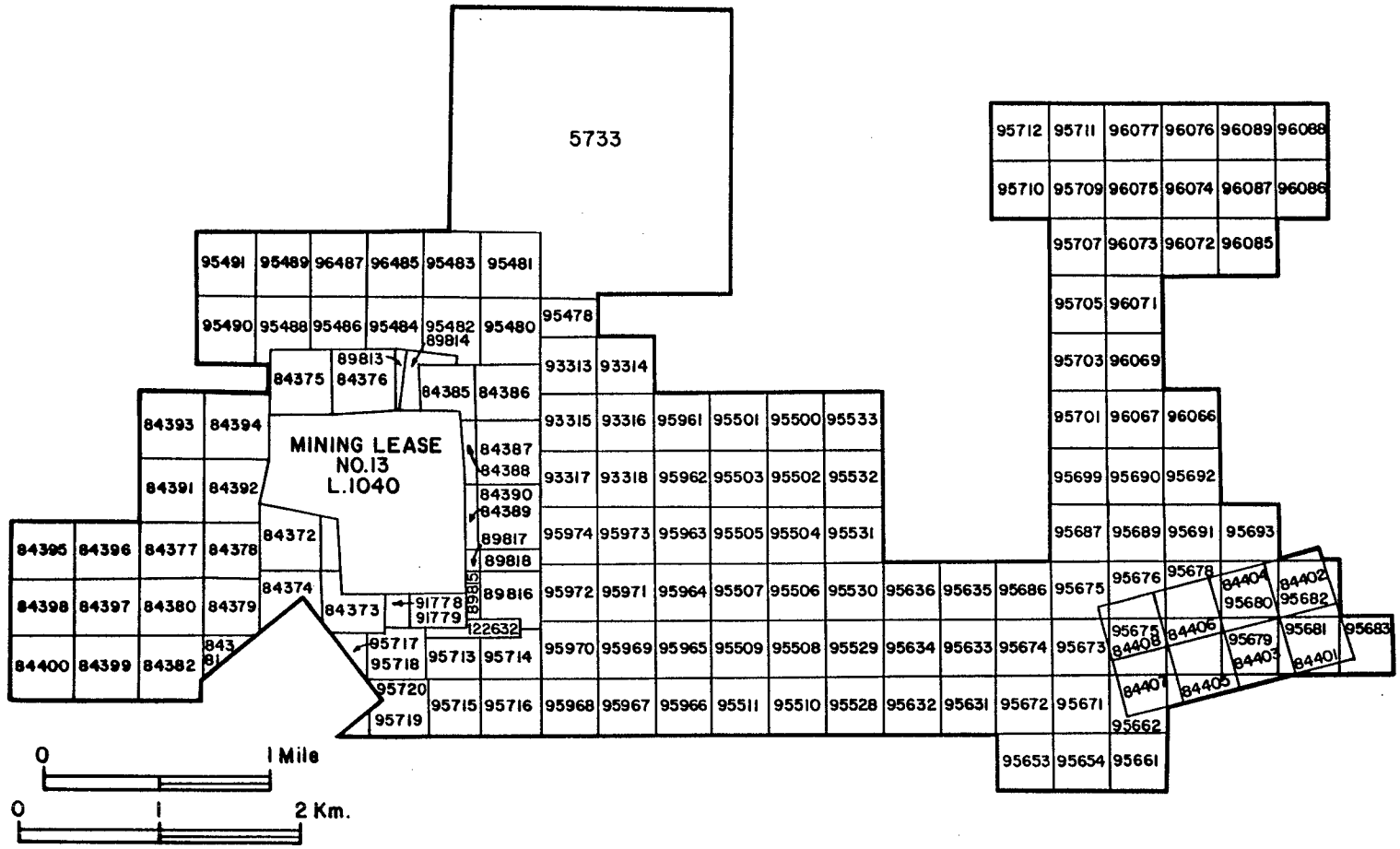
MINERAL PROPERTY

The Chappelle property includes one Mining Lease (10 units), 158 2-post mineral claims and fractions and one Modified Grid claim of 16 units located in the Omineca Mining Division. The claims are shown on Figure 3 and a complete listing of claims is contained in Appendix I.

Multinational's agreement with DuPont Canada Inc. includes all claims with the exception of 10 full and fractional 2-post claims on which the camp, mill and tailing pond are situated.

1986 EXPLORATION PROGRAM

The 1986 exploration program undertaken on the Chappelle property was centred around 2032.7 metres of NQ diamond drilling which was carried out in three phases. Work periods were July 12-26, August 11-31 and September 14-24.



MULTINATIONAL RESOURCES INC.

CHAPPELLE GOLD PROPERTY
MINERAL CLAIMS

57°15'

127°05'

FIGURE : 3

The B Zone, 365 metres northeast of the A vein previously mined by DuPont, was tested by 1802.3 metres of diamond drilling in 22 inclined holes drilled from 15 sites. One 230.4 metre hole was drilled in an unsuccessful attempt to further define precious metals values previously indicated at depth below the A vein structure.

Drill hole locations are shown on Figures 4 and 5 and complete drill logs are included as Appendix II. Drill core is stored in a core shack near the existing mill facility.

All but two of the drill site locations were surveyed in September.

Prospecting and sampling of several other known mineralized zones on the Chappelle property was also carried out. Further investigation of the company's Peregrine and Falcon A claims was also undertaken.

An independent evaluation of the milling facility on the property was undertaken in July.

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, vein 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 quartz vein systems occur in Takla Group augite andesites in the western part of the property. These strike northeasterly to east-southeast and are steeply dipping. Wallrocks are variably silicified and altered to sericite, clay minerals and carbonate with intensity increasing in proximity to vein structures. Pyrite in country rocks is ubiquitous, generally in the 3-5% by volume 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 volcanic rocks of the Toodoggone sequence near the north and west property boundaries. They also underlie much of the eastern claims area. Quartz-feldspar porphyry dykes, spatially related to several of the quartz veins, are believed to represent feeders for some of the Toodoggone volcanic rocks.

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 in excess 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 A vein are contained principally in electrum and argentite. Base metals minerals, including 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 hangingwall, are badly broken. This was the cause of up to 65% dilution during mining.

RESULTS OF PROSPECTING

Limited prospecting and sampling was carried out in the central and western areas of the Chappelle property.

This work included follow-up of a 13700 ppb gold value obtained from a heavy sediment sample collected in 1985 from a drainage 800 metres northwest of A vein. Rock samples collected from a broad silicified and pyritized area in Takla volcanics adjacent to the drainage yielded geochemical values ranging from 1-12 ppb gold and 0.4 - 1.4 ppm silver. Assay values were also low, in the 0.01 gram gold and 0.2 - 1.0 gram silver per tonne range. Six soil samples from the same general area returned values of 5 to 50 ppb gold and 1.1 to 2 ppm silver.

A few samples collected from near the west property boundary yielded low geochemical values for gold and silver. The North Black gossan, in the central claims area was briefly investigated. Anomalous lead values,

found by Kennco Explorations work in this area in the 1970's, were followed up and several samples collected had values of between 1 and 40 ppb gold and 0.6 ppm silver.

Best values obtained were from a sample collected from a narrow quartz vein exposed in a drainage 400 metres south of the B zone. These included 358 ppb gold and 4.1 ppm silver.

Several days were spent prospecting and sampling on the company's Peregrine and Falcon A mineral claims 18 km north of the Chappelle property. These two Modified Grid claims, located east of McClair Creek and south of Mt. Gordonia, are underlain by Toodoggone volcanic rocks immediately north of an Omineca granitic intrusion.

Nine rock samples, collected from a gossanous area on the north end of a spur ridge near the eastern boundary of the Falcon A claim yielded some interesting base metals values including up to 8400 ppm copper, 305 ppm lead and 940 ppm zinc. Gold values were generally low, less than 16 ppb except for one sample which yielded 305 ppb gold and 3.2 ppm silver.

The most interesting area found during 1986 work is north of a tarn lake in the central part of the Falcon A claim at 1670 metres elevation. Vuggy white quartz in subcrop and talus, over a distance of 200 metres, contains disseminated galena and sphalerite. Results of from grab samples are as follows:

Sample No.	Copper (ppm)	Lead (ppm)	Zinc (ppm)	Silver (ppm)	Gold (ppm)
30228	710	22000	9700	6.2	14
30229	1360	17800	4800	7.0	7
30230	1120	25800	5800	7.3	27
30233	700	39000	162000	12.0	70

DIAMOND DRILLING RESULTS

As previously noted, 2032.7 metres of diamond drilling was completed on the property during 1986. Drill hole locations are shown on Firgures 4 and 5 and sections through most holes drilled are depicted on Figures 6 - 15. The sections show assay values above 0.010 oz/ton gold and it should be noted that assays are reported in Imperial Units on both the sections and drill logs in Appendix II.

One 230.4 metre hole (M86-11) was drilled below the northeast end of the A Vein (Figure 4) to further investigate the possibility of a precious shoot apexing 60 metres below the base of the main A vein or shoot. While several previous holes drilled by DuPont had indicated interesting gold-silver values in this area, the 1986 drill hole intersected only low values.

B Zone, 365 metres northeast of A vein (Figures 4 and 5), was tested by 1802.3 metres of drilling in 22 inclined holes. Road cuts and old trenches expose several 0.3 to 0.6 metre wide white quartz veins which strike east-southeast and dip at moderate angles to the north. These are hosted by Takla augite andesites which exhibit varying intensity of alteration to a mixture of quartz-sericite-clay minerals-carbonate and pyrite (QSP alteration as noted in drill logs). Altered rocks feature numerous, closely spaced 0.5 to 1 cm wide parallel quartz veinlets of similar trend to the larger quartz veins. 1985 surface sampling of quartz veins and altered wallrocks yielded values ranging from 35 - 145 ppb gold and 0.2 - 1.5 ppm silver.

B Zone was tested by one hole drilled by DuPont in 1981 and two holes drilled by Multinational in 1985. One of the latter holes, 85-1 (Figure 5), intersected 4.27 metres grading 0.327 oz. gold and 5.16 oz. silver per ton. The first two holes of the 1986 program were drilled at steeper angles from the 85-1 drill set-up (Figure 11). M86-1 intersected 5.3 metres of quartz-carbonate vein which contained some gold values (0.089 over 0.73 metre and 0.051 over 1.52 metres). When compared with the 85-1 intersection, this vein appeared to have the same moderate north dip as veins exposed on surface. A second vein was intersected at the end of the hole which was terminated prematurely due to a burned bit. The last 0.6 metre of this hole assayed 0.309 oz. gold and 27.56 oz. silver per ton.

The remaining Phase I holes were drilled on a southeasterly azimuth on the assumption that potential mineralized structures dipped moderately north. While a number of 1 to 5 metre lengths of quartz-carbonate vein were intersected in many of these holes, best grades were 0.015 oz. gold and 1.20 oz. silver per ton over 1.83 metres in hole M86-6 (Figure 14).

The good result at the end of hole M86-1, when compared with values obtained in hole 85-1, suggested the presence of a steeply dipping or vertical quartz vein structure. Phase II drilling, including holes M86-10 and 12-19, was designed to test this possibility and deeper holes were drilled on a northwest azimuth (Figure 5). The first hole, M86-10, intersected two well mineralized sections of quartz vein which assayed 0.306 oz. gold, 0.76 oz. silver per ton over 2.62 metres and 0.289 oz. gold and 0.17 oz. silver per ton over 4.1 metres (Figure 11). Other Phase II holes, drilled at 25 to 30 metre intervals (Figure 5), were successful in extending the zone along strike and to depth. A northwest-striking quartz-feldspar porphyry dyke was intersected in three of the westernmost holes drilled.

Phase III drilling (holes M86-20-23, Figure 5) explored the strike extension of the zone to the northeast (Figures 14 and 15) and to depth below hole M86-19 (Figure 10). The last hole drilled, M86-23 (Figure 9), intersected a 5.12 metre core length assaying 1.702 oz./ton gold and 21.26 oz./ton silver. This section included 3 metres grading 2.749 oz./ton gold and 32.46 oz./ton silver.

CONCLUSIONS

On the basis of drilling results to date, it is apparent that Phase I tested what is interpreted to be the hangingwall alteration zone of the main structure. While this zone includes a number of quartz veins and narrow quartz veinlets, values encountered were low.

The principal gold-silver-bearing quartz vein, which apparently terminates 20 to 30 metres below surface, has been traced over a northeast strike length of 150 metres and to a depth 130 metres below surface. The true width of the structure, which is vertical to steeply northwest dipping, ranges from 2.4 to 7.6 metres.

At least three generations of quartz veining are apparent, including white quartz with minor carbonate and drusy cavities and grey quartz with abundant sulfides. Both are cut by late stage quartz-carbonate stringers with little or no sulfides. Better gold-silver grades are generally associated with higher concentrations of base metal sulfides, principally chalcophyrite and sphalerite.

Sheared wallrock inclusions have been noted in some of the quartz vein intercepts and wallrocks adjacent to the vein structure are commonly

sheared and broken to some degree. Based on present information, the structure does not appear to be as structurally complex as A vein, although repetition of the structure by faulting has been encountered in drill holes M86-10 and 19 (Figures 10 and 11).

Better gold and silver grades apparently occupy a gently northeast raking shoot over a 60 metre vertical interval within the plane of the vein. A potential 50,000 tons of good grade gold-silver mineralization is indicated by drilling to date on the B Zone. The zone is open to depth and along strike, particularly to the northeast.

RECOMMENDATIONS FOR FURTHER WORK

Additional diamond drilling is necessary to confirm results to date and to extend the B Zone along strike and to depth.

Assuming that drilling continues to yield encouraging results, an underground exploratory program would be in order.

In view of results obtained from B Zone during the 1986 program, other known zones on the property should be re-evaluated.

COST STATEMENT

Note: Work periods on the Chappelle property in 1986 were:

July 12 - 26
August 11 - 31
September 14 - 24

Diamond Drilling -	$228,079.80
2032.7 metres @ $112.20/metre	
(Note: All-inclusive price as quoted by J.T. Thomas Diamond Drilling Ltd. - includes camp operation and all incidentals related to drilling)	
Analytical Costs	
Assaying - 422 samples @ $16.50	$ 6,963.00
(includes 27 samples rush @ $33.00/sample)	
Geochemical Analyses	
6 soils @ $10.05 = $ 60.30	
43 rocks @ $13.72 = $590.00	650.30
	$ 7,613.30
Transportation	
Fixed Wing - Smithers - Sturdee Strip	$ 1,695.10
Helicopter (prospecting) 4.3 hrs. @ $486.23/hr.	2,909.75
	$ 3,785.85
Supplies	
Sample bags, tags	$ 123.00
Film & developing	33.18
Duplicating	5.39
Maps	28.41
Courier	10.95
	$ 207.33

General Travel	
Scheduled Airline:	
Victoria - Smithers (return)	$ 360.80
Kamloops - Smithers	251.90
Smithers - Kamloops	255.20
Bus: Kamloops - Smithers	65.00
	$ 867.90
Motel, meals, telephone (Smithers)	$ 494.75
Vehicle Transportation - Smithers - Victoria	$ 234.10
- Smithers - Kamloops	250.00
	$ 484.10
	$ 1,846.75
Mill Examination and Evaluation	$ 3,155.73
Surveying Drill Holes	$ 750.00
Geological Assistance, Prospecting	
G. Auger - 42 days	$ 8,600.00
Consulting Fees	
Project planning, supervision	
N.C. Carter	$ 19,500.00
Assessment Work Filing Fees	$ 5,120.00
Report Preparation	
Drafting	$ 650.00
Duplicating	75.00
Secretarial services	300.00
Compilation, report writing	4,000.00
	$ 5,025.00
Total Program Costs	$283,683.76

REFERENCES

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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, Victora, 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 am a registered Professional Engineer in the Association Professional Engineers of British Columbia.

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 results of the 1986 exploration program on the Chappelle gold property which was carried out under my supervision.

Dated at Vancouver, British Columbia, this 24th day of November, 1986

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
N. C. CARTER

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

APPENDIX II

DIAMOND DRILL HOLE LOGS

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

APPENDIX I

CHAPPELLE PROPERTY MINERAL CLAIMS

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

CHAPPELLE PROPERTY - MINERAL CLAIMS

CLAIM NO.	RECORD NO.	MONTH OF RECORD	
Mining Lease No. 13 (10 Units)		September	*
Chappelle # 11	84371	February	
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	

CLAIM NO.	RECORD NO.	MONTH OF RECORD	
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	*

CLAIM NO.	RECORD NO.	MONTH OF RECORD	
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	

CLAIM NO.	RECORD NO.	MONTH OF RECORD	
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	

* Mineral Claims Grouped - September, 1986.

