

ZAPOPAN NL

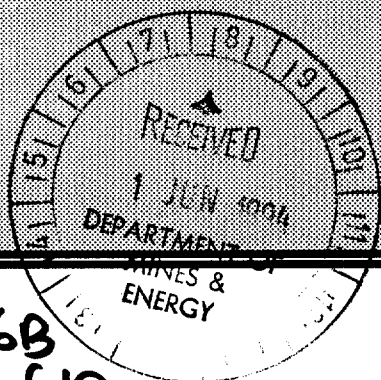
EL 5412

TALBOT HILLS
TANAMI REGION
NORTHERN TERRITORY

FIFTH ANNUAL REPORT
FOR YEAR ENDING
2ND MAY 1994

VOLUME 2 OF 10
APPENDICES 5-7

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Vol. 2 of 10



RE: Tanami
 PROJECT: _____
 PROSPECT: EL 5412

HOLE NO: JHRB 116
DEPTH: 60
DIP: -90°
AZIMUTH: Vertical

[illegible]

[illegible]

[illegible]



DATE: 16/7/93
NORTHING: 54800
EASTING: 19360
GRID: LOCAL

F DN: Tanami
PROJECT: _____
PROSPECT: EL 5412

HOLE NO:	JHRB 117
DEPTH:	60
DIP:	-90°
AZIMUTH:	Vertical

[illegible]

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 kdril
 FIG: Warman Investigator
 METHOD: RAB
 REASON FOR E.O.H: ID

DATE: 16/7/93
NORTHING: 54713
EASTING: 19790
GRID: LOCAL

F DN: Tanami
 PROJECT: _____
 PROSPECT: EL 5412

HOLE NO:	JHRB 118
DEPTH:	18
DIP:	90°
AZIMUTH:	Vertical

[illegible]



CONTRACTOR: F Kdril
 FIG: Warman Investigator
 METHOD: RAB
 REASON FOR E.O.H: TD

DATE: 17/7/93
NORTHING: 54689
EASTING: 19803
GRID: LOCAL

R N: Tanami
PROJECT: _____
PROSPECT: EL 5412

HOLE NO: JHRB 119
DEPTH: 18
DIP: -90°
AZIMUTH: Vertical

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK 1	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VENING %		MINERALIZATION			HOLE NO: JHRB 120	
From	To		Au				Au	Au(2)						BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS
			ppm				ppm	ppm																	
24	25					25082	0.14	0.13	Basalt	PP	D	G	S												minor vesicles
	26								"	"															"
	27								"	"															"
	28					25083	0.05		"	"															"
	29								"	"															"
29	30								Diorite	PP/PKBr															micas + kfelds
	31					25084	0.01		"	"															" "
	32								"	"															" "
	33								"	"															" "
	34					25085	0.01		"	PP															slightly finergrained
	35								"	"															coarse micas
	36								"	"															Tr Granitic Quartz
	37					25086	0.02		"	"															" " "
	38								"	"															" " "
	39								Dol	"															Fine Grained chl alt
39	40					25087	0.01		"	"															" " " "
	41								"	"															" " " "
	42								"	"									Tr						Tr Quartz
	43					25088	0.02		Diorite	PP/PK		M							40			10			Alt in Qtz.
	44								"	"		"					Tr		40			5	Tr		"
	45								"	"		"					Tr		30			Tr	Tr		"
	46					25089	0.29		"	"		G					"		20			"			
	47								"	"							"		"			"			
	48								"	"									10			"			
	49					25090	0.68	0.78	"	"									5						
49	50								"	"									"						
	51								"	"		M							10			Tr			

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 hadril
 FIG: _____
 METHOD: RAB
 REASON FOR E.O.H: Too hard No recovery

DATE: 17/7/93
NORTHING: 54800N
EASTING: 19350E
GRID: LOCAL

R DN: Tanami
PROJECT:
PROSPECT: EL 5412

HOLE NO: JHRB 121
DEPTH: 36m
DIP: -60°
AZIMUTH: 270°

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO: JHRB 121		
From	To		Au				Au	Au(R)						BL	Ser	Sil	Chl	Pot	Q	CO	L	H	Py	COMMENTS		
			ppm				ppm	ppm																		
24	25								Pol	PP	D	G	S				Tr									
	26								"	"							"									
	27					25103	0.15		"	PP.Br																Slightly Coarser
	28								"	"							Tr.									Tr Quartz
	29								Dior	Rd.Br																Tr Granitic quartz mica's
29	30					25104	0.32	0.32	"	"																"
	31								"	"																"
	32								"	"																Finer gr k.Felds + mica's
	33					25105	0.09		"	"																"
	34								"	"																"
	35								Dior + quartzite	Br. Gry			M													siliceous rock.
	36					25106	0.02		quartzite	Gry		Poor	Fr													"
	37					EOH	36m																			
	38					Hole stopped due to hard drilling and no recovery.																				
	39																									
39	40																									
	41																									
	42																									
	43																									
	44																									
	45																									
	46																									
	47																									
	48																									
	49																									
49	50																									
	51																									

DRILLHOLE LOG SHEET

CONTRACTOR: FI drill
RIG: _____
METHOD: RAB
REASON FOR E.O.H: wet poor recovery

DATE: 17/7/93
NORTHING: 54800
EASTING: 19390
GRID: LOCAL

RI IN: Tanami
 PROJECT: _____
 PROSPECT: EL 5412

HOLE NO: JHRB 122
DEPTH: 69m
DIP: -60°
AZIMUTH: 270°

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY-NESS	RECOV	OXID	ALTERATION					VENING %		MINERALIZATION			COMMENTS		
			From	To	Au									Au	Pt(R)	BL	Ser	Sil	Chl	Pot	Q	CO	L		H	Py
			ppm				ppm	ppm																		
0	1								Float	Br. Rd	D	G	S													
	2								chert	Br. wh																white clays (banded or bedded)
	3					25107	0.01		"	"																" "
	4								"	"																" "
	5								clays	l. Br																(banded or bedded) after bas?
	6					25108	0.01	0.01	"	"																"
	7								saprolite	wh. Br																(After Bas?) Green blebs
	8								"	"																" "
	9					25109	0.01		"	"																" minor chert
9	10								chert	Gry																
	11								"	"																white yellow clays
	12					25110	0.01		saprolite	DK Br																(After Bas) Green blebs
	13								"	PP. LGrn																" vesicles "
	14								"	"																"
	15					25111	0.02		Basalt	PP. Br																Green clasts
	16								saprolite	PP. LGrn																"
	17								"	"																"
	18					25112	0.23	0.23	"	"																" Yellow clays
	19								"	"																" "
19	20								"	"																"
	21					25113	0.22		dol	PP1																Yell Grn clays
	22								"	Rd Br																
	23								"	"																
	24					25114	0.0																			

[illegible]



DRILLHOLE LOG SHEET

CONTRACTOR: Edrill
FIG: Warman Investigator
METHOD: RAB/Hammer
REASON FOR E.O.I.I: Target Depth

DATE: 18/7/93
NORTHING: 54840
EASTING: 19380
GRID: LOCAL

RY IN: Tanami
PROJECT:
PROSPECT: EL 5412

HOLE NO: JHRB 123
DEPTH: 60m
DIP: -60°
AZIMUTH: 270

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS	
From	To		Au ppm				Au ppm	Au(e) ppm						BL	Ser	Sil	Chl	Pot	Q	CO	L	H	Py		
0	1					25131	0.02		Float	Rd.Br	D	G	S												
	2								Float + chert	"															
	3								Basalt	"															vesicles + FeOx banding.
	4					25132	0.02		"	"															"
	5								"	"															" minor chert
	6								chert	Gry/Yell															minor clays.
	7					25133	0.02		Basalt + chert	Rd.Br															" " banded.
	8								chert	Gry															
	9								clays	LBr/Gry															banded or bedded clays
9	10					25134	0.01		saprolite	1 Br															(after Basalt)? Grn. B lobs
	11								"	"															" "
	12								"	1 Grn. Br															" Green clasts
	13					25135	0.03		"	"															" "
	14								"	Yell/Br															" "
	15								"	"															" "
	16					25136	0.64	0.48	"	"															" "
	17								"	"															" "
	18								"	"															" "
	19					25137	0.48	0.35	"	"															" "
19	20								"	PP															" "
	21								Dol	PP															+ clays
	22					25138	0.22		"	"		med.					Tr	<1							
	23								"	DKPP, Br		"						<1%			1%				Otz V. Fractured
	24								"	"		G						<5			Tr				" " "

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCI	PE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATI					VEINING %		MINERALIZATION			HOLE NO: JHRG 123	COMMENTS
From	To		Au				Au	Au(2)							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	
			ppm					ppm							ppm											
24	25					25139	0.14		Dol	DKPP.Br	D	G	S						<5				Tr	Tr		
	26								"	DKPP									Tr	Tr						
	27								"	"									Tr	Tr						
	28					25140	0.11		"	"									Tr	Tr.						
	29								"	DK Rd.Br									Tr							
29	30								"	"									Tr							
	31					25141	0.09		"	"										Tr			Tr			
	32								"	"									Tr	Tr			Tr			
	33								"	"									Tr	Tr			Tr			
	34					25142	0.11		"	DK.Br									5							
	35								"	"									5	TR						
	36								"	"									Tr							
	37					25143	0.07		"	"										Tr						
	38								"	"																
	39								"	"																
39	40					25144	0.05		"	"																
	41								"	"																
	42								"	"																
	43					25145	0.01		"	"																
	44								Dior	DK Rd.Br																fields f-mica coarse
	45								"	"																" " "
	46					25146	0.01		"	"																"
	47								"	Pink/Br																"
	48								"	"																
	49					25147	0.01		"	"																Finer Grained " "
49	50								"	"																Coarse,
	51								"	"																

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VENING %			MINERALIZATION			HOLE NO: JHRB 123			
From	To		Au				Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py				
			ppm					ppm																				
51	52					25148	(0.0)		Diorite	PkBr	D	G	S															coarse K-felds + micqz
	53								"	"																		"
	54								"	"																		"
	55					25149	(0.0)		"	"																		"
	56								"	"																		"
	57								"	"																		"
	58					25150	(0.0)		"	"																		"
	59								"	"																		"
59	60								"	"																		"
	61					EOH	60m		Target Depth.																			
	62																											
	63																											
	64																											
	65																											
	66																											
	67																											
	68																											
	69																											
69	70																											
	71																											
	72																											
	73																											
	74																											
	75																											
	76																											
	77																											
	78																											

DRILLHOLE LOG SHEET

CONTRACTOR: Edredil
RIG: Warman Investigator
METHOD: RAB/Hammer
REASON FOR E.O.H.: TD

DATE: 18/7/93
NORTHING: 54840
EASTING: 19400
GRID: LOCAL

R DN: Tanami
PROJECT:
PROSPECT: EL 5412

HOLE NO:	JHRB 124
DEPTH:	63
DIP:	-60°
AZIMUTH:	266°

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK T	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO: JHRG 124		
From	To		Au	Au(a)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS	
			ppm				ppm																			
24	25	25159	0.55						slt?	Dkrd-br																
	26								"	"																
	27								"	"																
	28	160	0.12						"	"																
	29								"	"																
29	30								"	"																
	31	161	0.07	0.08					"	"																Fresh chlorite
	32								"	"																
	33								"	"																
	34	162	0.04						"	"																
	35								"	"																
	36								"	"																
	37	163	0.04						"	"									2		tr					Brccia textures in veining
	38								"	"																
	39								"	"																
39	40	164	0.05						"	"																} plus minor grd intrusive
	41								"	"																
	42								"	"																
	43	165	0.12						"	"									4		tr					
	44								"	"									10		"					
	45								"	"									60		"					
	46	166	0.10						"	"									15		"					
	47								"	"									2		"					
	48								"	"									<1		"					
	49	25167	0.06						"	"									1		"					
49	50								"	"									2		"					
	51								"	"									8		"					

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 kdril
 FIG: Warman Investigator
 METHOD: RAB/Hammer
 REASON FOR E.O.H: TD

DATE: 18/7/93
NORTHING: 54880
EASTING: 19400
GRID: LOCAL

A ON: Tanami
 PROJECT: _____
 PROSPECT: EL 5412

HOLE NO: JHRB 125
DEPTH: 63
DIP: -60°
AZIMUTH: 266°

[illegible]

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: F. Kdril
 FIG: Warman Investigator
 METHOD: RAB/Hammer
 REASON FOR E.O.H: TD

DATE: 19/7/93
NORTHING: 55200
EASTING: 19280
GRID: LOCAL

RI IN: Tanami
PROJECT: _____
PROSPECT: EL 5412

HOLE NO: JHRB 126
DEPTH: 60
DIP: -60°
AZIMUTH: 266°

[illegible]

[illegible]

[illegible]



R# Tanami
PROJECT: _____
PROSPECT: EL 5412

HOLE NO: JHRB 127
DEPTH: 52
DIP: -60°
AZIMUTH: 266°

[illegible]

[illegible]

[illegible]

Z

Zapopan NL

DRILLHOLE LOG SHEET

CONTRACTOR: F. Kdril
 RIG: Werman Investigator
 METHOD: RAB
 REASON FOR E.O.H.: ID

DATE: 19/7/93
 NORTHING: 55200
 EASTING: 19440
 GRID: LOCAL

RY: W. Tanami
 PROJECT:
 PROSPECT: EL 5412

HOLE NO: JHRB 128
 DEPTH: 58
 DIP: -60°
 AZIMUTH: 266°

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS		
From	To		Au	Au(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H		Py	
			ppb	ppb			ppm																			
0	1	25232	5	3					lat	rd-br																Qtzose float + clay
	2								"	"																
	3								fer	"									2							Ferrog sapro
	4	233	3						sap	cm																Gritty sapro + rd-br Feox
	5								"	rd-br									1			tr				Sapro → blt
	6								"	"									3			"				
	7	234	9	9					blt?	br-rd									12			"				Wthd basalt? + qtz-hm vn
	8								"	"									10			"				
	9								"	gy-br									12			"				
9	10	235	90	86					slt?	br									70			"				Mica slt? - chloritic?
	11								"	rd-br									2			"				
	12								mgd	pn-br									8			"				
	13	236	6	6					"	"									10			"				
	14								"	"									8							Granitic qtz veining
	15								blt?	br									5							Wthd chloritic basalt?
	16	237	7						"	"									2							
	17								"	"									tr							
	18								blt + grd	br + pn																Wthd basalt + granodiorite
	19	238	6						"	"																
19	20								blt?	br									6							Basalt? + granitic qtz vn
	21								"	"									tr							
	22	25239	21	25					"	"									1							
	23								"	"									tr							
	24								"	"									1							

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK 1	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO. JHRB 128	COMMENTS	
From	To		Au	Au(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py		
			ppb	ppb			ppm																			
24	25	25240	32	34				blt?	br							4										Chloritic blt? + granitic qtz vn
	26							"	"							tr										
	27							"	"							tr										
	28	241	23	25				"	"							tr										
	29							"	"							1										
29	30							"	br-rd							12			tr							Chloritic blt + qtz - lssem vn
	31	242	23					"	"							25			"							
	32							"	"							10			"							
	33							"	"							5			"							
	34	243	18	15				"	"							2			"							
	35							"	"							1			"							
	36							"	"							2			"							
	37	244	30	35				"	"							tr			"							
	38							"	"							tr			"							
	39							"	"							tr			"							
39	40	245	38	34				blt	"							4										+ granitic vn qtz
	41							"	rd-br							8			tr							Quartz - lssem veining
	42							"	"							2			"							
	43	246	18	23				"	"							1			"							
	44							"	"							8			"							Finer grained blt + qtz - lssem vn
	45							"	"							10			"							
	46	247	11	10					rd-br																	Fig. chloritic blt/slt
	47							"	br-rd																	
	48																									

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: F. Kdril
 FIG: Warman Investigator
 METHOD: RAB/Hammer
 REASON FOR E.O.H: TD

