



## PROPERTY GEOLOGY

As illustrated in Map 1, the property is underlain by the economically favourable mafic volcanic stratigraphy of the lower part of the Tisdale Group. The important V8-V10B marker crosses the south part of the property.

Map 2 provides a more detailed geological map of the property based on mapping carried out in 1934. Both Map 1 and Map 2 provide an oversimplified picture of the structural geology of the property. While the rocks underlying the property overall strike in an easterly direction with steep dips and tops generally to the south, one day spent on the property by P.T. George indicated the presence of abundant secondary drag folding as evidenced by local reversals in top directions determined from pillow facings and flow top breccias.

Two major types of gold mineralization are known to occur on the property:

- 1) Quartz vein lodes containing free gold.
- 2) Sulphide bearing pyroclastic horizons locally containing fine free gold.

Within the Main Shaft area, at least three, subparallel quartz vein zones have been identified to a depth of 750 feet. The vein zones strike in a NNE direction and dip to the northwest at approximately 45 degrees. The projected surface trace and depth contours to the upper contact of the Upper Vein Zone are shown on Map 2.

Immediately to the north of the South Shaft stripping completed in 1983 has exposed a zone of cherty pyritic tuffs within mafic volcanic rocks. Grab samples (7) from this poorly exposed area returned 0.04 to 0.17 Au per ton.

The economic potential of the gold mineralization on the property is discussed in a following section of this report.

## PROPERTY, ECONOMIC POTENTIAL

The results of the 1983 exploration program when integrated with all available data for the property indicate that the potential exists for a major gold deposit on the property. In the second half of 1983 a major breakthrough was made in understanding the overall structural control of mineralization on the property, the breakthrough being the confirmation by drilling and underground mapping that the major vein zones on the property strike in a northeasterly direction and dip in a northwesterly direction at approximately 45 degrees. Previous exploration (1911-1982) has assumed that the major structures had an east-northeasterly strike direction and near vertical dip similar to the Hollinger-McIntyre-Coniaurum vein zones.

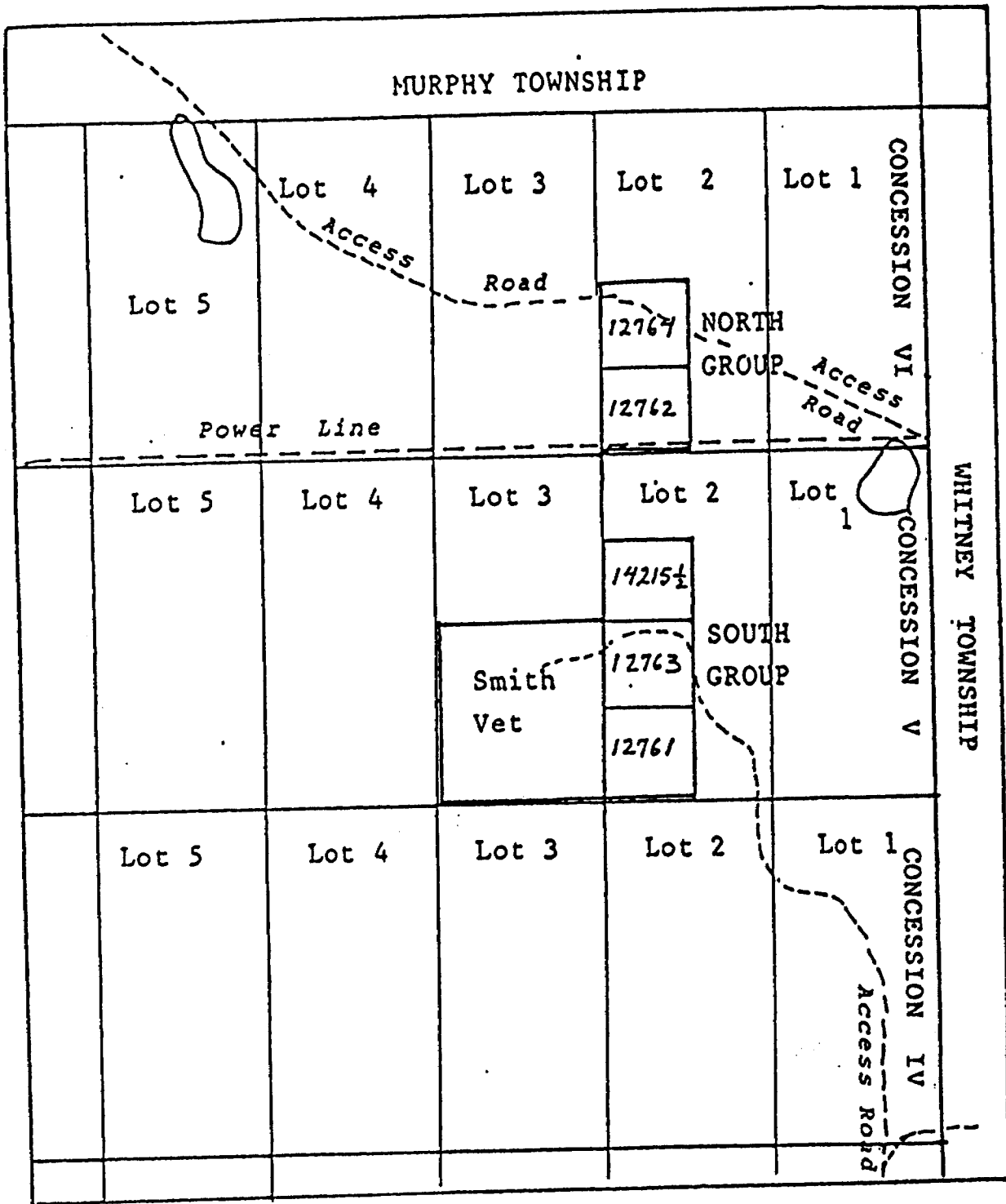
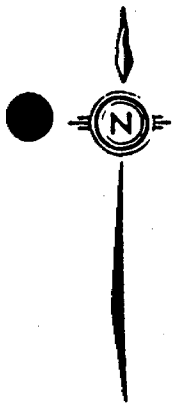
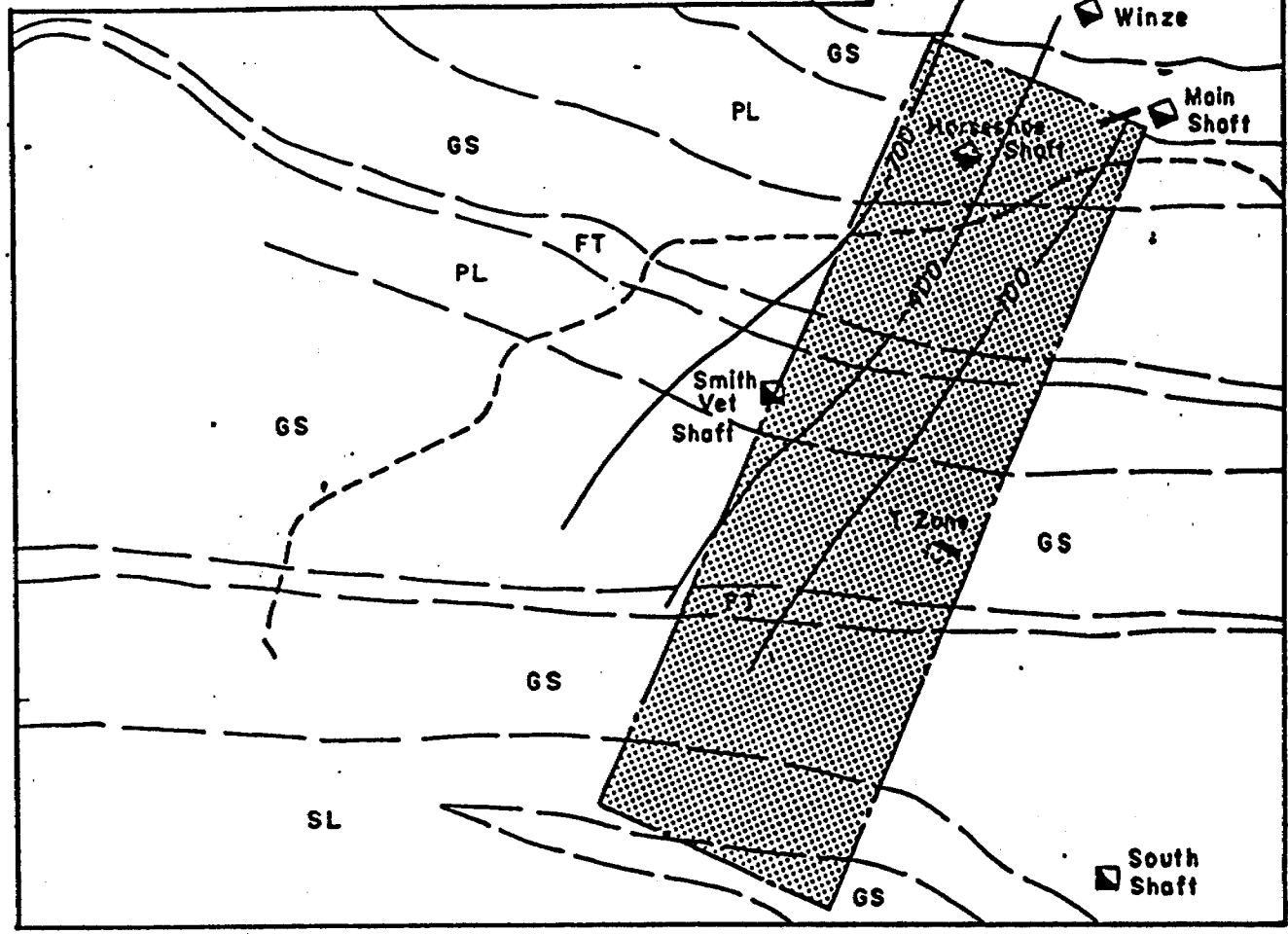




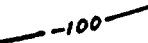
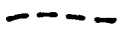

Figure 2: Northeast part of Tisdale Township, showing mining claims held by Davidson Tisdale Mines.  
 Scale: one-half mile to one inch.  
 From Ontario Claim Map M315 issued by the Porcupine Mining Division, October 19, 1982.  
 Access Roads sketched from Air Photographs A25363-27, -28, -29, Dept of Energy, Mines and Resources, Ottawa.




PL - PILLOW LAVA  
GS - GREENSTONE  
FT - FLOW TOP  
SL - SPHERULITIC PILLOW  
— QUARTZ VEINS



0 500 feet

-  GEOLOGICAL CONTACT
-  PROPOSED DRILL AREA
-  INFERRED DEPTH TO TOP OF NO. 1 VEIN ZONE
-  ROAD
-  SHAFT

TISDALE PROJECT.	
SOUTH CLAIM BLOCK	
DRAWN BY A.M.	DATE Feb. 1984
CHECKED BY NTS	DRAWING NO
	SCALE
 Getty Canadian Metals, Ltd.	

The northwesterly dipping attitude of the vein structures is compatible with the regional geology of Tisdale Township (See Map 1). The Davidson-Tisdale property is east of the northerly striking Burrows-Benedict Fault zone whereas the Hollinger-McIntyre-Coniaurum properties are west of the fault zone. Changes in bedding attitude and stratigraphy across the Burrows-Benedict Fault indicate that left lateral movement has occurred and that the east block has been rotated through approximately 45 degrees in a clockwise direction relative to the west block. On a regional scale the Davidson Tisdale vein zones can be interpreted to be the northeasterly strike extension of the Hollinger-McIntyre-Coniaurum vein zones.