** Claims currently held by Du Pont Canada Inc.

APPENDIX II

DIAMOND DRILL HOLE LOGS

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

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-1

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 1
Section _____
Date Begun July 14,1986
Date Finished July 15,1986
Date Logged _____

Lat. 2282.05
Dep. 12305.22
Bearing 150° (-60°)
Elev. Collar 1772.24 m

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

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
0	3.0		CASING								
3.0	7.6	75	ANDESITE - Quartz-Sericite(Carbonate)-	30051	3.0	4.6	1.52		0.001	0.01	
			Pyrite Alteration - lt brown to buff-	30052	4.6	6.1	1.52		0.001	0.01	
			extremely silicified - ghost phenos of	30053	6.1	7.6	1.52		0.001	0.01	
			augite remaining= 2-5% pyrite throughout.								
			0.5-1 cm qtz veinlets at gentle angles								
			to core plus numerous fractures @ 20-40°								
			to core. Pyrite on fractures and in qtz								
			veinlets. Badly broken								
7.6	13.7	75	ANDESITE - chlorite-carbonate alteration								
			Augite phenos chloritised and replaced								
			with pyrite - some indication of pyroclastic								
			texture with 1 cm chlor. fragments.								
			2-10% pyrite plus numerous qtz-carb								
			stringers @ 30° to core surface.								
13.7	15.4	80	ANDESITE - fine grained-medium green.								
			Few fractures - chloritic. Pyrite on								
			hairline fractures. Gouge at end of section								
15.4	18.6	80	AUGITE ANDESITE - light green- Px phenos								
			alt'd to hornblende. Numerous grey	30054	16.6	18.6	1.98		0.001	0.04	
			banded qtz veins - 1/2 cm- with pyrite								
18.6	21.5	90	ANDESITE - Qtz-Sericite-Pyrite Altn.								
			Occasional 0.5-1 cm grey qtz stringers								
			2-3% dissem. pyrite								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-1

DIP TEST		
	Angle	
Footage	Reading	Corrected

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

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
21.5	24.8	90	ANDESITE- Qtz-Ser-Py (QSP) Alt'n.								
			Num. brecciated grey banded Qv and 5%	30055	21.5	23.0	1.5		0.001	0.01	
			dissem. pyrite on fractures and vein	30056	23.0	24.8	1.8		0.001	0.01	
			selvages								
24.8	27.6	70	ANDESITE - QSP Alt'n - Carbonate altn-								
			Gouge zone								
27.6	31.7	90	ANDESITE - QSP Alt'n - 1 cm banded grey	30057	27.6	29.6	2.0		0.001	0.01	
			Qv with abundant coarse py to 10%	30058	29.6	31.7	2.1		0.001	0.01	
			throughout section. Silicification								
			increases to end of section								
31.7	35.8	90	ANDESITE - QSP Alt'n. - scattered 0.5-1 cm								
			Qv @ 40° to core cut by o.5 cm white								
			carb vlts. 2-5% dissem. py								
35.8	37.8	90	ANDESITE - QSP Alt'n - silicified with								
			qtz vlts @ 30° to core. Up to 10% py	30059	35.8	37.8	2.0		0.001	0.06	
37.8	41.5	90	ANDESITE - carbonate alt'n - lt brown								
			Num white carb strs								
41.5	43.8	90	As Previous but mainly gouge - carbonate	30060	41.8	43.8	2.0		0.015	0.07	
43.8	49.1	90	Qtz-Carbonate vein-white,vuggy. Dissem.	30061	43.8	44.53	0.73		0.089	0.13	
			py to 10-15%-locally brecciated. Py	30062	44.53	45.11	0.61		0.003	0.02	
			content decreases down section - last	30063	45.11	45.72	0.61		0.002	0.01	
			1.5 metres gouge and brecciated	30064	45.72	46.33	0.61		0.006	0.01	
				30065	46.33	46.79	0.46		0.007	0.04	
				30066	46.79	47.55	0.76		0.001	0.01	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-1

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 3

Section _____

Date Begun _____

Date Finished _____

Date Logged _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
49.1	54.3	90	ANDESITE - grey, fine grained, finely	30067	47.5	49.1	1.52		0.051	0.01
			dissem py. 0.5-1 cm qtz strs @ 40° to core	30068	49.1	50.62	1.52		0.001	0.01
			Gouge zone with qtz-carb @ 52.2-53.5-	30069	50.62	52.14	1.52		0.003	0.01
			0.3 m qtz-carb vein in section with 5%	30070	52.14	53.66	1.52		0.001	0.01
			dissem py	30071	53.66	55.18	1.52		0.001	0.01
54.3	62.2	90	Qtz-carb alt'n zone as previous - no							
			obvious contacts-schistose in part-							
			notable absence of qtz veining							
62.2	64.0	90	Schistose siliceous carb alt'd zone-							
			schistosity parallel to core- finely							
			dissem py 5-10%							
64.0	67.1	90	Carb-siliceous zone as previous- Occ							
			Qv @ 40° to core.	30072	64.0	65.52	1.52		0.009	0.05
67.1	68.0	90	Carb-siliceous zone - 5% pyrite	3 30073	67.1	68.0	0.90		0.039	0.77
68.0	68.6	90	Qtz Vein - 15-20% sulfides locally -							
			brecciated- last 0.4 m with dark grey							
			mineral and possible cp in heavy sulfide	30074	68.0	68.61	0.61		0.309	27.56
			Hole stopped - burned bit.							
			END OF HOLE							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-2

DIP TEST		
	Angle	
Footage	Reading	Corrected
69.2	75°	68°

Hole No. _____ Sheet No. 1
Section _____
Date Begun July 15,1986
Date Finished July 16,1986
Date Logged _____

Lat. 2282.05
Dep. 12305.22
Bearing 150° (-70°)
Elev. Collar _____

Total Depth 69.2 m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
0	4.6		CASING							
4.6	8.3	75	ANDESITE - Qtz-Sericite(Carbonate)-Pyrite Alt'n (QSP)- cream to buff colour 0.25-1 cm grey banded qtz strs- at least 2 generations of Qv- finely dissem py to 3% Badly broken - 0.4 m sand @ 7 m							
8.3	12.6	75	ANDESITE - chlor-carb alt'n. Dissem and anf fr filling py to 3% - Num carb strs and chlor frs @ 45° to core							
12.6	14.3	80	ANDESITE - Num qtz strs @ 20-4-° to core banded, grey-cut and offset by 1mm carb frs. 13-14.3 m - 1 Qv/2 cm with abundant pyrite both in veins and dissem. up to 10% Brown carb alt'n in matrix at end of section	30075	12.93	14.3	1.37		0.001	0.01
14.3	17.9	85	ANDESITE- QSP Alt'n- silicified- num strs and vlts of finely colloform banded grey qtz @ 20-4-° to core 0.5-1 cm wide- offset by white qtz-carb vlts. Py content mainly in matrix up to 10%. No distinct contacts with previous	30076	14.30	16.07	1.77		0.001	0.01
				30077	16.07	17.87	1.80		0.001	0.01
17.9	21.8	90	ANDESITE - buff to green-carb alt'n- fewer Qv than previous - 1mm px phenos in fg buff matrix-indistinct contacts with previous							
21.8	24.5	90	ANDESITE as previous Qtz strs @ 40°	30078	21.80	23.08	1.28		0.001	0.01

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-2

DIP TEST		
	Angle	
Footage	Reading	Corrected

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

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
			From previous-5% dissem py in matrix	30079	23.10	-24.53	1.43		0.001	0.01	
24.5	26.5	90	ANDESITE - buff-alt'd-0.5 cm px phenos- replaced by py- Occ 0.5 cm qtz strs @ 40°								
26.5	28.5	90	ANDESITE - QSP Alt'n - indistinct contacts silicified-0.5 cm grey banded qtz strs - 1/2 cm- @ 45° to core	30080	26.52	-27.68	1.16		0.001	0.01	
28.5	35.5	90	ANDESITE - buff, alt'd-finely dissem py throughout. Qtz strs as previous. Bx zone @ 34.1								
35.5	37.0	90	ANDESITE - QSP Alt'n-0.5 cm qtz strs 1/1 cm @ 40-50° to core	30081	35.48	-36;97	1.49		0.001	0.01	
37.0	41.0	90	ANDESITE - lt green- hairline to 0.5 cm carb strs. Brown chert with abundant py 39.1-39.4m	30082	39.08	-40.79	1.71		0.001	0.01	
41.0	50.1	90	ANDESITE - dark green- aphanitic- carb strs and locally abundant dissem py to 5% Occ Qv with brown cherty alt'n	30083	49.07	-50.07	1.0[illegible]		0.001	0.01	
50.1	51.6	75	Fault Breccia - carb alt'n with 2 cm qtz pebbles-upper contact @ 10° to core	30084	50.07	-51.60	1.53		0.001	0.01	
51.6	55.2	90	ANDESITE - QSP Alt'n-white-abundant diss. py and 1cm colloform banded grey QV	30085	51.60	-53.15	1.55		0.001	0.01	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-2

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	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
55.2	62.5	90	ANDESITE - QSP Alt'n-num 0.5 cm qtz strs								
			of variable orientation-grey-cut by								
			white qtz-carb-py veins @ 40°- at least	30086	57.61	58.83	1.22		0.010	0.01	
			3 generations of veining noted.								
62.5	63.6	90	ANDESITE - QSP Alt'n 0.5 cm qtz vlts	30087	62.48	63.61	1.13		0.004	0.01	
63.6	68.1	90	ANDESITE - QSP Alt'n-silicified-qtz-carb	30088	63.61	64.25	0.64		0.010	0.02	
			veins 63.6-64.3 and 64.9-65.6. Bx and	30089	64.25	64.89	0.64		0.006	0.01	
			dissem py to 5%. Area between veins is	30090	64.89	65.62	0.73		0.002	0.01	
			bx with up to 10% py. Similar bx zone	30091	65.62	66.84	1.22		0.004	0.01	
			from 65.6 with broken grey banded Qv	30092	66.84	67.88	1.04		0.001	0.01	
68.1	69.2	90	ANDESITE - QSP Alt'n-white to buff-								
			occ banded Qv								
			END OF HOLE								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-3

DIP TEST		
	Angle	
Footage	Reading	Corrected
56.4	53°	46°

Hole No. _____ Sheet No. 1
Section _____
Date Begun July 16,1986
Date Finished July 16,1986
Date Logged _____

Lat. 2271.62
Dep. 12269.50
Bearing 155° (-47°)
Elev. Collar 1757.32m

Total Depth 56.4 m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
0	7.6		CASING								
7.6	8.5	80	ANDESITE - Quartz-Sericite(Carbonate)-								
			Pyrite Alt'n (QSP)-oxidized,badly broken								
			0.5 cm qtz strs								
8.5	12.8	80	As Previous- 0.25-0.5 cm qtz strs of								
			random orientation								
12.8	18.1	75	ANDESITE - bleached, indistinct contacts	30093	12.8	0-14	.32	1.52	0.004	0.02	
			1 cm Qv-grey, colloform banding, py to	30094	14.3	2-15	.51	1.19	0.002	0.03	
			~~15% - some sections brown chert-badly~~	~~30095~~	~~15.5~~	~~1-16~~	~~.76~~	~~1.25~~	~~0.002~~	~~0.01~~	
			broken - frs and Qv @ 30° to core	30096	16.7	6-18	.13	1.37	0.006	0.02	
~~18.1~~	~~19.7~~	~~60~~	~~As previous but badly broken - 0.6 m~~								
			mud and silt @ 19.2								
~~19.7~~	~~20.6~~	~~80~~	~~ANDESITE - silicified with qtz vlts~~	~~30097~~	~~19.6~~	~~6-20~~	~~.60~~	~~0.94~~	~~0.003~~	~~0.01~~	
20.6	22.4	80	ANDESITE - fg green- carb strs								
22.4	25.0	80	ANDESITE - QSP Alt'n, buff, 0.1 cm dk	30098	23.6	2-25	.0	1.38	0.008	0.01	
			grey qtz strs @ 45°. Gouge at end								
25.0	35.1	90	ANDESITE - Alt'd - Fe carb- brown tinge	30100	33.5	3-35	.05	1.52	0.006	0.12	
			Random 0.5-1 cm qtz vlts @ 45° to core	30101	35.0	5-35	.72	0.67	0.001	0.03	
			Badly broken-py seams cut by carb strs	30102	35.7	2-37	.06	1.34	0.001	0.01	
			cherty @ 33.5 with dissem py. 0.2 m	30103	38.7	1-39	.53	0.82	0.002	0.02	
			bx @ 32.6								
35.1	35.7	90	QTZ-CARB-PY VEIN @ 40° to core								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-3

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 2

Section _____

Date Begun _____

Date Finished _____

Date Logged _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
35.7	41.3	90	ANDESITE - Alt'd, brown tinge- carb alt'n								
			Banded grey Qv to i cm; 1/15 cm. Py dissem								
			and in frs to 5-10%								
41.3	43.6	90	ANDESITE - fg grey to green. White and								
			pink carb strs. Finely dissem py to 2%								
43.6	45.7	90	ANDESITE - brownish tinge - dacite?								
			Gouge zone 44.5-46.1. Gradational contact								
			with previous								
45.7	54.7	90	ANDESITE - as previous 1-2.5 cm banded								
			qtz veinlets with py seams @ 70° to core								
			1 cm px phenos preserved locally								
54.7	56.4	90	ANDESITE - grey-green; white and pink								
			carb strs								
			END OF HOLE								

NEVILLE CROSBY INC.
TELEPHONE USE-4343

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-4

DIP TEST		
	Angle	
Footage	Reading	Corrected
84.1	49°	42°

Hole No. _____ Sheet No. 1
Section _____
Date Begun July 16,1986
Date Finished July 17,1986
Date Logged _____

Lat. 2329.45
Dep. 12245.67
Bearing 165° (-47°)
Elev. Collar 1767.0 m

Total Depth 84.1 m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
0	3.0		CASING							
3.0	10.1	85	ANDESITE - lt green, 0.5-1 cm px phenos Oxidized and badly broken-py on hairline frs and in matrix							
10.1	10.7	85	QTZ-CARB VEIN plus alt'd andesite-gouge zone	30104	10.10	-10.71	0.61		0.008	0.06
10.7	31.3	85	ANDESITE - little sulfide-oxidized to 26.5 m Occ Qv but mainly carb seams. ~~1 cm py seams and qv 17.9-21.3 (Note-~~ only 0.15 m core for section 19.8-21.3 -mislatch) Qv @ 70°. Whole section is ~~badly broken- some brown Fe carb alt'n~~ down section	30105	17.95	-19.41	1.46		0.006	0.05
				30106	19.41	-21.33	1.92	*	0.004	0.01
~~31.3~~	~~31.6~~	~~90~~	~~BASIC DYKE - bladed feldspars to 1 cm~~ chilled contacts							
~~31.6~~	~~52.1~~	~~90~~	~~ANDESITE - as previous- 0.5-1 cm px~~ phenos, occ bleached sections, Fe carb alt'n,Pink carb frs. Occ 1 cm grey Qv ~~py increases down section 3-5%, mainly~~ in seams. Qv with py @ 42.1-43.9 and 47.2. Carb veins and strs greater than qtz altho qtz increases down section	30107	42.0	-43.16	1.16		0.003	0.01
				30108	43.16	-43.89	0.73		0.004	0.01

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-4

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 2

Section _____

Date Begun _____

Date Finished _____

Date Logged _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (Oz/t)	Ag (oz/t)	
52.1	73.5	90	ANDESITE - creamy white - QSP Alt'n								
			Occ 0.5 cm qtz strs- finely dissem py to								
			5%- edge of alt'n zone- alternates from	30109	62.4	8-63	.64	1.16	0.005	0.01	
			creamy white to buff colour- occ sil.	30110	65.8	4-67	.06	1.22	0.001	0.01	
			sections with closely spaced 1 cm grey	30111	71.3	8-72	.78	1.40	0.001	0.01	
			banded Qv 45-70° to core. Qv and py	30112	72.7	8-73	.94	1.16	0.001	0.01	
			content increasing near end of section								
73.5	84.1	90	ANDESITE - 2 cm Qv- banded. Matrix is								
			buff- becoming uniform green near end	30113	73.9	4-75	.10	1.16	0.001	0.01	
			of section. Some qtz bx in sample	30114	78.5	5-79	.80	1.25	0.001	0.01	
			interval. Qv and py strs to end of hole								
			END OF HOLE								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected
103.3	69°	65°

Hole No. _____ Sheet No. 1
Section _____
Date Begun July 17,1986
Date Finished July 18,1986
Date Logged _____

Lat. 2329.45
Dep. 12245.67
Bearing 165° (-68°)
Elev. Collar 1767.0 m

Total Depth 103.3 m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
0	3.0		CASING								
3.0	22.4	90	ANDESITE - 2-4 mm px phenos in fg green matrix. 4 mm carb frs @ 30-45° to core Gouge 10-11.2 m. 3% finely dissem py. Oxidized frs to 21 m								
22.4	23.2	90	ANDESITE - Qtz-Sericite(Carbonate)-Pyrite Alt'n (QSP) 2 mm white feldspar and qtz phenos. Dissem py .								
23.2	52.3	90	ANDESITE - moderate silicification and bleaching with up to 5% dissem py Qv 23.4-24.1, 21.9-22.1,23.1-23.3, 32.0-32.2 @ 70° to core. Sil section has 1.5 cm qtz strs. Rock is uniformly apple green with local brownish tinge- epidote alt'n prominent. Py in narrow seams @ 33.2 . Px phenos throughout section. 65% recovery 39.6-42.8 with 0.45 m mud and sand @ 42.4m. Bx andesite 43-48m with carb and some qtz fillings. Num pink carb strs throughout.	30115 30116	23.4 24.0	7-24 8-25	.08 0.61 .30 1.22		0.001 0.004	0.01 0.01	
52.3	57.6	90	ANDESITE - uniform texture-num pink carb strs - epidote alt'n. Gouge 54.9-55.5 5% dissem sulfides incl po and py								
57.6	67.7	90	ANDESITE - bleached, carb-epidote alt'n Num pink carb strs. Frag texture last 2.4 m 1.5 cm qtz strs @ 70° 62-62.8 m								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-5

DIP TEST		
	Angle	
Footage	Reading	Corrected

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

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
67.7	71.9	90	ANDESITE - weak QSP Alt'n, 0.5-1 cm							
			banded qtz-carb veins @ 30° to core.	30117	84.43	85.53	1.10		0.002	0.01
			Dissem py to 5% in vlts and matrix							
71.9	85.5	90	ANDESITE - fg, buff-epidote alt'n.							
			Original ppy texture locally preserved							
			Increasing Qv down section - carb strs							
			Qv and strs 79.9-80.5m							
85.5	92.2	90	QTZ-CARBONATE (50/50) VEIN Material	30118	85.53	86.14	0.61		0.001	0.01
			with some inclusions of white wallrock	30119	86.14	86.75	0.61		0.001	0.01
			Py in seams and as dissem locally to 10%	30120	86.75	87.36	0.61		0.001	0.01
			Some grey banding at top of section.	30121	87.36	87.97	0.61		0.002	0.01
			Green mica noted locally- also dk grey	30122	87.97	88.58	0.61		0.001	0.01
			metallic	30123	88.58	89.19	0.61		0.001	0.01
				30124	89.19	89.80	0.61		0.001	0.01
92.2	98.7	90	ANDESITE - bleached-gradational from	30125	89.80	90.41	0.61		0.001	0.01
			propylitic to phyllic alt'n. Occ	30126	90.41	91.02	0.61		0.001	0.01
			hairline qtz vlts	30127	91.02	91.63	0.61		0.001	0.01
				30128	91.63	92.24	0.61		0.001	0.01
98.7	101.4	90	ANDESITE - QSP Alt'n- num grey 0.5-1 cm	30129	92.24	92.97	0.73		0.001	0.01
			Qv @ 45° to core - py in veins and	30130	92.97	94.31	1.34		0.001	0.01
			dissem to 10%							
				30131	98.70	99.61	0.91		0.002	0.01
101.4	103.3	90	QSP Alt'n - minor Qv - increasing carb	30132	99.61	100.52	0.91		0.001	0.01
			alt'n to end of hole	30133	100.52	101.43	0.91		0.007	0.01
			END OF HOLE							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-6

DIP TEST		
	Angle	
Footage	Reading	Corrected
50.6 m	49°	42°

Hole No. _____ Sheet No. 1
Section _____
Date Begun July 18,1986
Date Finished July 19,1986
Date Logged _____

Lat. 2301.59
Dep. 12333.04
Bearing 165° (-47°)
Elev. Collar 1791.08 m

Total Depth 50.6 m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
0	3		CASING								
3	12.8	55	ANDESITE - badly broken-green 2mm px								
			phenos, oxidized frs - py , num carb strs								
			plus epidote strs - propylitic zone								
			Poor recovery								
12.8	14.0	75	ANDESITE -Qtz-Sericite(Carbonate)-Pyrite								
			Alt'n zone (QSP) lt grey, num Qv plus py								
			badly broken 13.4-14 m								
14.0	15.5	70	QUARTZ VEIN - badly broken, gouge								
			Dissem py plus streaks of galena and	30134	14.02	15.54	1.52		0.001	0.06	
			sphalerite @ 45° @ 15.4m	30135	15.54	17.06	1.52		0.001	0.03	
				30136	17.06	18.43	1.37		0.001	0.04	
15.5	18.4	70	ANDESITE - QSP Alt'n - broken, gouge								
			finely dissem py and qtz strs with								
			py to 10% - bright green mica								
18.4	19.4	80	QTZ-CARBONATE VEIN	30137	18.43	19.34	0.91		0.001	0.02	
19.4	22.0	70	ANDESITE - QSP Alt'n - broken,gouge	30138	19.34	21.17	1.83		0.001	0.05	
				30139	21.17	22.0	0.82		0.001	0.07	
22.0	24.5	90	QUARTZ VEIN - abundant pyrite plus	30140	22.0	22.61	0.61		0.013	0.71	
			galena-sphalerite throughout first 3	30141	22.61	23.22	0.61		0.021	1.71	
			samples. Total metallic content up to	30142	23.22	23.83	0.61		0.012	1.17	
			25% locally over 5 cm sections	30143	23.83	24.53	0.70		0.001	0.04	
				30144	24.53	25.60	1.07		0.001	0.06	
24.5	26.5	90	QSP Alt'n - qtz rich zones and 2	30145	25.60	26.51	0.91		0.001	0.06	
			stages Qv @45°. Dissem py to10-15%								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-6

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 2

Section _____

Date Begun _____

Date Finished _____

Date Logged _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
26.5	32.0	90	As previous but with less sulfides and								
			more carb strs. Occ 1 cm grey banded								
			~~Qv @ 45-70° to core~~								
32.0	40.1	70	As previous - original ppy texture								
			~~evident - badly broken with poor recovery~~								
			last 2m of section - 0.3 m qtz-carb								
			vein @ 36 m								
40.1	50.6	80	ANDESITE - original texture - on edge								
			of propylitic zone								
			END OF HOLE								

NEVILLE CROSBY INC.
TELEPHONE USE-4343

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-9

DIP TEST		
	Angle	
Footage	Reading	Corrected
99.4m	49°	43°

Hole No. _____ Sheet No. 1
Section _____
Date Begun July 22,1986
Date Finished July 23,1986
Date Logged _____

Lat. 2381.47
Dep. 12309.97
Bearing 165° (-47°)
Elev. Collar 1796.86m

Total Depth 105.2m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE
0	4.6		CASING				
4.6	15.7	80	ANDESITE - lt grey-green - Fe stain on frs Upper section has abundant gouge and mud seams - 0.25-0.5 cm px phenos				
15.7	17.4	80	ANDESITE - silicified,oxidized frs				
17.4	28.7	80	ANDESITE - 0.25 cm px phenos, Fe stained frs @ 40° to core. Py on frs and dissem in matrix. Occ carb strs, badly broken 24.4-28.7m				
28.7	30.8	55	MUD SEAM				
30.8	45.1	80	ANDESITE - badly broken- chloritised Mud seams @ 43.3m - recovery 40% in this section				
45.1	52.7	85	ANDESITE - fresh not as badly broken as previous - chlor matrix with euhedral px phenos and 3% dissem py				
52.7	56.1	85	ANDESITE - silicified, pink to brown aphanitic - dacite? finely dissem py and pink carb strs				
56.1	57.5	90	ANDESITE - green, fresh				
57.5	59.6	90	ANDESITE - silicified - dacite?				

