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INTERNATIONAL GEOSYSTEMS CORPORATION

R.G.C. Exploration Pty Ltd
DUNDAS

PAGE: 1 DATE: 18 JUL 91

SURFACE DIAMOND DRILLHOLE : MZ003

PROJECT IDEN : DUNDAS
COLLAR NORTHING: 66620.00
DRILLED BY :D.D.T

START DATE : 22 MAR 90
COLLAR EASTING : 72582.00
TOTAL LENGTH : 280.50

COMPLETION DATE : 4 APR 90
COLLAR ELEVATION: 350.00
CORE/HOLE SIZE : HQNQ

LOGGED BY:DAVID JOHN CROSSING
GRID AZIMUTH : 0.00

SURVEY FLAG	SURVEY POINT LOCATION	FORESIGHT	AZIMUTH (DEGREES)	VERTICAL ANGLE (DEGREES)	NORTHING	EASTING	ELEVATION
000	0.00		227.00	-50.00	66620.00	72582.00	350.00
001	34.00		277.00	-50.00			
002	64.00		275.00	-49.00			
003	94.00		274.00	-47.00			
004	124.00		273.00	-46.50			
005	154.00		272.00	-47.00			
006	184.00		270.00	-47.00			
007	214.00		272.30	-48.00			
008	244.00		270.00	-48.00			
009	274.00		264.50	-47.50			

	Interval From (m)	To (m)	Rec. (m)	RQD (m)	Description	Formation
	0.00	7.00			PRECOLLAR.	
	7.00	13.90	6.5		SILTSTONE: grey tan, moderately weathered, finely bedded, strongly jointed, exceptionally broken, bedding: 50 degree angle to c.a., gradational base. 7.00- 13.90: 30% INTER BEDDED SANDSTONE: medium light tan, finely bedded, jointed, 1% fe-oxides joint linings.	DUNDAS GROUP
	13.90	15.80	1.1		CONGLOMERATE: highly weathered, medium bedded, jointed, soft, exceptionally broken, 1% fe-oxides joint linings.	DUNDAS GROUP
	15.80	21.00	5.2		CALCAREOUS SILTSTONE: light gray, slightly weathered, medium bedded, firm, moderately broken, bedding: 65 degree angle to c.a., joint set: 45 degree angle to c.a..	DUNDAS GROUP
	21.00	37.50	1.6		CALCAREOUS CONGLOMERATE: medium gray, massive, fractured, hard, moderately broken, coarse sand, small pebble, 40% coarse, large pebble, intermediately sorted, rounded, moderately low sphericity, microfault: 50 degree angle to c.a., sharp irregular base, 0.1% fuchsite interstitial.	DUNDAS GROUP
R	21.00	37.50			POLYMICT, MOSTLY STRONGLY DOLOMITIC MATRIX, VARIABLE PEBBLE TO MATRIX SUPPORTED, WITH PEBBLES OF BUFF TUFF, GREY TUFFACEOUS SILTSTONE, RED & WHITE CHERT, CARBONATE, QUARTZ, BLACK SHALE ETC. MINOR FUCHSITIC PATCHES IN MATRIX. MANY CHERT PEBBLES	
R	21.00	37.50				
R	21.00	37.50				
R	21.00	37.50				

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SURFACE DIAMOND DRILLHOLE : MZ003 (CONTINUED)