Insufficient data is available to compute meaningful grade and tonnage figures at this point in time, however, compilation of all available drill hole and underground data on a series of working plans and sections indicates the presence of three, northwesterly dipping vein zones between the surface and 750 foot level. The vein zones vary in width from 10 to 60 feet with intercepts ranging in grade from trace to 0.92 oz Au per ton. The vein structure has not been thoroughly drill tested along strike to the southwest where a minimum of 2500 feet of untested strike potential exists. The zone has a minimum strike length of 400 feet where exposed on the 500 foot level and is open along strike to the southwest where one hole (Hole N) has intersected the zone at a vertical depth of 960 feet approximately 1500 feet southwest of the mine workings. The potential for additional parallel vein zones at depth has not been tested.

Given the widths of mineralized intercepts in the three known vein zones in the Main Shaft area, the potential exists to outline 3 to 5 million tons to a depth of 750 feet in each of the vein zones in an area 2500 feet by 1000 feet.

The erratic nature of gold mineralization within lode gold deposits makes it difficult to assess grade potential with diamond drilling. The available assay data indicates that the deposit should have a grade similar to that of the remainder of the Timmins Camp (0.29 oz. recovered Au per ton).

The authors would like to insure that all persons who are currently involved with the Davidson Tisdale property and those who may become involved in the decision making process in the future are very aware of the problems inherent in evaluating a lode gold deposit.

Because of the typical erratic distribution of free gold within quartz vein systems it is very difficult to obtain a representative sample of the zone by diamond drilling.

Roger (1981) succinctly summarizes the problem of evaluating a lode gold deposit by diamond drilling. The conclusions drawn from his paper "Diamond Drilling as an aid in ore definition at the Dome Mine" are summarized below and are based on 72 years of mining during which time over 22,000 holes (4,290,000 feet) have been drilled through the Dome ore body (average recovered grade 0.30 oz Au/ton):

- (1) Greater than 50% of drill footage within areas of the ore zone that were subsequently stoped returned assays less than 0.05 oz. Au per ton.
- (2) Grades calculated for a drill defined ore structure will understate the mined (diluted) grade by 60 to 400%.

The Dome experience will have to be taken into account when assessing the results of exploration drilling carried out on the property. Drilling will provide reliable information on the volume and tonnage of the vein structure present but will understate the grade, therefore, underground development in the form of drifts and raises will have to be undertaken to develop mineable reserves.

The primary objective of drilling on the Davidson Tisdale property will be to outline the geometry of the vein zones, to drill indicate the tonnage potential of the vein zones, and to establish the approximate gold content of the vein zones.

In addition to the quartz vein lode potential of the property, surface sampling completed in the fall of 1983 indicates the potential to develop significant reserves in gold bearing pyritic tuffs known to occur on the property. Grab samples taken from a poorly exposed zone of tuffs located in the south part of the property returned assays ranging from 0.04 to 0.17 oz. Au per ton. These tuff horizons are highly prospective, untested exploration targets.

### CONCLUSIONS

The Davidson Tisdale property has high potential for the discovery and development of a major gold deposit.

The Main Shaft vein zone is geologically very similar to the major, world class, vein type gold deposits of the Timmins Camp. A thorough evaluation of all available data indicates that the Main Shaft vein zone is open at depth and along strike.

The possibility is very real that 10 to 15 million tons of ore can ultimately be outlined in the Main Shaft vein zone to a depth of 1000 feet. Average recovered gold grade for the camp is 0.29 oz. Au per ton.

During the 1983 exploration program three zones of gold bearing, pyritic tuff were discovered on the property. These tuff horizons are totally unexplored and are highly prospective untested targets.

The property is located in the heart of one of the major gold producing areas in North America. The presence of a modern, mining oriented, socio-economic infrastructure within 2 miles of the property will keep capital and operating costs of any mine discovered very competitive and will reduce the time frame from production decision to actual production.

The acquisition of the Davidson Tisdale property by Getty represents an excellent opportunity to participate in an advanced gold project in the heart of the major gold producing camp in North America.

# DIAMOND DRILL LOG #22

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LOCATION Davidson-Tisdale Property

GRID REFERENCE 4450E, 10+38S

AZIMUTH 0°=90°, 100°=90°<sup>5700</sup> DIP ANGLE -90°

DIP TESTS 200°=89°, 300°=86°, 400°=84°, 500°=85°

CORE BQ 600°=83°, 700°=82°, 800°=81°, 900°=80°  
1000°=80°

DRILLED BY Len Hill (Manderstrom)

JOHN KIRWAN & ASSOCIATES LTD.

## EARTH RESOURCE ASSOCIATES

DISPOSITION OF CORE D-T Core Shack

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
0'-7'	casing		
7'-237'	very dark green fine to medium grained mafic volcanic - carbonated matrix - local calcite grains - minor to moderate amount of calcite stringers at 0°-90° - minor amount of Fe <sub>2</sub> O <sub>3</sub> stringers at 40° to 60° - chlorite alteration - no shearing - trace to 2% disseminated subhedral to euhedral pyrite - trace to 1% pyrite associated with chlorite and Fe <sub>2</sub> O <sub>3</sub> stringers		
	[AT: 7'-10'	5600	tr
	10'-15'	5601	tr
	15'-20'	5602	tr
19'4"-19'53"	quartz veinlet - contact: 50° top, 50° bottom - chlorite alteration - non-mineralized		
	[AT: 20'-25'	5603	tr
	25'-30'	5604	tr
	30'-35'	5605	tr
	35'-40'	5606	tr
	40'-45'	5607	tr
	45'-50'	5608	tr
50'10"-50'11"	quartz veinlet		

# DIAMOND DRILL LOG

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LOCATION  
 GRID REFERENCE  
 AZIMUTH  
 DIP TESTS  
 CORE  
 DRILLED BY  
 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- contact; 80° top, 80° bottom		
	- calcite alteration along contacts and impregnated in quartz		
	[ AT: 50' - 55'	5609	tr
	56'10 1/2" - 57' - quartz vein		
	- contact; 80° top, 80° bottom		
	- Fe <sub>2</sub> O <sub>3</sub> and chlorite alteration		
	- non-mineralized		
	[ AT: 55' - 60'	5610	tr
	63'4" - 63'10" - quartz/calcite vein		
	- contact; 90° top, 90° bottom		
	- green chlorite alteration		
	- non-mineralized		
	[ AT: 60' - 65'	5611	tr
	66'11" - 67' - quartz/calcite veinlet		
	- contacts; 85° top, 85° bottom		
	- abundant green chlorite alteration		
	- non-mineralized		
	[ AT: 65' - 70'	5612	tr
	71'6" - 71'8" - quartz/calcite vein		
	- contacts; 70° top, 70° bottom		
	- non-mineralized		
	[ AT: 70' - 75'	5613	tr
	75' - 80'	5614	tr
	81'8" - 81'9" - quartz vein		
	- contact; 85° top, 85° bottom		
	- calcite/chlorite patches		

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LOCATION  
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DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	within quartz		
	- non-mineralized		
	[ AT: 80' - 85'	5615	002
	88'13" - 88'4 1/2" - quartz/calcite vein		
	- contacts; 90° top, 90° bottom		
	- chlorite alteration		
	- non-mineralized		
	[ AT: 85' - 90'	5616	tr
	90' - 95'	5617	tr
	95' - 100'	5618	tr
	100' - 105'	5619	tr
	105' - 110'	5620	tr
	110' - 115'	5621	tr
	113'3" - 114'4 1/2" - quartz/calcite vein		
	- undeterminable contacts		
	- chlorite alteration		
	- trace to 1% pyrite and chalcopryrite associated with chlorite alteration within the quartz/calcite vein		
	[ AT: 115' - 120'	5622	tr
	120' - 125'	5623	tr
	125' - 130'	5624	tr
	130' - 135'	5625	tr
	135'5" - 135'6 1/2" - silicified intrusion		
	- contacts; 70° top, 70° bottom		
	- epidote alteration?		
	- non-mineralized		
	135'8" - 135'11" - silicified intrusion		



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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- contacts; 70° top, 70° bottom		
	- epidote?		
	- very hard		
	- 3% disseminated sub-hedral pyrite associated with lower contact		
	[ AT: 135'-140'	5626	tr
	140'-145'	5627	tr
	145'-150'	5628	022
	150'-155'	5629	tr
	155'-160'	5630	026
	152'2"-152'6"- quartz vein		
	- contacts; 25° top, 50° bottom		
	- very fine grained trace pyrite associated with upper contact		
	159'10"-160'4"- quartz vein		
	- undeterminable contacts		
	- chlorite alteration		
	- non-mineralized		
	[ AT: 160'-165'	5631	tr
	169'-180'- very dark med. 10m grained green mafic volcanic		
	- characteristic dolomitic calcite phenocrysts		
	- no preferred orientation		
	- no shearing		
	[ AT: 165'-170'	5632	tr
	171'7"-171'8"- sericite/chlorite alteration		
	- non-mineralized		

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	[ AT : 170-175'	5633	tr
	175'-180'	5634	tr
	180'-185'	5635	tr
	185'-190'	5636	tr
	193'-196' - possible fault zone		
	- abundant ground		
	- trace to 1% subhedral		
	pyrite		
	[ AT : 190'-195'	5637	tr
	203'9"-204'3"- quartz/calcite		
	breccia		
	- undeterminable contacts		
	- chlorite patches		
	- non-mineralized		
	[ AT : 195-200'	5638	tr
	200'-205'	5639	
206'4"-211'4"	206'4"-207'7"- quartz/calcite vein		
W.C.V.S.	- contacts, 70° top, 70° bottom		
	- chlorite patches within		
	quartz		
	- 1% medium grained		
	subhedral pyrite ass-		
	ociated with chlorite		
	and within quartz		
	209'1"-209'9"- quartz/calcite		
	veins		
	- contacts: 260° top, undet-		
	rminable bottom		
	- trace to 1% pyrite ass-		
	ociated with upper		
	contact		
	[ AT : 205-210'	5640	tr

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	211'5" - 212'3" - quartz/calcite veinlet system		
	- undeterminable contacts		
	- chlorite alteration		
	- pyrite mineralization within chlorite alteration		
	212'7½" - 212'8½" quartz/calcite veinlet		
	- contacts; 70° top, 70° bottom		
	- 15% euhedral disseminated pyritic cubes		
	214' - 214'½" - quartz/calcite stringer		
	- contacts; 70° top, 70° bottom		
	- non-mineralized		
	[ AT: 210' - 215'	5641	tr
	216'6" - 216'8" - quartz/calcite vein		
	- contact; 65° top, 65° bottom		
	- non-mineralized		
	217'6" - 217'9" - quartz vein		
	- undeterminable contact		
	- minor chlorite/calcite patches		
	- non-mineralized		
	215' - 237' - abundant calcite/quartz grains within wall rock		
	[ AT: 215' - 220'	5642	tr
	220' - 225'	5643	tr
	225'2" - 229'5" - quartz/calcite vein		
	- contacts; 20° top, 20° bottom		
	- chlorite/sericite alteration		
	[ AT: 225' - 230'	5644	tr

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 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	230'-235'	5645	tr
237'-310'	medium grained dark green intermediate to mafic volcanic - possible tuffaceous unit - chlorite/sericite/actinolite alteration - carbonated matrix - moderate amount of calcite stringers from 1/8" to 3/8" at 75° - white medium grained grains (qtz/calcite) characteristic at upper levels - medium grained trace to 1% coalesced pyrite - medium trace to 1% dis- seminated subhedral pyrite [ AT: 235'-240' 240'-245' 245'-250' 250'-255' 255'-260' 260'-265' 265'-270' 270'-275' 275'-280' 280'-285' 285'-290' 290'-295'	5646 5647 5648 5649 5650 5651 5652 5653 5654 5655 5656 5657	tr tr tr tr tr tr tr tr tr tr tr tr tr