DATE: 19/7/93
NORTHING: 55200
EASTING: 19500
GRID: LOCAL

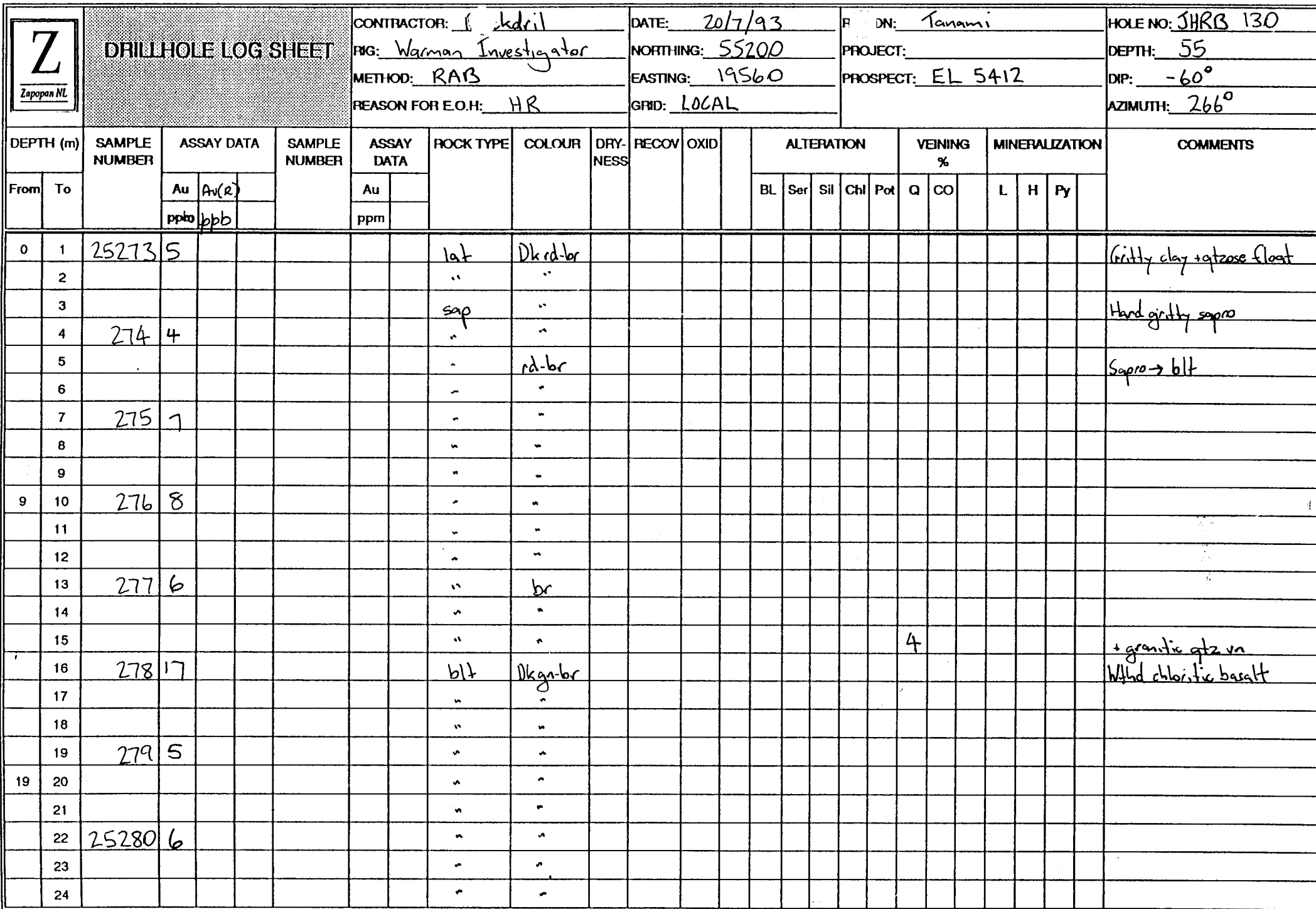
R# IN: Tanami
 PROJECT: _____
 PROSPECT: EL 5412

HOLE NO:	JHRB 129
DEPTH:	59
DIP:	-60°
AZIMUTH:	266°

[illegible]

[illegible]

[illegible]



DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO: JHRG 130			
From	To		Au	N(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS		
			ppb	ppb			ppm																				
24	25	25281	8	6					blt	Dkgn-br																	
	26								"	"																	
	27								"	"																	
	28	282	7	5					"	"																	
	29								"	"																	
29	30								"	"																	Fairly fresh chloritic blt
	31	283	4						"	"																	
	32								"	"																	
	33								"	"																	
	34	284	3	4					"	"																	
	35								"	"																	
	36								"	"																	
	37	285	9	8					"	"																	
	38								"	"																	
	39								"	rd-pp									5								Ham alt?
39	40	286	10	8					"	"									1								
	41								"	"									1								
	42								"	"									tr								
	43	287	17	20					"	"									tr								
	44								"	"									5								
	45								"	pp-br									25			tr					Minor haem coatings
	46	288	1						"	"									8								White veins gtz
	47								"	Dkgn									tr								Minor rd Feox
	48								"	"									"								
	49	25289	5						"	"									"								
49	50								"	"									"								
	51								"	"									"								Chloritic basalt

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1. kdril
 FIG: Warman Investigator
 METHOD: RAB/Hammer
 REASON FOR E.O.H: TD

DATE: 20/7/93
NORTHING: 55200
EASTING: 19640
GRID: LOCAL

R DN: Tanami
PROJECT: _____
PROSPECT: EL 5412

HOLE NO: JHRB 131
DEPTH: 57
DIP: -60°
AZIMUTH: 266°

[illegible]

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 drill
RIG: Warman Investigator
METHOD: RAB/Hammer
REASON FOR E.O.H: TD

DATE: 2017/93
NORTHING: 55200
EASTING: 19720
GRID: LOCAL

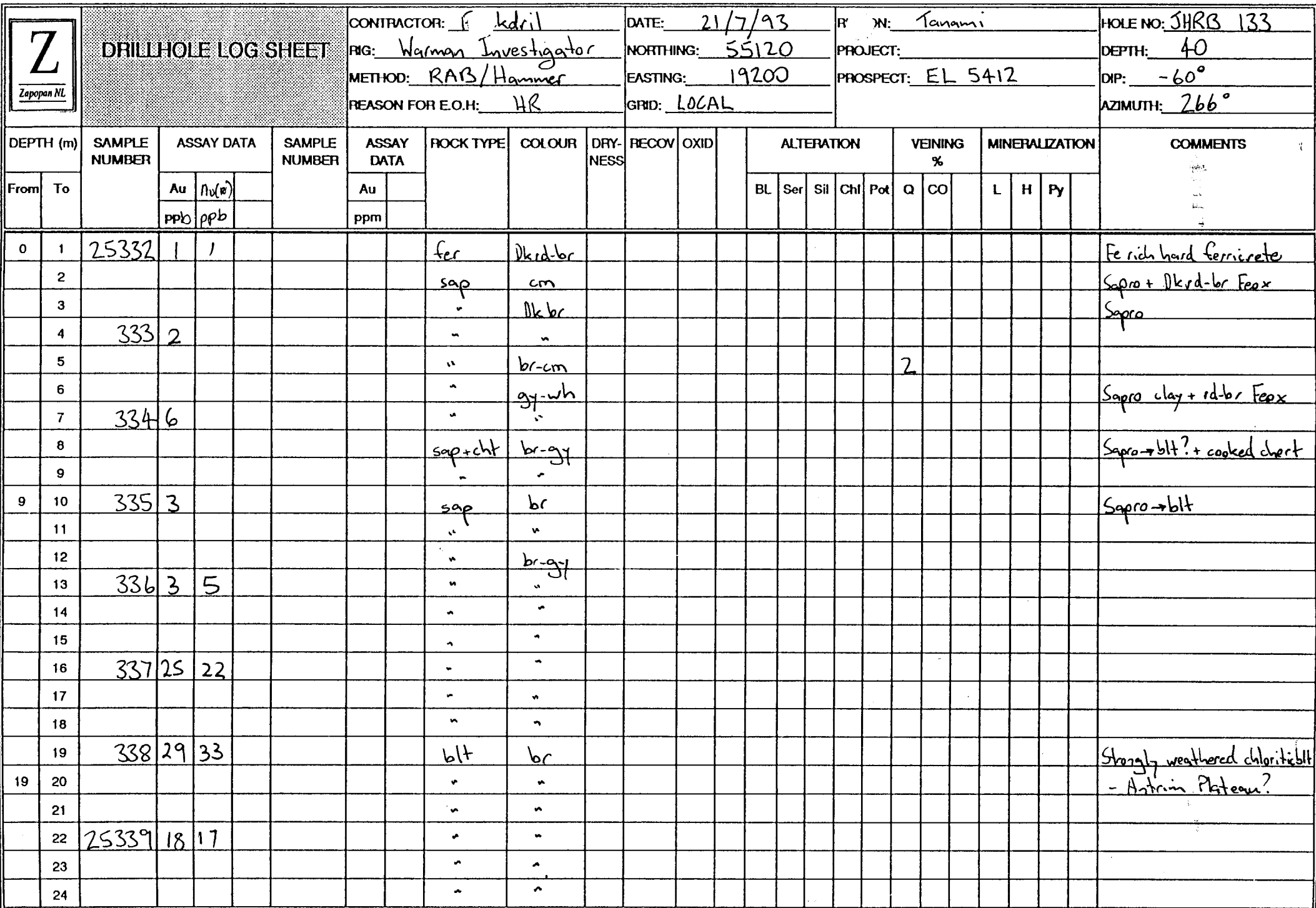
R · DN: Tanami
PROJECT: _____
PROSPECT: EL 5412

HOLE NO: JHRB 132
DEPTH: 60
DIP: -60°
AZIMUTH: 266°

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK 1	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO: JHRG 132	COMMENTS		
From	To		Au	Ag			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py			
			ppb	ppb			ppm																				
24	25	25320	5	7				blt	br-gn																		
	26							"	"																		
	27							"	"																		
	28	321	5	4				"	"																		
	29							"	"																		
29	30							"	"																		
	31	322	6	5				"	"																		
	32							"	"																		
	33							"	"																		
	34	323	7	6				"	"																		Characteristic blt + rd-br Feax
	35							"	"																		
	36							"	"																		
	37	324	5	4				"	"																		
	38							"	"																		
	39							"	"																		
39	40	325	4	4				"	gn-br																		Characteristic blt + br-rd Feax
	41							"	"																		
	42							"	"																		
	43	326	5	6				"	"																		
	44							"	"																		
	45							"	"																		
	46	327	6	6				"	"																		
	47							"	"																		
	48							"</																			

[illegible]



[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 kdril
 FIG: Timberjack
 METHOD: RAB/Hammer
 REASON FOR E.O.H: TD

DATE: 24/7/93
NORTHING: 55120
EASTING: 19240
GRID: LOCAL

R DN: Tanami
PROJECT: _____
PROSPECT: EL 5412

HOLE NO: JHRB 134
DEPTH: 49
DIP: -60°
AZIMUTH: 266°

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK T	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO: JHRB 134			
From	To		Au	N(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS		
			ppb	ppb			ppm																				
24	25	25409	190	230				sap	gy-br																		
	26							"	"																		
	27							"	"																		
	28	410	36	28				"	rd-br																		
	29							"	"																	Gitty sapro + fg mica	
29	30							mgn?	rd-gy																	Quartzose microgranite? + clay	
	31	411	8					sap	gn-wh																	Sapro + Dk rd Feox	
	32							"	"																		
	33							"	"																		
	34	412	17	14				"	"																		
	35							"	"																		
	36							slt+sst	"																		
	37	413	6	6				"	"																		Clay → slt? + quartzose sst
	38							"	"																	- probably Gardner Sandstone	
	39							mst?+sst	rd-br																		Clay + qtz sst
39	40	414	12	9				"	"																		
	41							"	"																		
	42							"	"																		
	43	415	9	10				"	"																		
	44							"	"																		
	45							"	"																		
	46	416	3	2				"	"																		As previous + minor fresh
	47							"	"																		Plgn mst/slt
	48							"</																			

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdrill

RIG: Timberjack

METHOD: RAB/Hammer

REASON FOR E.O.H: TD

DATE: 24/7/93

NORTHING: 55120

EASTING: 19280

GRID: LOCAL

F	ON:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 135

DEPTH: 40

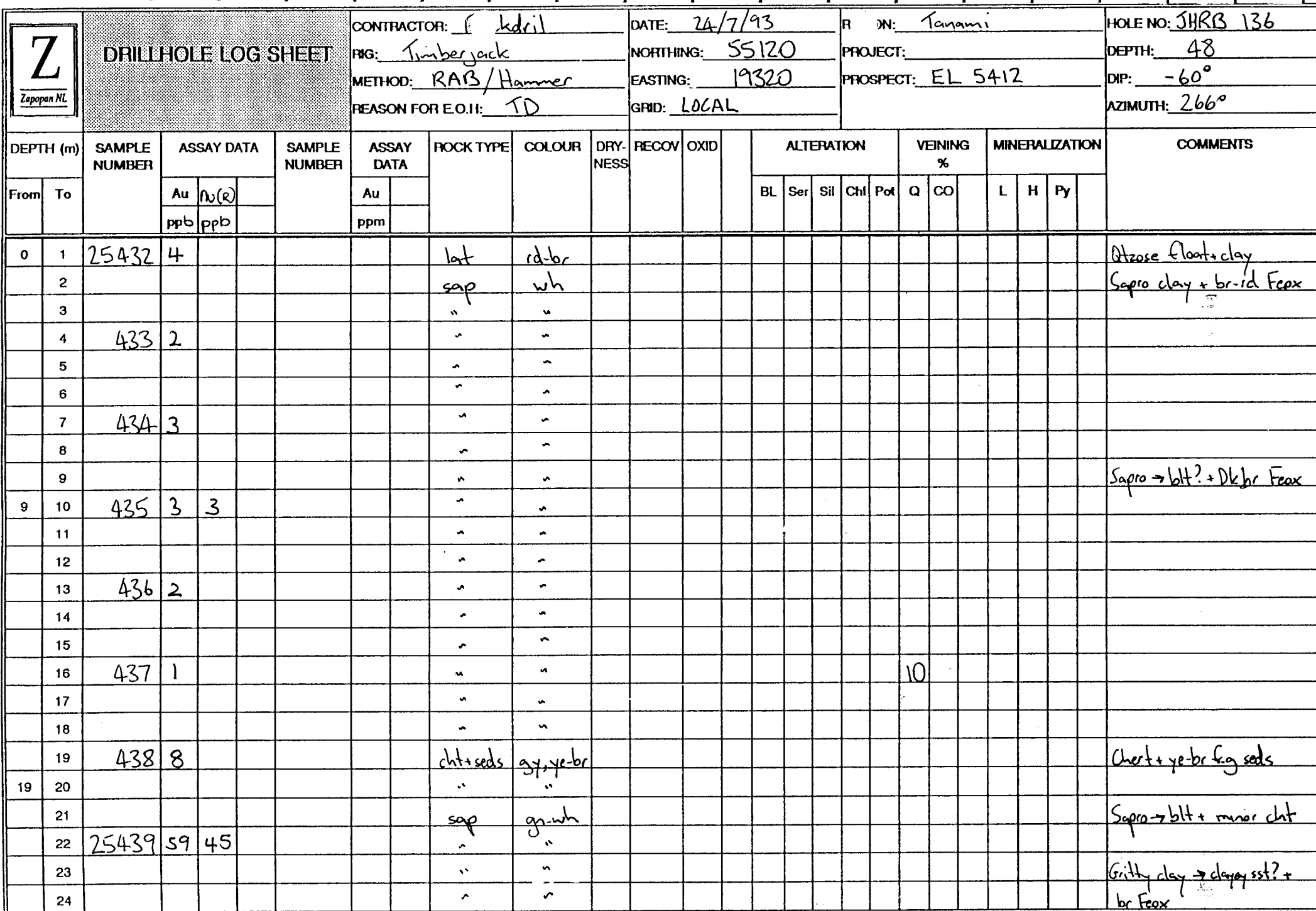
DIP: -60°

LAZIMUTH: 266°

[illegible]