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-9

DIP TEST		
	Angle	
Footage	Reading	Corrected

2

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

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
59.6	84.7	90	ANDESITE - 0.25 cm px phenos in chlor matrix, badly broken with poor recovery in part - Px phenos fresh to this point							
84.7	84.9	90	ANDESITE - alt'd to creamy brown color with bright green mica - 5% py, sharp contact with relatively unalt'd andesite	30155	84.67	85.58	0.91		0.005	0.47
				30156	85.58	85.98	0.40		0.002	0.25
				30157	85.98	86.40	0.42		0.001	0.35
				30158	86.40	87.10	0.70		0.001	0.18
84.9	86.4	85	QTZ (CARBONATE) VEIN - 5% dissem py and grey mineral	30159	87.10	87.83	0.73		0.008	0.36
				30160	87.83	88.44	0.61		0.012	0.52
				30161	88.44	89.05	0.61		0.012	0.96
86.4	87.8	90	ANDESITE - Qtz-Sericite(Carbonate)-Py Alt'n (QSP) Occ qtz strs, 5% dissem py	30162	89.05	90.24	1.19		0.001	0.12
				30163	90.24	91.31	1.07		0.001	0.07
				30164	91.31	92.40	1.10		0.001	0.13
87.8	89.1	90	QUARTZ VEIN - some wallrock inclusions 5% dissem py and grey mineral Occ carb strs	30165	92.40	92.86	0.46		0.006	0.20
				30166	92.86	93.30	0.44		0.008	0.41
				30167	93.30	94.30	1.00		0.001	0.06
				30168	94.30	95.30	1.00		0.001	0.04
89.1	92.4	90	ANDESITE - QSP Alt'n - num 1 cm Qv @ 70-80° to core - broken, clay-sericite alt'n in last 0.6m	30169	95.30	96.30	1.00		0.001	0.12
				30170	96.30	97.30	1.00		0.001	0.07
				30171	97.30	98.40	1.10		0.001	0.12
				30172	98.40	98.90	0.50		0.001	0.16
92.4	93.3	90	QUARTZ VEIN - massive sections - 5 cm- of py and dk grey to black mineral	30173	98.90	99.84	0.94		0.001	0.07
				30174	99.84	101.10	1.25		0.001	0.03
				30175	101.10	101.68	0.58		0.001	0.04
93.3	98.4	90	ANDESITE - QSP Alt'n num Qv to 15 cm	30176	101.68	102.29	0.61		0.001	0.01
				30177	102.29	103.66	1.37		0.001	0.01
98.4	98.9	90	QUARTZ VEIN - grey mineral	30178	103.66	105.20	1.54		0.001	0.06
98.9	101.6	90	QSP Alt'n							
101.6	102.2	90	QUARTZ VEIN 5% py - no grey mineral							
102.2	105.2	90	ANDESITE - QSP Alt'n occ qtz strs							

END OF HOLE

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-8

DIP TEST		
	Angle	
Footage	Reading	Corrected
60 m	65°	57°

Hole No. _____ Sheet No. 1
Section _____
Date Begun July 20,1986
Date Finished July 21,1986
Date Logged _____

Lat. 2332.35
Dep. 12365.23
Bearing 170° (-60°)
Elev. Collar 1811.42 m

Total Depth 60.0m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
0	4.6		CASING								
4.6	21.3	80	ANDESITE - propylitic alt'n-px phenos, badly broken- oxidized frs to 19.5m Fault gouge 16.5-18.3m. Minor py in seams								
21.3	24.4	85	ANDESITE - fragmental texture								
24.4	26.5	85	Gouge Zone - oxidation on fr planes Abundant py to 5%								
26.5	36.6	85	ANDESITE - augite ppy - carb strs parallel to core- epidote streaks. Shearing and gouge @ 32 and 34m with Fe stain which extends to 36.6m								
36.6	53.6	90	ANDESITE - relatively fresh but badly broken. Little py and minor qtz								
53.6	54.3	90	SILICIFIED ZONE - cherty, brecciated								
54.3	58.8	90	ANDESITE - fresh								
58.8	60.0	90	ANDESITE - silicified - brownish tinge -Dacite- Occ 1 cm Qv @ 45° to core Dissem py in matrix and in Qv								
			END OF HOLE								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-7

DIP TEST		
	Angle	
Footage	Reading	Corrected
41.5 m	68°	63°

Hole No. _____ Sheet No. 1
Section _____
Date Begun July 19,1986
Date Finished July 20,1986
Date Logged _____

Lat. 2301.59
Dep. 12333.04
Bearing 165° (-67°)
Elev. Collar 1791.08 m

Total Depth 41.5 m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
0	3.0		CASING							
3.0	11.0	80	ANDESITE - alt'd - propylitic- badly broken in upper section. Oxidized to end of section. Gouge 6.1-6.7m							
11.0	13.4	80	ANDESITE - Qtz-Sericite(Carbonate)-Pyrite Alt'n (QSP) Occ 1 cm banded Qv							
13.4	17.1	80	ANDESITE - propylitic alt'n. White carb strs with some qtz - abundant gouge at top and bottom of section							
17.1	18.4	90	QUARTZ VEIN - with carbonate, dissem py gouge top and bottom	30146	17.1	-18.41	1.31		0.041	0.36
				30147	18.41	-19.84	1.43		0.001	0.01
18.4	24.8	90	ANDESITE - QSP Alt'n - py seams, little Qv							
24.8	28.6	80	QTZ-CARBONATE VEIN - some incl of QSP alt'd andesite - vuggy at end of section Epidote strs Dissem py	30148	24.80	-25.62	0.82		0.001	0.02
				30149	25.62	-26.84	1.22		0.001	0.01
				30150	26.84	-27.75	0.91		0.001	0.01
				30151	27.75	-28.66	0.91		0.001	0.01
28.6	32.3	80	ANDESITE - QSP Alt'n - qtz strs @ 45°, gouge at start of section	30152	28.66	-29.88	1.22		0.001	0.01
				30153	29.88	-30.79	0.91		0.001	0.01
32.3	37.2	85	ANDESITE - original texture, poor recovery at start of section(50%) 5% dissem py on frs							
37.2	41.5	90	QSP Alt'n - gradatational to propylitic	30154	39.62	-41.45	1.83		0.001	0.12

END OF HOLE

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-10

DIP TEST		
	Angle	
Footage	Reading	Corrected
121m	64°	58°

Hole No. _____ Sheet No. 1
Section _____
Date Begun August 12,1986
Date Finished August 14,1986
Date Logged _____

Lat. 2212.97
Dep. 12350.88
Bearing 320° (-62°)
Elev. Collar 1790.13m

Total Depth 140.5m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
0	14.3		CASING								
14.3	30.5	80	DACITE -badly broken, clay alt'n to 23.2 core recovery 50% - gradational to buff rocks with occ 1cm ang frags								
30.5	33.5	80	ANDESITE - uniform grey, broken, carb strs @ 20° to core								
33.5	38.7	80	ANDESITE - DACITE - badly broken								
38.7	56.8	40	DACITE - badly broken - num mud seams 39.9-56.8								
56.8	84.5	90	DACITE - buff to apple green - epidote strs Num chlor slips @ 40-60° to core Minor qtz. Dissem py plus strs 8 cm qtz vein @ 84m	30179	83.45	-84.49	1.04		0.001	0.08	
84.5	-85.5	90	QUARTZ (CARBONATE) VEIN - dissem clots py to 5%, vfg grey mineral. Contacts @ 60° to core	30180	84.49	-85.53	1.04		0.006	0.04	
85.5	86.6	90	DACITE - as previous - epidote alt'n	30181	85.53	-86.41	0.88		0.001	0.06	
86.6	95.4	90	DACITE - as previous but with fragmental texture 1-2cm ang frags - cherty last 6m-grey-green colour 1cm qtz strs @ 70-90° to core 5% dissem py								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-10

DIP TEST		
	Angle	
Footage	Reading	Corrected

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

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
95.4	96.6	90	ANDESITE - sharp contact with previous								
			@ 35°, strongly sheared, 1cm Qv @ 35°	30182	95.62	-96.56	0.94		0.006	0.12	
			to core								
96.6	100.3	90	QUARTZ (CARBONATE) VEIN - Dissem and	30183	96.56	-97.08	0.52		0.018	0.13	
			massive streaks py with minor cp -	30184	97.08	-97.60	0.52		0.025	0.19	
			sulfide content up to 10%. Also fg	30185	97.60	-98.12	0.52		0.079	0.59	
			sooty grey mineral. Sheared contacts @	30186	98.12	-98.64	0.52		0.073	0.34	
			35-40° to core	30187	98.64	-99.16	0.52		0.455	1.83	
				30188	99.16	-99.68	0.52		0.878	0.83	
100.3	102.4	90	DACITE - as previous but no cherty	30189	99.68	-100.23	0.55		0.058	0.24	
			sections - first 0.6m sheared	30190	100.23	-100.84	0.61		0.018	0.08	
102.4	112.8	90	ANDESITE - QTZ-SERICITE(CARBONATE)-PYRITE	23753	104.24	-105.76	1.52		0.007	0.14	
			Alt'n (QSP) -0.5-1cm grey qtz vlts 45-90°	23754	109.73	-111.86	2.13		0.007	0.06	
			to core. 5% dissem py	30191	111.86	-112.84	0.98		0.006	0.05	
112.8	113.6	90	QTZ - CARBONATE VEIN - 5% dissem py plus	30192	112.84	-113.63	0.79		0.011	0.01	
			some grey material - lower contact @60°								
113.6	116.4	90	ANDESITE - QSP Alt'n - 0.5cm qtz vlts	30193	113.63	-114.61	0.98		0.006	0.01	
			@ 45° to core	30194	114.61	-115.52	0.91		0.001	0.01	
				30195	115.52	-116.43	0.91		0.006	0.01	
116.4	120.5	90	QTZ - CARBONATE VEIN - initial 0.6m qtz	30196	116.43	-117.04	0.61		0.368	0.04	
			bx - dk grey - white qtz vein @ 0° to	30197	117.04	-117.56	0.52		0.158	0.01	
			core followed by 1.2m section with little	30198	117.56	-118.08	0.52		0.085	0.06	
			py - gradational to grey variety with 2-	30199	118.08	-118.57	0.49		0.147	0.04	
			5% dissem py. Last 0.6m sheared	30200	118.57	-119.21	0.64		0.185	0.13	
			70% recovery last 1.5m	23751	119.21	-119.88	0.67		0.388	0.29	
				23752	119.88	-120.55	0.67		0.580	0.53	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-10

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	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
120.5	127.2	90	ANDESITE - relatively unalt'd - med green								
			Num 0.25cm carb strs - gradational to	23755	120.55-	121.92	1.37		0.023	0.11	
			massive grey variety - 1cm qtz strs	23756	124.48-	125.21	0.73		0.009	0.07	
			124.5-125.2m								
127.2	130.1	90	DACITE - buff colour - silicified-								
			fragmental texture - white and pink carb								
			strs.								
130.1	140.5	90	ANDESITE - uniform grey-green colour-								
			carb strs @ shallow angles to core.								
			Minor 1cm qtz veins @ 40° to core								
			5% dissem py in matrix and on frs.								
			END OF HOLE								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-11

DIP TEST		
	Angle	
Footage	Reading	Corrected
230.4m	86°	84°

Hole No. _____ Sheet No. 1
Section _____
Date Begun August 14,1986
Date Finished August 18,1986
Date Logged _____

Lat. 2163.53
Dep. 11999.94
Bearing 130° (-85°)
Elev. Collar 1768.50m

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

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
0	30.5		CASING								
30.5	32.0	80	FELDSPAR PORPHYRY - pin to red 4mm euhedral feldspar phenos. Small incl of andesite								
32.0	41.8	35	ANDESITE - Dark green - carb strs @ 45° Qtz vein 32.3-32.6m - 5% dissem py badly broken								
41.8	45.4	70	DACITE - lt grey - fragmental texture- 5% dissem py - badly broken - occ qtz strs								
45.4	57.3	70	ANDESITE - Grey - green uniform appearance 5% dissem py - badly broken - gradational to augite ppy								
57.3	59.4	50	FELSIC DYKE - fg ppy texture - lt brown to pink - 5% dissem py								
59.4	87.5	70	ANDESITE - ppy texture locally - uniform green colour - 5% dissem py - broken throughout								
87.5	109.4	45	FELDSPAR PORPHYRY - mg - pink to grey- badly broken - 5-10% py as dissem and on frs								
109.4	110.6	50	QUARTZ VEIN - grey - 5% dissem py plus dk grey streaks - sheared	23757	109.40	-110.62	1.22		0.002	0.06	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-11

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	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu (ppm)	Pb (ppm)	Zn (ppm)	Au (ppb)	Ag (ppm
110.6	111.3	0	MUD SEAM - no core									
111.3	125.7	10	FELDSPAR PORPHYRY - pink to grey - poor to nil recovery with mud seam 121.3-124.7									
125.7	145.7	95	DACITE - lt grey to brown - silicification of andesite ppy? - relict augite phenos 2mm - 130.0-131.6 - Gypsum strs and 1cm veins @ 60° to core. Num 2-4mm py strs of same orientation - variably silicified with original andesite texture seen locally - occ qtz strs @ 35° to core	23758	127.56	129.08	1.52	170	26	90	80	1.6
				23759	132.68	134.30	1.62	132	18	85	74	1.4
				23760	137.28	139.11	1.83	280	22	73	78	2.1
145.7	148.9	95	DACITE - 0.1-0.6m feldspar ppy dykes(3) between 145.8 and 148.9m - gradational contacts @ 35° to core . Dissem py in dykes									
148.9	171.8	95	DACITE - As previous - 10% dissem py decreasing near end of section - po becomes dominant sulfide. Qtz veins @ 20° to core cut by gypsum frs and 1cm veins @ 60° to core. Qtz-gypsum-po vein - 0.6m @ 165.2m - Original andesite texture and green colour noted in section - Silicified with dissem and fr filling py,po and cp at end of section	23761	148.86	150.38	1.52	158	20	63	70	1.7
				23762	164.29	165.91	1.62	168	21	44	75	1.4
				23763	170.08	171.91	1.83	136	19	64	81	1.5
171.8	172.9	95	FELSIC DYKE - fg pink - 2mm qtz and feldspar phenos - contacts @ 60° - 0.5cm qtz and gypsum vlts @ 60° with 5% py									

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-11

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 3
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu (ppm)	Pb (ppm)	Zn (ppm)	Au (ppb)	Ag (ppm
172.9	180.8	95	DACITE - brown to green - variably sil.									
			first 7m - 5-10% py as dissem and in	23764	172.88	174.34	1.46	134	16	52	76	1.6
			sil. matrix and qtz-carb-gypsum strs	23765	174.34	175.74	1.40	169	16	57	80	1.6
180.8	181.4	95	QTZ-CARB-GYPSUM VEIN - 70% qtz - contacts						Au (oz/t)	Ag (oz/t)		
			@ 40° to core 0.5 cm py streaks	23766	178.92	180.81	1.89		0.002	0.08		
181.4	188.1	95	DACITE - intense silicification to 184.4	23767	180.81	181.36	0.55		0.013	0.07		
			Patches of py to 10% - hairline carb	23768	181.36	182.82	1.46		0.004	0.06		
			strs - 0.6m qtz-carb vein @ 184.6m	23769	182.82	184.28	1.46		0.001	0.12		
			with 3cm py str.	23770	184.28	185.04	0.76		0.001	0.20		
				23771	185.04	186.56	1.52		0.002	0.06		
188.1	189.4	95	FELSIC DYKE - lt brown - 2mm qtz phenos									
			in aphanitic matrix									
189.4	191.7	95	DACITE - as previous - occ 1cm qtz vlts									
191.7	193.3	95	FELSIC DYKE - as previous - indistinct									
			contacts									
193.3	198.9	95	DACITE - as previous									
198.9	199.9	95	FELDSPAR PORPHYRY - mg -ink to grey									
			10% dissem py									
199.9	206.3	95	DACITE - silicified with qtz strs and					Cu (ppm)	Pb (ppm)	Zn (ppm)	Au (ppb)	Ag (ppm
			py at start of section - gradational to									
			augite ppy	23772	200.25	201.77	1.52	155	20	104	25	2.0
206.3	207.2	95	QTZ BRECCIA - 1-2cm ang. frags	23773	206.35	207.20	0.85	68	80	180	8	1.8