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	295'-300'	5658	tr
	300'-305'	5659	tr
	305'-310'	5660	DID
310'-397'	fine grained green grey int- ermediate to mafic volcanic - highly carbonated matrix - abundant chlorite alteration - minor talc alteration - minor amount of calcite - locally, "quartz eyes" present in wall rock - minor shearing at 20° - types of mineralization: ① 1% coarse grained dis- seminated euhedral pyrite ② trace medium grained subhedral pyrite ③ "stretched" pyrite asso- ciated with shear planes - increase in mineralization from 370' to 382' [ AT: 310'-315' 315'-320'	5661 5662	tr 005
	324' 8" - 324' 9" - quartz/calcite veinlet - contacts; 60° top, 60° bottom - non-mineralized		
	[ A7: 320'-325' 325'-330'	5663 5664	tr tr
	331' - 331' 5" - quartz/calcite vein - contacts; 230° top, 30° bottom		

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	non-mineralized		
	[ AT: 330'-335'	5665	002
	335'-340'	5666	tr
	340'-345'	5667	tr
	345'-350'	5668	
	350'-355'	5669	tr
	355'-360'	5670	tr
	360'-365'	5671	tr
	365'-370'	5672	
	370'-375'	5673	tr
	375'-380'	5674	tr
	380'-385'	5675	tr
	385'-390'	5676	tr
	394'3"-394'6"-quartz/calcite veinlet		
	-contacts; 30° top, 30° bottom		
	-non-mineralized		
	[ AT: 390'-395'	5677	tr
397'-461'	-medium grained moderate dark green intermediate mafic volcanic -carbonated matrix -calcite stringers at 20°-45° -minor shearing -chlorite alteration -minor talc alteration -trace to 1% fine grained disseminated subhedral pyrite		
	[ AT: 395'-400'	5678	010
	400'-405'	5679	tr
	405'-410'	5680	tr

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	410'-415'	5681	tr
	415'-420'	5682	020
	421'6"-421'8"-quartz veined -contacts; 60° top, 60° bottom -chlorite alteration -non-mineralized		
	[ AT: 420'-425'	5683	tr
	425'-430'	5684	tr
	430'-435'	5685	tr
	438'2"-438'1"-quartz/calcite stringer -60° top, 60° bottom -chlorite alteration -non-mineralized		
	[ AT: 435'-440'	5686	tr
	440'-445'	5687	tr
	445'-450'	5688	tr
	450'-455'	5689	tr
	455'8"-556'1"-quartz/calcite vein -contacts; 65° top, 65° bottom -chlorite alteration -trace fine grain pyrite associated with alteration		
	[ AT: 455'-460'	5690	tr
	460'-460'3"-quartz stringer -contacts; 65° top, 65° bottom -non-mineralized		
	461'-668' - fine to medium grained grey silicified intermediate volcanic -possible tuffaceous unit -chlorite/actinolite/secicite/talc		

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	alteration		
	- heavily carbonated matrix		
	- minor amounts of calcite stringers		
	- shearing present at 20°		
	- shearing abundant at greater depths		
	- quartz stringers commonly oriented to shear planes		
	- trace pyrite mineralization		
	[ AT: 460'-465'	5691	tr
	465'-470'	5692	tr
	470'-475'	5693	tr
	475'-480'	5694	tr
	480'-485'	5695	
	485'-490'	5696	002
	490'-495'	5697	tr
	495'-500'	5698	tr
	500'-505'	5699	tr
	505'-510'	5700	tr
	510'-515'	5701	tr
	515'-520'	5702	tr
	520'-525'	5703	tr
	525'-530'	5704	tr
	530'-535'	5705	tr
	535'-540'	5706	tr
	543'-544'- quartz/calcite vein		
	- undeterminable contacts		
	- trace mineralization		
	[ AT: 540'-545'	5707	tr
	547'7"-548'7"- calcite/quartz vein		
	- undeterminable contacts		



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 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- non-mineralized		
	[ AT: 545'-550'	5708	tr
	552'1"-552'1 1/2"- quartz stringers		
	- contacts; 75° top, 75° bottom		
	- non-mineralized		
	[ AT: 550'-555'	5709	tr
	555'-560'	5710	005
	560'-565'	5711	006
	567'11"-568'- quartz/calcite vein		
	- contacts; 80° top, 80° bottom		
	- non-mineralized		
	[ AT: 565'-570'	5712	023
	570'-575'	5713	tr
	575'-580'	5714	tr
	580'-585'	5715	tr
	585'-590'	5716	tr
	590'-595'	5717	tr
	595'-600'	5718	tr
	600'-605'	5719	tr
	605'-610'	5720	tr
	610'-615'	5721	tr
	615'-620'	5722	tr
	620'-625'	5723	tr
	625'-630'	5724	tr
	630'-635'	5725	tr
	636'8"-636'8 1/2"- quartz/calcite veinlet		
	- contact; 80° top, 80° bottom		
	- non-mineralized		
	[ AT: 635'-640'	5726	tr
	640'-645'	5727	004
	645'-650'	5728	tr

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	650'2" - 650'3" - quartz/calcite veinlet		
	- contacts; 80° top, 80° bottom		
	- trace pyrite mineralization associated with contacts		
	[ AT: 650' - 655'	5729	tr
	658'8" - 658'8½" - quartz/calcite stringer		
	- contacts; 85° top, 85° bottom		
	- non-mineralized		
	[ AT: 655' - 660'	5730	tr
	660' - 665'	5731	tr
668' - 765'	very fine grained green mafic volcanic		
	- carbonated matrix		
	- abundant calcite stringers from ¼" - ¾" at 0° to 90°		
	- minor amounts of Fe <sub>2</sub> O <sub>3</sub> alteration		
	- minor shearing, 20°		
	- trace to 1% disseminated subhedral pyrite		
	668' - 678' - fault zone		
	- abundant ground		
	- increase in pyrite mineralization within zone up to 2% mineralization		
	[ AT 665' - 670'	5732	023
	670' - 675'	5733	H
	675' - 680	5734	H

# DIAMOND DRILL LOG

JOHN KIRWAN & ASSOCIATES LTD.  
**EARTH RESOURCE ASSOCIATES**

LOCATION  
 GRID REFERENCE  
 AZIMUTH  
 DIP TESTS  
 CORE  
 DRILLED BY  
 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	684'6"-689'6"- character- istic kink banding (crenulation folds)		
	[ AT: 680'-685'	5735	tr
	685'-690'	5736	tr
	690'-695'	5737	004
	698'-699'- quartz/calcite/hem- atite vein system - undeterminable contacts		
	- trace pyrite		
	[ AT: 695'-700'	5738	tr
	700'-705'	5739	tr
	705'-710'	5740	tr
	710'-715'	5741	tr
	715'-720'	5742	tr
	720'-725'	5743	tr
	725'-730'	5744	tr
	732'5"-734'- possible fault - contact, - 10° - fracture infilled with calcite, minor Fe <sub>2</sub> O <sub>3</sub>		
	[ AT: 730'-735'	5745	tr
	735'-740'	5746	tr
	740'-745'	5747	tr
	748'10"-749'2"- calcite / quartz vein - undeterminable contacts - chlorite alteration - non-mineralized		
	[ AT: 745'-750'	5748	tr
	750'-755'	5749	tr

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	755'-760'	5750	tr
	760'-765'	5751	tr
765'-839'	- medium grained grey green inter- mediate to mafic volcanic - possible tuffaceous unit - carbonated matrix - minor calcite stringers at $\approx 45^\circ$ - no shearing - trace disseminated subhe- dral pyrite mineralization		
	[AT: 765'-770'	5752	tr
	770'-775'	5753	tr
	775' 2 3/4" - 775' 3" - quartz stringer - contact; 70° top, 70° bottom - non-mineralized		
	778'-785' - fragmental - shattered wall rock - quartz stringers asso- ciated with both undeterminable contacts - shearing at 70° - pyrite mineralization associated with quartz		
	[AT: 775'-780'	5754	tr
	780'-785'	5755	tr
	788' 1/5" - 788' 5 1/2" - quartz stringer - contacts; 75° top, 75° bottom - non-mineralized		
	788' 11" - 788' 11 1/2" - quartz stringer - contacts; 75° top, 75° bottom		

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DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- trace pyrite associated with upper contact		
	[ AT : 785' - 790'	5756	tr
	790' - 795'	5757	tr
	795' - 795' 1/2" - quartz vein		
	- contact; 75° top, 75° bottom		
	- non-mineralized		
	[ AT : 795' - 800'	5758	tr
	800' - 805'	5759	tr
	805' - 810'	5760	tr
	810' - 815'	5761	tr
	815' - 820'	5762	tr
	820' - 825'	5763	tr
	825' - 830'	5764	tr
	830' - 835'	5765	tr
	835' - 840'	5766	tr
839' - 858'	fine grained dark green mafic volcanic		
	- undeterminable contacts		
	- highly carbonated matrix		
	- abundant calcite stringers		
	- chlorite alteration		
	- pyrite stringers present		
	- trace - 1% disseminated pyrite		
	840' - 856' - 2-5% mineralization; (1) 2% medium grained subhedral disseminated pyrite; (2) up to 5% pyrite associated with wall rock/calcite stringers		

# DIAMOND DRILL LOG

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 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	[ AT: 840' - 845'	5767	tr
	845' - 850'	5768	tr
	850' - 855'	5769	030
858'-1057'	fine grained to medium grained green intermed- iate volcanic		
	- undeterminable contacts		
	- abundant calcite stringers at 0°-90°		
	- calcite phenocrysts com- mon, increasing in size at increasing depths		
	- chlorite alteration		
	- no shearing		
	- trace - 2% disseminated pyrite cubes		
	[ AT: 855' - 860'	5770	tr
	860' - 865'	5771	tr
	865' - 870'	5772	tr
	870' - 875'	5773	tr
	875' - 880'	5774	002
	880 - 885'	5775	tr
	885 - 890'	5776	tr
	890' - 895'	5777	tr
	895' - 900'	5778	tr
	900' - 900' 1/2" - quartz stringers - contacts, 70° top, 70° bottom - non-mineralized		
	906' 2" - 906' 2 1/2" - quartz stringers - contacts, 70° top, 70° bottom - non-mineralized		

# DIAMOND DRILL LOG

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 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	906'7"-906'8"-quartz veined		
	-contacts; 70° top, 70° bottom		
	-non-mineralized		
	[AT: 900'-905'	5779	tr
	905'-910'	5780	tr
	910'-915'	5781	tr
	915'-920'	5782	tr
	920'-925'	5783	tr
	925'-930'	5784	tr
	930'-935' } →	5785	tr
	935'-940' }	?	tr
	940'-945'	5786	tr
	945'-950'	5787	tr
	950'-955'	5788	tr
	955'-960'	5789	tr
	960'-965'	5790	tr
	965'-970'	5791	tr
	973'2"-973'2 1/2"-quartz stringer		
	-contacts; 70° top, 70° bottom		
	-calcite patches		
	-non-mineralized		
	[AT: 970'-975'	5792	tr
	975'-980'	5793	tr
	980'-985'	5794	tr
	985'-990'	5795	tr
	992'3"-992'6"-quartz vein		
	-contacts; 60° top, 60° bottom		
	-non-mineralized		
	[AT: 990'-995'	5796	tr
	995'-1,000'	5797	tr
	1,001'-1,002'-pyrite stringers		
	at 20°		