[illegible]

[illegible]



DRILLHOLE LOG SHEET

CONTRACTOR: E. Kdril

RIG: Timberjack

METHOD: RAB/Hammer

REASON FOR E.O.H: TD

DATE: 24/7/93

NORTHING: 55120

EASTING: 19360

GRID: LOCAL

RI	IN:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 137
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DEPTH: 48

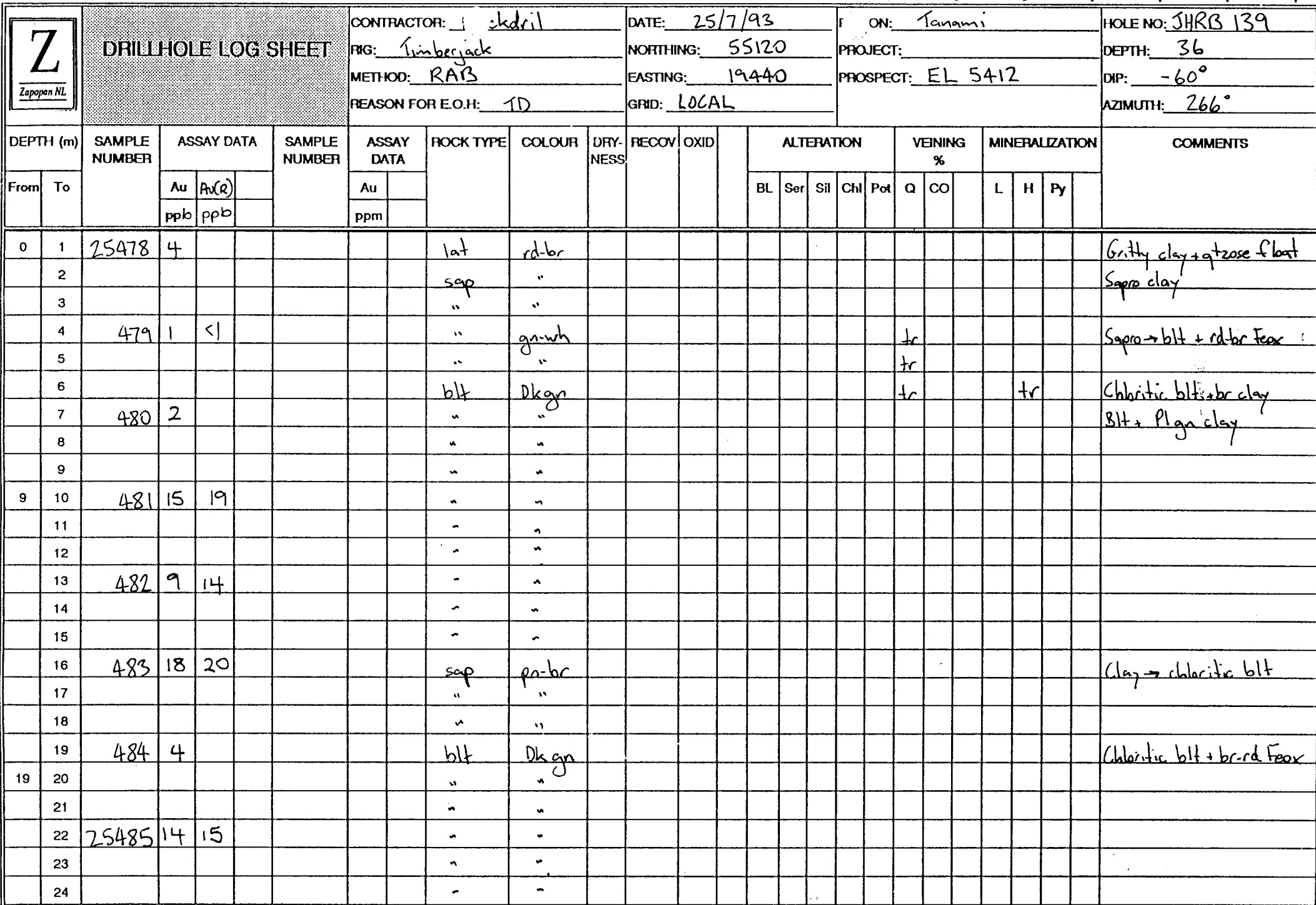
DIP: -60°

AZIMUTH: 266°

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO: JHRG 137		
From	To		Au	Au(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS	
			ppb	ppb			ppm																			
24	25	25457	7					mst+sst	gr-wh																	
	26							"	"																	
	27							"	"																	
	28	458	34	25				"	"																	
	29							"	"																	
29	30							"	"																	
	31	459	3					"	"																	
	32							"	"																	
	33							"	"																	
	34	460	10	10				sst	br-rd																	
	35							"	"																	
	36							"	"																	
	37	461	20	24				"	gy																	
	38							"	"																	
	39							"	"																	
39	40	462	6					"	"																	
	41							"	"																	
	42							"	"																	
	43	463	9	10				"	"																	
	44							"	"																	
	45							"	"																	
	46	25464	11	9				"	"																	
	47							"	"																	
	48							"	"																	
	49																									

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK T	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO: JHRG 138	
From	To		Au	Au(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO	L	H	Py	COMMENTS	
			ppb	ppb			ppm																		
24	25	25473	64	66					sap	pp-rd									15			tr		Wthd. blt + qtz-hm vein	
	26								"	"									1			"			
	27								"	Plgn														Saprophyte blt + br-rd Feox	
	28	474	9	7					grd	rd-or														Fg granodiorite	
	29								blt	Dkgn														Wthd chloritic blt + minor	
29	30								"	"														fg grd.	
	31	475	10	8					grd	rd-or									20					Fg granodiorite + fresh blt	
	32								blt	Dkgn									2					Chloritic basalt	
	33								"	"									tr			tr			
	34	25476	9						"	"									"						
	35								"	"									"						
	36								"	"									"						
	37	25477	8																					E.O.N.	
	38																								
	39																								
39	40																								
	41																								
	42																								
	43																								
	44																								
	45																								
	46																								
	47																								
	48																								
	49																								
49	50																								
	51																								



[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: chdrill

FIG: Timber jack

METHOD: RAB

REASON FOR E.O.H: 1D

DATE: 25/7/93

NORTHING: 55120

EASTING: 19480

GRID: LOCAL

ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 140

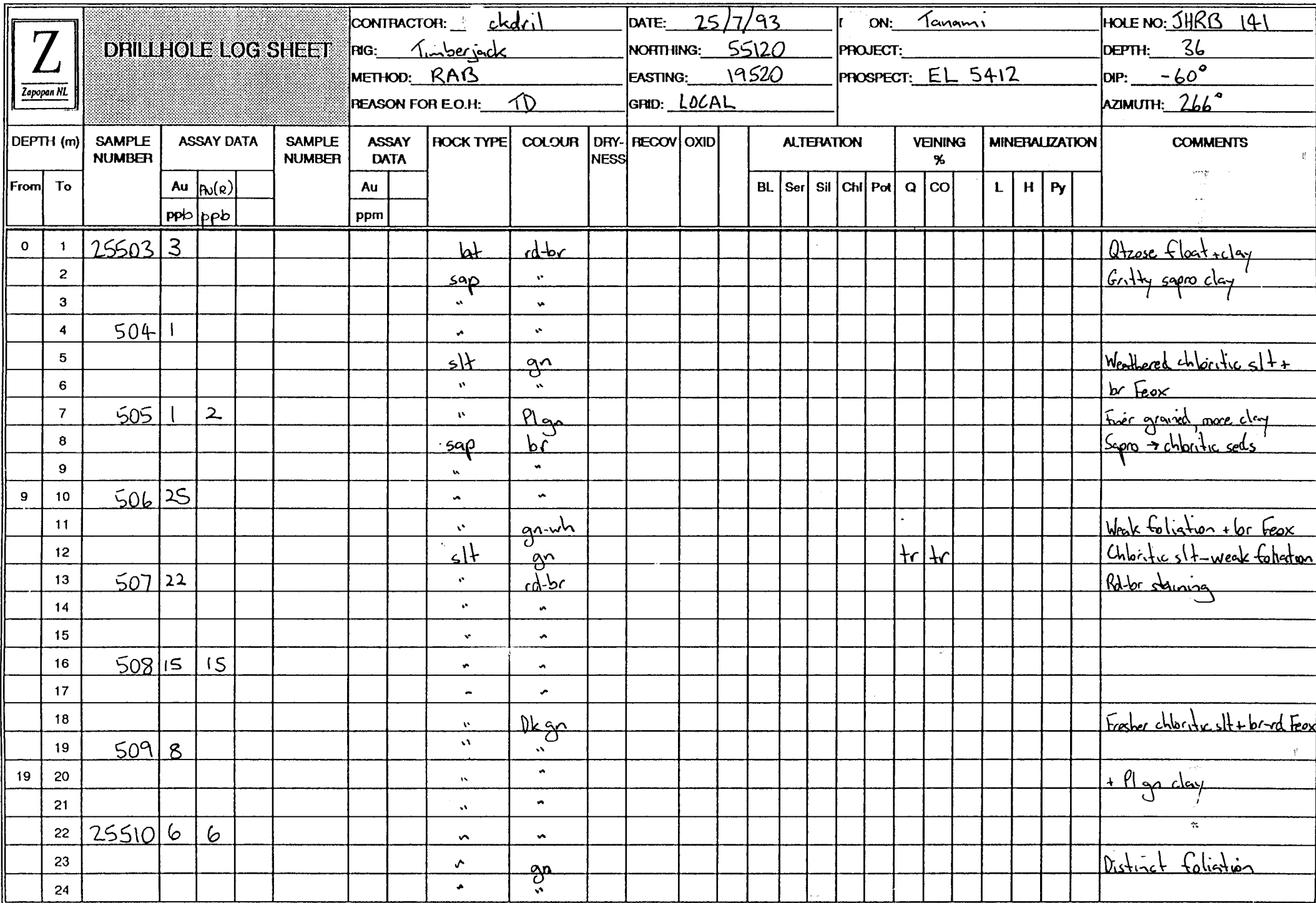
DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]



[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 2ckdril

FIG: Timberjack

METHOD: RAIB

REASON FOR E.O.H: TD

DATE: 25/7/93

NORTHING: 55120

EASTING: 19560

GRID: LOCAL

REGION: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 142

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

DRILLHOLE LOG SHEET

CONTRACTOR: 1 schadril

FIG: Timberjacks

METHOD: RAIS

REASON FOR E.O.H: TD

DATE: 25/7/93

NORTHING: 55120

EASTING: 19600

GRID: LOCAL

REGION: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 143

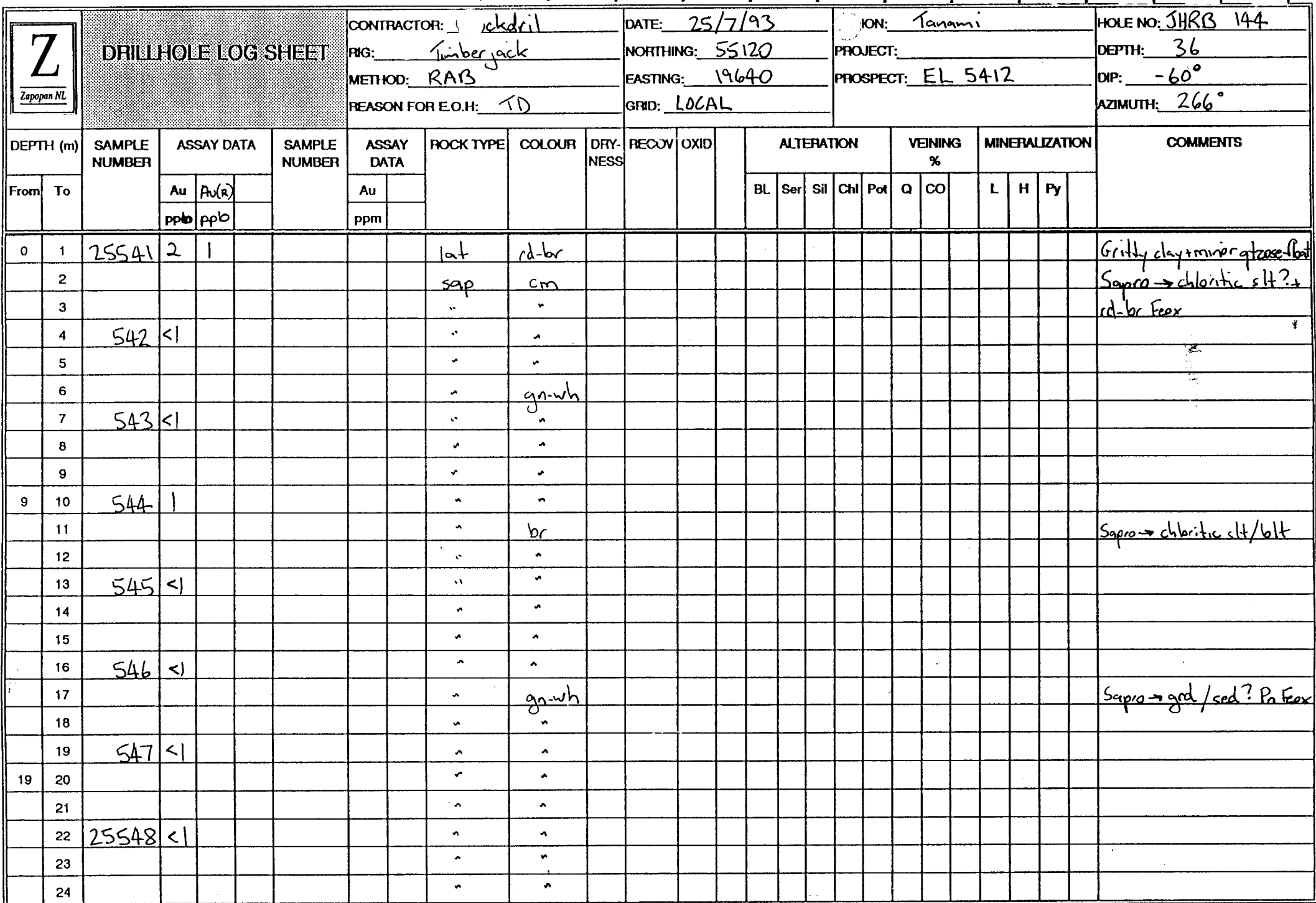
DEPTH: 39

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]



[illegible]