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-11

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 4
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE	Cu (ppm)	Pb (ppm)	Zn (ppm)	Au (ppb)	Ag (ppm)
207.2	210.3	95	ANDESITE - ppy texture - 0.25-0.5cm augite phenos - feldspar porphyry dyke - 0.6m @ 207.3m									
210.3	213.8	95	DACITE - silicified - lt brown - 5-10% dissem py. 3cm qtz-barite-epidote veins @ 211.8m									
213.8	214.8	95	QTZ-GYPSUM-CARBONATE BRECCIA 2% pyrite	23774	213.85	214.76	0.91	88	23	52	35	1.8
214.8	218.2	95	DACITE - lt brown - silicified - fewer sulfides than previous and only occ qtz strs									
218.2	227.1	95	ANDESITE - original augite ppy texture locally - abundant pink carb with qtz	23775	221.89	223.11	1.22	45	17	35	30	1.3
227.1	230.4	95	DACITE - lt brown - pink carb on frs- some qtz and pyrite - local ppy texture - crude layering @ 45° to core									
			END OF HOLE									

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-12

DIP TEST		
	Angle	
Footage	Reading	Corrected
102.4m	61°	55°

Hole No. _____ Sheet No. 1
Section _____
Date Begun August 18,1986
Date Finished August 19,1986
Date Logged _____

Lat. 2234.80
Dep. 12354.64
Bearing 320° (-60°)
Elev. Collar 1792.56m

Total Depth 102.4m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
0	9.1		CASING							
9.1	13.1	60	ANDESITE - QTZ-SERICITE(CARBONATE)-PYRITE							
			Alt'n (QSP) - Oxidized - broken							
13.1	45.1	60	ANDESITE - QSP Alt'n - lt grey - silicified							
			Qtz vlts - qtz veins - 0.6-0.9m @ 18.1	23776	16.46	18.14	1.68		0.002	0.12
			and 21.3m - Badly broken with gouge	23777	18.14	18.72	0.58		0.003	0.12
			and mud seams 23.3-24.4m - Qv with py	23778	18.72	19.97	1.25		0.007	0.20
			22.5-25m (50% recovery), 26.1-26.5,	23779	19.97	21.34	1.37		0.005	0.13
			28.3-28.9. Badly broken - num gouge zones	23780	21.34	22.50	1.16		0.003	0.12
			30.5-32, 33.5-34.1, 35.5,39, 40.8-41.4,	23781	22.50	25.00	2.50		0.002	0.06
			42.4-43m - Qtz strs not prevalent	23782	25.00	26.07	1.07		0.011	0.08
				23783	26.07	26.53	0.46		0.005	0.06
45.1	47.1	85	QTZ-CARBONATE VEIN - 45° contact, dissem	23784	26.53	28.36	1.83		0.006	0.18
			py to 5% - vuggy with xlline cavities	23785	28.36	28.97	0.61		0.004	0.07
				23786	42.98	44.05	1.07		0.001	0.12
				23787	44.05	45.12	1.07		0.003	0.13
47.1	68.6	85	ANDESITE - lt grey - less alt'n than	23788	45.12	45.79	0.67		0.004	0.06
			previous - num pink carb strs - Occ	23789	45.79	46.46	0.67		0.005	0.05
			0.5-1cm qtz strs with 5% dissem py	23790	46.46	47.10	0.64		0.012	0.13
			@ 40° to core	23791	47.10	48.62	1.52		0.002	0.06
68.6	76.1	85	ANDESITE - QSP Alt'n - num qtz strs in							
			white matrix - 5-10% dissem py -banded	23792	68.58	69.49	0.91		0.006	0.07
			grey qtz vlts @ 80° to core cut by	23793	69.49	71.01	1.52		0.006	0.06
			white qtz-carb strs @ 60° to core.	23794	71.01	74.97	3.96		0.006	0.06
			0.76m core lost - mislatch	23795	74.97	76.10	1.13		0.039	0.13

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-12

DIP TEST		
	Angle	
Footage	Reading	Corrected

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

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
76.1	82.2	90	QTZ-CARBONATE VEIN - upper and lower								
			contacts @ 60° to core - vuggy - 5%	23796	76.10	-76.71	0.61		0.006	0.01	
			finely dissem py in 80-90% qtz material	23797	76.71	-77.32	0.61		0.023	0.03	
			Minor cp and possibly grey metallic	23798	77.32	-77.93	0.61		0.018	0.01	
				23799	77.93	-78.54	0.61		0.608	0.02	
82.2	97.5	90	ANDESITE - QSP Alt'n - num closely	23800	78.54	-79.15	0.61		0.077	0.24	
			spaced 0.5-1cm grey qtz vlts - 1/2cm	23801	79.15	-79.76	0.61		0.124	0.17	
			@ 50° to core - 5-10% dissem py -	23802	79.76	-80.37	0.61		0.005	0.03	
			5-15cm Qv's in initial 2.3m - 0.45m	23803	80.37	-80.98	0.61		0.005	0.01	
			qtz bx zone @ 85.6m and well developed	23804	80.98	-81.59	0.61		0.003	0.01	
			qtz vlt stockwork 90.8-93.3m	23805	81.59	-82.20	0.61		0.050	0.18	
				23806	82.20	-82.87	0.67		0.006	0.59	
97.5	102.4	90	ANDESITE - QSP Alt'n - fewer Qv than	23807	82.87	-83.54	0.67		0.004	0.18	
			previous - mottled appearance due to	23808	83.54	-84.18	0.64		0.006	0.06	
			5-10% finely dissem py in matrix	23809	84.18	-85.86	1.68		0.001	0.06	
				23810	85.86	-87.54	1.68		0.005	0.05	
				23811	90.98	-92.96	1.98		0.001	0.06	
			END OF HOLE								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-13

DIP TEST		
	Angle	
Footage	Reading	Corrected
81.1m	53°	45°

Hole No. _____ Sheet No. 1
Section _____
Date Begun August 19,1986
Date Finished August 21,1986
Date Logged _____

Lat. 2234.80
Dep. 12354.64
Bearing 320° (-45°)
Elev. Collar 1792.56m

Total Depth 82.1m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
0	15.2		CASING							
15.2	22.9	40	ANDESITE - grey - alt'd - poor recovery silt and sand to 18.6m							
22.9	39.0	70	ANDESITE - propylitic alt'n - num carb strs and 0.5cm qtz-carb strs @ 30° to core - 5-10% dissem py mainly in frs.							
39.0	53.3	85	ANDESITE - gradational to QSP Alt'n Qtz-carb strs with py @ 20° to core- occ grey banded Qv. 0.6m Qv @49.7m - becomes progressively more silicified- badly broken	23812	39.32	-40.84	1.52		0.001	0.16
				23813	49.68	-50.29	0.61		0.013	0.07
				23814	52.27	-53.34	1.07		0.002	0.05
53.3	54.6	85	QTZ-CARBONATE VEIN - 5% dissem py - grey Gouge on both contacts	23815	53.34	-53.95	0.61		0.001	0.10
				23816	53.95	-54.56	0.61		0.001	0.05
54.6	81.1	90	ANDESITE - QTZ-SERICITE(CARBONATE)-PYRITE Alt'n zone (QSP) - 1cm dk grey banded QV @ 45° to core - cut by flatter qtz-carb strs - badly broken section 62.8-67.4m - 5-10% dissem py - banded grey Qv @ 30° to core @68.3m - original augite phenos partly visible - gouge material throughout in1.5m sections - mottled appearance near end of section	23817	54.56	-55.56	1.00		0.001	0.06
				23818	68.12	-69.49	1.37		0.001	0.04
				23819	75.60	-76.82	1.22		0.001	0.04
			END OF HOLE							

NEVILLE CROSBY INC.
TELEPHONE USE-4343

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-14

DIP TEST		
	Angle	
Footage	Reading	Corrected
69.2m	64°	57°

Hole No. _____ Sheet No. 1
Section _____
Date Begun August 21,1986
Date Finished August 22,1986
Date Logged _____

Lat. 2210.13
Dep. 12303.89
Bearing 320° (-60°)
Elev. Collar 1770.09m

Total Depth 69.2m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
0	9.1		CASING							
9.1	26.2	60	ANDESITE - oxidized to 13.1m - badly broken - with gouge @ 14.6-14.9m - uniform grey-green colour - 0.3m Qv @ 14.3m, 0.15m Qv @ 18.3m -	23820	14.33	14.63	0.30		0.001	0.06
				23821	18.29	18.44	0.15		0.001	0.17
26.2	39.6	85	ANDESITE - propylitic to QSP Alt'n - lt grey, intensely fractured - occ 1cm Qv @ 40° to core - gradational to grey-green as previous - Qv (0.46m) @ 34.1m Layering @ 40° to core @ 36.9m - gouge 34.4-35.4m - entire section badly broken	23822	32.92	34.14	1.22		0.001	0.09
				23823	34.14	34.60	0.46		0.001	0.19
				23824	34.60	35.67	1.07		0.013	0.13
39.6	47.6	85	ANDESITE - grey-green - uniform fg texture - only occ augite phenos - qtz and qtz-carb (pink) strs @ 40° to core - QSP alt'n at end of section - 0.3m gouge	23825	46.63	47.60	0.98		0.010	0.18
47.6	52.6	90	QTZ-CARBONATE VEIN - Initial 1.2m white qtz (70%)-carb - 2-5% finely dissem py and possible cp - green wallrock incl 49.1-51.2m and dk grey mineral and cp - to end of section - white qtz with grey streaky material - bx in part - qtz is vuggy and contains sphalerite, argentite? cp,py and galena? in central section 0.3 m gouge at upper and lower contacts	23826	47.60	48.15	0.55		0.018	0.08
				23827	48.15	48.70	0.55		0.009	0.05
				23828	48.70	49.25	0.55		0.236	1.84
				23829	49.25	49.80	0.55		0.155	3.65
				23830	49.80	50.35	0.55		1.517	27.13
				23831	50.35	50.90	0.55		0.315	5.78
				23832	50.90	51.45	0.55		0.158	7.67
				23833	51.45	52.00	0.55		0.945	12.40
				23834	52.00	52.64	0.64		0.136	0.66

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-14

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 2

Section _____

Date Begun _____

Date Finished _____

Date Logged _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
52.6	58.2	90	ANDESITE - QSP Alt'n - white - 5-10%								
			dissem py - qtz rich section @ 55.8m	23835	52.6	4-53	.25 0.61		0.018	0.09	
			@ 45° to core	23836	53.2	5-53	.95 0.70		0.013	0.06	
				23837	53.9	5-55	.47 1.52		0.036	0.22	
				23838	55.4	7-57	.00 1.53		0.010	0.12	
58.2	69.2	90	ANDESITE - unalt'd - uniform grey-green								
			colour - pink carb strs - qtz zones and								
			strs @ 0° to core @ 62.5- 63.2m - 5%								
			dissem pyrite								
			END OF HOLE								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-15

DIP TEST		
	Angle	
Footage	Reading	Corrected
93.0m	73°	68°

Hole No. _____ Sheet No. 1
Section _____
Date Begun August 22,1986
Date Finished August 23,1986
Date Logged _____

Lat. 2210.13
Dep. 12303.89
Bearing 320° (-70°)
Elev. Collar 1770.09m

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

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
0	6.1		CASING								
6.1	12.2	70	ANDESITE - bleached white - oxidized - badly broken								
12.2	17.4	75	ANDESITE - QTZ-SERICITE(CARBONATE)-PYRITE (QSP) Alt'n - lt grey = 5% dissem py - no obvious Qv - gouge 14.6-16.8m beyond which are qtz-carb strs to 0.5cm @ 20° to core								
17.4	44.8	80	ANDESITE - uniform grey-green - py on frs to 5% = badly broken - occ 0.5cm Qv cut by pink qtz-carb strs - some epidote strs noted - also original ppy texture evident Minor po - several 1-2cm grey banded Qv @ 42.1 and 43.3m								
44.8	47.1	90	ANDESITE - silicified with qtz vlts @ 50° to core and grey Qv @ 46.0-46.8m - gouge at both upper and lower contacts	23839 23840 23841	44.80 46.02 46.78	-46.02 -46.78 -48.15	1.22 0.76 1.37		0.008 0.003 0.006	0.13 0.06 0.11	
47.1	53.8	90	ANDESITE - as previous - original ppy texture noted - some silicified areas 5% dissem py								
53.8	79.4	90	DACITE - lt green to buff to grey - flow banding? noted locally @ 40° to core - Qv @ 40° to core @ 56.4m(0.3m)- 5% py in frs - badly broken - 0.15m Qv @ 62.2m - gouge @ 68-71m and end of section	23842	77.88	-79.40	1.52		0.009	0.11	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-15

DIP TEST		
	Angle	
Footage	Reading	Corrected

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

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
79.4	87.6	90	QTZ-CARBONATE VEIN - white qtz with minor	23843	79.4	80	.01	0.61	0.016	0.05	
			carb - 5% py in hairline seams and as	23844	80.0	80	.62	0.61	0.012	0.05	
			dissem - gouged wallrock incl with qtz	23845	80.6	81	.23	0.61	0.014	0.07	
			80.5-81.4, 82.6-83, and 85.6-86.2m	23846	81.2	81	.84	0.61	0.002	0.01	
			vfg grey mineral noted	23847	81.8	82	.45	0.61	0.002	0.01	
				23848	82.4	83	.06	0.61	0.016	0.01	
				23849	83.0	83	.67	0.61	0.009	0.01	
				23850	83.6	84	.28	0.61	0.009	0.01	
				23851	84.2	84	.89	0.61	0.005	0.01	
				23852	84.8	85	.50	0.61	0.009	0.01	
				23853	85.5	86	.11	0.61	0.035	0.05	
				23854	86.1	86	.87	0.76	0.095	0.11	
				23855	86.8	87	.63	0.76	0.025	0.06	
87.6	93.0	90	ANDESITE - grey-green - initial 0.6m								
			gouged - broken to end of section -	23856	87.6	88	.54	0.91	0.014	0.13	
			Occ pink carb strs								
			END OF HOLE								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-16

DIP TEST		
	Angle	
Footage	Reading	Corrected
66.1m	63°	58°

Hole No. _____ Sheet No. 1
Section _____
Date Begun August 24,1986
Date Finished August 25,1986
Date Logged _____

Lat. 2192.72
Dep. 12279.28
Bearing 320° (-61°)
Elev. Collar 1757.43m

Total Depth 66.1m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
0	6.1		CASING							
6.1	17.1	60	QTZ-FELDSPAR-PORPHYRY - intensely fractured and broken - oxidized frs to end of section							
17.1	40.7	90	QTZ-FELDSPAR-PORPHYRY - cream to mauve colour - 2-4mm qtz and feldspar phenos with 0.5 to 1cm lithic fragments - variably alt'd - argillic in upper section - silicified last 6m with occ qtz strs @ @ 40° to core - 2-5% dissem py - indistinct lower contact							
40.7	56.6	90	DACITE - lt brown to buff colour with 5% dissem py - num frs and relict flow banding @ 40° to core - 0.6m Qv @ 44.2m Relict augite phenos noted down section Dark rounded lithic frags to 1cm - Badly broken 50-51.5m	23857	44.20	-44.81	0.61		0.002	0.30
				23858	55.47	-56.57	1.10		0.009	0.23
56.6	61.6	85	QTZ-(CARBONATE) VEIN - irreg upper contact @ 40° to core - qtz is 80% of vein material - 5% dissem py - vuggy and bx over central and last section - Gypsum bx @ 57.6m - 0.3m gouge @ 59m- Sulfide content increases to end of section - also bluish grey cast - minor cp and sphalerite?	23859	56.57	-57.18	0.61		0.026	0.20
				23860	57.18	-57.91	0.73		0.006	0.11
				23861	57.91	-58.52	0.61		0.001	0.01
				23862	58.52	-59.19	0.67		0.007	0.06
				23863	59.19	-59.80	0.61		0.011	0.09
				23864	59.80	-60.41	0.61		0.058	0.14
				23865	60.41	-61.02	0.61		0.034	0.08
				23866	61.02	-61.63	0.61		0.003	0.02
61.6	66.1	90	ANDESITE - silicified to 63.4m - Qv in first 0.6m - pink qtz-carb strs,py seams	23867	61.63	-62.24	0.61		0.005	0.13
				23868	62.24	-63.09	0.85		0.002	0.12

END OF HOLE

NEVILLE CROSBY INC.
TELEPHONE USE-4343

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-17

DIP TEST		
	Angle	
Footage	Reading	Corrected
41.1m	50°	45°

Hole No. _____ Sheet No. 1
Section _____
Date Begun August 25,1986
Date Finished August 25,1986
Date Logged _____

Lat. 2192.72
Dep. 12279.28
Bearing 320° (-45°)
Elev. Collar 1757.43m

Total Depth 45.4m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
0	9.1		CASING							
9.1	29.3	80	QTZ-FELDSPAR-PORPHYRY - 4mm qtz and feldspar phenos - intense oxidation to end of section - badly broken and gouge to 19.8 m - buff matrix with 5% dissem py							
29.3	36.4	90	ANDESITE - lt green - intensely alt'd - some px (augite) phenos seen locally - has appearance of dacite - silicified - Badly broken with gouge to 33.5m - Gouge also at end of section	23869	35.36	36.42	1.07		0.009	0.29
36.4	39.0	90	QTZ VEIN - minor carbonate - upper contact sheared - lower contact @ 70° Locally heavy sulfides to 10% with cp 37.8-38.4m - Some dark minerals but no obvious grey cast - reddish alt'n (hematite?) locally - incl of chloritic wallrocks at end of section	23870	36.42	37.06	0.64		0.001	0.10
				23781	37.06	37.73	0.67		0.005	0.09
				23782	37.73	38.37	0.64		0.182	0.66
				23783	38.37	39.00	0.63		0.163	0.44
39.0	45.4	90	ANDESITE - initial section silicified with qtz-carb strs - pink - @ 30° to core - Qv with py strs 40.8-41.8m	23784	39.00	40.83	1.83		0.010	0.56
				23785	40.83	41.81	0.98		0.009	0.18
				23786	41.81	43.27	1.46		0.003	0.13
			END OF HOLE							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-18

DIP TEST		
	Angle	
Footage	Reading	Corrected
Lost Test		

Hole No. _____ Sheet No. 1
Section August 26,1986
Date Begun August 27,1986
Date Finished _____
Date Logged _____

Lat. 2185.36
Dep. 12258.74
Bearing 330° (-60°)
Elev. Collar 1748.0m

Total Depth 77.4m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
0	6.1		CASING								
6.1	18.4	75	ANDESITE - lt green - 1mm px phenos - badly broken - 1m mud seam @ 9.1m 5% py on fr planes								
18.4	19.1	85	QTZ-FELDSPAR-PORPHYRY - dyke - broken on contacts - 5% finely dissem py - 2mm qtz and feldspar phenos								
19.1	29.9	85	ANDESITE - as previous - broken with gouge and mud seams 24.4-29m								
29.9	37.5	85	ANDESITE - bleached - ghost 4mm px phenos Occ qtz-carb strs @ 25° to core								
37.5	38.1	85	QTZ-FELDSPAR-PORPHYRY = white feldspar phenos in dk grey matrix with 5% py Lower contact chilled @ 45° to core								
38.1	48.8	90	ANDESITE - as previous - badly broken with gouge at end of section								
48.8	63.2	90	QTZ-FELDSPAR-PORPHYRY - faulted (gouge) upper contact with mud seams 49.4-50m Abundant argillic alt'n - 2-4mm qtz eyes and white feldspar phenos in buff matrix 5% dissem py - also in frs and 0.5cm qtz strs @ 40° to core between 60.5 and 63.2 m	23877	61.87	63.24	1.37		0.001	0.01	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-18