# DIAMOND DRILL LOG

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**DISPOSITION OF CORE**

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-medium grained coal- esced pyrite		
	-medium grained sub- hedral to euhedral disseminated pyrite		
1002'8"-1002'9"	quartz veinlet -contacts; 70° top, 70° bottom -trace chalcopyrite		
[AT: 1000'-1005'		5798	tr
1006'4"-1006'5"	quartz veinlet -contacts; 70° top, 70° bottom -abundant pyrite asso- ciated with upper contact		
[AT: 1005'-1010'		5799	tr
1011'2"-1011'3"	quartz veinlet -contact; 55° top, 55° bottom -trace pyrite associated with upper contact		
[AT: 1001'-1015'		5800	tr
1015'-1020'		5801	026
1020'-1025'		5802	tr
1025'-1030'		5803	tr
1030'-1035'		5804	tr
1036'-1036'3"	quartz/calcite vein -contact; 45° top, 45° bottom -chlorite stringers -non-mineralized		
1036'9"-1036'10"	quartz/calcite veinlet -contact; 70° top, 70° bottom -non-mineralized		



# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	[ AT: 1035' - 1040'	5805	tr
	1040' - 1045'	5806	tr
	1045' - 1050'	5807	tr
	1052' - 1057' - abundant calcite phenocrysts with in volcanic phenocrysts up to 3" x 1/4"		
	- no increase in mineralization		
	1054' - 1055' - shearing present		
	- possible fault zone at 40°		
	[ AT: 1050' - 1055'	5808	tr
	1055' - 1057'	5809	020
	HOLE ENDS AT 1057'		
	Dec 26, 1983		
	<i>Ken Lapierre</i>		

# DIAMOND DRILL LOG

DDH # 23

JOHN KIRWAN & ASSOCIATES LTD.

## EARTH RESOURCE ASSOCIATES

LOCATION Davidson Tisdale Mines

GRID REFERENCE T+35E, 4+95S

AZIMUTH

DIP ANGLE -90°

DIP TESTS 0' = 90°, 100' = 87.5°, 200' = 87°

CORE BQ

300' = 84°, 400' = 86°

DISPOSITION OF CORE D-T Coreshack

DRILLED BY Len Hill (Manderstrom)

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
0-6'	drill casing		
6'-47'	- fine grained very dark green mafic volcanic - carbonated matrix - characteristic calcite stringers - chlorite alteration - no shearing - fine grain to medium grain disseminated subhedral to anhedral pyrite		
	[AT: 6'-10'	5840	tr
	10'-15'	5841	tr
	15'-20'	5842	tr
	20'-25'	5843	tr
	25'-30'	5844	0.001
	30'-35'	5845	tr
	35'-40'	5846	tr
	40'-45'	5847	tr
	45'-50'	5848	tr
47'-180'	- fine grained to medium grained grey intermediate volcanic - possible toffaceous unit - carbonated matrix increasing in carbonate alteration at increasing depths - sericite/chlorite alteration - sericite alteration increasing at increasing depths - calcite stringers present		

# DIAMOND DRILL LOG

JOHN KIRWAN & ASSOCIATES LTD.  
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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	47'-72' - shearing common at 30°		
	46'4" - 64'3" - dropped core box		
	51'3" - 51'7" - siderite weathering associated with calcite stringers - minor quartz stringers		
	53'5" - 54'2" - siderite weathering associated with calcite stringers oriented similar to shear planes - sericite alteration		
	54'7" - 55' - siderite alteration associated with calcite stringers perpendicular to shear planes		
	[AT: 50' - 55']	5849	tr
	55'2" - 55'10" - siderite alteration associated with calcite stringers		
	59' - 60' - siderite weathering associated with calcite stringers - trace to 1% coarse grained subhedral to euhedral pyrite		
	[AT: 55' - 60']	5850	tr
	60'5" - 61'7" - siderite alteration associated with shear planes		

# DIAMOND DRILL LOG

**JOHN KIRWAN & ASSOCIATES LTD.**  
**EARTH RESOURCE ASSOCIATES**

**LOCATION**  
**GRID REFERENCE**  
**AZIMUTH**  
**DIP TESTS**  
**CORE**  
**DRILLED BY**

**DIP ANGLE**

**DISPOSITION OF CORE**

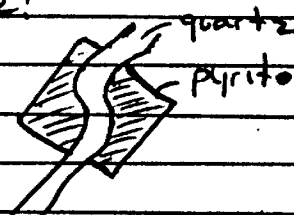
FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	61'5" - 61'6" - quartz veinlet - undeterminable contact - non-mineralized		
	62'3" - 63'2" - abundant siderite weathering associated with calcite stringers and shear planes		
	62'7" - 62'8" - quartz veinlet - contacts, 45° top, 45° bottom - trace coarse grained subhedral pyrite assoc- iated with upper con- tact		
	64'1" - 64'8" - siderite weather- ing associated with wall rock - minor quartz - trace pyrite		
	[AT: 60' - 65']	5851	tr
	66' - 71' - characteristic kink banding (crenulation folds) - talc/chlorite/sericite alteration associated with kinking		
	[AT: 65' - 70']	5852	tr
	70'5" - 70'6" - quartz veinlet - contacts, 70° top, 70° bottom - non-mineralized		
	[AT: 70' - 75']	5853	tr
75'8" - 80'10" W.R.V.S.	75'8" - 76'7" - quartz/tourma- line vein system		

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-undeterminable contacts		
	-abundant siderite alteration associated with calcite stringers		
	-trace coarse grained subhedral pyrite cubes		
78'1"-78'3"	-quartz vein		
	-contact; 80° top, 80° bottom		
	-siderite alteration associated with both contacts		
	-non-mineralized		
78'4½"-78'5½"	-quartz stringers		
	-contact; 60° top, 60° bottom		
	-trace pyrite associated with both contacts		
	-evidence of quartz emplacement after crystallization of pyrite.		
	example:		
			
[AT: 75' - 80'		5854	tr
80'2"-80'10"	-abundant quartz patches within well rock		
	-chlorite/dolomite alteration		
	-trace subhedral met		

# DIAMOND DRILL LOG

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 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	diom grained to coarse grained pyrite		
	[AT: 80'-85']	5855	tr
88'6"-89'4"	quartz veinlet -contact; 20° top, 20° bottom -calcite/siderite assoc. lated with both cont- acts -non-mineralized		
89'7"-90'10"	siderite alteration associated with wall rock -pyrite mineralization		
	[AT: 85'-90']	5856	tr
90'5"-91'10"	quartz vein -contact; 20° top, 20° bottom -non-mineralized		
92'4"-92'6"	quartz vein -undeterminable contacts -2% coarse grained subhedral pyrite as- sociated with both contacts		
93'4"-94'5"	fragmental -highly carbonated -siderite alteration -trace to 1% coarse grained disseminated pyrite		
	[AT: 90'-95']	5857	tr
97'5"-99'8"	quartz vein -contacts; ± 20° top, un- determinable bottom		

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-siderite weathering associated with both contacts		
	-tourmaline patches with in quartz		
	-siderite stringers with in quartz		
	- trace medium grained subhedral pyrite associated with both contacts		
	[AT: 95'-100'	5858	tr
	100'5"-100'8"- siderite alteration		
	- trace medium grained pyrite		
	101'6"-102'3"- siderite alteration associated with wall rock and calcite stringer		
	- trace to 1% medium grained pyrite		
	[AT: 100'-105'	5859	tr
	107'4"-108'- quartz vein		
	-undeterminable contacts		
	-abundant siderite alteration		
	- fine grained to medium grained 3% disseminated pyrite associated with siderite and quartz		
	[AT: 105'-110'	5860	tr

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### DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	110'-115'	5861	tr
	118'6"-119'11" - quartz vein - contact; 30° top, 30° bottom		
118'6"-130'10" W.R.V.S	- siderite alteration - trace medium pyrite associated with cont- acts - trace chalcopyrite associated with quartz/wall rock contact		
	[AT 115'-120'	5862	tr
	121'3"-121'7" - quartz stringers - between stringers, wall rock characterized by kink banding. Talc dis- sociated with kinking - medium grained to coarse grained 3-5% pyrite associated with quartz/wall rock contacts		
	121'7"-122'4" - 10-15% medium grained subhedral disseminated and coal- escing pyrite cubes within volcanic rock		
	122'4"-123'6" - quartz vein - contacts; 60° top, 60° bottom - siderite alteration as- sociated with quartz and along contacts		



# DIAMOND DRILL LOG

DDH # 23

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- trace medium grained pyrite with quartz		
	- abundant medium subhedral pyrite associated with both contacts		
	123'6"-124'6"- quartz breccia		
	- undeterminable contacts		
	- volcanic patches		
	- tourmaline stringers		
	- 5-10% coarse grained pyrite associated with wall rock/quartz contact		
	- very coarse grained pyrite associated with lower contact		
	124'11" - possible tourmaline associated within pyrite		
	AT: 120'-125'	5863	.292
	126'1"-126'3"- quartz vein		
	- contact; 90° top, undeterminable lower		
	- siderite alteration		
	- tourmaline associated with lower contact		
	- coarse grained to very coarse grained pyrite associated with lower contact		
	128'3"-128'3 1/2"- quartz veinlet		

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- contacts; 80° top, 80° bottom		
	- chlorite alteration		
	- non-mineralized		
	[AT: 125'-130'	5864	tr
130'7"-130'10"	- quartz vein		
	- contact; 37° top, 70° bottom		
	- abundant calcite/siderite alteration		
	- non-mineralized		
	[AT: 130'-135'	5865	030
	135'-140'	5866	tr
140'4"-144'	- siderite weathering associated with calcite stringers		
	[AT: 140'-145'	5867	tr
	145'-150'	5868	tr
	150'-155'	5869	tr
	155'-160'	5870	tr
	160'-165'	5871	tr
168'6"-171'6"	- possible fault zone		
	- abundant ground		
	- dull brown weathered appearance		
	- silicification		
	- carbonated		
	- trace mineralization		
	[AT- 165'-170'	5872	tr
	170'-175'	5873	tr
	175'-180'	5874	tr

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
180'-233'	fine grain light grey sheared silicified vol- canic - heavily carbonated - characteristic shearing at 20° - characteristic kinking (crenulation folds) - calcite stringers at 20° - talc/chlorite alteration - apparent "banding" result- ing from shear planes - trace to 1% disseminated fine grained to medium grained subhedral pyrite - trace chalcoppyrite ass- ociated with calcite stringers		
184'-185'	quartz stringer - 3 b° - very coarse grained pyrite associated with both contacts - trace pyrite patch- es associated with both contacts [AI: 180'-185']	5875	tr
185'4"-185'7 1/2"	quartz vein - contact; 75° top, 76° bottom - abundant "smeared" pyrite associated with upper contact - abundant anhedral		

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	pyrite associated with lower contact		
	[AT: 185'-190'	5876	tr
	190'-195'	5877	tr
	195'-200'	5878	tr
	200'-205'	5879	tr
	205'-210'	5880	tr
	210'-215'	5881	tr
	215'-220'	5882	tr
	220'11"-221'2"- quartz vein - contact; 70° top, 70° bottom - non-mineralized		
	[AT: 220'-225'	5883	tr
	225'-230'	5884	tr
233'-335'	fine grained green grey intermediate <sup>matrix</sup> volcanic - no shearing - highly carbonated matrix - calcite stringers at 290° - chlorite stringers - calcite grains present - chlorite alteration - trace subhedral disseminated fine grained pyrite - trace subhedral disseminated medium pyrite - trace chalcopyrite		
	[AT: 230'-235'	5885	tr
	235'-240'	5886	tr
	240'-245'	5887	tr
	245'-250'	5888	tr

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### DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	250'-255'	5889	tr
	255'-260'	5890	tr
	260'-265'	5891	tr
	265'-270'	5892	tr
	270'-275'	5893	tr
	275'-280'	5894	tr
	280'-285'	5895	tr
	286'10"-287'-quartz/calcite stringer		
	- undeterminable contacts		
	- trace pyrite asso- ciated with con- tacts		
	[AT: 288'-290'	5896	tr
	290'-295'	5897	tr
	295'-300'	5898	tr
	300'-305'	5899	tr
	306'-310'	5900	tr
	310'-315'	5901	tr
	316'-320'	5902	tr
	320'-325'	5903	tr
	326'-330'	5904	tr
	334'-335'-possible fault zone at 70°		
	- "pulverized wall rock		
	- heavily carbonated		
	[AT: 330'-335'	5905	tr
	335'-385' very fine grained grey green intermediate-mafic volcanic - chlorite alteration - highly carbonated matrix		

# DIAMOND DRILL LOG

● DDH # 23

JOHN KIRWAN & ASSOCIATES LTD.