FIG: Timberjack

METHOD: RAIB

REASON FOR E.O.H: TD

DATE: 25/7/93

NORTHING: 55120

EASTING: 19680

GRID: LOCAL

ION: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 145
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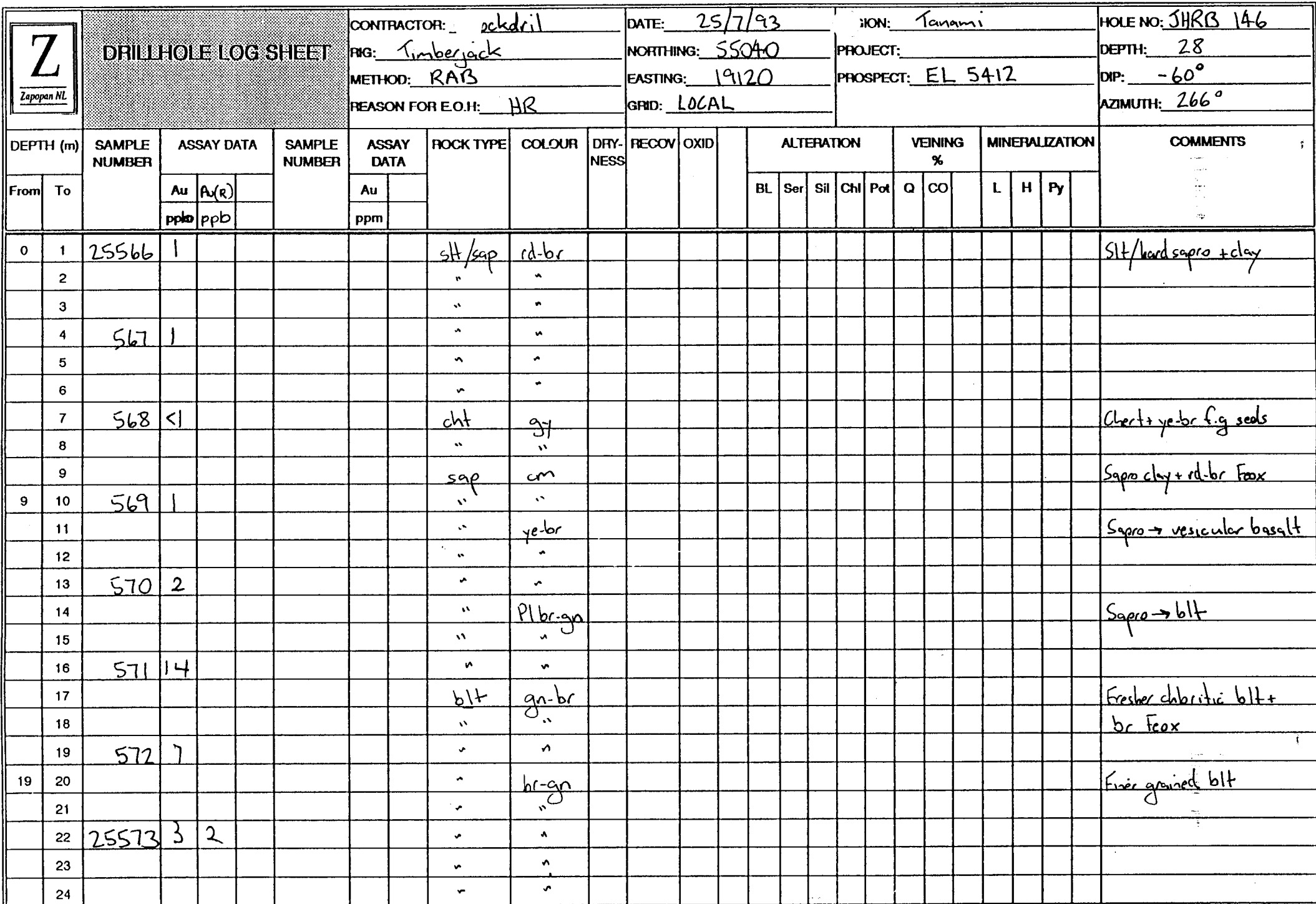
DEPTH: 36

DIP: -60°

HAZIMUTH: 266°

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO: JHRB 145	COMMENTS	
From	To		Au	Ag(R)		Au							BL	Ser	Sil	Chl	Pot	Q	CO	L	H	Py			
			ppb	ppb		ppm																			
24	25	25562	2					blt	Dkgn																
	26							"	"																
	27							"	"																
	28	563	1					"	"																+ rd-br Feox
	29							"	"																
29	30							"	"																+ br Feox
	31	564	2					"	"																
	32							"	"																
	33							"	"																
	34	25565	1					"	"																
	35							"	"																
	36							"	"																
	37																								E.O.H
	38																								
	39																								
39	40																								
	41																								
	42																								
	43																								
	44																								
	45																								
	46																								
	47																								
	48																								
	49																								
49	50																								
	51																								



[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdril

DATE: 25/7/93

ON: Tanami

HOLE NO: JHRB 147

RIG: Timberjack

NORTHING: 55040

PROJECT:

DEPTH: 33

METHOD: RAIB

EASTING: 19160

PROSPECT: EL 5412

DIP: -60°

REASON FOR E.O.H: TD

GRID: LOCAL

LAZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: ckdril

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 26/7/93

NORTHING: 55040

EASTING: 19200

GRID: LOCAL

ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 148

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 2kdrill

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 26/7/93

NORTHING: 55040

EASTING: 19240

GRID: LOCAL

FROM: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 149
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DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: ckdrill
 FIG: Timberjack
 METHOD: RAB
 REASON FOR E.O.H: 36

DATE: 26/7/93
NORTHING: 55040
EASTING: 19280
GRID: LOCAL

ON: Tanami
PROJECT: _____
PROSPECT: EL 5412

HOLE NO: JHRB 150
DEPTH: 36
DIP: -60°
AZIMUTH: 266°

[illegible]

[illegible]

		DRILLHOLE LOG SHEET				CONTRACTOR: skdrill		DATE: 26/7/93		LOCATION: Tanami		HOLE NO: JHRB 151										
						FIG: Timberjack		NORTHING: 55040		PROJECT:		DEPTH: 43										
						METHOD: RAB		EASTING: 19320		PROSPECT: EL 5412		DIP: -60°										
		REASON FOR E.O.H: TD				GRID: LOCAL				AZIMUTH: 266°												
DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		SAMPLE NUMBER	ASSAY DATA	ROCK TYPE	COLOUR	DRY-NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS
From	To		Au	Pn(R)								Au	BL	Ser	Sil	Chl	Pot	Q	CO	L	H	
			ppb	ppb		ppm																
0	1	25625	5				sap	rd-br													Sapre clay	
	2						"	"														
	3						"	"														
	4	626	2				"	br														
	5						"	"														
	6						"	"														
	7	627	<1	<1			"	"														
	8						"	"														
	9						"	"														
9	10	628	1				"	"														
	11						"	"														
	12						"	"														
	13	629	4				"	"														
	14						"	"														
	15						"	"														
	16	630	47	64			chtr sap	gy, br													Chert + cm clay + br Feox	
	17						"	"														
	18						"	"														
	19	631	1090	1230			sap	br-cm													Sapre → blt (AP)	
19	20						"	"														
	21						"	"														
	22	25632	420	440			"	"														
	23						"	"														
	24						sst	pr													Quartz sandstone (GS)	

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: ckdril

DATE: 26/7/93

ION: Tanami

HOLE NO: JHRB 152

FIG: Timberjack

NORTHING: 55040

PROJECT:

DEPTH: 36

METHOD: RAB

EASTING: 19360

PROSPECT: EL 5412

DIP: -60°

REASON FOR E.O.H: TD

GRID: LOCAL

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: ckdrill

RIG: Timberjack

METHOD: RAIB

REASON FOR E.O.H: TD

DATE: 26/7/93

NORTHING: 55040

EASTING: 19400

GRID: LOCAL

ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 153

DEPTH: 45

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]



AZIMUTH: 266°

Fresher chloritic basalt +
gn clay

[illegible]



AZIMUTH: 266°

[illegible]

[illegible]



REASON FOR E.O.H: FR

GRID: LOCAL

PROSPECT: EL 5412

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: ckdrill

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 27/7/93

NORTHING: 55040

EASTING: 19560

GRID: LOCAL

ION: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 157
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DEPTH: 35

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: chdril

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 27/7/93

NORTHING: 55040

EASTING: 19600

GRID: LOCAL

ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 158
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DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: ckdrill

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 27/7/93

NORTHING: 55040

EASTING: 19640

GRID: LOCAL

ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 159

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

[illegible]



REASON FOR E.O.H: ID

GRID: LOCAL

PROSPECT: EL 5412

AZIMUTH: 266°

Weathered chloritic basalt

[illegible]



FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: 1D

DATE: 27/7/93

NORTHING: 54960

EASTING: 19160

GRID: LOCAL

ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 162
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DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: ckdrill

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.I.: TD

DATE: 27/7/93

NORTHING: 54960

EASTING: 19200

GRID: LOCAL

ION: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 163
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DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO: JHRB 164	
From	To		Au	Au(R)		Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS
			ppb	ppb		ppm																		
24	25	25799	2					mst/sst	rd-pn															
	26							"	"															
	27							"	"															
	28	800	15	10				sst/mst	"															sst > mst
	29							"	"															
29	30							"	"															
	31	801	10					"	"															
	32							"	"															
	33							"	"															
	34	25802	12	9				mst/sst	pn															Clay → mst + qtz sst
	35							"	"															
	36							"	"															E.O.H.
	37	25803	13	9			Duplicate																	
	38																							
	39																							
39	40																							
	41																							
	42																							
	43																							
	44																							
	45																							
	46																							
	47																							
	48																							
	49																							
49	50																							
	51																							

Z Zapopan NL		DRILLHOLE LOG SHEET				CONTRACTOR: <u>chdril</u>		DATE: <u>27/7/93</u>		ION: <u>Tanami</u>		HOLE NO: <u>JHRB 165</u>										
						FIG: <u>Timberjack</u>		NORTHING: <u>54960</u>		PROJECT:		DEPTH: <u>36</u>										
						METHOD: <u>RAB</u>		EASTING: <u>19280</u>		PROSPECT: <u>EL 5412</u>		DIP: <u>-60°</u>										
				REASON FOR E.O.H: <u>TD</u>		GRID: <u>LOCAL</u>				AZIMUTH: <u>266°</u>												
DEPTH (m) From To		SAMPLE NUMBER	ASSAY DATA		SAMPLE NUMBER	ASSAY DATA	ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS
			Au ppb	Ag(R) ppb								BL	Ser	Sil	Chl	Pot	Q	CO	L	H	Py	
0	1	25804	3				lat	rd-br														Qtzose float + hard clay
	2						"	"														
	3						sap	wh														Sapro clay + rd-br Feox
	4	805	2				"	"														
	5						"	cm														Sapro → blt (AP) +
	6						"	"														br Feox
	7	806	1				"	"														
	8						"	"														
	9						"	"														
9	10	807	1				"	"														
	11						"	"														
	12						"	"														
	13	808	1	2			"	"														
	14						"	"														
	15						"	"														+ minor chert + sst
	16	809	2				sap	Dk br														Sapro → blt + Fe rich chips
	17						"	cm														Sapro → blt + br Feox
	18						cht	gy														Chert + f.g seds + ye-br Feox
	19	810	8				"	"														
19	20						sap	cm								2						Sapro → blt + br Feox
	21						"	"								1						
	22	25811	400	330			"	"								tr						
	23						"	"														
	24						sst	br														Qtzose f.g sst + minor clay

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO. JHRB 165		
From	To		Au	Ag(R)		Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS	
			ppb	ppb		ppm																			
24	25	25812	180	190				ssst	pn															Qtz-chlorite ssst (GS?)	
	26							mst/ssst	cm-pn																Clay→mst + qtz ssst
	27							"	"																
	28	813	6					"	"																
	29							"	"																
29	30							"	"																
	31	814	6	4				"	"																
	32							"	"																
	33							"	"																
	34	25815	4	3				"	"																
	35							ssst	pn																Qtz ssst + clay
	36							"	"																E.O.H.
	37																								
	38																								
	39																								
39	40																								
	41																								
	42																								
	43																								
	44																								
	45																								
	46																								
	47																								
	48																								
	49																								
49	50																								
	51																								

DRILLHOLE LOG SHEET

CONTRACTOR: Edrill

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 27/7/93

NORTHING: 54960

EASTING: 19320

GRID: LOCAL

R DN: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHR-B 166

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

		DRILLHOLE LOG SHEET				CONTRACTOR: <u>J kdril</u>		DATE: <u>27/7/93</u>		R DN: <u>Tanami</u>		HOLE NO: <u>JHRB 167</u>											
						FIG: <u>Timberjack</u>		NORTHING: <u>54970</u>		PROJECT:		DEPTH: <u>36</u>											
						METHOD: <u>RAB</u>		EASTING: <u>19360</u>		PROSPECT: <u>EL 5412</u>		DIP: <u>-60°</u>											
				REASON FOR E.O.H: <u>TD</u>		GRID: <u>LOCAL</u>				AZIMUTH: <u>266°</u>													
DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY-NESS	RECOV	OXID	ALTERATION					VENING %		MINERALIZATION			COMMENTS
From	To		Au	Pd(R)		Au							BL	Ser	Sil	Chl	Pot	Q	CO	L	H	Py	
			ppb	ppb		ppm																	
0	1	25829	5	4			fer/sap	dkrd-br															Hard ferruginous clay
	2						"	"															
	3						silt?	br-nd					3										Silicified fg silt? -possible
	4	830	20				"	"															AP basalt
	5						"	"															
	6						"	"															
	7	831	29	27			"	"															
	8						"	"															
	9						cht?	gy															Prob. chert + br Feox
9	10	832	8				blt?	br					1										Wthd chloritic blt (AP?)
	11						"	"															
	12						"	"															
	13	833	6				"	"															
	14						"	"															
	15						"	"															
	16	834	4				"	"															
	17						cht	gy-br															Chert + br clay
	18						"	"															
	19	835	4				blt	br															Wthd chloritic blt
19	20						"	"															
	21						"	"															
	22	25836	10	9			"	"															
	23						"	"															
	24						blt+cht	br-gy															Wthd blt + chert (sst?)

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdrill

RIG: Timberjack

METHOD: RAß

REASON FOR E.O.H: TD

DATE: 28/7/93

NORTHING: 54960

EASTING: 19400

GRID: LOCAL

FROM:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 168

DEPTH: 36

DIP: -60°

AZIMUTH: 766°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdrill

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 28/7/93

NORTHING: 54960

EASTING: 19440

GRID: LOCAL

F	DN:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 169

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: (Hedril

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: ID

DATE: 28/7/93

NORTHING: 54960

EASTING: 19480

GRID: LOCAL

RDN:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 170

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO: JHRG 170		
From	To		Au	Ag(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO	L	H	Py	COMMENTS		
			ppb	ppb			ppm																			
24	25	25873	2	2					blt	Dkgn																
	26								"	"																
	27								"	"																
	28	874	4						"	"																
	29								"	"																
29	30								"	"																
	31	875	4						"	"																
	32								"	"																
	33								"	"																
	34	25876	4	3					"	"																
	35								"	"																
	36								"	"																
	37																								E.O.H	
	38																									
	39																									
39	40																									
	41																									
	42																									
	43																									
	44																									
	45																									
	46																									
	47																									
	48																									
	49																									
49	50																									
	51																									

DRILLHOLE LOG SHEET

CONTRACTOR: () bedril

RIG: Timberjack

METHOD: RAIB

REASON FOR E.O.H: TD

DATE: 28/7/93

NORTHING: 54960

EASTING: 19520

GRID: LOCAL

NAME:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 171

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: Edrill

RIG: Timberjack

METHOD: RAIB

REASON FOR E.O.H: TD

DATE: 28/7/93

NORTHING: 54960

EASTING: 19560

GRID: LOCAL

P DN: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 172

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: (kdrill

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 28/7/93

NORTHING: 54960

EASTING: 19600

GRID: LOCAL

PN: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 173

DEPTH: 35

DIP. -60°

LAZIMUTH: 766°

[illegible]

[illegible]



DRILLHOLE LOG SHEET

CONTRACTOR: skdril
FIG: Timberjack
METHOD: RAB
REASON FOR E.O.H: TD

DATE: 28/7/93
NORTHING: 54960
EASTING: 19640
GRID: LOCAL

ON: Tanami
PROJECT:
PROSPECT: EL 5412

HOLE NO: JHRB 174
DEPTH: 36
DIP: -60°
AZIMUTH: 266°

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS		
From	To		Au ppb	Pb(R) ppb			Au ppm							BL	Ser	Sil	Chl	Pot	Q	CO		L	H		Py	
0	1	25915	2						lat	Dk rd-br																Qtzose float + Fe nodules + clay
	2								"	"																
	3								sap	wh																Saprophy clay + rd-br Feox
	4	916	2						"	"																
	5								"	"									2							+pn Feox
	6								"	"									2							
	7	917	2						"	"									1							
	8								"	"									1							
	9								"	"									tr							
9	10	918	5						"	"									2							
	11								blt	Dkgn-gy									tr							Fairly fresh chloritic blt + minor rd-br Feox
	12								"	"																
	13	919	19						"	"																
	14								"	"																
	15								"	"																
	16	920	17						"	"																
	17								"	br-rd									1							More withal (clay alt?)
	18								"	"									3							chloritic blt
	19	921	6						"	br-gn									8							Finer grained blt - weak
19	20								"	"									2							Foliation + rd-br Feox
	21								"	"									1							
	22	25922	8	11					"	"									4							
	23								"	"									5							
	24								"	"									1							