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 2

Section _____

Date Begun _____

Date Finished _____

Date Logged _____

Lat. _____

Dep. _____

Bearing _____

Elev. Collar _____

Total Depth _____

Logged By _____

Claim _____

Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY		DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
63.2	65.1		90	QTZ VEIN - vuggy, white - finely dissem	23878	63.24	-63.85	0.61		0.001	0.01	
				py to 5% - upper contact @ 40° to core	23879	63.85	-64.46	0.61		0.001	0.06	
					~~23880~~	~~64.46~~	~~-65.07~~	~~0.61~~		~~0.001~~	~~0.01~~	
65.1	67.1		90	QTZ-FELDSPAR-PORPHYRY - as previous								
				with occ qtz vlts - becoming darker grey	23881	65.07	-66.28	1.22		0.001	0.06	
				chilled lower contact								
67.1	77.4		90	ANDESITE - bleached in part and silicified								
				to dacite appearance - Num qtz-carb-zeolite								
				strs @ 30° to core - Gouge @ 67.4 and								
				75m and broken intervals to end of hole								
				END OF HOLE								

NEVILLE CROSBY INC.
TELEPHONE USE-4343

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-19

DIP TEST		
	Angle	
Footage	Reading	Corrected
71.9m	65°	58°

Hole No. _____ Sheet No. 1
Section _____
Date Begun August 28,1986
Date Finished August 29,1986
Date Logged _____

Lat. 2222.52
Dep. 12318.24
Bearing 330° (-61°)
Elev. Collar 1777.60m

Total Depth 71.9m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
0	6.1		CASING							
6.1	25.6	30	ANDESITE - variably alt'd - badly broken with num gouge sections							
25.6	28.2	60	ANDESITE - clay alt'n - gouge - 5% dissem py - lt buff to creamy white							
28.2	37.2	90	ANDESITE - uniform lt green colour - approaching dacite - local epidote strs and qtz-carb strs @ 30-50° to core Qtz vein 28.7-29.3m	23882	28.65	-29.26	0.61		0.002	0.08
37.2	38.7	90	ANDESITE - clay alt'n - gouge - white qtz vlts - 0.5-1cm @ 60° to core	23883	37.19	-38.71	1.52		0.007	0.14
38.7	52.6	90	QTZ (CARBONATE) VEIN - initial sections with 1cm incl of alt'd wallrocks - Qtz is vuggy with 5% py - 41.1-43m- up to 25% sulfides with py, cp streaks, plus dk grey mineral - sphalerite, argentite? - also seen @ 43.3m and streaky cp also @ 44.6m - Chlor and pyritic wallrocks inclusions 44.6-48.2m with some qtz strs - Note: gouge zones and only 50% recovery in this section- Qtz vein 48.2-49.1m; wallrock incl. 49.1-50.3m poor core recovery - 50.3m to end of section - Qtz vein with dieem and streaky sulfides to 25%- Py,cp, dk minerals multiple stage qtz drusy cavities and colloform banding	23884	38.71	-39.32	0.61		0.008	0.06
				23885	39.32	-39.93	0.61		0.065	0.02
				23886	39.93	-40.54	0.61		0.089	0.06
				23887	40.54	-41.15	0.61		0.051	0.06
				23888	41.15	-41.76	0.61		0.255	0.18
				23889	41.76	-42.37	0.61		0.605	2.65
				23890	42.37	-42.98	0.61		0.175	2.06
				23891	42.98	-43.59	0.61		0.151	0.40
				23892	43.59	-44.20	0.61		3.004	6.50
				23893	44.20	-44.60	0.40		3.555	8.37
				23894	44.60	-48.17	3.57		0.128	0.57
				23895	48.17	-49.08	0.91		0.020	0.11
				23896	49.08	-50.30	1.22		0.030	0.13
				23897	50.30	-50.91	0.61		0.718	1.77
				23898	50.91	-51.52	0.61		0.187	0.33
				23899	51.52	-52.13	0.61		1.429	0.52
				23900	52.13	-52.60	0.47		3.643	0.88

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-19

DIP TEST		
	Angle	
Footage	Reading	Corrected

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

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
52.6	58.8	90	ANDESITE - QSP Alt'n zone - narrow qtz	23901	52.60	-53.97	1.37		0.048	0.12	
			vlts @ 60° to core - previous vein	23902	53.97	-55.49	1.52		0.016	0.08	
			contact also @ 60° - broken with gouge								
			zones near end of section								
58.8	71.9	90	ANDESITE - near dacite composition -								
			Qtz vein 66.6-67.2m - remainder of section								
			buff to brown colour with occ to num								
			banded qtz strs @ 60° to core	23903	66.60	-67.21	0.61		0.004	0.06	
			END OF HOLE								

NEVILLE CROSBY INC.
TELEPHONE USE-4343

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-20

DIP TEST		
	Angle	
Footage	Reading	Corrected
111.9m	65°	59°

Hole No. _____ Sheet No. 1
Section _____
Date Begun Sept.16,1986
Date Finished Sept.18,1986
Date Logged _____

Lat. 2240.29
Dep. 12380.22
Bearing 320° (-62°)
Elev. Collar 1805.23m

Total Depth 111.9m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
0	18.3		CASING								
18.3	20.4	10	CAVE								
20.4	48.2	80	DACITE - buff - epidote strs and patches 2 cm cherty frags - badly broken to 29.6m Qtz-pink feldspar vlts @ 20-40° to core @ 40.8 and 42.1m - Num chlor slips 5% py								
48.2	49.1	90	ANDESITE - medium grey-green - gradational upper contact - prominent 0.5-1cm px phenos								
49.1	55.5	90	DACITE - buff - brecciated - original cherty fragmental texture evident - andesite incl 53.8-54.3m								
55.5	65.2	85	DACITE - intensely sheared - soft ground Some white qtz-carb 5cm sections - Shearing parallel to core								
65.2	71.3	90	DACITE - as previous - buff - Num qtz-carb strs @ 40° to core - andesite with px phenos 69.2-70m - epidote alt'n 5% dissem py - sections closely resemble QSP Alt'n zones								
71.3	74.4	85	SILICIFIED ZONE - lt grey - intense silicification with white Qv - 0.3m @ 73.3m - 5-10% finely dissem py	23904 23905 23906	71.32-73.15 73.15-73.45 73.45-74.36		1.83 0.30 0.91		0.001 0.001 0.001	0.01 0.01 0.01	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-20

DIP TEST		
	Angle	
Footage	Reading	Corrected

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

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
74.4	77.7	90	ANDESITE - fg lt green - no obvious px phenos - num pink qtz-carb (zeolite?) strs - epidote alt'n								
77.7	94.2	90	DACITE - as previous but with more 0.5-1cm dk grey qtz strs @ 45-60° to core - some cut by qtz-carb vlts @ 30° to core- Bx zone @ 78m - qtz vlts more numerous down section to 1/2cm - epidote alt'n apparent - locally apple green colour- Qtz vlts are grey and banded - at least 2 stages of grey Qv which are cut by white Qv - 5-10% sulfides in matrix and Qtz vlts.								
94.2	98.2	90	SILICIFIED ZONE - lt grey to white - Num qtz strs cut by 0.5-1cm white Qv's with 5-10% py - 0.24m Qv @ 95.6m @ 45° to core - section is moderately broken with shear at end @ 30° to core	23907	94.2	4-95	.15	0.91	0.001	0.01	
				23908	95.1	5-96	.06	0.91	0.001	0.04	
				23909	96.0	6-96	.97	0.91	0.031	0.05	
				23910	96.9	7-98	.22	1.25	0.050	0.23	
98.2	104.5	90	QTZ-(CARBONATE) VEIN - upper and lower contacts 40-45° to core - competent wallrocks - qtz content 85% - vuggy, white - wallrock incl 99.7-100.6; 103.6-104.4m - 5-10% finely dissem py - some cp and sphalerite, particularly 102.7-103.3 - includes bornite?	23911	98.2	2-98	.83	0.61	0.020	0.05	
				23912	98.8	3-99	.44	0.61	0.069	0.33	
				23913	99.4	4-100	.05	0.61	0.063	0.18	
				23914	100.0	5-100	.66	0.61	0.029	0.12	
				23915	100.6	6-101	.27	0.61	0.006	0.05	
				23916	101.2	7-101	.88	0.61	0.007	0.05	
				23917	101.8	8-102	.49	0.61	0.012	0.12	
				23918	102.4	9-103	.10	0.61	0.229	1.63	
				23919	103.1	0-103	.71	0.61	0.251	0.66	
				23920	103.7	1-104	.53	0.82	0.013	0.13	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-20

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 3
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
104.5	111.9	90	DACITE - QTZ-Sericite-Pyrite Alt'n Zone								
			(QSP) - Num 0.25-0.5cm qtz vlts -	23921	104.53	-105.44	0.91		0.019	0.07	
			5-10% dissem py in silicified matrix	23922	105.44	-106.96	1.52		0.005	0.06	
				23923	106.96	-108.48	1.52		0.001	0.05	
				23924	108.48	-110.00	1.52		0.013	0.06	
				23925	110.00	-111.82	1.82		0.003	0.05	
			END OF HOLE								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-21

DIP TEST		
	Angle	
Footage	Reading	Corrected
142.3m	68°	63°

Hole No. _____ Sheet No. 1
Section _____
Date Begun Sept.18,1986
Date Finished Sept.20,1986
Date Logged _____

Lat. 2247.5 *
Dep. 12406.0 *
Bearing 320° (-65°)
Elev. Collar 1813.5m *

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

* Not Surveyed

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE				
0	24.4		CASING -								
24.4	26.2	85	DACITE - QTZ-Sericite-Pyrite Alt'n (QSP) silicified - white to grey - badly broken and gouge @ 24.4-23.0m								
26.2	31.9	90	ANDESITE - Px phenos - 0.25-0.50cm - in medium green matrix - sharp contact with previous - gradational with following								
31.9	35.7	90	DACITE - silicified andesite - occ px phenos obvious in buff matrix - 5% py								
35.7	38.7	90	ANDESITE - as previous - epidote alt'n								
38.7	46.3	90	DACITE - occ qtz vlts with py (5%) and silicified areas - alt'n of andesite								
46.3	60.8	90	ANDESITE - initial section badly broken to 53.9m - occ sections alt'd to dacite Epidote alt'n and carb strs								
60.8	86.0	90	DACITE - QSP Alt'n - num qtz vlts and strs @ 40° to core - bx sections - Gouge 63.7-64.6m - Qtz strs cut and offset by white to pink qtz-carb vlts - Qtz veins sheared and banded @ 20° to core - Pink qtz-feldspar sections - epidote alt'n - original andesite visible @ 73m - Sheared and bx sections 76.8-77.4m Gradational with following								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-21

DIP TEST		
	Angle	
Footage	Reading	Corrected

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

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
86.0	92.0	90	DACITE - QSP Alt'n - buff matrix - Num 0.25-0.5cm qtz strs - 1/2cm - 3 stages of grey banded qtz vlts which are cut by white qtz strs - Bx and gouge 89.6-90.5m	23926	90.5	3-92	.05 1.52		0.014	0.06
92.0	93.1	90	QUARTZ VEIN - upper and lower contacts @ 70° - 5% finely dissem py	23927	92.0	5-93	.12 1.07		0.001	0.01
93.1	102.4	90	DACITE - QSP Alt'n - as previous - badly sheared 94.8-96.9m - ang. bx frags 99-100.8m - includes ang banded grey qtz fragments - poor recovery in gouge sections	23928	93.1	2-94	.80 1.68		0.019	0.13
102.4	107.6	90	ANDESITE - DACITE - green with brownish tinge - Num hairline epidote strs - No qtz strs - 5% dissem py							
107.6	120.4	90	DACITE - QSP Alt'n - num qtz strs @ 70° to core as previous - qtz-feldspar patches and abundant epidote alt'n in matrix - Qtz veining increases down section	23929	118.8	7-120	.39 1.52		0.006	0.06
120.4	121.0	90	QUARTZ VEIN - minor carb in frs only 3% dissem py - sharp tight contacts @ 60° to core	23930	120.3	9-121	.00 0.61		0.001	0.03
121.0	130.0	90	DACITE - as previous - epidote alt'n - num qtz vlts and silicified areas -	23931	121.0	0-122	.52 1.52		0.003	0.06
			Silicified dk grey 1cm fault @ 129.5m 5-10% dissem py	23932	128.3	2-129	.97 1.65		0.009	0.07

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-21

DIP TEST		
	Angle	
Footage	Reading	Corrected

Hole No. _____ Sheet No. 3
Section _____
Date Begun _____
Date Finished _____
Date Logged _____

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY		DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
130.0	131.4		90	QUARTZ VEIN - white - sharp, healed	23933	129.97	130.67	0.70		0.181	0.11
				contacts @ 45° to core- dissem and patchy	23934	130.67	131.37	0.70		0.063	0.07
				py to 5% - minor cp							
131.4	134.4		90	DACITE - QTZ VEINS - num grey to white	23935	131.37	132.34	0.67		0.013	0.06
				dacite inclusions with qtz strs cut by	23936	132.34	132.98	0.64		0.012	0.06
				3cm white qtz vein @ 60° to core -	23937	132.98	134.72	1.74		0.006	0.04
				bx zone - tight - 5-10% dissem py							
134.4	142.3		90	DACITE - QSP Alt'n - grey to white as							
				previous - no epidote alt'n - num 0.25cm	23938	134.72	135.63	0.91		0.003	0.02
				qtz strs @ 70° to core - 0.3m late	23939	135.63	136.54	0.91		0.002	0.05
				white qtz veins @ 138.4 and 139.9m							
				Patchy qtz and strs to end of hole -							
				5% dissem py							
				END OF HOLE							

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-22

DIP TEST		
	Angle	
Footage	Reading	Corrected
118m	69°	64°

Hole No. _____ Sheet No. 1
Section _____
Date Begun Sept.20,1986
Date Finished Sept.22,1986
Date Logged _____

Lat. 2213.0*
Dep. 12324.0*
Bearing 330° (-65°)
Elev. Collar 1777.6m*

Total Depth 118.0m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

* Not Surveyed

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
0	12.2		CASING								
12.2	37.6	90	ANDESITE - uniform medium green colour- Occ 0.25cm px phenos - some epidote alt'n and carb strs - badly broken with gouge zones								
37.6	48.3	90	DACITE - apple green epidote alt'n - Num qtz-carb and qtz-feldspar strs- - brownish tinge 41-45m								
48.3	57.0	90	ANDESITE - medium green - no obvious ppy texture - mislatch @ 51m - gradational in part to dacite								
57.0	61.8	90	DACITE - buff to lt brown to green - - abundant py on frs -5%- 15 cm broken zone at end of section	23940	61.20	-61.81	0.61		0.003	0.18	
61.8	62.3	90	QTZ VEIN - first 15 cm is white, dense, last section with dissem to streaky sulfides - mainly py but also some cp- Minor green wallrock inclusions - - lower contact @ 60° to core	23941	61.81	-62.33	0.52		0.007	0.24	
62.3	72.8	90	DACITE - lt green with brownish tinge 5 cm qtz bx @ 70m; 0.6m qtz-carb-feldspar - pyrite vein @ 71.9m - streaky epidote alt'n	23942	62.33	-62.94	0.61		0.006	0.13	

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-22

DIP TEST		
	Angle	
Footage	Reading	Corrected

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

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

Total Depth _____
Logged By _____
Claim _____
Core Size _____

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au	Ag	
72.8	74.7	90	ANDESITE - medium green - no ppy texture								
			2cm Qv @40° to core - banded - epidote alt'n								
			5% dissem py								
74.7	80.2	90	DACITE - finely flow banded @ 40° - cherty								
			sections - alternating buff to lt green								
			- abundant sulfides -5%- on frs								
80.2	85.0	90	DACITE - brownish tinge - carb alt'n -								
			mainly pale green with some vestiges of								
			banding - py strs (5%) @ 40° to core								
85.0	93.0	90	DACITE - QTZ-SERICITE (CARBONATE)-PYRITE								
			Alt'n (QSP) - lt grey - qtz vlts-1cm-								
			@ 40° to core - gouge sections @ 86.6								
			and 90.8m - last 0.9m moderately broken								
			and gouged								
93.0	94.1	90	DACITE - QTZ VEIN - 40% white qtz with								
			carbonate - wallrock sections brecciated								
			and gouge - Qv contacts @ 45° to core-	23943	92.96	94.12	1.16		0.010	0.06	
			- green mica noted								
94.1	114.6	90	QUARTZ (CARBONATE) VEIN - sharp upper	23944	94.12	94.73	0.61		0.012	0.01	
			contact @ 45° to core - 5% dissem py	23945	94.73	95.34	0.61		0.027	0.07	
			except for last 18m where total py	23946	95.34	95.95	0.61		0.006	0.01	
			content is up to 10% - fr filling in	23947	95.95	96.56	0.61		0.001	0.01	
			addition to dissem.	23948	96.56	97.17	0.61		0.001	0.01	
			- to 97m, carb in clots - up to 15%-	23949	97.17	97.78	0.61		0.001	0.01	
			in vuggy qtz - 95.7-96.6m- dissem py	23950	97.78	98.39	0.61		0.001	0.01	
			and bluish grey streaks - minor cp								

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE **HOLE No.** M-86-22

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	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)	
			QUARTZ (CARBONATE) VEIN (Cont'd) -	20851	98.39	99.00	0.61		0.001	0.01	
			97.1-100.1m - grey streaks initial 0.3m,	20852	99.00	99.61	0.61		0.001	0.01	
			also @ 99.4m - 100.1-103.3m mainly dense	20853	99.61	100.22	0.61		0.001	0.01	
			white qtz with minor dissem py - no grey	20854	100.22	100.83	0.61		0.006	0.01	
			minerals - 103.3-106.3m- carb clots as	20855	100.83	101.44	0.61		0.011	0.01	
			previous - bluish grey mineral?	20856	101.44	102.05	0.61		0.003	0.01	
			106.3-109.4m- greyish cast-drusy qtz and	20857	102.05	102.66	0.61		1.301	0.01	
			carb lined vugs - broken	20858	102.66	103.27	0.61		0.002	0.01	
			109.4-112.4- incresing py content -	20859	103.27	103.88	0.61		0.001	0.01	
			mainly on frs - broken-	20860	103.88	104.49	0.61		0.001	0.01	
			112.4-114.6- drusy cavities as previous-	20861	104.49	105.10	0.61		0.001	0.01	
			some grey minerals - sphalerite,galena?	20862	105.10	105.71	0.61		0.006	0.01	
			- abindant py (cp?) on frs	20863	105.71	106.32	0.61		0.007	0.01	
				20864	106.32	106.93	0.61		0.001	0.01	
				20865	106.93	107.54	0.61		0.001	0.01	
				20866	107.54	108.15	0.61		0.001	0.01	
				20867	108.15	108.76	0.61		0.001	0.01	
				20868	108.76	109.37	0.61		0.001	0.01	
				20869	109.37	109.98	0.61		0.001	0.01	
				20870	109.98	110.59	0.61		0.001	0.01	
				20871	110.59	111.20	0.61		0.001	0.01	
				20872	111.20	111.81	0.61		0.003	0.01	
				20873	111.81	112.42	0.61		0.006	0.01	
				20874	112.42	113.03	0.61		0.001	0.01	
				20875	113.03	113.64	0.61		0.016	0.01	
				20876	113.64	114.25	0.61		0.005	0.01	
114.6	118.0	90	DACITE - QSP Alt'n - broken at contact	20877	114.25	114.62	0.37		0.006	0.01	
			and to 115.8m - 0.3m shear zone @ 45°								
			@ 116.7m and 0.15m shear @ 117.6m-	20878	114.62	115.53	0.91		0.018	0.01	
			5-10% py - only a few qtz strs	20879	115.53	116.44	0.91		0.021	0.01	
				20880	116.44	117.05	0.91		0.012	0.02	