## EARTH RESOURCE ASSOCIATES

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### DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- calcite stringers oriented at $\pm 70^\circ$		
	- no shearing		
	- kink banding (crenulation folds) common at less depths		
	- trace subhedral disseminated pyrite cubes		
	- trace pyrite patches		
335'-342'	- abundant calcite stringers from $\frac{1}{8}$ " to $\frac{1}{4}$ " at $70^\circ$		
	[AT: 335'-340'	5906	tr
	340'-345'	5907	tr
	345'-350'	5908	tr
	350'-355'	5909	tr
	355'-360'	5910	tr
	360'-365'	5911	tr
	365'-370'	5912	tr
	372'2"-372'3"-quartz/calcite stringers		
	- contact; $60^\circ$ top, $60^\circ$ bottom		
	- non-mineralized		
	[AT: 370'-375'	5913	tr
	375'-380'	5914	tr
	380'-385'	5915	tr
385'-411'	- fine grained pale green to grey intermediate to mafic volcanic		
	- no shearing		
	- no kink banding		

# DIAMOND DRILL LOG

DDH# 23

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### DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- highly carbonated matrix		
	- chlorite/sericite alteration		
	- calcite stringers and veinlets at 0° to 90°		
	- trace mineralization		
	[AT: 385' - 390'	5916	tr
	390' - 395'	5917	tr
	395' - 400'	5918	tr
	400' - 405'	5919	tr
	405' - 410'	5920	tr
	410' 3/2" - 410' 4 1/2" - possible fault zone		
	- abundant rounded to subrounded quartz grains with "apparent orientation at 365°		
411' - 467'	- possible gabbroic intrusion		
	- medium grained light green intrusive		
	- minor chlorite/talc/Fe <sub>2</sub> O <sub>3</sub>		
	- minor calcite stringers		
	[AT: 410' - 415'	5921	tr
	415' - 420'	5922	tr
	420' - 425'	5923	tr
	425' - 430'	5924	tr
	430' - 435'	5925	tr
	435' - 440'	5926	tr
	440' - 445'	5927	tr
	445' - 450'	5928	tr
	450' - 455'	5929	tr





# DIAMOND DRILL LOG #21

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JOHN KIRWAN & ASSOCIATES LTD.  
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LOCATION D-T Property  
 GRID REFERENCE 5+50E, 2+10S.  
 AZIMUTH                      DIP ANGLE -90°  
 DIP TESTS 0'=90°, 100'=88°, 200'=86°, 300'=86°  
 CORE (BQ) 400'=86°, 500'=82°, 600'=83°  
 DRILLED BY Len Hill (Manderstrom)

DISPOSITION OF CORE D-T Core Shack

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
D-10'	Casing		
10'-39'	- fine grained light grey green silicified intermediate volcanic - minor carbonate within matrix - characteristic shearing at 25° changing to 55° at greater depths - siderite weathering common - chlorite sericite alteration - trace - 1% medium grained dis- seminated subhedral to anhedral pyrite		
14'6"-15'	- quartz vein - undeterminable contacts - siderite associated with contacts - non-mineralized		
[AT: 10'-15']		20928	tr
17'-17'4"	- quartz veinlet - contacts; 90° top, 90° bottom - chlorite stringers - siderite associated with contacts - non-mineralized		
[AT: 15'-20']		20929	
21'10"-22'4"	- quartz veinlet - contacts; 15° top, 15° bottom - trace medium grained pyrite associated with upper contact	M.Q.B.V.S. (60%)	
[AT: 20'-22'6"]		20930	tr
22'6"-22'11"	- quartz vein		

# DIAMOND DRILL LOG

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**JOHN KIRWAN & ASSOCIATES LTD.  
EARTH RESOURCE ASSOCIATES**

**LOCATION  
GRID REFERENCE  
AZIMUTH  
DIP TESTS  
CORE  
DRILLED BY**

**DISPOSITION OF CORE**

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- undeterminable contacts		
	- abundant siderite alteration within quartz		
	- non-mineralized		
	[AT: 22'6" - 25'	20931	tr
	25' - 26'6" - quartz breccia		
	- undeterminable contacts		
	- trace disseminated pyrite		
	[AT: 25' - 27'6"	20932	tr
	29'3" - 32' - quartz breccia		
	- undeterminable contacts		
	- fragments primarily composed of dolomite, talc and/or serpentine and volcanic fragments		
	- non-mineralized		
	[AT: 27'6" - 30'	20933	tr
	30' - 32'6"	20934	tr
	32'6" - 32'7" - quartz veined		
	- contacts; 85° top, 85° bottom		
	- non-mineralized		
	33'7" - 33'8" - quartz veined		
	- contacts; 90° top, 90° bottom		
	- tourmaline stringer		
	- non-mineralized		
	[AT: 32'6" - 35'	20935	tr
	35' - 37'6"	20936	tr
	37'6" - 40'	20985	DOB
39' - 57'8"	- dark green medium grained intermediate-mafic volcanic		
	- possible fragmental		

# DIAMOND DRILL LOG

**JOHN KIRWAN & ASSOCIATES LTD.**  
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DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- quartz, feldspar, calcite grains?		
	- chlorite alteration		
	- abundant amount of calcite		
	- dolomite stringers at 0°-90°		
	- highly carbonated matrix		
	- minor shearing at 50°		
	- trace - 1% medium grained subhedral-euhedral pyrite		
	40'4" - 41' - abundant siderite		
	- non-mineralized		
	[ AT : 40' - 42'6"	20937	tr
	42'6" - 45'	20938	tr
	45' - 47'6"	20939	tr
	47'6" - 50'	20986	tr
	50' - 52'6"	20940	tr
	52'6" - 55'	20941	tr
	55' - 57'6"	20942	tr
57'8" - 1166'	- fine grained to medium grained dark - very dark green mafic volcanic		
	- undeterminable contacts		
	- highly carbonated matrix		
	- medium grained anhedral calcite grains		
	- chlorite alteration		
	- calcite stringers common from 1/8" to 1/4" at 25° to 90°		
	- no shearing		
	- trace mineralization		
	[ AT : 57'6" - 60'	20943	tr
	60' - 62'6"	20944	tr

# DIAMOND DRILL LOG

JOHN KIRWAN & ASSOCIATES LTD.  
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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	62'6" - 65'	20945	tr
	65' - 67'6"	20946	tr
	67'6" - 70'	20947	tr
	70' - 72'6"	20948	tr
	72'6" - 77'6"	20949	tr
	77'6" - 80'	20950	tr
	80' - 82'6"	20951	tr
	82'6" - 85'	20952	tr
	85' - 87'6"	20953	tr
	87'6" - 90'	20954	tr
	90' - 92'6"	20955	tr
	92'6" - 95'	20956	tr
	95' - 97'6"	20957	tr
	97'6" - 100'	20958	020
	100' - 102'6"	20959	tr
	102'8" - 102'10" - quartz/epidote? vein - contact; 55° top, 55° bottom - minor amounts of siderite - non-mineralized		
	[AT: 102'6" - 105']	20960	tr
	106'10" - 107'4" - calcite/quartz veinlet - contact; 20° top, 20° bottom - Fe <sub>2</sub> O <sub>3</sub> alteration associated with both contacts		
	[AT: 105' - 107'6"]	20961	tr
	107'6" - 110'	20962	tr
	111' - 113'7" - 2-4% disseminated subhedral fine grained pyrite		
	[AT: 110' - 112'6"]	20963	tr
	112'6" - 115'	20964	tr
	115' - 117'6"	20965	tr
	117'6" - 120'	20966	tr

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	120'-122'6"	20967	004
	122'6"-125'	20968	tr
	125'-127'6"	20969	tr
	127'6"-130'	20970	tr
	130'-132'6"	20971	tr
	132'6"-135'	20972	tr
	135'-137'6"	20973	tr
	137'9"-138'6"-series of quartz/ calcite veinlets - trending from 70°-90° - system associated with epidote stringers and patches - non-mineralized		
	[AT: 137'6"-140'	20974	tr
	140'-142'6"	20975	tr
	142'6"-145'	20976	tr
	145'-147'6"	20977	tr
	147'6"-150'	20978	tr
	150'-152'6"	20979	tr
	152'6"-155'	20980	tr
	155'-157'6"	20981	tr
	157'6"-160"	20982	tr
	160'-162'6"	20983	tr
	162'6"-165'	20984	tr
166'-252'	highly silicified fine to medium grained light grey green inter- mediate volcanic or possible intermediate tuff. - tuffaceous appearance - presence of subrounded to		

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	rounded medium grained grains, composition - unknown, probable composition - combi- nation of quartz, plagioclase, calcite/dolomite grains - carbonated matrix - quartz/carbonate stringers oriented similar to shear planes (when present) at 15°-25° - chlorite alteration - minor amounts of actinolite - quartz generally barren - trace chalcopyrite and pyrite associated with quartz/calcite contact - trace - 3% medium grained disseminated subhedral pyrite associated with well rock		
	[ AT: 165'-167'6"	20788	003
	167'6"-170'	20789	tr
	170'-172'6"	20790	tr
	172'6"-175'	20791	tr
	175'-177'6"	20792	tr
	177'6"-180'	20793	022
	180'-182'6"	20794	tr
	182'6"-185'	20795	004
	185'-187'6"	20796	tr
	187'6"-190'	20797	072
	190'-192'6"	20798	003
	192'6"-195'	20799	tr

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	195'-197'6"	20800	047
	197'6"-200'	20801	026
	200'-202'6"	20802	tr
	202'6"-205'	20803	007
	205'-207'6"	20804	003
	207'6"-210'	20805	tr
	210'-212'6"	20806	tr
	212'6"-215'	20807	tr
	215'-217'6"	20808	tr
	217'6"-220'	20809	tr
	220'-222'6"	20810	H
	222'6"-225'	20811	H
	225'-227'6"	20812	tr
	227'6"-230'	20813	tr
	230'-232'6"	20814	003
	232'6"-235'	20815	tr
	235'-237'6"	20816	tr
	237'6"-240'	20817	tr
	240'-242'6"	20818	tr
	242'6"-245'	20819	004
	245'-247'6"	20820	tr
	247'6"-250'	20821	004
	250'-252'6"	20822	tr
252'-280'	fine grained dark green mafic volcanic		
	- undeterminable contacts		
	- abundant chlorite alteration		
	- highly carbonated matrix		
	- minor amounts of siderite		
	- minor amounts of green serpentine/falc alteration		