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK	E	COLOUR	DRY- NESS	RECOV	OXID	ALTERATIC					VEINING %		MINERALIZATION			HOLE NO: JHRB 174																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
From	To		Au	Au(R)			Au								BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
			ppb	ppb			ppm																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
24	25	25923	5						blt		gn-br																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				



AZIMUTH: 266°

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[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdrill

DATE: 29/7/93

F DN: Tanami

HOLE NO:	JHRB 176
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RIG: Timberjack

NORTHING: 54880

PROJECT:

DEPTH: 36

METHOD: RAB

EASTING: 19120

PROSPECT: EL 5412

DP: -60°

REASON FOR E.O.II: TD

GRID: LOCAL

AZIMUTH: 266°

DRILLHOLE LOG SHEET

CONTRACTOR: 1 bedrill

DATE: 29/7/93

R	DN:	Tanami
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HOLE NO: JHRB 177

RIG: Timberjack

NORTHING: 54880

PROJECT:

DEPTH: 36

METHOD: RAB

EASTING: 19160

PROSPECT: EL 5412

DIP: -60°

REASON FOR E.O.H: TD

GRID: LOCAL

AZIMUTH: 266°

DRILLHOLE LOG SHEET

CONTRACTOR: (kdrill

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 29/7/93

NORTHING: 54880

EASTING: 19200

GRID: LOCAL

FN:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 178

DEPTH: 36

DIP: -60°

AZIMUTH: 266°



AZIMUTH: 266°

[illegible]

[illegible]

[illegible]



AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 Kodril

RIG: Timberjack

METHOD: RA²B

REASON FOR E.O.H: TD

DATE: 29/7/93

NORTHING: 54880

EASTING: 19360

GRID: LOCAL

FN:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 182

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 Adril

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 29/7/93

NORTHING: 54880

EASTING: 19400

GRID: LOCAL

R DN: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 183

DEPTH: 36-

DIP: -60°

AZIMUTH: 266°

COMMENTS

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION				COMMENTS							
From	To		Au	Ag			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py								
			ppb	ppb			ppm																									
0	1	26026	1					lat	rd-br																			Qtzase float + clay				
	2							qzi/cht	gy																			Quartzite/cooked chert +				
	3							"	"																			clay + rd-br Feox				
	4	027	1					"	"																							
	5							sap	br																				Hard sapro → blt (TC?)			
	6							"	"																							
	7	028	3					"	"																							
	8							"	"																							
	9							"	gn-wh																					Sapro → blt + br-rd Feox		
9	10	029	3					"	"																							
	11							"	"																							
	12							"	"																							
	13	030	<1					"	"																							
	14							"	"																							
	15							"	"																							
	16	031	<1					"	"																							
	17							"	"																							
	18							"	br-em																							
	19	032	3	2				"	"																							
19	20							"	"																							
	21							blt	br-rd																							
	22	26033	5	4				"	"																							

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 kdrl

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 29/7/93

NORTHING: 54880

EASTING: 19440

GRID: LOCAL

R	DN:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 184
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DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]



AZIMUTH: 266°

[illegible]

[illegible]



AZIMUTH: 266°

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK	E	COLOUR	DRY- NESS	RECOV	OXID	ALTERATIO.					VEINING %		MINERALIZATION			HOLE NO: JHRB 186	
From	To		Au	Au(R)			Au								BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS
			ppb	ppb			ppm																			
24	25	26070	<1					blt		rd-br							5									Wthd chloritic blt+rd-br Feox
	26							"		"																
	27							"		"																
	28	071	7					"		Plgn																Wthd blt+minor br Feox
	29							"		"																
29	30							"		"																
	31	072	<1					"		"																
	32							"		Dkgn																Fairly fresh chloritic blt +
	33							"		"																gnss ch clay
	34	26073	1					"		"																
	35							"		"																
	36							"		"																E.A.H. + rd-br Feox
	37																									
	38																									
	39																									
39	40																									
	41																									
	42																									
	43																									
	44																									
	45																									
	46																									
	47																									
	48																									
	49			</																						

DRILLHOLE LOG SHEET

CONTRACTOR: Edrill

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 1/8/93

NORTHING: 54880

EASTING: 19560

GRID: LOCAL

FN: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 187

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1. Hedril

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: 1D

DATE: 1/8/93

NORTHING: 54880

EASTING: 19600

GRID: LOCAL

F DN: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB	188
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DEPTH: 36

DIP: -60°

AZIMUTH: 266°

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS		
From	To		Au	Ag(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H		Py	
			ppb	ppb			ppm																			
0	1	26086	5	5					lat	rd-br																Gritty clay
	2								"	"																
	3								sap	gn																Saprophytic + br Feox
	4	087	17						"	"																
	5								"	"																
	6								"	"																
	7	088	30	28					"	"																
	8								"	"																
	9								"	"																
9	10	089	7	8					"	"																
	11								"	"																
	12								"	"																
	13	090	3						"	"																+ rd-br Feox
	14								blt	Dk gn																Fresher chloritic blt + Pl gn clay
	15								"	"																
	16	091	6						"	"																
	17								"	"																+ rd-br Feox
	18								"	gn-br																Wth blt
	19	092	7						"	br-red																Fairly fresh blt
19	20								"	"																
	21								"	"																
	22	26093	8						"	"																
	23								"	Dk gn																
	24								"	"																Fresh blt + Pl gn clay

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: I, Jadril

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 1/8/93

NORTHING: 54880

EASTING: 19640

GRID: LOCAL

FON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 189
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DEPTH: 36

DIP: -60°

AZIMUTH: 266

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 2kdrill

RIG: Timber pick

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 1/8/93

NORTHING: 54880

EASTING: 19680

GRID: LOCAL

F	DN:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 190

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: Edrill

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 1/8/93

NORTHING: 54800

EASTING: 19120

GRID: LOCAL

R	DN: Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 191
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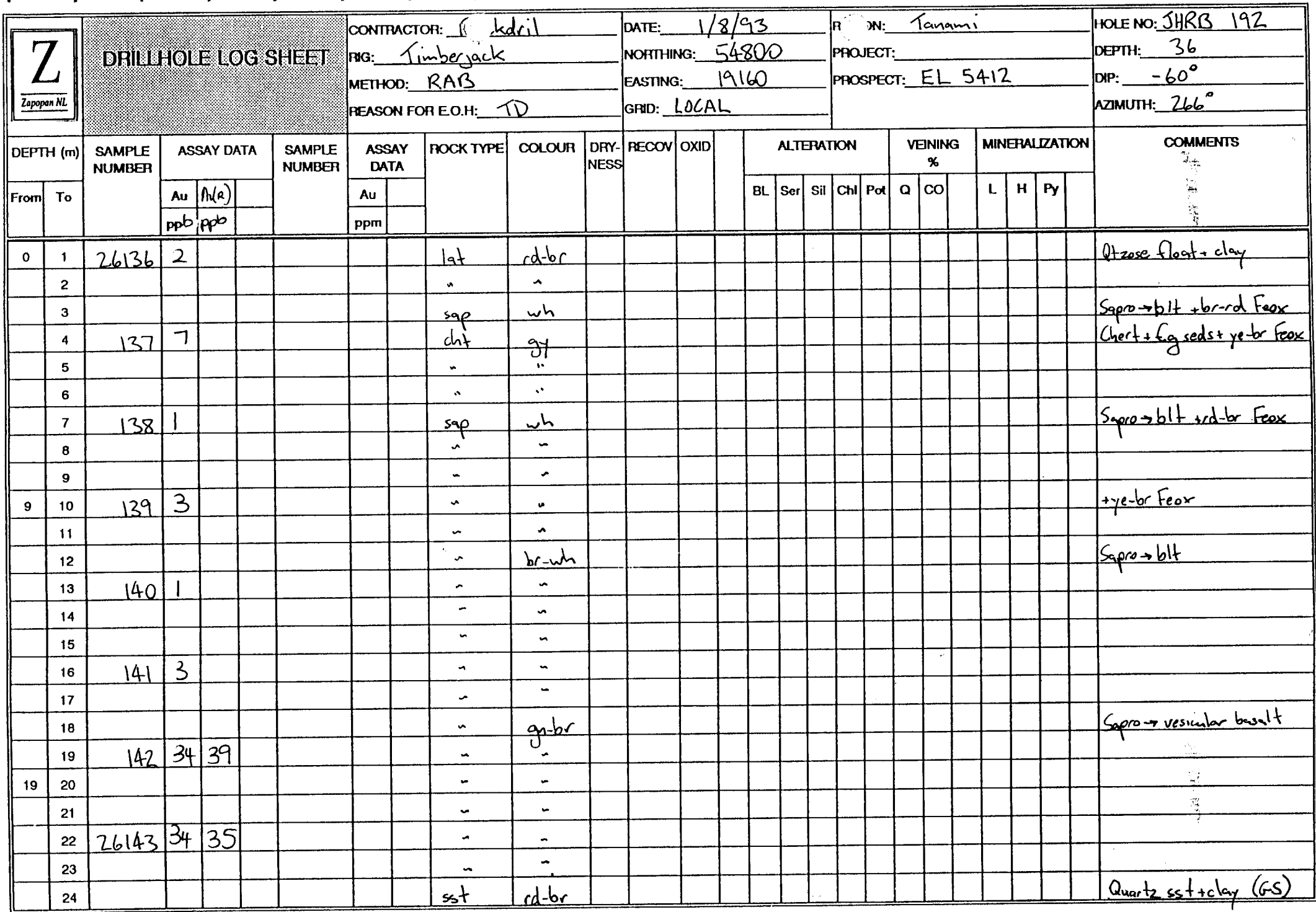
DEPTH: 36

DIP: -60°

HAZIMUTH: 266°

[illegible]

[illegible]



[illegible]

Z Zapopan NL		DRILLHOLE LOG SHEET				CONTRACTOR: <u>1 kdrill</u>		DATE: <u>1/8/93</u>		F ON: <u>Tanami</u>		HOLE NO: <u>JHRB 193</u>										
						FIG: <u>Timberjack</u>		NORTHING: <u>54800</u>		PROJECT:		DEPTH: <u>36</u>										
						METHOD: <u>RAB</u>		EASTING: <u>19200</u>		PROSPECT: <u>EL 5412</u>		DIP: <u>-60°</u>										
				REASON FOR E.O.H: <u>TD</u>		GRID: <u>LOCAL</u>				AZIMUTH: <u>266°</u>												
DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		SAMPLE NUMBER	ASSAY DATA	ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS
From	To		Au ppb	Au(R) ppb								Au ppm	BL	Ser	Sil	Chl	Pot	Q	CO	L	H	
0	1	26149	2				lat	rd-br														Qtzose float + Fe rich clay
	2						"	"														
	3						cht	ye-br														Chert + f.g. qtzose seeds
	4	150	3				"	"														
	5						sap	"														Sapro → blt (AP)
	6						"	"														
	7	151	1				"	"														
	8						"	"														
	9						"	br-rd														
9	10	152	1	1			"	"														
	11						"	"														
	12						"	gy-br														
	13	153	1				"	"														
	14						"	gn-br														
	15						"	"														
	16	154	1				"	"														
	17						"	Plbr-gn														
	18						"	"														
	19	155	4				"	"														
19	20						"	"														
	21						"	"														
	22	26156	9	8			"	"														
	23						"	"														
	24						"	gn-wh														Sapro → blt + br-pn Feox

[illegible]



AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: skdrill

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 2/8/93

NORTHING: 54800

EASTING: 19280

GRID: LOCAL

F	DN:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 195
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DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 Kdril

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: ID

DATE: 2/8/93

NORTHING: 54800

EASTING: 19400

GRID: LOCAL

P DN: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 197

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdrill

FIG: Timber jack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 2/8/93

NORTHING: 54800

EASTING: 19440

GRID: LOCAL

PN: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 198
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DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: Shadrill

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 2/8/93

NORTHING: 54800

EASTING: 19480

GRID: LOCAL

FON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 199

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: (Hedril

FIG: Timber jack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 2/8/93

NORTHING: 54800

EASTING: 19520

GRID: LOCAL

P DN: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 200

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: S. J. Kdril

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 2/8/93

NORTHING: 54800

EASTING: 19560

GRID: LOCAL

P ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 201
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DEPTH: 36

DIP: -60°

AZIMUTH: 266°

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		SAMPLE NUMBER	ASSAY DATA	ROCK TYPE	COLOUR	DRY-NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS
From	To		Au ppb	Ag(R) ppb		Au ppm						BL	Ser	Sil	Chl	Pot	Q	CO	L	H	Py	
0	1	26248	14	17			lat	rd-br														Qtzose float + clay
	2						sep	rd-br														Sapre → blt?
	3						"	"														
	4	249	7				"	"														
	5						"	"									2					Sapre → blt
	6						"	br-gy														
	7	250	10	9			"	"									2					+ rd-br Feox
	8						"	"									1					
	9						"	rd-br									1					
9	10	251	14	11			"	"									1		tr			
	11						"	"									1		tr			
	12						"	"									tr		tr			
	13	252	12	12			"	"									1		tr			
	14						"	"									tr		tr			
	15						blt	br-gn									2		tr			Wld. blt + rd-br Feox
	16	253	13	9			"	"									5					
	17						"	"									2					
	18						"	"									1					
	19	254	13	10			"	"									tr					
19	20						"	"									4					
	21						"	"									1					
	22	26255	7				"	"									1					Fresher blt
	23						"	"									12					
	24						"	"									18					

[illegible]



RIG: Timberjack

REASON FOR E.O.H: TD

NORTHING: 54800

GRID: LOCAL

PROJECT:

DEPTH: 36

AZIMUTH: 266°

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK E	COLOUR	DRY- NESS	RECOV	OXID	ALTERATIO...					VEINING %		MINERALIZATION			HOLE NO. JHRB 202	
From	To		Au	Au(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS
			ppb	ppb			ppm																		
24	25	26268	11						sap	Plgn								tr							Sapre → blt
	26								"	"															
	27								"	"															
	28	269	10	7					"	"															
	29								"	"															
29	30								"	"								l		tr					+br Feox
	31	270	8						"	gn-br															
	32								blt	"															Fairly fresh blt
	33								"	"															
	34	26271	12	10					"	"															
	35								"	"								tr							
	36								"	"								tr							E.O.H.
	37																								
	38																								
	39																								
39	40																								
	41																								
	42																								
	43																								
	44																								
	45																								
	46																								
	47																								
	48																								
	49																								
49	50																								
	51																								



RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 2/8/93

NORTHING: 54800

EASTING: 19640

GRID: LOCAL

ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 203
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DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATIO					VEINING %		MINERALIZATION			HOLE NO: JHRB 203	
From	To		Au	Ag(R)		Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS
			ppb	ppb		ppm																		
24	25	26280	12	13				slt	br-gn															
	26							"	"															
	27							"	"															
	28	281	11					"	"															
	29							"	"															
29	30							"	"															
	31	282	3					"	"															
	32							sst/slt	Plgn-cn							2			tr				Qtzose sst +slt	
	33							"	"							2								
	34	26283	7					"	br-gy															
	35							"	"															
	36							"	br-rd															Qtz-chlor slt +clay E.O.H. -weak foliation
	37	26284	23	21		Duplicate																		
	38																							
	39																							
39	40																							
	41																							
	42																							
	43																							
	44																							
	45																							
	46																							
	47																							
	48																							
	49																							
49	50																							
	51																							

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdrill

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 2/8/93

NORTHING: 54800

EASTING: 19680

GRID: LOCAL

F	ON:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 204

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdrill

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 2/8/93

NORTHING: 54840

EASTING: 19280

GRID: LOCAL

FROM: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 205

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdrill

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: ID

DATE: 3/8/93

NORTHING: 54840

EASTING: 19320

GRID: LOCAL

F ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 206

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: skdrill

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 3/8/93

NORTHING: 54840

EASTING: 19420

GRID: LOCAL

ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 207

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

[illegible]



RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 3/8/93

NORTHING: 54760

EASTING: 19280

GRID: LOCAL

F. DN:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 209
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DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 Kdrill