END OF HOLE

DIAMOND DRILL RECORD

PROPERTY CHAPPELLE

HOLE No. M-86-23

DIP TEST		
	Angle	
Footage	Reading	Corrected
44.2m	50°	43°

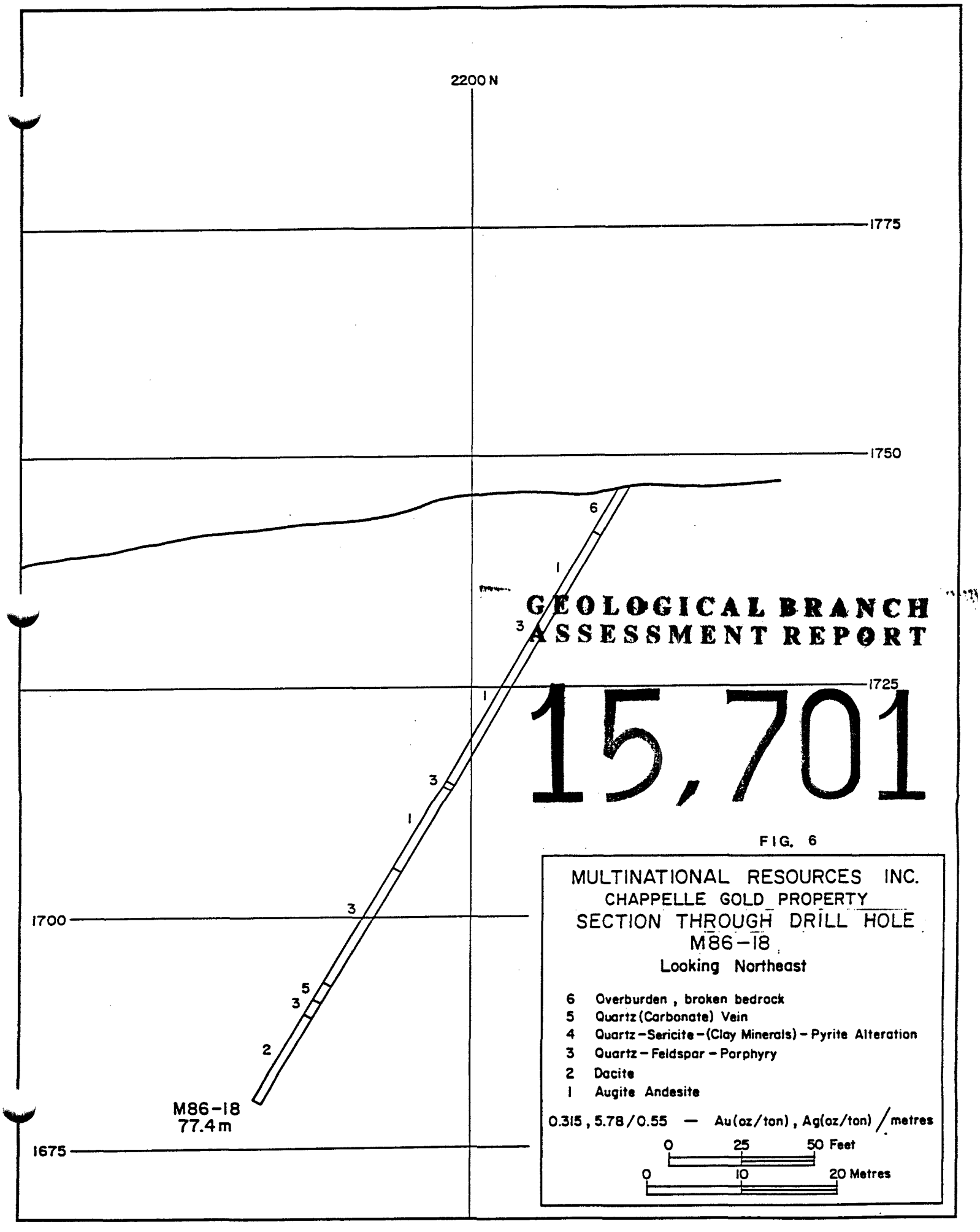
Hole No. _____ Sheet No. 1
Section _____
Date Begun Sept.22,1986
Date Finished Sept.22,1986
Date Logged _____

Lat. 2210.13
Dep. 12303.89
Bearing 320° (-45°)
Elev. Collar 1770.09m

Total Depth 44.2m
Logged By NCC
Claim Mining Lease 13
Core Size NQ

DEPTH FROM	DEPTH TO	RECOVERY	DESCRIPTION	SAMPLE No.	FROM	TO	WIDTH OF SAMPLE		Au (oz/t)	Ag (oz/t)
0	15.8		CASING							
15.8	24.7	85	DACITE - lt brown to apple green colour- epidote alt'n - badly broken to 21.6m 5cm Qv @ 21.5m - qtz-carb-feldspar strs @ 30° to core - 5% dissem py							
24.7	25.3	90	ANDESITE - uniform grey-green colour							
25.3	33.2	90	DACITE - occ 0.25cm px phenos - alt'd andesite - 0.3m sections green andesite @ 28.7m - gouge @ 31.4m							
33.2	35.1	90	DACITE - QTZ - SERICITE (CARBONATE)-PY Alt'n -(QSP) - grey - num white Qv - 5-12cm @ 45° to core - 5% py in seams parallel to vein walls - gouge 33.8-34.3m	20881	33.22	34.13	0.91		0.029	0.24
				20882	34.13	35.11	0.98		0.036	0.22
35.1	40.2	80	QUARTZ (CARBONATE) VEIN - upper contact @ 45° to core - initial section has 1cm carb clots and drusy qtz xl lined vugs to 0.5cm - abundant sulfides to 20% - 36.6-37.8m - py,cp and grey minerals- 10% sulfides incl py and cp to end of section - NOTE - 0.6m core lost at end of section	20883	35.11	35.72	0.61		0.095	0.22
				20884	35.72	36.33	0.61		0.042	0.09
				20885	36.33	36.94	0.61		3.885	23.77
				20886	36.94	37.55	0.61		4.317	46.38
				20887	37.55	38.16	0.61		1.175	3.49
				20888	38.16	38.77	0.61		1.228	11.96
				20889	38.77	39.38	0.61		3.138	76.71
				20890	39.38	40.23	0.85		0.298	11.40
				20891	40.23	41.14	0.91		0.041	1.32
40.2	44.2	90	DACITE - QTZ VEINS - silicified with 0.15-0.3m qtz veins @ 45° to core - 5% dissem py to 43.3m	20892	41.14	42.05	0.91		0.006	0.18
				20893	42.05	42.96	0.91		0.007	0.20
				20894	42.96	44.18	1.22		0.002	0.07

END OF HOLE


2200 N
1775
1750
1725
1700
1675
6
1
3
1
3
1
3
5
3
2
M86-18
77.4m
GEOLOGICAL BRANCH
ASSESSMENT REPORT
15,701
FIG. 6
MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLE
M86-18
Looking Northeast
6 Overburden, broken bedrock
5 Quartz (Carbonate) Vein
4 Quartz-Sericite-(Clay Minerals)-Pyrite Alteration
3 Quartz-Feldspar-Porphyry
2 Dacite
1 Augite Andesite
0.315, 5.78/0.55 — Au(oz/ton), Ag(oz/ton) / metres
0 25 50 Feet
0 10 20 Metres

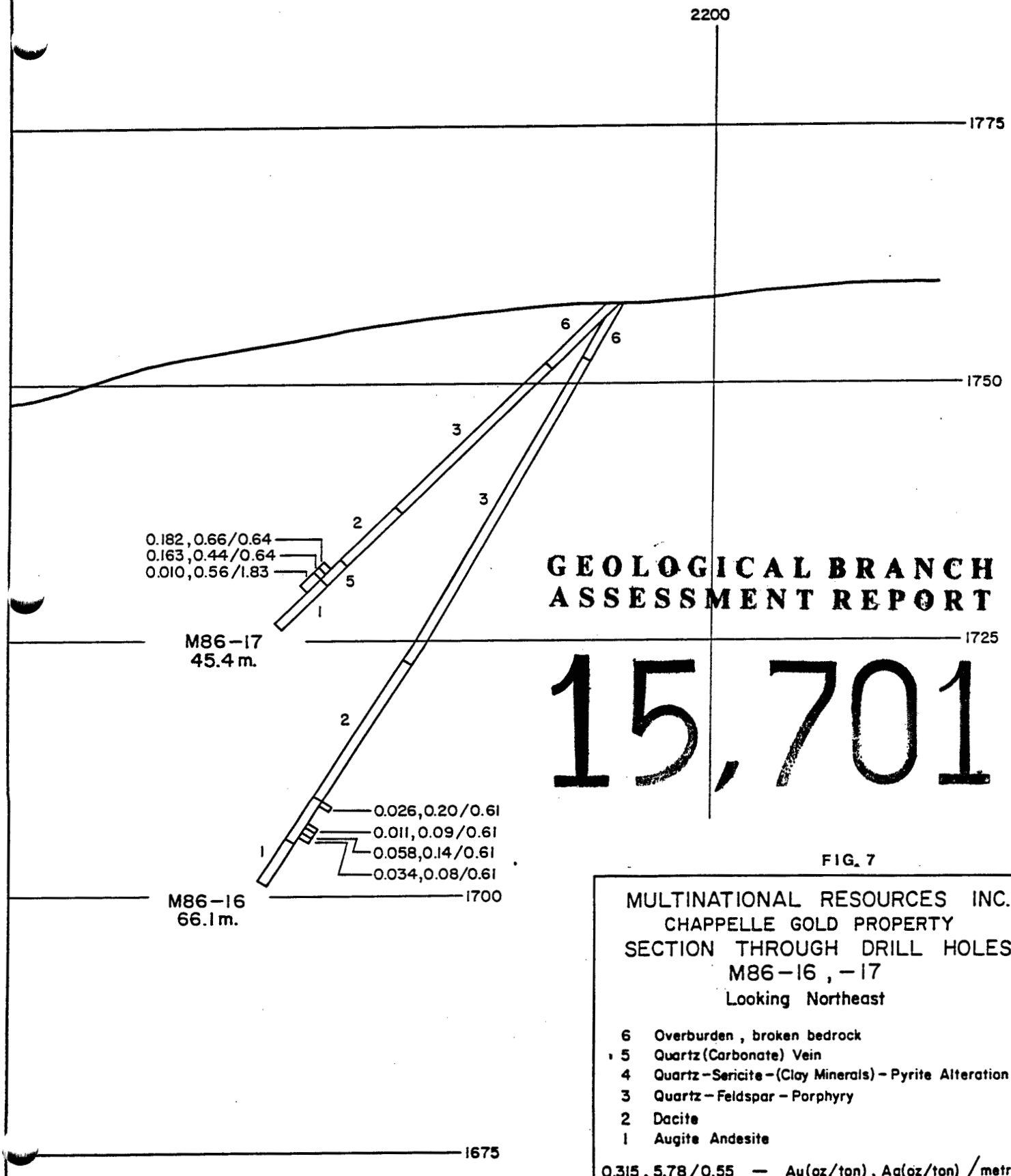


FIG. 7

MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
M86-16, -17
Looking Northeast

6 Overburden, broken bedrock
5 Quartz (Carbonate) Vein
4 Quartz-Sericite-(Clay Minerals)-Pyrite Alteration
3 Quartz-Feldspar-Porphyry
2 Dacite
1 Augite Andesite

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

0 25 50 Feet

0 10 20 Metres

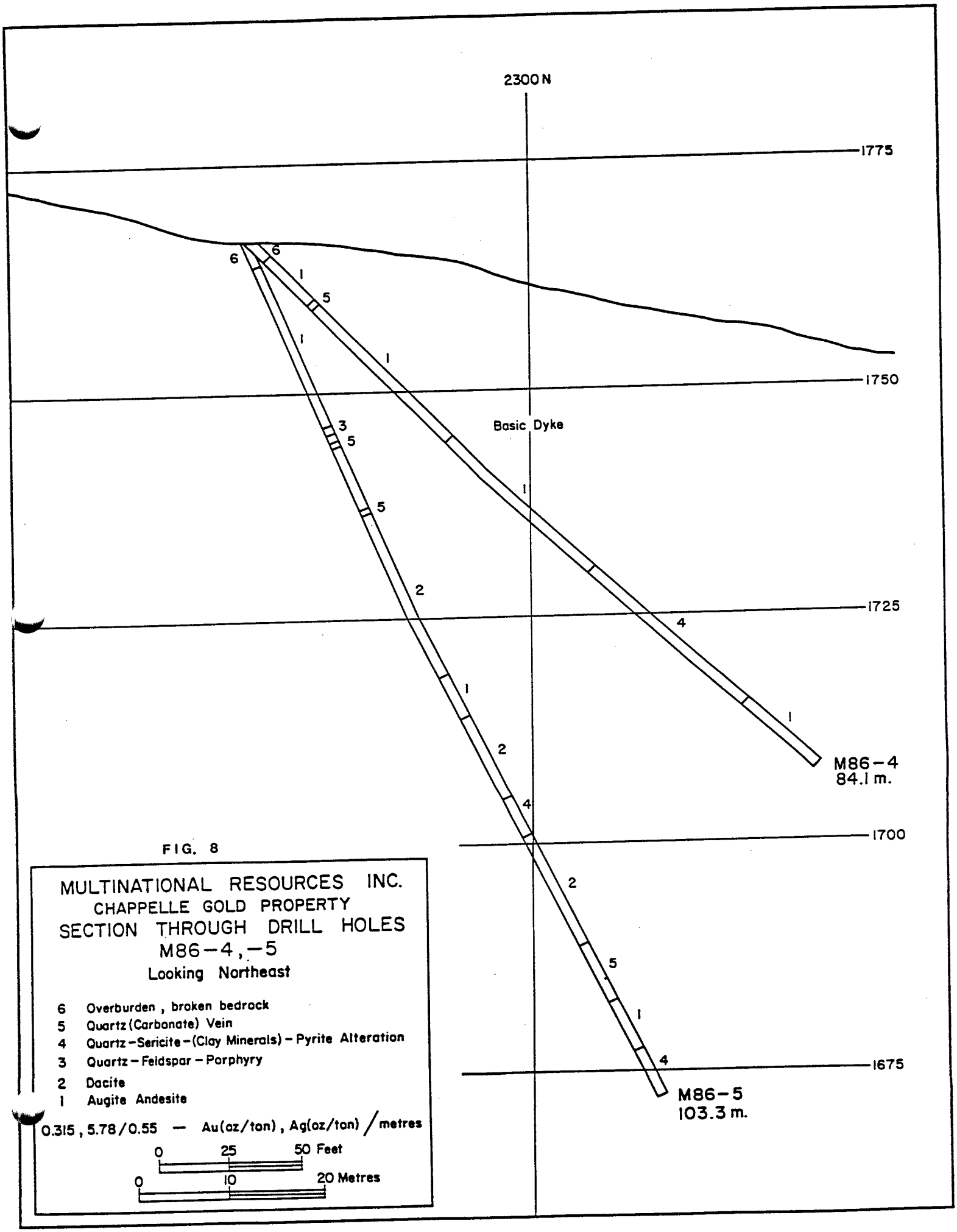


FIG. 8

MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
M86-4, -5
Looking Northeast

6 Overburden, broken bedrock
5 Quartz (Carbonate) Vein
4 Quartz-Sericite-(Clay Minerals)-Pyrite Alteration
3 Quartz-Feldspar-Porphyry
2 Dacite
1 Augite Andesite

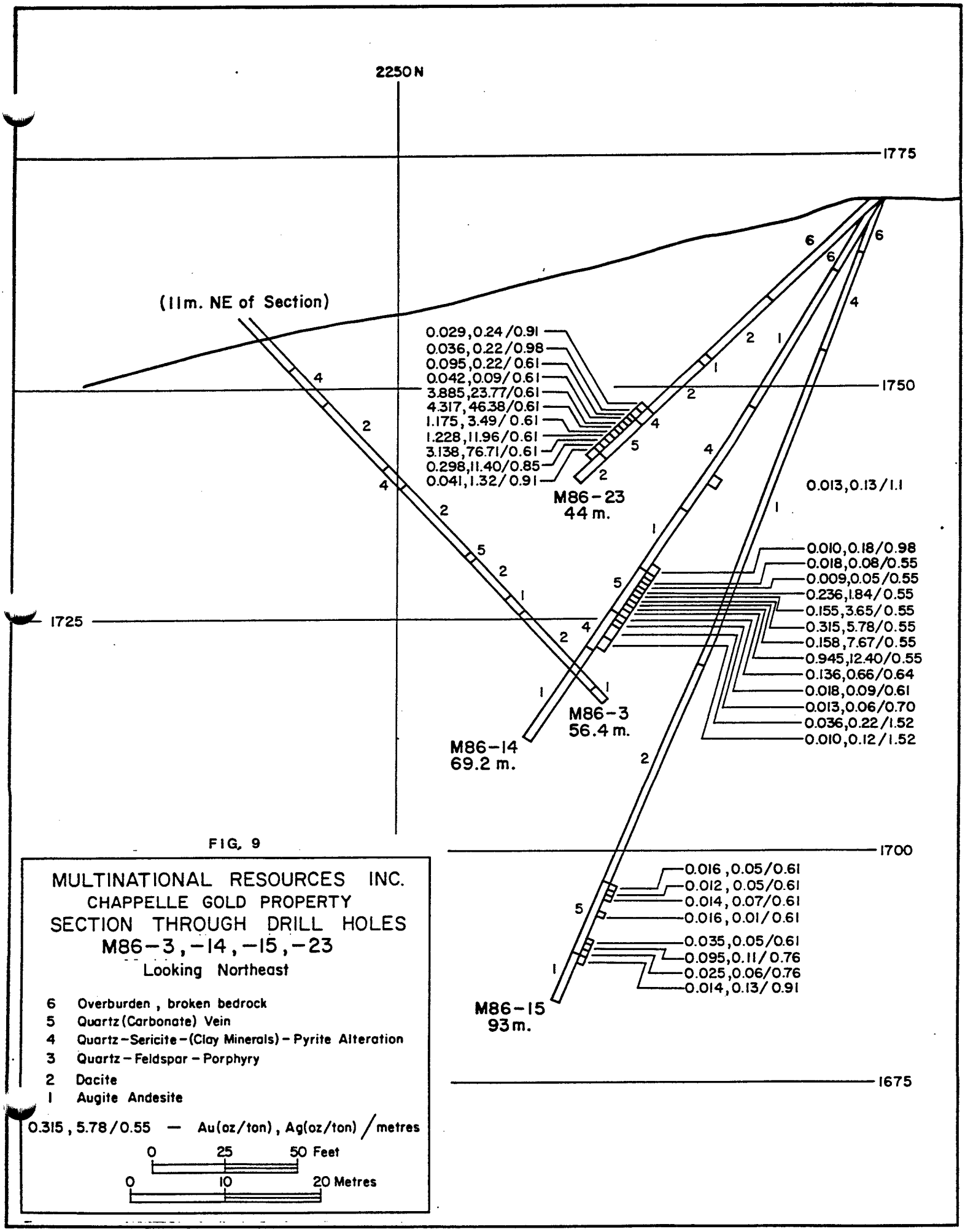

2250 N
1775
1750
1725
1700
1675
(11m. NE of Section)
0.029,0.24/0.91
0.036,0.22/0.98
0.095,0.22/0.61
0.042,0.09/0.61
3.885,23.77/0.61
4.317,46.38/0.61
1.175,3.49/0.61
1.228,11.96/0.61
3.138,76.71/0.61
0.298,11.40/0.85
0.041,1.32/0.91
M86-23
44 m.
0.013,0.13/1.1
0.010,0.18/0.98
0.018,0.08/0.55
0.009,0.05/0.55
0.236,1.84/0.55
0.155,3.65/0.55
0.315,5.78/0.55
0.158,7.67/0.55
0.945,12.40/0.55
0.136,0.66/0.64
0.018,0.09/0.61
0.013,0.06/0.70
0.036,0.22/1.52
0.010,0.12/1.52
M86-3
56.4 m.
M86-14
69.2 m.
0.016,0.05/0.61
0.012,0.05/0.61
0.014,0.07/0.61
0.016,0.01/0.61
0.035,0.05/0.61
0.095,0.11/0.76
0.025,0.06/0.76
0.014,0.13/0.91
M86-15
93m.
MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
M86-3, -14, -15, -23
Looking Northeast
6 Overburden, broken bedrock
5 Quartz (Carbonate) Vein
4 Quartz-Sericite-(Clay Minerals)-Pyrite Alteration
3 Quartz-Feldspar-Porphyry
2 Dacite
1 Augite Andesite
0.315, 5.78/0.55 — Au(oz/ton), Ag(oz/ton) / metres
0 25 50 Feet
0 10 20 Metres