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- no shearing		
	- trace mineralization		
	[AT: 252'6"-255'	20823	tr
	255'-257'6"	20824	tr
	257'6"-260'	20825	tr
	260'-262'6"	20826	tr
	262'6"-265'	20827	tr
	265'-267'6"	20828	tr
	267'6"-270'	20829	tr
	270'-272'6"	20830	tr
	272'6"-275'	20831	tr
	275'-277'6"	20832	tr
	277'6"-280'	20833	tr
280'-400'	fine to medium grey green intermediate volcanic		
	- undeterminable contacts		
	- chlorite/actinolite/sericite/talc alteration increasing in sericite alteration at increasing depths		
	- minor ground		
	- possible tuffaceous unit		
	- medium grained subrounded to rounded white grains in a darker coloured matrix. Composition unknown. Probable composition - quartz, calcite, plagioclase grains		
	- medium to coarse grained disseminated subhedral pyrite		



# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- trace "stretched pyrite oriented parallel to shear planes (20°).		
	280'-290' - abundant quartz stringers 1/8"-1/4" from 0°-90°		
	- dolomite associated with stringer system		
	- minor chlorite stringers		
	- non-mineralized		
	[ AT: 280'-282'6"	20834	tr
	282'6"-285'	20835	tr
	285'-287'6"	20836	tr
	287'6"-290'	20837	tr
	290'-292'6"	20838	tr
	292'6"-295'	20839	tr
	295'-336' - characteristic shearing at 20°		
	- quartz stringer commonly oriented similar to shear planes		
	297'-297'2' - quartz vein	WQVS (≈15%)	
	- contact; 60° top, 60° bottom		
	- tourmaline stringers		
	- quartz/calcite mosaic associated with upper contact		
	- trace subhedral pyrite within quartz.		
	[ AT: 295'0"-297'6"	20840	tr
	299'9"-299'9" - quartz veinlet		
	- contact; 90° top, 90° bottom		

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

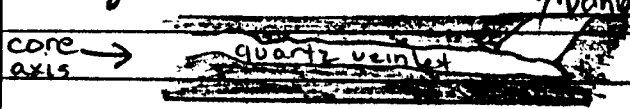
FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- tourmaline stringers		
	- pyrite associated with tourmaline		
	- abundant coarse grained subhedral pyrite associated with both contacts.		
	[ AT: 297'6" - 300'	20841	tr
	300'2" - 300'4" - quartz vein		
	- contacts; 20° top, 20° bottom		
	- calcite patches		
	- carbonate associated with both contacts		
	- coarse grained pyrite associated with both contacts		
	300'5" - <b>VISIBLE GOLD</b>		
	- 1 spec associated with carbonated material removed from quartz		
	300'5" - 300'7" - quartz veined		
	- contacts; 55° top, 55° bottom		
	- non-mineralized		
	301'5" - 303'5" - abundant quartz/ calcite stringers and patches		
	- trace chalcopyrite, pyrite		Ag
	[ AT: 300' - 302'6" V.G.	20842	D13 03
	303'6" - 304'1" - quartz veined		
	- contact; 20° top, 20° bottom		
	- tourmaline patches		
	- green chlorite stringers		
	- abundant calcite stringers with quartz		

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-non-mineralized		
	304'11" - 304'11 1/2" - quartz stringer		
	-contacts; 75° top, 75° bottom		
	-non-mineralized		
	[ AT: 302'6" - 305'	20843	tr
	305' - 307'6"	20844	023
	307'6" - 310'	20845	tr
	310'6" - 311'2" - calcite stringers		
	-contacts; 35° top, 35° bottom		
	-minor chlorite stringers		
	[ AT: 310' - 312'6"	20846	tr
	312'6" - 315'	20847	tr
	315' - 317'6"	20848	004
	317'1" - 318'2" - quartz veinlet		
	-contacts; 30° top, 30° bottom		
	- <b>VISIBLE GOLD</b> . 1 spec.		
	at 318' associated with		
	contact		
	318'2" - 318'4" - quartz veinlet		
	-contacts; 25° top, 25° bottom		
	-tourmaline stringers.		
	-terminated by previous		
	quartz veinlet		
			
	[ AT: 317'6" - 320' v.g.	20849	037 Ag
	320' - 322'6"	20850	tr
	322'6" - 325'	20851	tr
	325' - 327'6"	20852	tr
	327'6" - 330'	20853	tr
	330' - 332'6"	20854	tr

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	332'10"-333'4"- quartz stringer -contacts; 10° top, 10° bottom -non-mineralized		
	333'11"-334'9"- quartz vein -contact 5; 25° top, 25° bottom -green chlorite, calcite alteration -volcanic patches present -trace coarse grained sub-hedral pyrite associated with lower contact		
	[AT: 332'6"-335' 335'-337'6"]	20855 20856	005 062
	337'6"-337'9"- quartz vein -contacts; 20° top, 20° bottom -tourmaline stringers -non-mineralized		
	[AT: 337'6"-340' 340'-342'6"]	20857 20858	tr tr
	342'9"-345'2"- quartz breccia? -contacts; undeterminable tops, 15° bottom -abundant ground -chlorite/falc/carbonate alteration -calcite stringers associated with breccia -trace-2% medium grained disseminated pyrite		
	[AT 342'6"-345' 345'2"-347'6"- silicified volcanic	20859	010

# DIAMOND DRILL LOG

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**DISPOSITION OF CORE**

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-contacts; 15° top, undeterminable bottom		
	- 3-5% euhedral-subhedral disseminated pyrite cubes		
	[AT: 345' - 347' 6"	20860	tr
	347' 6" - 350'	20861	tr
	350' - 352' 6"	20862	tr
	352' 6" - 355'	20863	tr
	355' - 357' 6"	20864	tr
	357' 6" - 360'	20865	tr
	360' - 362' 6"	20866	tr
	362' 6" - 365'	20867	tr
	365' - 367' 6"	20868	tr
	368' 5" - 368' 7" - quartz vein		
	-contacts; 55° top, 55° bottom		
	- non-mineralized		
	[AT: 367' 6" - 370'	20869	tr
	372' 3" - 372' 4" - quartz vein let		
	-contacts; 90° top, 90° bottom		
	- non-mineralized		
	[AT: 370' - 372' 6"	20870	tr
	372' 6" - 375'	20871	tr
	375' - 377' 6"	20872	tr
	377' 10" - 378' 1" - quartz vein		
	-contacts; 50° top, 50° bottom		
	- non-mineralized		
	[AT: 377' 6" - 380'	20873	002
	381' 5" - 381' 7" - quartz vein		
	-contacts; 50° top, 50° bottom		
	- calcite/quartz mosaic associated with both contacts		

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- calcite/quartz mosaic patches within quartz		
	- trace - 1% euhedral-subhedral medium grained pyrite		
	[AT: 380' - 382'6" ↓	20874	tr
384'6" - 384'9"	- quartz vein		
	- contacts; 45° top, 45° bottom		
	- calcite/quartz mosaic material associated with both contacts		
	- trace - 1% subhedral medium grained pyrite associated with both contacts		
	[AT - 382'6" - 385'	20875	002
	385' - 387'6"	20876	011
387'9" - 393'5"	- quartz breccia		
	- contacts; 60° top, undeterminable bottom		
	- abundant volcanic fragments (carbonated)		
	- minor calcite/quartz mosaic fragments		
	- moderate amount of calcite stringers associated with quartz		
	- no shearing within volcanic fragments		
	- 3% coarse grained pyrite cubes		
	- trace - 2% pyrite ass-		

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	with wall rock / quartz contact			
	- trace very coarse grain pyrite associated with in quartz			
	<b>387'8<sup>1</sup>/<sub>2</sub>" - 387'10" - VISIBLE GOLD</b>			
	- moderate amount of visible gold associated with in small quartz stringer associated along upper contact of quartz breccia			
	[ AT: 387'6" - 390' V.G.	20877	.166	.03 Ag
	390'3" - <b>VISIBLE GOLD</b>			
	- 2 specs associated within quartz			
	392'4" - <b>VISIBLE GOLD</b>			
	- 1 medium grained spec associated within quartz			
	[ AT: 390' - 392'6" V.G.	20878	.351	.02
	392'8 <sup>1</sup> / <sub>2</sub> " - 393'3" - 2-30 specs of <b>VISIBLE GOLD</b>			
	- gold associated with:			
	① quartz			
	② within coarse grained pyrite			
	③ within wall rock			
	④ associated with wall rock / quartz contact			
	394' - 394'11" - quartz veinlet			
	- contacts, 75° top, 75° bottom			
	- trace coarse grained			

# DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	pyrite associated with quartz		Ag
	[ AT : 392'6" - 395' V.G.	20879	818 .06
	395' - quartz stringer		
	- calcite stringers		
	- trace chalcopyrite		
	395'6" - 395'10" - quartz vein		
	- contacts; 360° top, 360° bottom		
	- calcite stringers associated with both contacts		
	- trace - 2% fine to medium grained subhedral pyrite associated with upper contacts		
	396'2" - <b>VISIBLE GOLD</b>		
	- 3 specs associated with wall rock		
	396'7" - 396'7 1/2" - quartz stringer		
	- contacts; 75° top, 75° bottom		
	- green chlorite alteration		
	- non-mineralized		
	[ AT : 395' - 397'6" V.G.	20880	.088 .04
	399'10" - 399'11" - quartz veinlet		
	- contacts; 85° top, 85° bottom		
	- non-mineralized		
	[ AT : 397'6" - 400'	20881	012
400 - 498'	fine grained grey intermediate volcanic		
	- possible volcano-metasediment		
	- dominant shearing at 30°		
	changing to 20° at greater		



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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	depths		
	- apparent "layering" effect possibly caused by shearing		
	- partly silicified		
	- dolomite stringers (abundant) oriented parallel to shear planes		
	- sericite/actinolite alteration follow shear planes		
	- carbonated rock		
	- types of mineralization:		
	① 3-5% very coarse grained disseminated subhedral pyrite,		
	② 1-2% "stretched" pyrite oriented parallel to shear planes,		
	③ trace medium grained disseminated pyrite,		
	④ trace chalcopyrite		
402'3"-402'4"	- quartz veinlet		
	- chlorite stringers		
	- non-mineralized		
	[ AT : 400'402'6"	20882	017
	402'6"-405'	20883	tr
405'-405'3"	- quartz stringers		
	- contacts; 20° top, 20° bottom		
	- non-mineralized		
	[ AT : 405'-407'6"	20884	tr
409'1"-409'7"	- quartz breccia		

# DIAMOND DRILL LOG

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 AZIMUTH  
 DIP TESTS  
 CORE  
 DRILLED BY

DIP ANGLE

**DISPOSITION OF CORE**

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-undeterminable contacts		
	-ubundant calcite alter- ation		
	-minor chlorite stringers		
	-abundant "stretched" pyrite associated with contact		
	-trace medium grained disseminated pyrite		
	[AT: 407'6" - 410"	20885	012
	410'11" - 411'1" - quartz vein		
	-contacts; 25° top, 25° bottom		
	-abundant calcite alteration		
	-minor chlorite stringers		
	-pyrite mineralization ass- ociated with lower contact.		
	[AT: 410' - 412'6"	20886	tr
	412'6" - 415'	20887	tr
	416'10" - 417'3" - pyrite pseud- omorphing pyrite repr- esenting 2 episodes of mineralization		
	[AT: 415' - 417'6"	20888	tr
	417'6" - 417'7" - quartz veinlet		
	-contact; 65° top, 65° bottom		
	-calcite/quartz mosaic associated with both contacts		
	[AT: 417'6" - 420'	20889	022
	422'4" - 422'6" - 2 quartz stringers		
	-contacts; 70° top, 70° bottom		