	Interval		Rec.	RQD	Description	Formation
	From (m)	To (m)	(m)	(m)		
R	21.00	37.50			RESEMBLE THE SILICEOUS ROCK FROM 122.35 - 125.6M, BUT WITHOUT CHROME.	
R	21.00	37.50				
			1.6		21.00- 21.10: 100% FAULTED CONGLOMERATE: medium gray, moderately silicified, vuggy, fractured, hard, moderately broken, coarse sand, small pebble, 40% coarse, large pebble, intermediately sorted, rounded, moderately low sphericity, fault: 45 degree angle to c.a., sharp irregular base, .03% carbonate veins of, 0.1% fuchsite interstitial, 3 % fe-oxides infilling shear/fault, .03% pyrrhotite.	DUNDAS GROUP
					27.85- 28.00: 100% VEIN: vein: 45 degree angle to c.a., 60% quartz veins of, 10% carbonate interstitial, 5% calc interstitial, 3 % pyrrhotite.	
			1.6		35.10- 36.20: 100% CALCAREOUS CONGLOMERATE: medium gray, microfaults, fractured, hard, moderately broken, coarse sand, small pebble, 40% coarse, large pebble, intermediately sorted, rounded, moderately low sphericity, microfault: 45 degree angle to c.a., sharp irregular base, 0.1% fuchsite interstitial, 3 % pyrrhotite.	DUNDAS GROUP
	37.50	40.20	2.7		SILTSTONE: medium gray, medium bedded, hard, slightly broken, bedding: 35 degree angle to c.a., sharp irregular base, 0.3% carbonate veins of, 0.1% pyrite veins of, 0.1% pyrrhotite.	DUNDAS GROUP
	40.20	41.20	1.0		CALCAREOUS SANDSTONE: medium gray, medium bedded, hard, moderately broken, coarse sand, bedding: 30 degree angle to c.a., faulted base, .03% carbonate veins of, .03% pyrite veins of, .03% sphalerite veins of.	DUNDAS GROUP
R	40.20	41.20			CONGLOMERATE IS MATRIX SUPPORTED (STRONGLY CARBONATED) AND GRADES INTO IMPURE PEBBLEY DOLOMITIC SANDSTONE, MINOR SILTSTONE.	
R	40.20	41.20				
R	40.20	41.20			40.20- 41.20: 30% CALCAREOUS INTERGRADATIONAL CONGLOMERATE: large pebble, vein: 25 degree angle to c.a..	
	41.20	42.05	0.8		CONGLOMERATE: medium dark grey, fractured, microfaults, hard, moderately broken, large pebble, fracture set: 20 degree angle to c.a., sharp planar base, 3 % pyrrhotite 3 % sphalerite in fractures.	DUNDAS GROUP
	42.05	45.50	3.5		SILTSTONE: finely bedded, medium bedded, microfaults, bedding: 35 degree angle to c.a., sharp irregular base, .03% carbonate veins of.	DUNDAS GROUP
R	42.05	45.50			WITH MINOR DOLOMITIC INTERBEDS.	
R	42.15	42.25			VEIN IS SUB-PARALLEL TO BEDDING.	
					42.15- 42.25: 100% VEIN: vein: 30 degree angle to c.a., 30%	

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SURFACE DIAMOND DRILLHOLE : MZ003 (CONTINUED)

	Interval		Rec.	RQD	Description	Formation
	From (m)	To (m)	(m)	(m)		
	45.50	73.60			quartz veins of, 60% pyrite veins of, 1% chalcopyrite veins of, 1% chrysotile veins of, veins of, 3 % arsenopyrite veins of.	
	45.50	73.60			CALCAREOUS CONGLOMERATE: medium gray, massive, hard, moderately broken, coarse sand, small pebble, 40% coarse, intermediately sorted, rounded, moderately low sphericity, sharp planar base, 0.3% pyrite disseminations of, .03% fuchsite interstitial.	DUNDAS GROUP
R	45.50	73.60			MOSTLY PEBBLE SUPPORTED, BUT LOCALLY MATRIX SUPPORTED, GRADING TO A PEBBLY SANDSTONE. POLYMICHT WITH PEBBLES OF TUFF ,	
R	45.50	73.60			TUFFACEOUS SILTSTONE, IMPURE LITHIC ARENITE (INTRACLASTS OF CONGLOMERATE MATRIX ?) CHERT, "SPOTTED" CHERT, SILTSTONE,	
R	45.50	73.60			CARBONATE, FUCHSITIC ROCK (UM?) ETC.	
	73.60	97.00	23.4		SILTSTONE: medium gray, massive, microfaults, hard, moderately broken, bedding: 55 degree angle to c.a., .03% carbonate veins of. 73.60- 97.00: 20% CALCAREOUS INCREASING DOWNHOLE SILTSTONE: medium light grey, medium bedded. 73.60- 97.00: 10% INTER BEDDED SILTSTONE: light brown, finely bedded, medium bedded.	DUNDAS GROUP
	97.00	101.30	4.3		SHEARED CARBONATE BRECCIA: medium light grey, highly carbonates, massive, sheared, brecciated, hard, highly broken, shear: 35 degree angle to c.a., sheared base, 50% carbonate replacive, 1% chromite disseminations of, 3 % carbonates veins of, 0.3% pyrrhotite.	
R	97.00	101.30			AN INTENSELY CARBONATED SHEARED CONTACT.	
	101.30	110.40	9.1		SILTSTONE: light brown, massive, hard, moderately broken, gradational base, 0.3% quartz veins of, 1% carbonate veins of, 0.3% talc veins of, 0.1% pyrite veins of, 0.3% chromite disseminations of.	
R	101.30	110.40			THE CARBONATE IS MOSTLY REPLACIVE, BUT ALSO INTERBEDDED, AND AS VEINING. DARK ALTERATION HALOES AROUND VEINS.	
R	101.30	110.40			101.30- 110.40: 30% INTERMIXED CARBONATE: medium gray	
	110.40	122.35	12.0		CARBONATE: medium gray, massive, hard, moderately broken, sharp irregular base, 1% quartz veins of, 3 % carbonate veins of, 0.3% pyrite veins of, 0.3% fuchsite alteration haloes of, disseminations of.	
R	110.40	122.35			BLEACHED TOWARD BASE. WEAKLY STYLOLITIC. SIMILAR TO FRAZER CREEK	