FIG. 9

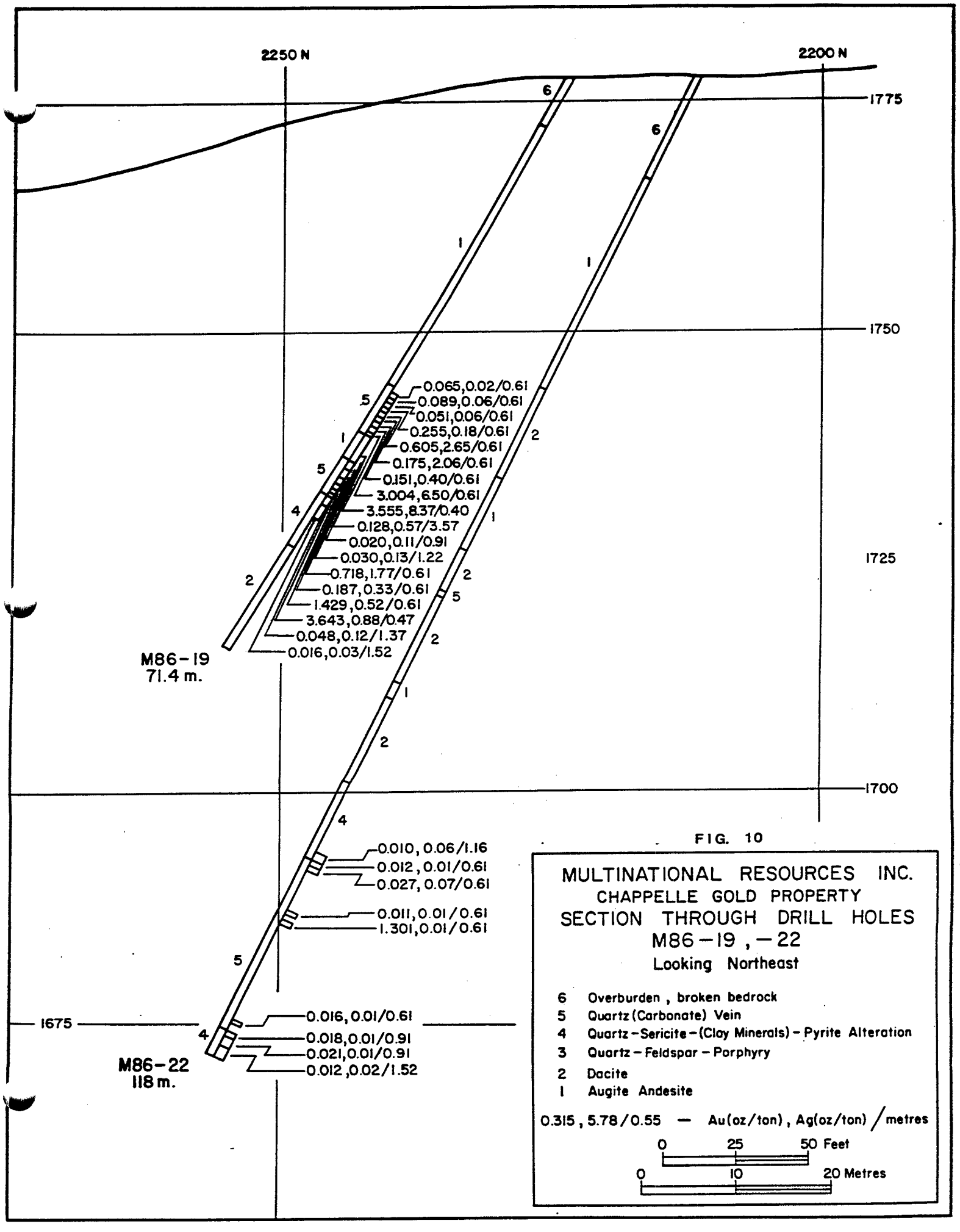
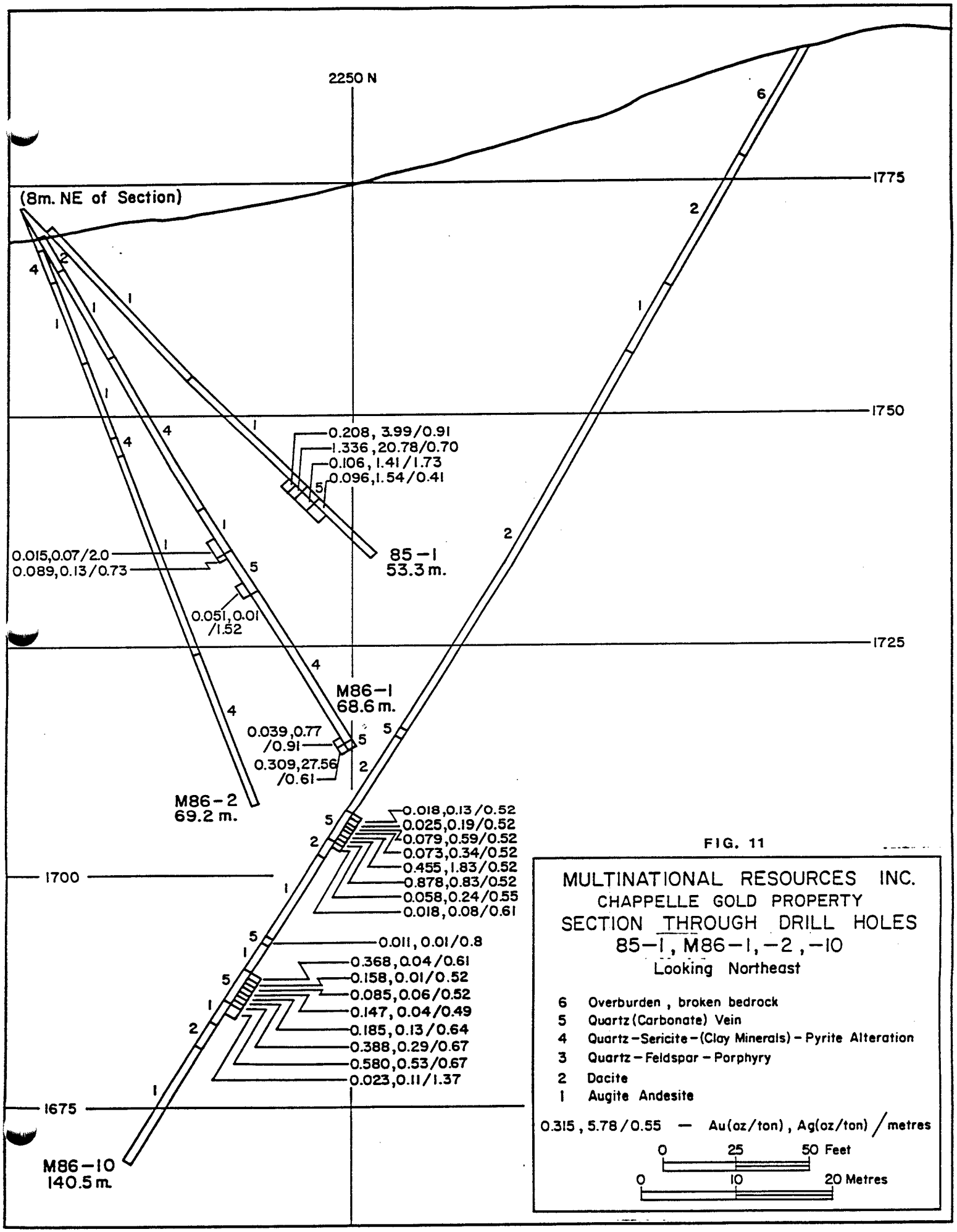

2250 N
2200 N
1775
1750
1725
1700
1675
6
1
5
4
2
3
0.065,0.02/0.61
0.089,0.06/0.61
0.051,0.06/0.61
0.255,0.18/0.61
0.605,2.65/0.61
0.175,2.06/0.61
0.151,0.40/0.61
3.004,6.50/0.61
3.555,8.37/0.40
0.128,0.57/3.57
0.020,0.11/0.91
0.030,0.13/1.22
0.718,1.77/0.61
0.187,0.33/0.61
1.429,0.52/0.61
3.643,0.88/0.47
0.048,0.12/1.37
0.016,0.03/1.52
M86-19
71.4 m.
0.010, 0.06/1.16
0.012, 0.01/0.61
0.027, 0.07/0.61
0.011, 0.01/0.61
1.301, 0.01/0.61
0.016, 0.01/0.61
0.018, 0.01/0.91
0.021, 0.01/0.91
0.012, 0.02/1.52
M86-22
118 m.
MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
M86-19, -22
Looking Northeast
6 Overburden, broken bedrock
5 Quartz (Carbonate) Vein
4 Quartz-Sericite-(Clay Minerals)-Pyrite Alteration
3 Quartz-Feldspar-Porphyry
2 Dacite
1 Augite Andesite
0.315, 5.78/0.55 — Au(oz/ton), Ag(oz/ton) / metres
0 25 50 Feet
0 10 20 Metres

FIG. 10


2250 N
1775
1750
1725
1700
1675
(8m. NE of Section)
0.208, 3.99/0.91
1.336, 20.78/0.70
0.106, 1.41/1.73
0.096, 1.54/0.41
85-1
53.3 m.
0.015, 0.07/2.0
0.089, 0.13/0.73
0.051, 0.01/1.52
M86-1
68.6 m.
0.039, 0.77/0.91
0.309, 27.56/0.61
M86-2
69.2 m.
0.018, 0.13/0.52
0.025, 0.19/0.52
0.079, 0.59/0.52
0.073, 0.34/0.52
0.455, 1.83/0.52
0.878, 0.83/0.52
0.058, 0.24/0.55
0.018, 0.08/0.61
0.011, 0.01/0.8
0.368, 0.04/0.61
0.158, 0.01/0.52
0.085, 0.06/0.52
0.147, 0.04/0.49
0.185, 0.13/0.64
0.388, 0.29/0.67
0.580, 0.53/0.67
0.023, 0.11/1.37
M86-10
140.5 m.
FIG. 11
MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
85-1, M86-1, -2, -10
Looking Northeast
6 Overburden, broken bedrock
5 Quartz (Carbonate) Vein
4 Quartz-Sericite-(Clay Minerals)-Pyrite Alteration
3 Quartz-Feldspar-Porphyry
2 Dacite
1 Augite Andesite
0.315, 5.78/0.55 — Au(oz/ton), Ag(oz/ton) / metres
0 25 50 Feet
0 10 20 Metres

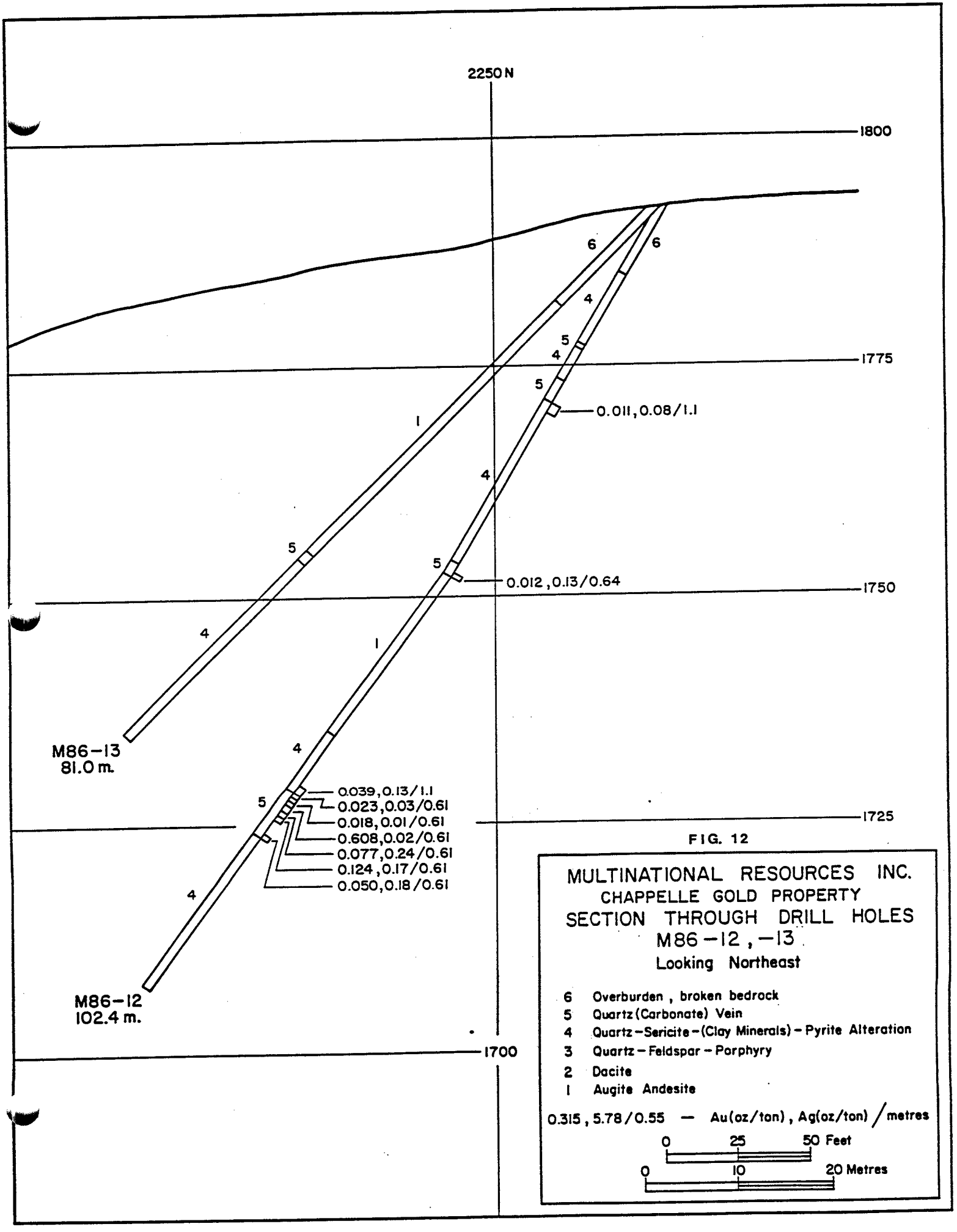

2250 N
1800
1775
1750
1725
1700
6
6
4
5
4
5
0.011, 0.08/1.1
1
4
5
5
0.012, 0.13/0.64
4
1
M86-13
81.0 m.
4
5
0.039, 0.13/1.1
0.023, 0.03/0.61
0.018, 0.01/0.61
0.608, 0.02/0.61
0.077, 0.24/0.61
0.124, 0.17/0.61
0.050, 0.18/0.61
4
M86-12
102.4 m.
MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
M86-12, -13
Looking Northeast
6 Overburden, broken bedrock
5 Quartz (Carbonate) Vein
4 Quartz-Sericite-(Clay Minerals)-Pyrite Alteration
3 Quartz-Feldspar-Porphyry
2 Dacite
1 Augite Andesite
0.315, 5.78/0.55 — Au(oz/ton), Ag(oz/ton) / metres
0 25 50 Feet
0 10 20 Metres

FIG. 12

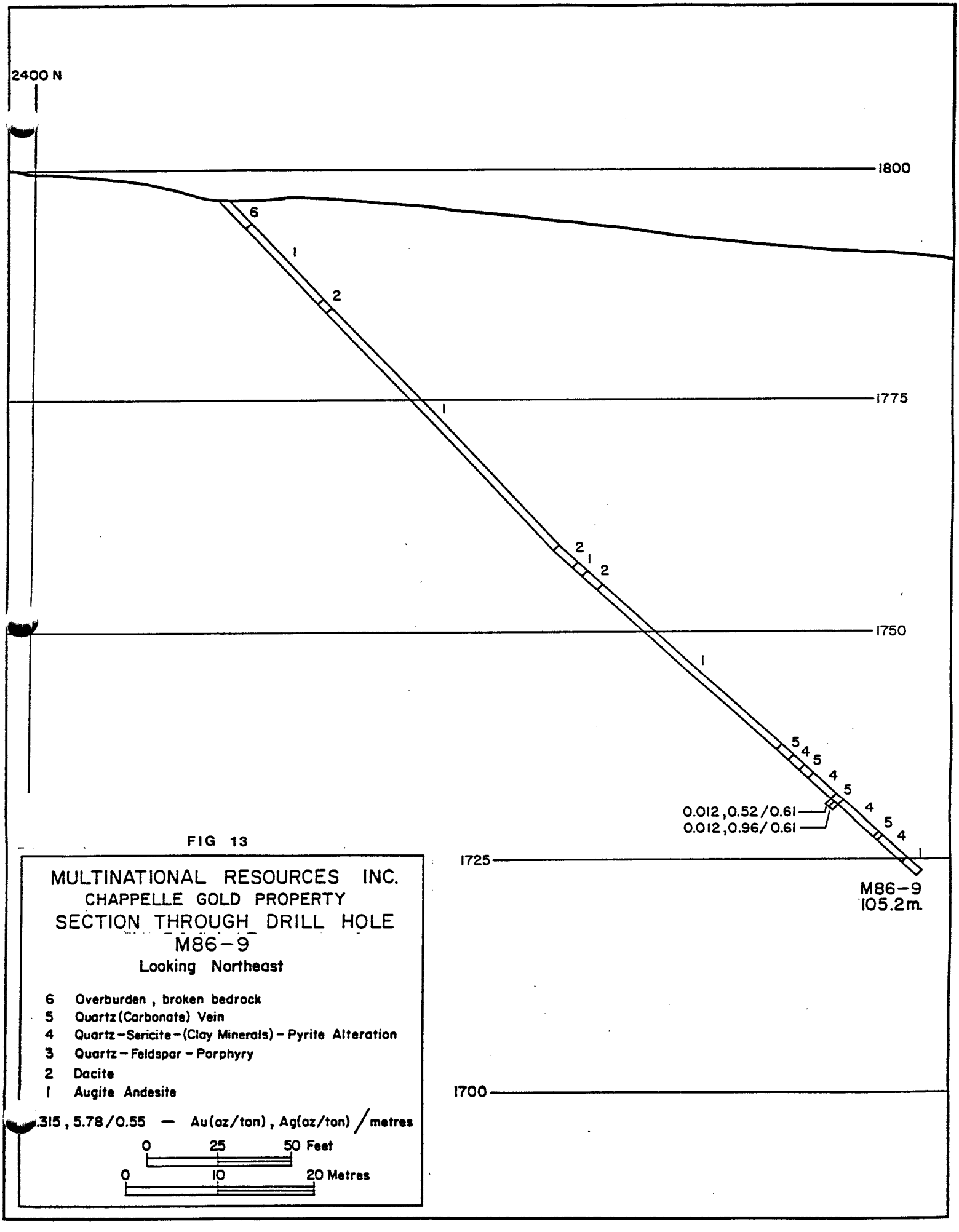


FIG 13

MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLE
M86-9
Looking Northeast

6 Overburden, broken bedrock
5 Quartz (Carbonate) Vein
4 Quartz-Sericite-(Clay Minerals)-Pyrite Alteration
3 Quartz-Feldspar-Porphyry
2 Dacite
1 Augite Andesite