# DIAMOND DRILL LOG

JOHN KIRWAN & ASSOCIATES LTD.  
**EARTH RESOURCE ASSOCIATES**

LOCATION  
 GRID REFERENCE  
 AZIMUTH  
 DIP TESTS  
 CORE  
 DRILLED BY  
 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-pyrite and chalcopyrite associated with both contacts		
	[AT: 420' - 422'6"]	20890	D10
	423'3" - 423'7" - quartz vein		
	- undeterminable contacts		
	- calcite/quartz mosaic		
	- green chlorite stringers		
	- 20% very coarse grained pyrite associated with quartz and quartz/wall rock contact		
	[AT: 422'6" - 425']	20891	048
	425'1" - 425'3" - irregular quartz stringers		
	- undeterminable contacts		
	- calcite/quartz associated with stringers		
	- non-mineralized		
	427'3" - 427'6" - quartz vein		
	- contact 85° top, 85° bottom		
	- very coarse grained pyrite		
	[AT: 425' - 427'6"]	20892	028
	427'6" - 430'	20893	031
	431'9" - 431'9½" - quartz stringers		
	- contacts, 90° top, 90° bottom		
	[AT: 430' - 432'6"]	20894	tr
	434'7" - 434'7½" - quartz stringers		
	- contacts, 80° top, 80° bottom		
	- trace pyrite associated with upper contacts		
	[AT: 432'6" - 435']	20895	tr

# DIAMOND DRILL LOG

JOHN KIRWAN & ASSOCIATES LTD.  
**EARTH RESOURCE ASSOCIATES**

LOCATION  
 GRID REFERENCE  
 AZIMUTH  
 DIP TESTS  
 CORE  
 DRILLED BY  
 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	435' - 437'6"	20896	030
	437'6" - 440'	20897	tr
	440' - 442'0"	20898	tr
	442'6" - 445'	20899	tr
	445' - 447'6"	20900	tr
	447'10" - 448'3" - quartz vein - contacts; 80° top, undeter- minable bottom - green chlorite/serpentine fragments and stringers - non-mineralized		
	449'2" - 449'2 1/2" - quartz stringers - contacts; 75° top, 75° bottom - non-mineralized		
	449'5" - 449'7" - quartz stringers - contacts; 50° top, undet- erminable bottom - non-mineralized		
	[AT: 447'6" - 450'	20901	tr
	450' - 452'6"	20902	tr
	452'6" - 455'	20903	tr
	455' - 457'6"	20904	tr
	457'6" - 460'	20905	tr
	461'9" - 462'3" - quartz vein - contacts; 50° top, 50° bottom - trace pyrite associated with lower contact		
	[AT; 460' - 462'6"	20906	tr
	462'6" - 465'	20907	030
	465'4" - 465'8" - quartz vein - contacts; 45° top, 45° bottom - one pyrite cube with-		

# DIAMOND DRILL LOG

JOHN KIRWAN & ASSOCIATES LTD.  
**EARTH RESOURCE ASSOCIATES**

LOCATION  
 GRID REFERENCE  
 AZIMUTH  
 DIP TESTS  
 CORE  
 DRILLED BY  
 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	in quartz		
466'10"-469'	- quartz vein - contacts; 60° top, 360° bottom - abundant calcite stringer - chlorite - trace medium grained subhedral pyrite associated with upper contact		
[AT: 465'-467'6"]		20908	tr
467'6"-470'		20909	tr
472'3"-472'3 1/2"	- quartz stringer - contacts; 70° top, 70° bottom - chlorite alteration - trace - 1% medium grained subhedral pyrite associated with chlorite alteration		
472'5"-472'7"	- quartz stringers - contacts; 40° top, 40° bottom - 40% very coarse grained euhedral pyrite associated along contacts and within quartz		
[AT: 470'-472'6"]		20910	D38
474'-474'8"	- calcite veins - contacts; 30° top, 0° bottom - dark green chlorite alteration - trace - 1% chalcopyrite within calcite veins - trace - 1% pyrite associated		

# DIAMOND DRILL LOG

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JOHN KIRWAN & ASSOCIATES LTD.  
**EARTH RESOURCE ASSOCIATES**

LOCATION  
 GRID REFERENCE  
 AZIMUTH  
 DIP TESTS  
 CORE  
 DRILLED BY  
 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	with contact		
	[ AT : 472'6" - 475'	20987	tr
	475' - 480'	20987	017
	480' - 485'	20988	tr
	485' - 490'	20989	tr
	490' - 495'	20990	tr
498'-670'	- fine to medium grained moderate green to dark green mafic volcanic		
	- abundant calcite stringers from 0° - 90°		
	- chlorite alteration		
	- carbonated matrix		
	- minor quartz/calcite stringers at 0° - 90°		
	- no shearing		
	- trace - 2% subhedral fine to medium grained pyrite cubes		
	[ AT: 495' - 500'	20991	tr
	500' - 505'	20992	tr
	505' - 510'	20993	tr
	510 - 515	20994	tr
	515' - 520'	20995	tr
	520' - 525'	20996	tr
	525' - 530'	20997	tr
	530' - 535'	20998	tr
	535'6" - 557' - gabbro		
	- contacts; 70° top, undeterminable bottom.		
	- fine to medium grained		

# DIAMOND DRILL LOG

JOHN KIRWAN & ASSOCIATES LTD.  
**EARTH RESOURCE ASSOCIATES**

LOCATION  
 GRID REFERENCE  
 AZIMUTH  
 DIP TESTS  
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 DRILLED BY  
 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	grains within a lighter green aphanitic matrix		
	- no shearing		
	- trace pyrite mineralization		
	- at 538' - 538'6" - xendolith		
	within gabbro; composed of gabbroic material which is coarser grained than surrounding gabbro and lighter coloured		
	[AT: 535' - 540'	20999	tr
	540' - 545'	21000	tr
	545' - 550'	5501	tr
	550' - 555'	5502	tr
	555' - 560'	5503	tr
	564'7" - 568'3" - calcite/epidote/quartz vein system.		
	- contacts; undeterminable top; 50° bottom		
	- minor Fe <sub>2</sub> O <sub>3</sub> stringers at $\approx 15^\circ$		
	- minor chlorite alteration		
	- trace subhedral-anhedral pyrite associated with contacts		
	[AT: 560' - 565'	5504	tr
	565' - 570'	5505	DID
	570' - 575'	5506	tr
	578'3" - 578'5" - abundant ground		
	- possible fault zone		
	- contacts; 50° top, 50° bottom		

# DIAMOND DRILL LOG

JOHN KIRWAN & ASSOCIATES LTD.  
**EARTH RESOURCE ASSOCIATES**

LOCATION  
 GRID REFERENCE  
 AZIMUTH  
 DIP TESTS  
 CORE  
 DRILLED BY  
 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	- non-mineralized		
	[ AT: 575' - 580'	5507	tr
	581' - 598' - gabbro		
	- undeterminable contacts		
	- chlorite stringers with minor Fe <sub>2</sub> O <sub>3</sub>		
	- common calcite stringers		
	- trace - 1% subhedral dis- seminated pyrite		
	[ AT: 580' - 585'	5508	tr
	585' - 590'	5509	tr
	590' - 595'	5510	tr
	595' - 600'	5511	tr
	600' - 605'	5512	tr
	605' - 610'	5513	tr
	610' - 615'	5514	tr
	615' - 620'	5515	010
	620' - 625'	5516	020
	625' - 630'	5517	tr
	629' - 636'5" - gabbro		
	- undeterminable contacts		
	- calcite stringers at 220° associated with Fe <sub>2</sub> O <sub>3</sub>		
	- trace subhedral dis- seminated pyrite		
	[ AT: 630' - 635'	5518	tr
	635' - 640'	5519	tr
	640' - 645'	5520	tr
	645' - 650'	5521	tr
	650' - 655'	5522	020
	665' - 660'	5523	tr
	660' - 662'6"	5524	030



# DIAMOND DRILL LOG

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JOHN KIRWAN & ASSOCIATES LTD.  
**EARTH RESOURCE ASSOCIATES**

LOCATION  
 GRID REFERENCE  
 AZIMUTH  
 DIP TESTS  
 CORE  
 DRILLED BY

DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	662'6" - 665'	20912	tr
	666'8" - 667' - calcite vein		
	- undeterminable contacts		
	- non-mineralized		
	[ AT: 665' - 667'6"	20913	tr
	667'6" - 670'	20914	tr
670' - 704'	medium grained silicified? grey green intermediate volcanic - carbonated (minor) matrix - possible tuffaceous unit - trace coarse grained disseminated pyrite		
	[ AT: 670' - 672'6"	20915	tr
	672'6" - 675'	20916	tr
	675' - 677'6"	20917	tr
	677'6" - 680'	20918	tr
	680' - 682'6"	20919	tr
	682'6" - 685'	20920	tr
	685' - 685'6" - calcite vein		
	- undeterminable contacts		
	- black chlorite alteration		
	- non-mineralized		
	686'10" - 687' - quartz veined		
	- contacts; 45° top, 45° bottom		
	- non-mineralized		
	[ AT: 685' - 687'6"	20921	tr
	689'2" - 689'5" - quartz stringers		
	- contacts; 25° top, 25° bottom		
	- non-mineralized		
	689' - 691' - highly carbonated zone		

# DIAMOND DRILL LOG

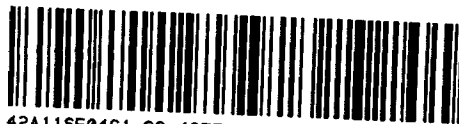
JOHN KIRWAN & ASSOCIATES LTD.  
**EARTH RESOURCE ASSOCIATES**

LOCATION  
 GRID REFERENCE  
 AZIMUTH  
 DIP TESTS  
 CORE  
 DRILLED BY  
 DIP ANGLE

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-abundant green talc/ serpentine		
	[AT: 687'6" - 690'	20922	029
691'-692'2"	- quartz vein		
	- undeterminable contacts		
	- minor talc fragments		
	- minor chlorite fragments		
	- trace - 1% chalcopyrite and pyrite associated with lower contacts		
692'3" - 692'5"	- quartz vein		
	- undeterminable contacts		
	- dolomite/calcite stringers		
	- non-mineralized		
	[AT: 690' - 692'6"	20923	001
693' - 693'5"	- soft gouge		
	- possible fault zone		
	- contacts; 80° top, 80° bottom		
	- non-mineralized		
693'5" - 693'8"	- fragmental		
	- calcite/chlorite fragments		
	- volcanic matrix		
	- trace medium grained anhedral pyrite		
694'6" - 694'6½"	- quartz stringer		
	- contacts; 75° top, 75° bottom		
	- non-mineralized		
694'11½" - 695'	- quartz stringer		
	- contacts; 75° top, 75° bottom		
	- non-mineralized		
	[AT: 692'6" - 695'	20924	077
700'8" - 700'8½"	- quartz stringer		





# Davidson Tisdale Mines Limited



Box 65,  
Toronto-Dominion Centre,  
Toronto, Ontario,  
M5K 1E7  
(416) 863-1000

January 6, 1984

## LETTER TO SHAREHOLDERS OF DAVIDSON TISDALE MINES LIMITED

The Company is pleased to announce that it has successfully completed the raising of the \$2 million U.S. dollars referred to in our earlier announcements.

The Company's 1983 work programme surpassed the estimated schedules and was carried out under budget. Our goal to develop a detailed section of the existing mine ore structure has been completed and this will allow reserve tonnage calculations early in 1984.