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.I.: TD

DATE: 5/8/93

NORTHING: 54760

EASTING: 19320

GRID: LOCAL

P DN: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 210
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DEPTH: 48

DIP: -60°

AZIMUTH: 266°

[illegible]

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK	E	COLOUR	DRY-NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			HOLE NO. JHRB 210	
From	To		Au	Au(R)			Au								BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	COMMENTS
24	25	26367	25					sqp		br																
	26							sst		pn-br																Qtz sst (GS)
	27							"		"																
	28	368	180	180				mst+sst		rd-br																Clay → mst + Qtz sst
	29							"		"																
29	30							"		"																
	31	369	6					sst+mst		"																Qtz sst + clay → mst
	32							"		"																
	33							"		"																
	34	370	13	11				mst+sst		gn-wh																Clay → mst? + Qtz sst (GS)
	35							"		"																+ pn-br Feox
	36							"		"																
	37	371	8					"		"																
	38							"		"																
	39							"		"																
39	40	372	7					"		"																
	41							"		"																
	42							sst+mst		gn-wh																Qtz-musc sst + clay →
	43	373	5					"		"																mst/slt + rd-br Feox
	44							"		"																
	45							mst+sst		"																As previous but mst → sst
	46	26374	5					"		"																
	47							"		"																
	48							"		"																
	49							"		"																

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdrill

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 5/8/93

NORTHING: 54760

EASTING: 19360

GRID: LOCAL

F	DN:	Tanami
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PROJECT:

PROSPECT: EL 5412

HOLE NO:	JHRB 211
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DEPTH: 48

DIP: -60°

LAZIMUTH: 266°

[illegible]

[illegible]



DRILLHOLE LOG SHEET

CONTRACTOR: J. J. J. J.
RIG: Timberjack
METHOD: RAB
REASON FOR E.O.H.: ID

DATE: 5/8/93
NORTHING: 54760
EASTING: 19400
GRID: LOCAL

F DN: Tanami
PROJECT:
PROSPECT: EL 5412

HOLE NO: JHRB 212
DEPTH: 36
DIP: -60°
AZIMUTH: 266°

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY-NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS	
From	To		Au	Au(R)		Au							BL	Ser	Sil	Chl	Pot	Q	CO	L	H	Py		
			ppb	ppb		ppm																		
0	1	26392	6	7				cht/slc	gy															Chert/silicrete + rd-br clay
	2							"	"															
	3							sap	br-red															Sapro → blt (Ap?)
	4	393	6	3				"	br-gy															
	5							"	Dk br-wh															
	6							"	"															
	7	394	3					"	"															As prev. + minor f.g. seds
	8							"	"															
	9							"	br-gy															Sapro → blt (TC?)
9	10	395	2	3				"	"															
	11							"	"															
	12							"	"															
	13	396	70	69				"	"															
	14							"	"															
	15							"	"															
	16	397	68	65				"	"															+ rd-br Feox
	17							"	rd-br															Sapro → chlor blt
	18							"	cm															+ br-rd Feox
	19	398	4	4				"	"															
19	20							"	br-cm															
	21							"	Pign															Sapro → chlor blt
	22	26399	9					"	"															
	23							"	"															
	24							blt	gn-cm															Withd chlor blt (TC)

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: skedril

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 5/8/93

NORTHING: 54720

EASTING: 19120

GRID: LOCAL

FON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 213

DEPTH: 36

DIP: -60°

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdril

RIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 5/8/93

NORTHING: 54720

EASTING: 19160

GRID: LOCAL

F ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 214

DEPTH: 36

DIP: -60°

LAZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skdril

FIG: Timberjack

METHOD: RAB

REASON FOR E.O.H: TD

DATE: 6/8/93

NORTHING: 54720

EASTING: 19200

GRID: LOCAL

ON: Tanami

PROJECT:

PROSPECT: EL 5412

HOLE NO: JHRB 215

DEPTH: 54

DIP: -60°

AZIMUTH: 266°

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOR	DRY-NESS	RECOV	OXID	ALTERATION						VEINING %		MINERALIZATION			COMMENTS
From	To		Au	Au(r)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H	Py	
			ppb	ppb			ppm																		
0	1	26429	1					lat	Dk rd-br																Ferrug. float + clay Sapro → blt / f.g ssds
	2							sap	br																
	3							"	"																
	4	430	3					"	"																
	5							"	"																
	6							"	"																
	7	431	1					cht	gy																Chert + wh clay + br Feox
	8							"	"																
	9							"	"																
9	10	432	2					"	"																
	11							"	"																
	12		-					sap	gn-wh																Sapro → blt (AP) + br Feox
	13	433	2					"	"																
	14							"	"																
	15							"	"																
	16	434	2					"	"																
	17							"	br-gn																
	18							"	"																
	19	435	18	13				"	"																
19	20							"	"																
	21							"	"																
	22	26436	33	28				"	"																
	23							"	"																
	24							ssst	Plgn										30						Qtz sst + wh qtz vn (GS)

[illegible]

[illegible]



DRILLHOLE LOG SHEET

CONTRACTOR: ckdril
RIG: Warman Investigator
METHOD: RAB
REASON FOR E.O.H: FR

DATE: 9/8/93
NORTHING: 54720
EASTING: 19320
GRID: LOCAL

ION: Tanami
PROJECT:
PROSPECT: EL 5A12
GEOLOGIST: CRG

HOLE NO: JHRB 227
DEPTH: 27
DIP: -60°
AZIMUTH: 266°

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS		
From	To		Au	Au(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H		Py	
			ppb	ppb			ppm																			
0	1	26596	5						lat	rd-br																Qtzose flint+clay
	2								"	"																
	3								sap	ye-br																Sapro→blt/f.g.sed (AP)
	4	597	2						cht	gy																Chert+wh clay +br Feox
	5								"	"																
	6								"	"																
	7	598	4						sap	Dkbr-wh																Sapro→blt
	8								"	"																
	9								"	"																
9	10	599	5	3					"	Plga-wh																+pp-br Feox
	11								"	"																
	12								"	"																
	13	600	53						"	"																
	14								"	"																+br-gy Feox
	15								"	"																
	16	601	150	170					"	"																
	17								"	"																
	18								"	"																+br-rd Feox
	19	602	480	470					"	gn-wh																+br Feox + amethyst
19	20								"	"																vesicle fillings
	21								blt	br																Fairly fresh vesic. blt.
	22	26603	54	49					mst?	br-rd									3				tr			Any→mst? (GS)
	23																		1				tr			
	24																		4				tr			

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: Skidell
FIRG: Warman Investigator
METHOD: RAB
REASON FOR E.O.H: SD

DATE: 9/8/93
NORTHING: 54720
EASTING: 19360
GRID: LOCAL

R# PN: Tanami
 PROJECT: _____
 PROSPECT: EL 5412
 GEOLOGIST: CRG

HOLE NO: JHRB 228
DEPTH: 57
DIP: - 60°
AZIMUTH: 266°

[illegible]

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: K. Redrill

DATE: 9-8-93

ON: TANAMI

HOLE NO: JHRB 229

FIG: 15

NORTHING: 54720

PROJECT: EL 5412

DEPTH: 31m

METHOD: RAB

EASTING: 19400

PROSPECT: Jasper Hill

DIP: -60°

REASON FOR E.O.H:

GRID: LOCAL

GEOLOGIST: F. G.

AZIMUTH: west

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 4 kdrill

DATE: 9-8-93

ION: Tanami'

HOLE NO: JHRB 230

RIG: 15

NORTHING: 54720

PROJECT: EL 5412

DEPTH: 42m

METHOD: RAB

EASTING: 19440

PROSPECT: Jasper Hill

DIP: -60°

REASON FOR E.O.H: T.D.

GRID: Loca

GEOLOGIST: F. G.

AZIMUTH: *West*

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: A. S. Drill

DATE: 9-8-93

ION: TANAMI

HOLE NO: JHRB 231

FIG: 15

NORTHING: 54720

PROJECT: EL 5412

DEPTH: 36m

METHOD: RAB

EASTING: 19480

PROSPECT: JASPER HILL

DIP: -60

REASON FOR E.O.H: *TP*

GRID: LOCAL

GEOLOGIST: F. G.

AZIMUTH: WEST

[illegible]

[illegible]



CONTRACTOR: rebedril

DATE: 9/8/93

FON: Tanami

HOLE NO: JHRB 232

FIG: Warman Investigator

NORTHING: 54720

PROJECT:

DEPTH: 36

METHOD: RA3

EASTING: 19500

PROSPECT: EL 5412

DIP: -60°

REASON FOR E.O.H: TV

GRID: LOCAL

GEOLOGIST: CRG

AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: Chdril
 FIG: Warman Investigator
 METHOD: RAB
 REASON FOR E.O.H: ID

DATE: 9/8/93
NORTHING: 54720
EASTING: 19520
GRID: LOCAL

PERSON: Tanami
PROJECT: _____
PROSPECT: EL 5412
GEOLOGIST: CRG

HOLE NO: JHRB 233
DEPTH: 36
DIP: -60°
AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: ckdrill
 FIG: Warman Investigator
 METHOD: RAB
 REASON FOR E.O.H: TD

DATE: 9/8/93
NORTHING: 54720
EASTING: 19560
GRID: LOCAL

LOCATION: Tanami
PROJECT: _____
PROSPECT: EL 5412
GEOLOGIST: CRG

HOLE NO: SHRB 234
DEPTH: 36
DIP: -60°
AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 skidril
 FIG: Warman Investigator
 METHOD: RAB
 REASON FOR E.O.H: TD

DATE: 9/8/93
NORTHING: 54720
EASTING: 19600
GRID: LOCAL

R IN: Tanami
PROJECT: _____
PROSPECT: EL5412
GEOLOGIST: CRG

HOLE NO: JHRB 235
DEPTH: 36
DIP: -60°
AZIMUTH: 266°

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: K. Kdrill

DATE: 9-8-93

ION: Tanami

HOLE NO: JHRB 236

RIG: 15

NORTHING: 54720

PROJECT: EL 5412

DEPTH: 36m

METHOD: RAB

FASTING: 19640

PROSPECT: Jasper Hill

EXP. -60°

REASON FOR E.O.H: T.D

GRID: Local

GEOLOGIST: F. G.

AZIMUTH: West

[illegible]

[illegible]

Z

Zapopan NL

DRILLHOLE LOG SHEET

CONTRACTOR: kd drillDATE: 11/8/93LOCATION: TanamiHOLE NO: JHRB 237RIG: 15NORTHING: 54720PROJECT: EL 5412DEPTH: 36mMETHOD: RABEASTING: 19680PROSPECT: Jasper HillDIP: -60°REASON FOR E.O.H: T.D.GRID: LocalGEOLOGIST: F.G.AZIMUTH: West

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
From	To		Au	Au(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H		Py																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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0	1	26846	2	1					Float/Sol	Rd/Br	D	P	S																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: R. J. Kdrill

DATE: 9-8-93

REGION: Tanami'

HOLE NO: JHRB 238

FIG: 15

NORTHING: 54720

PROJECT: ELS412

DEPTH: 36m

METHOD: RAB

EASTING: 19720

PROSPECT: Jasper Hill

DIP: -60°

REASON FOR E.O.H: T.D

GRID: LOCAL

GEOLOGIST: F. G.

AZIMUTH: west

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS			
From	To		Au	Au(R)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H		Py		
			ppb	ppb			ppm																				
0	1	26705	2						soil/clay	Rd/Br	D	G	S														(Gritty clays)
	2								"	"																	
	3								saprolite	"																	+ Yel FeOx
	4	26706	1						"	"																	"
	5								"	Pl Gm/cm																	Dk Br/Rd FeOx
	6								"	Pl br/cm																	Br/Ye FeOx
	7	26707	2						"	Pl Gm/cm																	PP/br FeOx
	8								"	"																	"
	9								"	"																	"
9	10	26708	3						"	Pl Br/Gm																	Ye/Br ox
	11								"	"																	"
	12								"	Pl Gm/Gm																	"
	13	26709	2						"	"																	"
	14								"	Pl Br/cm																	"
	15								"	"																	"
	16	26710	1						"	"																	"
	17								"	"																	"
	18								"	"																	"
	19	26711	1						"	"																	"
19	20								"	Pl Gm																	Br/Yel ox
	21								"	"																	"
	22	26712	1						"	"																	"
	23								"	"																	"
	24								"	"																	"

[illegible]



REASON FOR E.O.H: TD

GRID: Local

PROSPECT: Jasper Hill

AZIMUTH: WEST

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: 1 sk drill

FIG: 15

METHOD: RAB

REASON FOR E.O.H: T.D.

DATE: 10/8/93

NORTHING: 54640

EASTING: 19 320

GRID: Local

F DN: Tanami

PROJECT: FL5412

PROSPECT: 16500r Hill

HOLE NO: JH RB 240

DEPTH: 36

DIP: -60°

LAZIMUTH: WEST

[illegible]

[illegible]

[illegible]

Z

Zapopan NL

DRILLHOLE LOG SHEET

CONTRACTOR: R kdrillDATE: 10-8-93R# DN: TANAMIHOLE NO: JHRB 242FIG: 15NORTHING: 54640PROJECT: ELS412DEPTH: 12mMETHOD: RABEASTING: 19400PROSPECT: Jasper HillDIP: -60°

REASON FOR E.O.H:

GRID: LOCALAZIMUTH: WEST

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS	
From	To		Au	Au(R)	Au		BL	Ser						Sil	Chl	Pot	Q	CO	L	H	Py				
			ppb	ppb																		ppm			
0	1	26753	4						Float/Ferr	Rd/Br	D	G	S												
	2								"	"															
	3								Basalt	Dk Grn			Fr												
	4	26754	5						"	"															
	5								"	"															
	6								"	"															
	7	26755	6						"	"															
	8								"	"															
	9								"	"															
9	10	26756	7						"	"															
	11								"	"															
	12								"	"			W												Fr FeOx Rd/Br
	13																								
	14																								
	15																								
	16																								
	17																								
	18																								
	19																								
19	20																								
	21																								
	22																								
	23																								
	24																								

EOH 12m

Hole stopped, caving in from top.

DRILLHOLE LOG SHEET

CONTRACTOR: R. Kdrill

DATE: 10-8-93

PERSON: Tanami

HOLE NO: JARB 243

FIG: 15

NORTHING: 54640

PROJECT: ELS412

DEPTH: 17m

METHOD: RAB

EASTING: 19440

PROSPECT: Jasper Hill

DIP: -600

REASON FOR E.O.H:

GRID: Local

AZIMUTH: WEST

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: Frank Drill

DATE: 10-8-93

FN:	Tanami
-----	--------

HOLE NO: JARB 244

RIG: 15

NORTHING: 54640

PROJECT: EL5412

DEPTH: 34 m

METHOD: RAB

EASTING: 19480

PROSPECT: Saspe Hill

DIP: -60°

REASON FOR E.O.H:

GRID: LOCAL

AZIMUTH: WEST

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: R Kdrill

DATE: 10-8-93

NAME: TANAM,

HOLE NO: JHRB 245

FIG: 15

NORTHING: 54640

PROJECT: EL5412

DEPTH: 36m

METHOD: RAB

EASTING: 19520

PROSPECT: Jasper Hill

DIP: -60°

REASON FOR E.O.H: T. D.

GRID: LOCAL

AZIMUTH: West

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: f skdrill

DATE: 10-8-93

FON: Tanami

HOLE NO: JHRB 246

RIG: 15

NORTHING: 54640

PROJECT: ELS412

DEPTH: 36m

METHOD: RAB

EASTING: 19560

PROSPECT: Jasper Hill

DIP: -60°

REASON FOR E.O.H: T.D.

GRID: Loca

AZIMUTH: West

[illegible]

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: P. K. Drill

RIG: 15

METHOD: RAB

REASON FOR E.O.H: T.D.