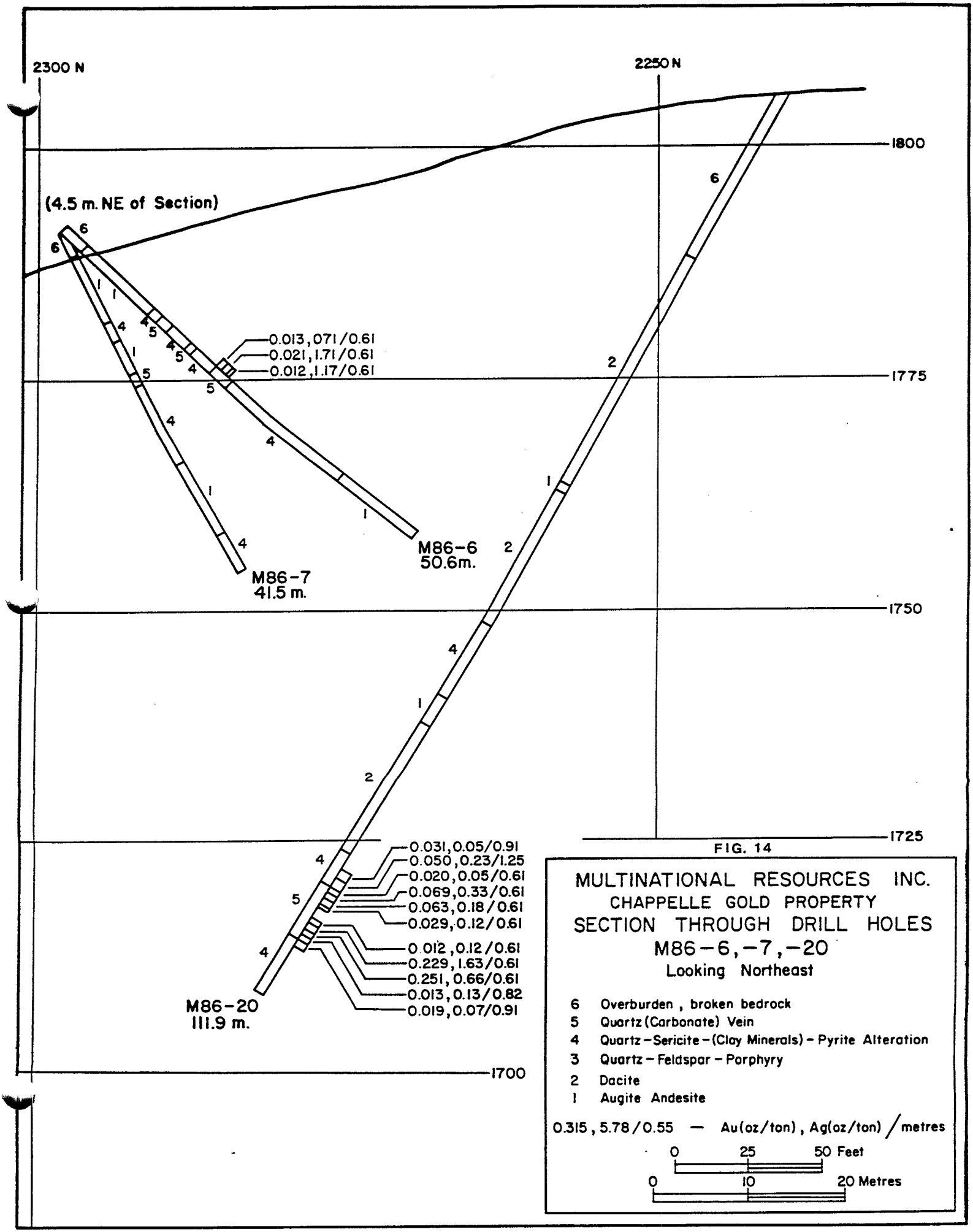

2300 N
2250 N
1800
1775
1750
1725
1700
(4.5 m. NE of Section)
0.013, 071/0.61
0.021, 1.71/0.61
0.012, 1.17/0.61
M86-6
50.6m.
M86-7
41.5 m.
0.031, 0.05/0.91
0.050, 0.23/1.25
0.020, 0.05/0.61
0.069, 0.33/0.61
0.063, 0.18/0.61
0.029, 0.12/0.61
0.012, 0.12/0.61
0.229, 1.63/0.61
0.251, 0.66/0.61
0.013, 0.13/0.82
0.019, 0.07/0.91
M86-20
111.9 m.
MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
M86-6, -7, -20
Looking Northeast
6 Overburden, broken bedrock
5 Quartz (Carbonate) Vein
4 Quartz-Sericite-(Clay Minerals)-Pyrite Alteration
3 Quartz-Feldspar-Porphyry
2 Dacite
1 Augite Andesite
0.315, 5.78/0.55 — Au(oz/ton), Ag(oz/ton) / metres
0 25 50 Feet
0 10 20 Metres

FIG. 14

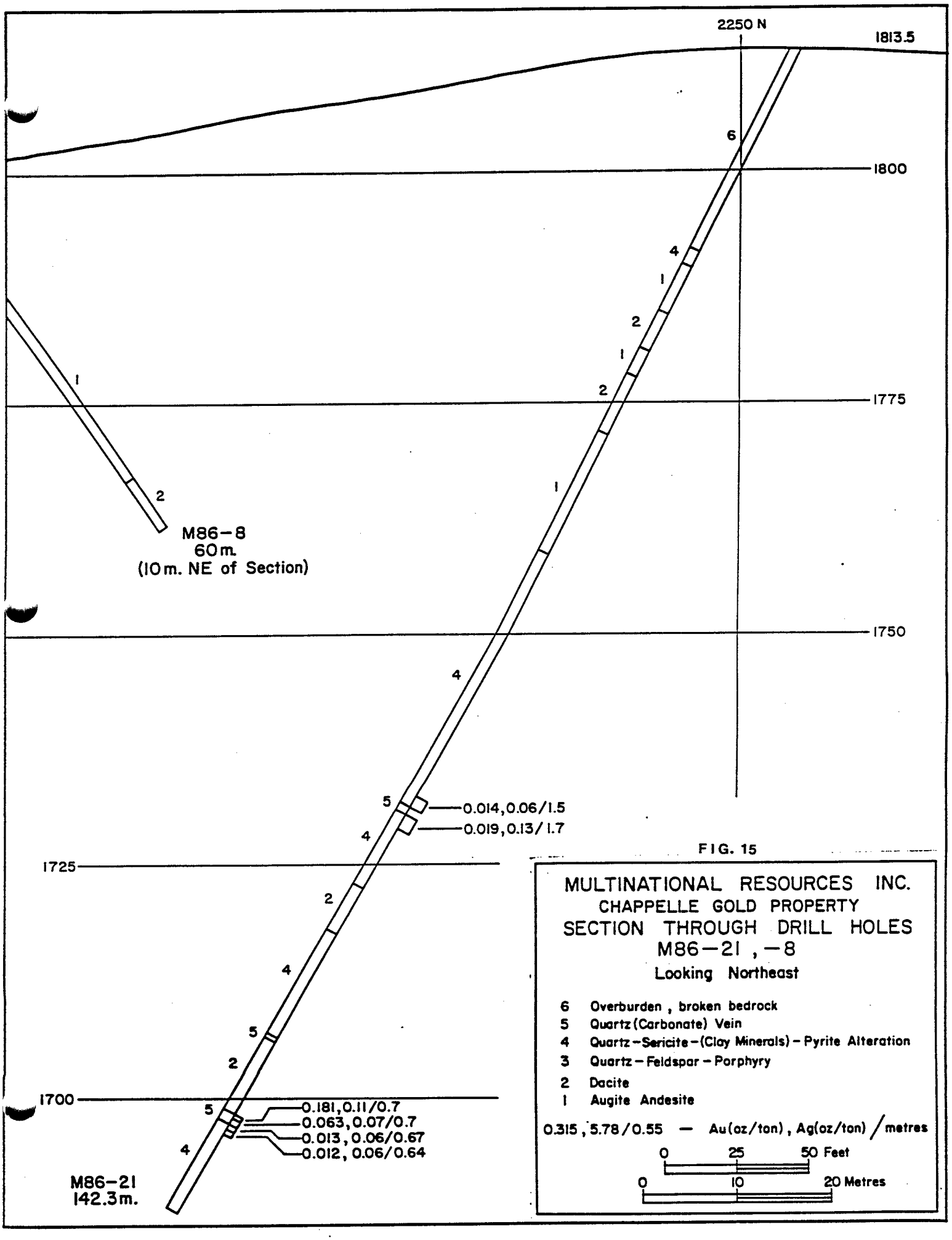

2250 N
1813.5
1800
1775
1750
1725
1700
6
4
1
2
1
2
1
2
1
4
5
4
2
4
5
2
5
4
0.014,0.06/1.5
0.019,0.13/1.7
0.181,0.11/0.7
0.063,0.07/0.7
0.013,0.06/0.67
0.012,0.06/0.64
M86-8
60m.
(10m. NE of Section)
M86-21
142.3m.
MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
SECTION THROUGH DRILL HOLES
M86-21, -8
Looking Northeast
6 Overburden, broken bedrock
5 Quartz (Carbonate) Vein
4 Quartz-Sericite-(Clay Minerals)-Pyrite Alteration
3 Quartz-Feldspar-Porphyry
2 Dacite
1 Augite Andesite
0.315, 5.78/0.55 — Au(oz/ton), Ag(oz/ton) / metres
0 25 50 Feet
0 10 20 Metres

FIG. 15

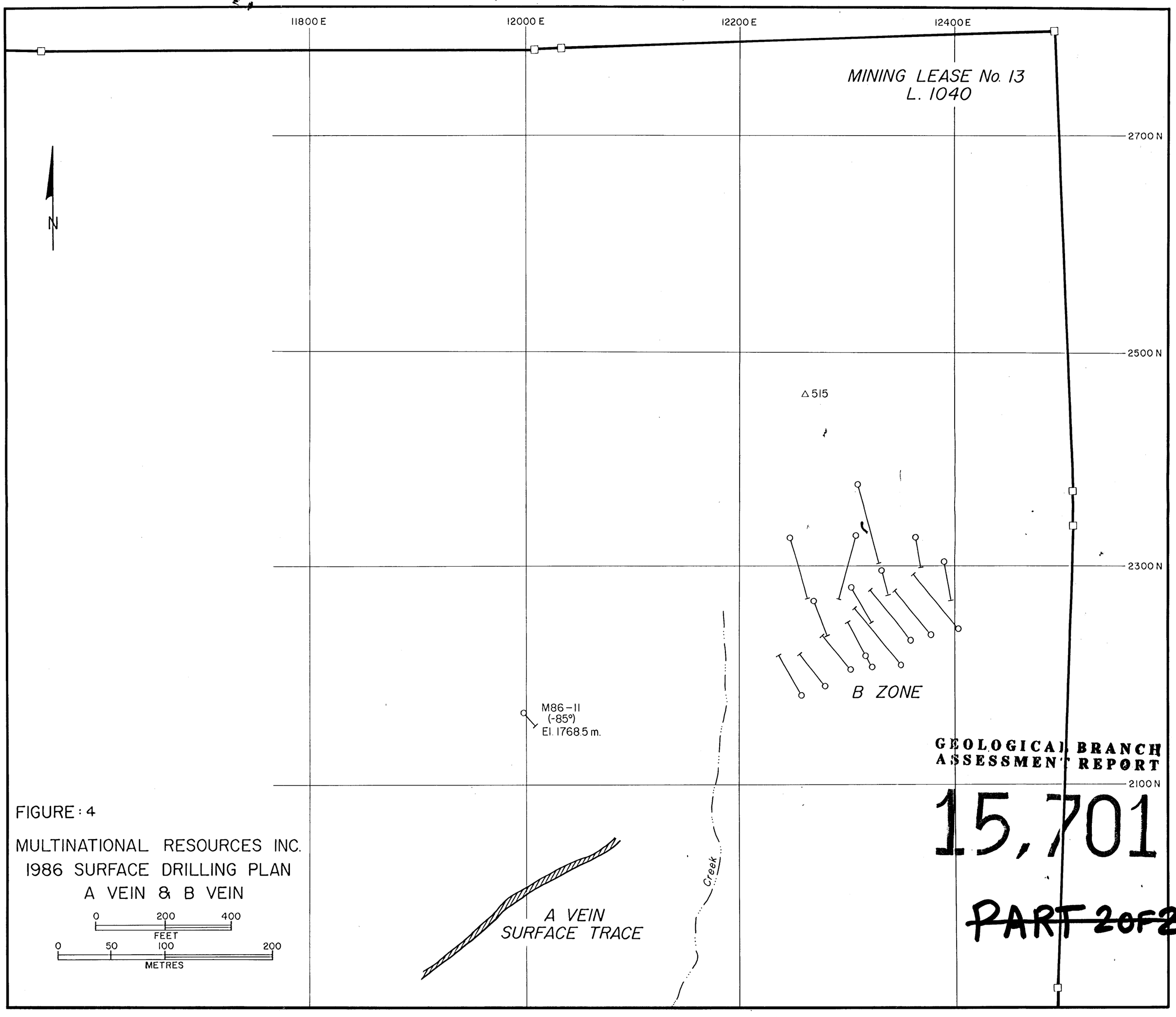
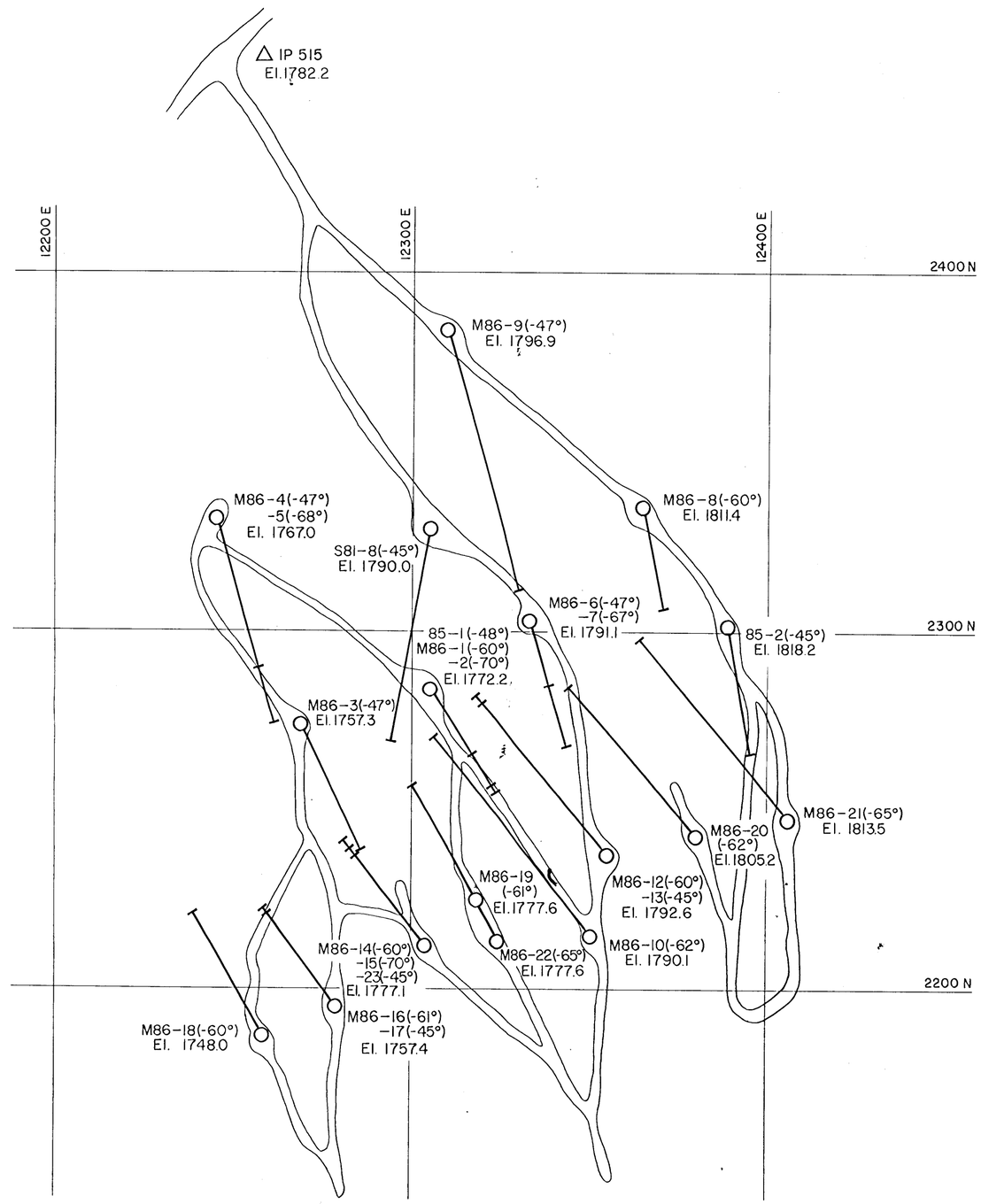


FIGURE: 4

MULTINATIONAL RESOURCES INC.
1986 SURFACE DRILLING PLAN
A VEIN & B VEIN



MULTINATIONAL RESOURCES INC.
CHAPPELLE GOLD PROPERTY
B-ZONE DIAMOND DRILL HOLE PLAN

0 100 200
FEET

0 25 50 100
METRES

GEOLOGICAL BRANCH
ASSESSMENT REPORT

15,701

~~PART 2 OF 2~~

FIGURE: 5