### RECENT EXPLORATION RESULTS

#### D.D.H. # 101

<u>FROM</u>	<u>TO</u>	<u>INTERSECTION</u>	<u>OZS.40/TON</u>
216'	265'	49'	.276
285'	415'	30'	.361

The above results are significant in that this hole represents a new discovery area in a mixture of black sedimentary rocks very different from the quartz vein structure within the existing mine.

#### RE-LOGGING AND RE-ASSAY HOLE # D10

To improve our knowledge of the geology of the property, previous core set aside by Dome Mines in 1981 from the above hole was split and assayed:

#### D.D.H. # D10

<u>FROM</u>	<u>TO</u>	<u>INTERSECTION</u>	<u>OZ./TON</u>
75'	80'	5'	1.109
190'	195'	5'	.809
241'	246'	5'	.174
406'	411'	5'	.107

The significance of these results, which are not quartz vein related, is the apparent continued gold mineralization within what were previously considered barren areas of the property. Follow up assaying is continuing.

1984 WORK PLAN

To enable the Company to establish proven ore reserves from the existing sections, step out drilling is now underway. To accelerate this programme, one additional drill will be placed in operation by January 30, 1984 and a third drill to test the sedimentary structure outside the ore body should be on site by mid February.

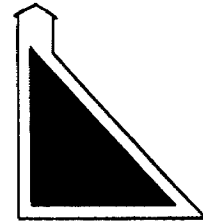
Your management is most encouraged with the results of the programme to-date and should the continuity of results often associated with sedimentary structures prove positive, we should be able to outline a significant bonus tonnage in 1984.

William G. Dingwall  
President



WGD:pmp

# Davidson Tisdale Mines Limited



Box 65,  
Toronto-Dominion Centre,  
Toronto, Ontario,  
M5K 1E7  
(416) 863-1000

February 20, 1984

## MEMORANDUM TO SHAREHOLDERS OF DAVIDSON TISDALE MINES LIMITED

Further to our recent releases on our step-out drilling programme, we are now in receipt of assay results from Diamond Drill Hole #28:

D.D.H. # 28

<u>FROM</u>	<u>TO</u>	<u>INTERSECTION</u>	<u>AVERAGE OZ. AU/TON</u>
415'	485'	70'	.449

The above results confirm the extension westward of the main ore zone.

Your management is most encouraged with these results and we look forward to continued success with our exploration programme.

Kenneth R. Kent  
Vice President Operations

KRK:pmp



# Davidson Tisdale Mines Limited

(416) 487-4715

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90 Eglinton Avenue East, Toronto, Ontario, M4P 2Y3

March 12, 1984

## LETTER TO SHAREHOLDERS

We wish to report that the previously announced Agreement with Getty Canadian Metals, Limited was ratified by the Shareholders at the meeting of March 1st, 1984.

Simultaneously, with the ratification of the new Shareholders' Agreement, Getty Canadian Metals, Limited, has taken possession of the property for the purposes of carrying out their programme and is actively engaged in an extensive drilling programme for the purposes of meeting its obligations under the Agreement.

This Agreement requires Getty to spend \$2,000,000.00 (or pay the difference) during Phase I of their Agreement which will be performed during the year 1984.

The Company prior to turning the property over to Getty completed 34 holes. The assay results from the last three of these holes are not yet available, however, we believe the visible results to be encouraging.

Since the Company is not now in a position of spending further funds on the property at present due to Getty's commitment, the Company is left with a substantial treasurer in excess of \$1,500,000.00 which it proposes to keep in reserve for further work on the property and to also partly explore other properties in the Hemlo area in which the Company has a joint interest but which it has not had the opportunity until this date to direct its attention.

The Company will be reporting to you further from time to time as our plans develop and as the results from the various explorations require further reports.

The Company expects to have its Annual Report out shortly and will give a full review including a current evaluation of the property prior to the Getty takeover by the Company Geologist.

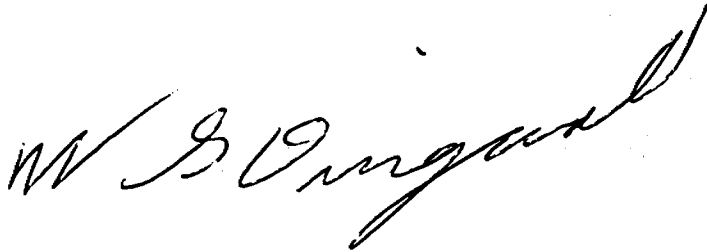
Management is most encouraged by the developments to date and it in effect has through its transaction acquired in the opinion of the Company's Management, a strong joint venturer with a lot of expertise and ability to apply to the property.

The scope of the programme proposed by the joint venturer, Getty, is beyond what would have ordinarily been within the financial capabilities of the Company. The Company has retained its independent Consultant, Dr. Kirwan, on a retainer basis in order to supervise the Company's interests in the property and to report independently to the Company from time to time as required.

The Company looks forward to a season as successful as last year and is encouraged both by current events and the past results which have been obtained and will be reporting to you more fully with the Annual Report in due course.

Yours truly,

DAVIDSON TISDALE MINES LIMITED

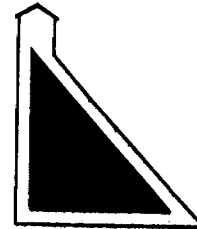
A handwritten signature in cursive script, appearing to read "W. G. Dingwall".

W. G. Dingwall  
President

WGD:agv



## Davidson Tisdale Mines Limited



Box 65,  
Toronto-Dominion Centre,  
Toronto, Ontario,  
M5K 1E7  
(416) 863-1000

November 28, 1983

## LETTER TO SHAREHOLDERS

In our letter of November 4, 1983 we gave you the following results from diamond drill hole #17:

D.D.H. #17	<u>from</u>	<u>to</u>	<u>Intersection</u>	<u>Ozs. Au/Ton</u>
	125'	155'	30'	0.10
	290'	346'	56'	0.237

We have re-assayed the 56' section using a more thorough and dependable method of assaying. These new assays are as follows:

D.D.H. #17	290'	346'	56'	0.346
------------	------	------	-----	-------

As a result of the difference in the assay values, we propose to re-assay several of the interesections from previous drill holes as well as a selected group of samples from the several open pits and underground.

D.D.H. #18 is currently being assayed and will be reported to you as results become available.

Hole #20 has been completed. Zone 1 assayed .245 ounces of gold from 162½ - 170 feet, .1 ounce of gold from 332½ - 365 feet representing a true thickness of 22 feet.

Yours truly,

W. G. Dingwall  
President

DAVIDSON TISDALE MINES LIMITED

INTERIM FINANCIAL STATEMENTS

FOR THE NINE MONTHS ENDED SEPTEMBER 30, 1983

(UNAUDITED)

Howard M. Freeman  
Chartered Accountant

DAVIDSON TISDALE MINES LIMITED

STATEMENT OF DEFICIT

For the nine months ended September 30, 1983

(Unaudited)

	<u>1983</u>	<u>1982</u>
BALANCE AT BEGINNING OF THE PERIOD	\$117,972	\$ 57,398
Deferred expenditure written off	<u>78,743</u>	<u>24,689</u>
BALANCE AT END OF THE PERIOD	<u>\$196,715</u>	<u>\$ 82,087</u>

DAVIDSON TISDALE MINES LIMITED

BALANCE SHEET

SEPTEMBER 30, 1983

(Unaudited)

	<u>1983</u>	<u>1982</u>
<b>ASSETS</b>		
<b>CURRENT</b>		
Bank balance	\$ <u>25,810</u>	\$ <u>564</u>
<b>OTHER</b>		
Patented mining claims and surface rights	19,029	19,029
Organization expenses	2,598	2,598
Deferred exploration expenditure	1,081,807	-
Joint venture exploration - 50% share	55,690	-
Investment in shares of Shiningtree Gold Resources Inc. (market value \$325,000), at cost	<u>200,000</u>	<u>-</u>
	<u>1,359,124</u>	<u>21,627</u>
Total Assets	<u>\$1,384,934</u>	<u>\$ 22,191</u>
<b>LIABILITIES</b>		
<b>CURRENT</b>		
Accounts payable	\$ 289,754	\$ 1,213
Loans payable	<u>150,590</u>	<u>62,060</u>
Total Liabilities	<u>440,344</u>	<u>63,273</u>
<b>SHAREHOLDERS' EQUITY (DEFICIENCY)</b>		
<b>CAPITAL STOCK</b>		
Authorized		
20,000,000 common shares, without par value		
500,000 Class "A" shares for nominal value		
Issued		
7,200,020 common shares	2,400,005	1,300,005
300,000 Class "A" shares	<u>300</u>	<u>-</u>
	2,400,305	1,300,005
Less: Discount on common shares	<u>1,259,000</u>	<u>1,259,000</u>
	1,141,305	41,005
DEFICIT (Statement 2.)	<u>(196,715)</u>	<u>(82,087)</u>
	<u>944,590</u>	<u>(41,082)</u>
	<u>\$1,384,934</u>	<u>\$ 22,191</u>

Statement 1.

DAVIDSON TISDALE MINES LIMITED

STATEMENT OF DEFERRED EXPLORATION

AND ADMINISTRATIVE EXPENDITURE

For the nine months ended September 30, 1983

(Unaudited)

	<u>1983</u>	<u>1982</u>
ADMINISTRATION		
General, office and printing	\$ 3,189	\$ 1,170
Interest and bank charges	45	24
Legal and audit	48,788	1,729
Listing fee	300	-
Property and acreage tax	568	133
Public relations	13,795	7,490
Share certificate costs	5,835	-
Transfer agent fees	17,298	1,074
Travel	917	2,046
	<u>90,735</u>	<u>13,666</u>
INTEREST EARNED	<u>(11,992)</u>	<u>-</u>
	<u>78,743</u>	<u>13,666</u>
EXPLORATION		
Contracting costs	745,376	7,923
Drilling and mining	61,945	-
Geologist services	8,398	3,100
Geophysical exploration	178,855	-
	<u>994,574</u>	<u>11,023</u>
INCREASE OF DEFERRED EXPENDITURE	1,073,317	24,689
BALANCE AT BEGINNING OF PERIOD	<u>87,233</u>	<u>-</u>
	1,160,550	24,689
Less: Amounts written off to deficit	<u>78,743</u>	<u>24,689</u>
BALANCE AT END OF PERIOD	<u>\$1,081,807</u>	<u>\$ -</u>

DAVIDSON TISDALE MINES LIMITED

STATEMENT OF CHANGES IN FINANCIAL POSITION

For the nine months ended September 30, 1983

(Unaudited)

	<u>1983</u>	<u>1982</u>
SOURCE OF FUNDS		
Issue of common shares	\$1,100,000	\$ -
Issue of Class "A" shares	300	-
Interest on term deposits	<u>11,992</u>	<u>-</u>
	<u>1,112,292</u>	<u>-</u>
APPLICATION OF FUNDS		
Administration expenditure	90,735	13,666
Exploration expenditure	994,574	11,023
Contributions to joint venture exploration	55,690	-
Purchase by private placement of 500,000 shares in Shiningtree Gold Resources Inc.	<u>200,000</u>	<u>-</u>
	<u>1,340,999</u>	<u>24,689</u>
DECREASE IN WORKING CAPITAL	228,707	24,689
WORKING CAPITAL DEFICIENCY - beginning of period	<u>185,827</u>	<u>38,020</u>
WORKING CAPITAL DEFICIENCY - end of period	<u>\$ 414,534</u>	<u>\$ 62,709</u>