DATE: 11-8-93

NORTHING: 54640

EASTING: 19600

GRID: Local

FROM: Tanami

PROJECT: EL 5412

PROSPECT: Jasper Hill

HOLE NO: JHRB 247

DEPTH: 36m

DIP: -60°

AZIMUTH: West

[illegible]

[illegible]

Z

Zapopan NL

DRILLHOLE LOG SHEET

CONTRACTOR: f kdrillDATE: 11-8-93F DN: TanamiHOLE NO: JHRB 248FIG: 15NORTHING: 54640PROJECT: EL5412DEPTH: 36mMETHOD: RABEASTING: 19640PROSPECT: Jasper HillDIP: -60°REASON FOR E.O.H.: T.D.GRID: LocalAZIMUTH: West

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA			SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	COLOUR	DRY- NESS	RECOV	OXID	ALTERATION					VEINING %		MINERALIZATION			COMMENTS		
From	To		Au	A(r)			Au							BL	Ser	Sil	Chl	Pot	Q	CO		L	H		Py	
			ppb	ppb			ppm																			
0	1	26822	1						soil	Rd/Br	D	m	S													
	2								Float	"		G														
	3								saprolite	PI Br/Rd																
	4	26823	1						"	"																+ Plgn/Yel clays (Hard)
	5								"	"																"
	6								"	PI Br/Ye																+ Plgn clays "
	7	26824	1						"	"																"
	8								"	PI Br/Gn																"
	9								"	"																"
9	10	26825	1						"	"																"
	11								"	"																"
	12								"	"																"
	13	26826	1						"	PI Br/Yel																" + PI Gn blobs
	14								"	Br/Yel																"
	15								"	PI Br/Gy																"
	16	26827	1						"	"																"
	17								"	"																"
	18								"	"																"
	19	26828	2						"	"																"
19	20								"	Br/Gy																"
	21								"	"																"
	22	26829	16	22					Dolerite	PI Br/Gn																"
	23								"	PI Yel Gn								Tr	2							"
	24								"	DK Gn			W						Tr							"

[illegible]

DRILLHOLE LOG SHEET

CONTRACTOR: J. K. Drill

FIG: 15

METHOD: RAB

REASON FOR E.O.H: Hard Rock

DATE: 11-8-93

NORTHING: 54640

EASTING: 19680

GRID: Local

FON: Tangani

PROJECT: ELS412

PROSPECT: Jasper Hill

HOLE NO: JHRB 249

DEPTH: 31m

DIP: -60°

AZIMUTH: West

[illegible]

[illegible]

ZAPOPAN NL

EL 5412

**TALBOT HILLS
TANAMI REGION
NORTHERN TERRITORY**

**FIFTH ANNUAL REPORT
FOR YEAR ENDING
2ND MAY 1994**

APPENDIX 6

JASPER HILL - DIAMOND DRILL HOLE LOGS



DIAMOND DRILLHOLE LOG SHEET

REGION: TANAMI CONTRACTOR: ROCKDRILL NORTHING: 54785 HOLE NO: JHDD 2
PROJECT: EL 5412 RIG: VERSATILE 1000 EASTING: 19405 DATE:
PROSPECT: JASPER HILL METHOD: RC/HQTT GRID: LOCAL (TRUE N) GEOLOGIST: C.R. GARDINER
REASON FOR EOH: REACHED TARGET DEPTH TOTAL DEPTH: 12010 PAGE 1 OF

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	REC'D	OXID	DESCRIPTION	SURVEYS	1	2	3	4
From	To		Au	Au(R)					Depth				
			ppm	ppm						Au	1m	1m(R)	Avg
									Azimuth				
0	1	27563	0.009	0.008			0.009	GREY-WHITE SILCRETE & RED-BROWN CLAY		0	50	100	
1	2							RED-BROWN CLAYEY SAPROLITIC BASALT(?) + GREY-WHITE CHERT/					
2	3							SILCRETE. PROBABLY AATRIM PLATEAU VOLCANICS (APV)					
3	4	564	0.003	0.005			0.004						
4	5												
5	6												
6	7	565	0.030	0.039			0.035						
7	8												
8	9							PALE GREY-CREAM CHERT					
9	10	566	0.127	0.119			0.123	PURPLE-BROWN STAINED VESICULAR BASALT (APV)					
10	11												
11	12												
12	13	567	1.227	1.260		1.160	1.150	1.155	FRESHER PURPLE BROWN VESICULAR BASALT (APV) WITH PALE GREEN				
13	14					1.970	1.77	1.87	VESICLE FILLINGS				
14	15					2.460	2.49	2.475					
15	16	568	0.57	0.53		0.29		0.29					
16	17					0.28		0.28					
17	18					0.930		0.93					
18	19	569	1.32	1.31		4.17	4.03	4.1					
19	20					0.34		0.34	BROWN-RED CLAYEY BASALT - PROBABLY TANAMI COMPLEX				
20	21					0.22	0.23	0.225					
21	22	27570	0.022	0.02		0.022	0.02	0.021					



REGION:	CONTRACTOR:	NORTHING:	HOLE NO: <u>SHDD 2</u>
PROJECT:	RIG:	EASTING:	DATE:
PROSPECT:	METHOD:	GRID:	GEOLOGIST:
REASON FOR EOH:		TOTAL DEPTH:	PAGE <u>1</u> OF <u>1</u>

[illegible]



DIAMOND DRILLHOLE LOG SHEET

REGION:	CONTRACTOR:	NORTHING:	HOLE NO: SHDD 2
PROJECT:	RIG:	EASTING:	DATE:
PROSPECT:	METHOD:	GRID:	GEOLOGIST:
REASON FOR EOH:		TOTAL DEPTH:	PAGE 6 OF

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	RECOV %	OXID	DESCRIPTION	SURVEYS	1	2	3	4
From	To		Au						Depth				
			ppm						Dip				
								Azimuth					
44	45												
45	46	27578	0.002										
46	47												
47	47.7												
47.70	53.35												
53.35	66.20												
66.20	69.40												
69.40	71.30												
71.30	72.40												
72.40	73.10												



DIAMOND DRILLHOLE LOG SHEET

REGION: CONTRACTOR: NORTHING: HOLE NO: SHDD 2
PROJECT: RIG: EASTING: DATE:
PROSPECT: METHOD: GRID: GEOLOGIST:
REASON FOR EOH: TOTAL DEPTH: PAGE OF

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	RECOV %	OXID	DESCRIPTION	SURVEYS	1	2	3	4
From	To		Au						Depth				
			ppm						Dip				
									Azimuth				
73.10	76.40							Dark red-brown fractured basalt with minor weathered granite. Some slickensides and clay in fractures.					
76.40	79.15							Less fractured reddish brown basalt with 20-30% medium grained granite.					
79.15	81.10							Fairly fresh dark grey-green and reddish brown medium grained basalt with minor quartz-carbonate veining (as stockwork at 79.80) (clayey shear at 79.60)					
81.10	81.40							Brecciated white quartz vein with fine grained haematite rich matrix.					
81.40	86.30							Dark green-red haematite stained (pervasive) basalt. Minor pink aplite in patches and minor quartz-jasper veining.					
86.30	90.90							Mostly fresh green-grey fine to medium grained basalt - competent but well jointed (filled with fine grained haematite and jasper) Rare veins fine grained pink aplite/microgranite.					
90.90	99.45							Mostly fresh green-grey fine grained basalt with granitic veins/masses and larger chlorite crystals at contact. Patches of haematite staining and jaspilitic joint filling.					

P.T.O.



DIAMOND DRILLHOLE LOG SHEET

REGION: CONTRACTOR: NORTHING: HOLE NO: JHDD 2
PROJECT: RIG: EASTING: DATE:
PROSPECT: METHOD: GRID: GEOLOGIST:
REASON FOR EOH: TOTAL DEPTH: PAGE OF

DEPTH (m)		SAMPLE NUMBER	ASSAY DATA		ROCK TYPE	RECOV %	OXID	DESCRIPTION	SURVEYS	1	2	3	4
From	To		Au						Depth				
			ppm						Dip				
									Azimuth				
99.45	105.6							Competent and fresh grey-green fine grained basalt. Jaspilitic joint fillings and white quartz veining with haematite stringers at 100.25, 103.0, 103.3 and from 104.2-105.6.					
105.6	106.3							Dark grey-green fine grained fresh basalt with minor pink aplite and jaspilitic joint fillings.					
106.3	109.55							As previous but less aplite and several 5-10cm wide white quartz veins with haematitic veinlets at 106.45, 107.5, 107.85 and 109.5. Series of cross-cutting quartz, aplite and pale green carbonate veinlets at 109.2					
109.55	116.8							Greenish grey hard fresh basalt with less frequent jointing. Veinlets/joint fillings include jasper, pale green carbonate? and chlorite. Thin aplite veins and quartz-granite with haematite veinlets 114.45-114.85. 5cm wide zone of chlorite-quartz-haematite banded veining from 116.2-116.8 with sub-vertical orientation, strike around 320°.					
116.8	120.1							Fresh greenish grey fine grained basalt. Haematite veinlets with coarse grained granite at 118.7. Quartz-chlorite-haematite veining at 120.1					
								E.O.H.					

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EL 5412

**TALBOT HILLS
TANAMI REGION
NORTHERN TERRITORY**

**FIFTH ANNUAL REPORT
FOR YEAR ENDING
2ND MAY 1994**

APPENDIX 7

**JASPER HILL - JHDD2
PETROGRAPHIC REPORT**

FILE NOTE - PETROLOGY SAMPLES

DATE: September, 1993

REGION: Tanami

TENEMENT: EL 5412

SAMPLES: 14 from JHDD2 core
1 from Map Sheet 1 - Shear Zone outcrop

NUMBERS:	JH1	-	JHDD2	-	50.50 m
	JH2	-	JHDD2	-	65.20 m
	JH3	-	JHDD2	-	68.90 m
	JH4	-	JHDD2	-	72.75 m
	JH5	-	JHDD2	-	78.00 m
	JH6	-	JHDD2	-	90.50 m
	JH7	-	JHDD2	-	92.00 m
	JH8	-	JHDD2	-	95.70 m
	JH9	-	JHDD2	-	99.30 m
	JH10	-	JHDD2	-	103.30 m
	JH11	-	JHDD2	-	103.70 m
	JH12	-	JHDD2	-	106.80 m
	JH13	-	JHDD2	-	115.00 m
	JH14	-	JHDD2	-	119.20 m
	S1/1	-	Outcrop	-	Schist

Pontifex & Associates Pty. Ltd.

TELEPHONE (08) 332 6744
FAX (08) 332 5062

26 KENSINGTON ROAD, ROSE PARK
SOUTH AUSTRALIA 5067
A.C.N. 007 521 084

P.O. BOX 91, KENT TOWN
SOUTH AUSTRALIA 5071

MINERALOGICAL REPORT NO. 6475

November 3rdth, 1993

TO:

Mr Tony Rovira
Zapopan N.L.
48 Woods St
DARWIN NT 0800

YOUR REFERENCE:

O/N TA 13818

**MATERIAL &
IDENTIFICATION:**

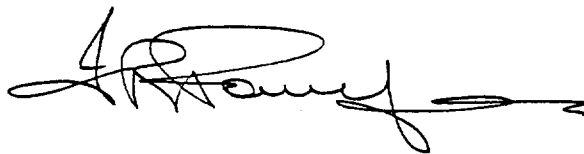
Drill Core JH1 to JH14
and rock sample S1/1

WORK REQUESTED:

Preparation of polished thin sections,
petrographic/mineragraphic assessment; report
with comments on genesis etc.

SAMPLES & SECTIONS:

Returned to you with this report.



PONTIFEX & ASSOCIATES PTY. LTD.

SUMMARY COMMENTS

Thirteen core samples and one rock sample are described in this report from polished thin sections, as requested. One core sample (JH-4) of coarse hydrothermal vein quartz was prepared as a double sided polished thin section suitable for fluid-inclusion study, but also described petrographically. All section offcuts were stained with sodium cobalti-nitrite, which highlights k-spar, stained yellow.

Several lithological groups are indicated within the suite of core samples, and most of these represent a mafic association with a genesis apparently involving cumulus processes.

These petrographic groups are :

- 1) Massive, coarse to medium grained and undeformed biotite quartz diorite; JH-1 oxidised, JH-5 less oxidised. These appear to be primary intrusives with some patchy fine secondary k-spar and clay-sericite alteration of the dominant plagioclase and chloritisation of biotite, before oxidation.
- 2) A primary, undeformed, microcrystalline 'hornblende-basaltic' lithology including scattered fine poikilitic hornblende segregations. Local small clots of composite coarse primary hornblende. Very fine random plagioclase laths form an essential part of the groundmass occur as inclusions in coarse hornblende, are all sericitised. Minor disseminated Fe-Ti oxides.

JH-6, JH-7 fresh
JH-2 oxidised equivalent of JH-6 and JH-7
JH-3 breccia fragments of this 'basalt' cemented by 'aplite'.
- 3) Basically the same as facies (2) above, but with fine relatively more granular textures, indicative of minor recrystallisation, suggesting incipient hornfels development. Fine

plagioclase typically shows virtually complete clay-sericite alteration. Ex-hornblende locally chloritised (pervasively chloritised in JH-12).

JH-9

JH-10

JH-12 (original mafic mineral probably hornblende completely chloritised)

JH-14

- 4) Coarser crystalline, primary hornblende/plagioclase rocks, late magmatic quartz in JH-13, apatite locally as an abundant accessory; disseminated Ti-Fe oxides.

JH-8 differentiated zones of cumulate-textured hornblende aggregate and plagioclase-rich areas. Hornblende fresh, plagioclase with k-spar and clay-sericite alteration.

JH-11 mixed zones of above

JH-13 crudely layered 'gabbroic-textured' rock late magmatic quartz interstitial to hornblende and altered plagioclase aggregate.

As noted above the mafic suite of groups (2) to (4), particularly some with associated plagioclase aggregates + accessory apatite and late magmatic quartz, appears to indicate differentiated primary-hornblende-rich, basic magma crystallising variably as fine grained 'basalt' and coarser 'gabbro', also involving cumulus segregation processes. Objectively, this would seem most likely to occur in thick dykes.

Indeed, the mineralogy and texture can be compared with some aspects of cumulate-differentiated mafic (hornblende-rich) dykes, Woods Point dyke swarm, near Walhalla, Victoria. These dykes have associated Cu and Ni sulphides also Au which appears to accompany later hydrothermal reconstitution of the mafic/ultramafic/Cu-Ni association. [Refer R.R. Keays and M.C. Kirkland, Ec. Geol. Vol. 67, pp 1263 to 1275, No. 8, 1972: "Hydrothermal Mobilisation of Gold from Cu-Ni Sulphides, and Ore Genesis Thompson River Copper Mine, Victoria, Australia"]

This paper interprets the hornblende in the dyke described as metamorphic, formed by metamorphism of earlier, primary pyroxene, in an original pyroxenite to gabbroic magma. In this JH suite however, the hornblende is interpreted as primary.

A sequence of veining in the JH-core mafic suite is most complete in JH-10, with veins in most other of these samples related back to this sample. The sequence is JH-10:

- 1) narrow (2mm), dark green layer-veinlets and random stringers dominated by fine hornblende, essentially part of the (recrystallised) host rock.
- 2) pinkish vein to 3mm, of microcrystalline albite clouded by hematite dust with minor associated quartz, also carrying several coarse crystals of sphene. [Possibly related to aplitic matrix to breccia in JH-3, and coarse plagioclase in JH-8].
- 3) vein of quartz to 5mm, dominated by relatively coarse stressed quartz mosaic, also with rare sphene
- 4) tightly braided, composite stringer of extremely fine carbonate and chloritised clays clouded by leucoxene, and rare related threads of carbonate.

INDIVIDUAL DESCRIPTIONS

JH-1

Medium to coarse, undeformed (quartz) biotite-diorite. Apparent primary k-spar alteration of plagioclase (to monzonite). Also extensive clay-sericite alteration of plagioclase, and oxidation of biotite.