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SURFACE DIAMOND DRILLHOLE : MZ003 (CONTINUED)

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	Interval		Rec.	RQD	Description	Formation
	From (m)	To (m)	(m)	(m)		
R	110.40	122.35			CROSSING CARBONATE.SIMILAR TO MZ001 73.9 - 83.9 M.	
	122.35	125.60	3.2		QUARTZ-CARBONATE BRECCIA: palest grey, exceptionally silicified, massive, extremely hard, moderately broken, 60% quartz replacive, 30% carbonate breccia fillings of, 0.1% pyrite disseminations of, 3 % chromite disseminations of.	
R	122.35	125.60			THE ROCK CONSISTS OF A WHITE SILICEOUS/CHERTY ROCK WITH DISSEMINATED CHROMITE , WHICH HAS BEEN PARTIALLY BRECCIATED AND	
R	122.35	125.60			INFUSED WITH COARSELY CRYSTALLINE CARBONATE. VERY SIMILAR TO MZ001 113.3 - 114.0 M.	
	125.60	180.90	55.3		CARBONATE QUARTZ BRECCIA: greenish gray, massive, textures obliterated by alteration, hard, moderately broken, diffuse base, 10% quartz replacive, 30% carbonate replacive, 1% talc pervasive, 0.3% chromite disseminations of, 30% carbonates breccia fillings of, 1% fuchsite pervasive, 1% chlorite pervasive.	
R	125.60	180.90			BRECCIA CHARACTERISED BY GREY -GREEN HIGHLY ALTERED ANGULAR ?	
R	125.60	180.90			CLASTS IN A CARBONATE MATRIX.CLASTS ARE VARIABLY CARBONATED	
R	125.60	180.90			AND/OR SILICIFIED.PRESENCE OF MINOR CHROMITE SUGGESTS AN	
R	125.60	180.90			ULTRA-MAFIC PRECURSOR. TECTONIC STYLOLITES SOMETIMES PRESENT.	
R	125.60	180.90			THE CARBONATE MATRIX IS GENERALLY COARSELY CRYSTALLINE.	
			55.3		170.00- 180.10: 100% CARBONATE QUARTZ BRECCIA: greenish gray, massive, textures obliterated by alteration, hard, moderately broken, diffuse base, 10% quartz replacive, 30% carbonate replacive, 1% talc pervasive, 0.3% chromite disseminations of, 30% carbonates breccia fillings of, 1% fuchsite pervasive, 1% chlorite pervasive, 1% pyrrhotite.	
			55.3		180.10- 180.90: 100% CARBONATE QUARTZ BRECCIA: greenish gray, massive, textures obliterated by alteration, hard, moderately broken, diffuse base, 10% quartz replacive, 30% carbonate replacive, 10% talc replacive, 3 % chromite disseminations of, 30% carbonates breccia fillings of, 1% fuchsite pervasive, 1% chlorite pervasive, 1% pyrrhotite.	
	180.90	182.05	1.2		SULPHIDES: medium brown, massive, textures obliterated by alteration, firm, moderately broken, diffuse base, 1% quartz interstitial, 1% carbonate interstitial, 40% talc replacive, 0.3% pyrite disseminations of, 0.3% chalcopryrite disseminations of, 40% pyrrhotite.	
R	180.90	182.05			TALCOSE MASSIVE TO SEMI-MASSIVE SULPHIDE FORMED BY REPLACEMENT	
R	180.90	182.05			OF BRECCIATED CARBONATE.	
	182.05	209.90	27.8		CARBONATE: greenish gray, massive, gradational base, 1% quartz	

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	Interval		Rec.	RQD	Description	Formation
	From (m)	To (m)	(m)	(m)		
					patches, 60% carbonate replacive, 5% talc pervasive, 3 % chromite disseminations of, 5% chlorite pervasive, trace pyrrhotite.	
R	182.05	209.90			PARTLY BRECCIATED OCCASIONAL TECTONIC STYLOLITES. CHROMITE AS BANDS AND DISSEMINATIONS.	
R	182.05	209.90			POSSIBLY A MAFIC VOLCANIC, OCCURING AS (RELATIVEY) UNALTERED REMNANTS.	
R	182.05	209.90			182.05- 209.90: 10% MAFIC: very dark gray, massive, 5% carbonate veins of.	
R	206.50	207.50			CHROMITE DISSEMINATIONS FORM A DIFFUSE BAND AT A SHALLOW ANGLE TO THE C.A.	
R	206.50	207.50			206.50- 207.50: 100% MAFIC: banding: 10 degree angle to c.a., 5% chromite disseminations of.	
	209.90	226.70	16.8		TALC CARBONATE: gray green, massive, textures obliterated by alteration, sheared, firm, moderately broken, banding: 30 degree angle to c.a., shear: 35 degree angle to c.a., diffuse base, 40% carbonate replacive, 20% talc replacive, 3 % chromite disseminations of, 5% chlorite pervasive.	
R	209.90	226.70			CHROMITE OCCURS BOTH AS DISSEMINATIONS AND DIFFUSE BANDS.	
R	209.90	226.70			OCCURS AS UNCARBONATED REMANTS.	
R	209.90	226.70			CONTAINS STYLOLITES.	
					209.90- 226.70: 10% ULTRAMAFIC: dark green, serpentized, massive.	
					214.10- 216.50: 80% DOLOMITE: medium gray, 10% carbonate veins of, 1% chromite disseminations of, 3 % chlorite pervasive.	
	226.70	231.60	4.9		ULTRAMAFIC: medium gray, bleached, spotted, hard, slightly broken, gradational base, 1% chromite disseminations of.	CAMBRIAN ULTRAMAFIC COM
R	226.70	231.60			OLIVE GREEN BECOMING DARKER TOWARD BASE. OFF-WHITE HALOES AROUND CHROMITE GRAINS, GIVES ROCK A SPOTTED APPEARANCE.	
R	226.70	231.60			SERPENTINIZATION APPEARS TO FAVOUR MORE INTENSELY SHEARED AREAS, OR VICE - VERSA.	
R	226.70	231.60			226.70- 231.60: 20% INTERMIXED SERPENTINITE: very dark green, massive, sheared, brecciated, shear: 30 degree angle to c.a., 5% muscovite veins of, 3 % chlorite veins of.	
	231.60	261.70	30.1		ULTRAMAFIC: greenish gray, massive, hard, moderately broken, banding: 55 degree angle to c.a., 3 % carbonate veins of, 1% talc veins of, 1% magnetite disseminations of, 3 % chromite disseminations of.	CAMBRIAN ULTRAMAFIC COM
					231.60- 261.70: 20% INTERMIXED SERPENTINITE: very dark green, massive, sheared, brecciated, shear: 30 degree angle to c.a., 5% muscovite veins of, 3 % chlorite veins of.	

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	Interval		Rec.	RQD	Description	Formation
	From (m)	To (m)	(m)	(m)		
R	232.00	233.00			CHROMITE OCCURS AS BANDS (TO 2CM), PODS AND DISSEMINATIONS.	
			30.1		232.00- 233.00: 100% ULTRAMAFIC: greenish gray, massive, hard, moderately broken, banding: 55 degree angle to c.a., 3 % carbonate veins of, 1% talc veins of, 1% magnetite disseminations of, 5% chromite disseminations of.	CAMBRIAN ULTRAMAFIC COM
			30.1		238.00- 240.00: 100% ULTRAMAFIC: greenish gray, massive, hard, moderately broken, banding: 55 degree angle to c.a., 3 % carbonate veins of, 1% talc veins of, 1% magnetite disseminations of, 5% chromite disseminations of.	CAMBRIAN ULTRAMAFIC COM
R	241.80	250.50			A PENETRATIVE FABRIC IS DEVELOPED IN ULTRAMAFIC AT 55 DEGREES TO C.A. AND IS VERY PAINT. STRONG SHEAR/FRACTURE SETS OCCUR IN THE SERPENTINITE PORTIONS AT 30 AND 60 DEGRESS TO C.A.	
R	241.80	250.50			THE SERPENTINITE PORTIONS AT 30 AND 60 DEGRESS TO C.A.	
R	241.80	250.50			THE FORMER SET HAS SLICKENSIDES AT 30 DEG TO C.A.	
	261.70	265.40	3.7		SERPENTINITE: very dark green, massive, hard, moderately broken, shear: 30 degree angle to c.a., gradational base, 1% disseminations of.	CAMBRIAN ULTRAMAFIC COM
R	261.70	265.40			CONTAINS OCCASIONAL FRACTURES AT 30 DEGREES TO C.A. , WITH SLICKENSIDES AT 90 DEG TO C.A.	
R	261.70	265.40				
END	265.40	280.50			ULTRAMAFIC: greenish gray, massive, hard, moderately broken, 3 % chromite disseminations of. 265.40- 280.50: 10% SERPENTINITE: very dark green, massive, sheared, shear: 50 degree angle to c.a..	CAMBRIAN ULTRAMAFIC COM