This is a homogeneous massive crystalline rock, with a crystal size range of 1mm to 5mm, average about 3mm. It has an undeformed, primary, 'hypidiomorphic-granular' texture. Most of the original minerals are altered, but the mineralogy seen in thin section, and on the offcut stained for k-spar is :

quartz	10%
k-spar	?30%
plagioclase	?30%
biotite	30%
apatite	1-2%
zircon	<1%
vein quartz (local)	5%
magnetite (oxidised) + rutile	5%

The essential crystalline frame work consists of randomly interlocking subhedral to euhedral crystals of feldspar and more irregular plates of biotite. The quartz is relatively allotriomorphic, more or less intergranular within this fragments.

The feldspars are fairly extensively altered to sericite $\pm$ clay, then stained by limonite and so this relative abundance is difficult to determine. K-spar however, appears to be about equal to the plagioclase, even though primary plagioclase twinning is commonly seen in the thin section. It is not certain how much of the clay-sericite, or the k-spar may be due to 'hydrothermal' alteration, but comparisons with JH-5 suggest most k-spar is a late magmatic enrichment, which suggests a primary (quartz) diorite altered to a monzonitic composition.

Biotite is quite intensively oxidised to limonite ($\pm$ chlorite?), almost certainly supergene.

Small ($<0.3\text{mm}$) crystals of apatite occur as inclusions in all major phases; trace zircon occurs in quartz. An irregular vein of microcrystalline to weakly spherulitic quartz occurs locally, and there are numerous stringers of clay-sericite.

In reflected light, grains of magnetite oxidised to martite, to 0.1mm are scattered as individuals, locally in small clusters, and some are accompanied by (or substituted for) by small interlocking prisms of rutile.

JH-2

Extensively altered fine crystalline primary mafic rock. Compares with fresher samples JH6, JH7 described below, and interpreted as probable cumulus-mafic-dyke rocks.

This homogeneous, massive, 'apparently fine' crystalline rock is fairly extensively supergene altered, including extensive permeation by limonite. It is therefore difficult to assess petrographically, but textural similarities with fresher rocks JH6 and JH7 suggest genetic comparisons with the samples.

About 50% of the sample consists of a 'background' of poorly defined patchy-poikilitic grains, but up to 3mm across, composed apparently of fine fibrous amphibole, but clouded with indefinite ?chloritic-clays, stained by limonite. These are tentatively identified as original poikilitic hornblende, as in JH6 and JH7, but supergene altered, (although objectively, they could represent original pyroxene).

This component incorporates numerous individual lath-like crystals of former plagioclase, generally <1mm in size, randomly but fairly evenly scattered throughout to form about 40% of the rock. These crystals are completely altered to 'sericite' which is intensely stained by, and particularly rimmed by, limonite.

Recognisable pale chlorite (10-15%) occurs as small scattered ragged flakes, 'interstitial' and in several veinlets.

Accessory (2-3%), small (<0.1mm) disseminated grains of hematite and/or leucoxene, replace primary scattered magnetite. There are several veinlets and stringers of microcrystalline quartz ± rarer carbonate and 'clays'.

The rock is interpreted as 'basaltic', comparisons with JH6 and JH7 suggest an original cumulative dyke rock, as discussed for these samples.

JH-3

Coarse tectonic breccia of microcrystalline basalt, extensively altered to 'uralite', clay-sericite, minor chlorite and carbonate, permeated by limonite. Breccia matrix of (intrusive) aplitic rock. Later vein of quartz-carbonate, even later stringers of finer quartz-carbonate $\pm$ minor k-spar.

Black-brownish, angular to splintery microcrystalline breccia fragments, tend to be similarly aligned, but of variable size, and form about 50% of the sample. An extensive paler matrix (or cement) occurs throughout interfragmental areas to form the other 50%.

The fragments have a massive primary aphanitic-basaltic texture. Although fairly extensively permeated by limonite, the original components appear to consist essentially of randomly interlocking micro-laths of original mafic mineral and plagioclase, now fairly extensively altered to uralitic and clay-sericite minerals locally, with fine carbonate and some clearer chlorite, and very sparse, fine interstitial k-spar. Apart from pervasive limonite, there are accessory, discrete fine disseminated grains of Fe-Ti oxide, after titaniferous magnetite.

The breccia matrix consists of very fine to 1.5mm grain size mosaic of essential quartz and supergene-argillised plagioclase, locally with a micro allotriomorphic texture, rather characteristic of aplite. This incorporates sparse chlorite after biotite. [This may relate to vein general (2) in JH-10].

A later vein to 2mm wide of moderately coarse, partly sparry and zoned crystals of quartz and carbonate, cuts the breccia matrix and fragments [?vein generation (3), JH-10]. The carbonate is supergene-ferruginised. Numerous stringers, which may be later than the vein, or extensions of it, also consist of (finer) quartz and carbonate $\pm$ chlorite and some contain fine k-spar as well, [vein generation (3), JH-10].

JH-4

Sample prepared as a double-sided polished thin section suitable for fluid inclusion analysis.

Massive hydrothermal-vein quartz crowded with minute fluid inclusions. Stock work of fractures permeated by carbonate stringers supergene oxidised.

This core sample of essentially massive hydrothermal-vein quartz is cut by a random stockwork of microfractures which have been rather selectively permeated by iron oxides.

The main request for this sample was to examine its potential for fluid inclusion study; it was therefore prepared as a double sided polished thin section, suitable for specialist microscopic fluid inclusion analysis (by researchers who have the facility). [The section is therefore thicker than normal petrographic thickness.]

Petrographically, the sample is confirmed as massive coarse vein quartz, crowded with abundant, mostly extremely fine (to dust-like) fluid inclusions. There is an extensive random network of fine fractures, along which the quartz is larger, recrystallised, and consequently healing the brecciation.

Fine grains and streaks of reddish iron oxide variably continuous along most of these fractures, appear in reflected light to be mostly oxidised carbonate. Trace very small pyrite grains are locally locked within the quartz.

In the context of this suite, the evidence suggests that this major quartz veining is equivalent vein generation (3) in sample JH10 (and other samples); and that the late stringers of oxidised carbonate compare with generation (4) in JH-10.

JH-5

Medium to coarse, undeformed (quartz) biotite diorite. Apparent 'primary' k-spar alteration of plagioclase, to monzonitic composition). Also extensive clay-sericite alteration of plagioclase cf. JH-1.

The texture and composition of this rock is similar to JH-1, although it contains slightly more quartz and probably slightly more plagioclase, and it is somewhat less iron stained. An essential aggregate of randomly interlocking subhedral felspar crystals (50%) and biotite plates (30%) measure up to 6mm, but average size is about 3.5mm.

The biotite is extensively oxidised. Most felspar crystals are quite densely clouded by clay-sericite alteration. In spite of fairly widespread, but diffuse fine-patchy yellow stain on the offcut, indicating k-spar, petrographically primary plagioclase is seen to be at least as abundant, and probably more abundant than k-spar indicated by staining.

This suggests secondary potash-felspathisation of originally predominantly plagioclase. The clay-sericite may also be 'hydrothermal' rather than simply supergene.

Quartz (15-20%) is irregularly intergranular to the above open crystalline framework.

Accessory small crystals of apatite occur as inclusions in the various major phases, mostly in biotite, and rare zircons are present.

Original grains of titaniferous magnetite ($\pm$ ilmenite) to 0.6mm size are scattered to form possibly up to 5% of this rock, but now all altered to an indefinite mix of leucoxene, rutile, hematite (but not simply martite).

JH-6

Interpreted primary mafic dyke rock, altered, but with unusual poikilitic primary hornblende, as an altered basaltic groundmass. Also a xenolithic-clot-like segregation of mostly coarse hornblende. [Possibly involving a cumulus genesis, with late, post cumulus/interstitial/poikilitic hornblende].

This is a mafic rock with a very unusual, but undeformed primary igneous, fine crystalline texture. Poorly defined patchy-poikilitic grains of primary hornblende each optically continuous over about 5mm. These form about 35% of the section, and their poikilitic character is caused by their incorporation of numerous random much smaller laths (<0.2mm) of sericitised plagioclase.

These complex hornblende grains are randomly, but fairly evenly disposed through a massive microcrystalline basaltic groundmass of randomly interlocking microlaths of:

- (i) sericitised plagioclase (like those poikilitically incorporated)
- (ii) subordinate pyroxene altered to clouded (?leucocratic) ?uralite
- (iii) subordinate clearer, random microflakes of chlorite which appears to be after primary groundmass) hornblendes.

Minor (5-7%) extremely fine 0.05mm opaque oxide grains are evenly disseminated throughout, and consist of composite Fe-Ti oxide (not simply leucoxene or martite). Trace small pyrite grains are also present.

The combined evidence suggest a basic 'cumulus dyke' from which volatiles are squeezed out at late stages of crystallisation to produce the patchy, poikilitic (post-cumulus/interstitial) hornblende. Scattered chemical analyses may assist in a genetic interpretation.

About 10% of the section consists of an irregular xenolithic-clot, about 10 x 20mm, possibly part of a (?cumulus) segregation. This consists of an aggregate of coarse (5mm) primary hornblende (with minor inclusions of the very fine plagioclase), and with minor similarly coarse argillised felspar, and a discontinuous very narrow rim of k-spar. This 'clot' appears to be a residual segregation of a (?cumulus) 'hornblendite' - related composition. The k-spar is presumably minor, localised, late-magmatic.

JH-7

Same as JH-6.

The overall mineralogy, textures and alteration and therefore genesis, of this rock, are all so similar to JH-6, that a detailed description is hardly justified.

The essential components are :

- * a bulk 'groundmass', randomly microcrystalline and essentially basaltic, sericitised plagioclase > altered pyroxene and apparent chloritised groundmass hornblende. Fine disseminated Fe-Ti oxides.
- * scattered, poorly defined, irregularly primary poikilitic hornblende, crowded with fine random sericitised plagioclase laths.
- * a localised clot of relatively coarse, subhedral to euhedral primary hornblende (with extremely fine inclusions of sericitised plagioclase), also minor, coarser associated, argillised plagioclase and a vague partial rim of fine k-spar.

Several stringers of chlorite/chloritic clays and trace oxidised carbonate cut all components.

JH-8

Primary coarse hornblende aggregate, in contact with coarse hornblende-plagioclase aggregate as segregation, in a single hornblende-gabbroic rock type. Interstitial microcrystalline albite. Veins of later fine quartz, chlorite.

About ½ of this rock is dominated by a massive coarse crystalline plagioclase aggregate, pinkish due to dispersed hematite-dust, incorporating minor, equally coarse, fresh hornblende crystals. This forms an irregular but fairly sharp contact with an aggregate of coarse (to 10mm) green/khaki primary hornblende crystals, which forms the other ½ of the rock and may be of cumulus origin.

The **coarse reddish plagioclase** is moderately altered to clay-sericite, some of which is very concentrated as cores in plagioclase. The hornblende is an indigenous part of the plagioclase aggregate (which may be regarded as a hornblende-gabbro). It enclosed minute small altered plagioclase crystals (like the poikilitic hornblende in the 'basalts' of JH-6, JH-7). Minor fine crystalline plagioclase (albite) mosaic is interstitial. Accessory grains of apatite and are scattered.

This hornblende-plagioclase aggregate is complicated by several fractures, occupied by discontinuous veins variably of:

- 1) fine quartz mosaic, recrystallised late magmatic
- 2) fine albite mosaic
- 3) localised microspherulitic chlorite
- 4) pale greenish blue, cryptocrystalline chloritic clay.
- 5) limonitic iron-oxide.

The **coarse subhedral hornblende crystals** dominating the other half of the rock are crowded with very small, altered plagioclase laths, lesser flakes of chlorite and finer blebby opaque grains of composite hematite-rutile oxide (which are locally abundant). Magnetite was not seen (and the rock does not attract a magnet). Interstitial areas consist largely of fine albite mosaic, locally with ?uralitised pyroxene i.e. basaltic, cf JH-6, JH-7), accessory sphene and apatite.

The same irregular veins as in the plagioclase-dominated area cut this hornblende aggregate.

JH-9

Massive, partly recrystallised (incipiently hornfelsic) hornblende-basalt. Plagioclase completely altered to 'clay-sericite', disseminated Fe-Ti oxide grains. Stringers of fine quartz, clay-sericite, hematite, pale bluish chlorite.

Macroscopically, this is a massive, dark green, compact fine crystalline rock, which in handspecimen could be considered as a basalt or hornfels.

Petrographically, it is seen to consist of a subequal amount of massive, very irregularly granular hornblende and intricately intergrown altered plagioclase, all with an individual grain size scale of about 0.15mm.

The gross composition is hornblende-basaltic (cf. JH-6m JH-7), but the gross (micro) texture appears to be at least incipiently 'metamorphic' rather than strictly primary-igneous.

Local, skeletal, interstitial almost opaque leucoxene, may be altered pyroxene. Fine (0.05mm) opaque oxides are scattered and locally clustered to form up to 5% of the rock. These consist of indefinite combined Fe-Ti oxides (but the rock is not 'magnetic'). Sparse skeletal/patchy k-spar is scattered.

There are numerous late stringers, variably of very fine quartz, clay-sericite, pale bluish cryptocrystalline chlorite, all $\pm$ hematite staining.

JH-10

Massive hornfelsic, hornblende-basalt, same as JH-9. Veins/stringers of albite (early), then quartz, then carbonate-chlorite (latest).

This rock is essentially the same as JH-9, but it has a stockwork of veins and veinlets of several 'generations; (or at least several compositions), and this description is probably best used to report on this. Age relationships are well displayed within the area of the section and from oldest to youngest are :

- 1) narrow (2mm), dark green layer-veinlets and random stringers dominated by fine hornblende, essentially part of the (recrystallised) host rock.
- 2) pinkish vein to 3mm, of microcrystalline albite clouded by hematite dust with minor associated quartz, also carrying several coarse crystals of sphene. [Possibly related to aplitic matrix to breccia in JH-3, and coarse plagioclase in JH-8].
- 3) vein of quartz to 5mm, dominated by relatively coarse stressed quartz mosaic, also with rare sphene
- 4) tightly braided, composite stringer of extremely fine carbonate and chloritised clays clouded by leucoxene, and rare related threads of carbonate.

JH-11

Irregular crystalline aggregate of coarse green hornblende and red plagioclase (which is k-spar and clay-sericite-altered). Accessory apatite. Local area of probable relict breccia of altered 'basalt', (veined by the coarse aggregate).

About 30% of the area in this thin section is very fine grained, altered-basaltic (cf JH-6, 7) and macroscopically in the core, equivalents of this are seen to form breccia fragments. Another 30% of the section consists of dark greenish hornblende (cf. JH-8) and about 30% is pinkish coarse plagioclase (cf. JH-8), but apparently secondarily potash-felspathised. These two coarse components merge to form a composite aggregate and together compare with JH-13.

The basalt consists of a compact very fine grained mass of interlocking green actinolitic hornblende and plagioclase altered to clay-sericite, with even finer, dispersed, hematized opaque oxides.

The coarse hornblende crystals forming irregular aggregates, are diffuse-mottled khaki to green, with numerous inclusions of very small sericitised plagioclase-crystals (as in other samples).

The coarse feldspar aggregate, which largely merges with hornblende, appears to be mostly primarily plagioclase, but potash-felspathised, also quite extensively altered to indefinite clay-sericite. Numerous small apatite crystals are scattered (as in JH-8), some in short trains along contact with the hornblende.

JH-12

Massive completely pervasively chloritised and sericitised, undeformed basalt; dispersed extremely fine Fe-Ti oxide. Early quartz vein, late veins/stringers of reddish oxidised ca Fe-Ti oxide. Early quartz vein, late veins/stringers of reddish oxidised carbonate and chlorite.

This sample is massive, fine grained and broadly altered-basaltic (indeed a more altered equivalent of the basaltic breccia fragments in JH-11).

Petrographically, it is seen to consist of a compact mass of very fine (0.3mm) chlorite replicas after a primary mafic minerals, clouded with extremely fine TiO₂, and hematite, all randomly and intricately intergrown with a subequal abundance of similarly fine altered plagioclase laths. The primary mafic mineral may have been hornblende, as in other sample, or possibly pyroxene in a 'normal' basalt.

Numerous stringers and very narrow braided veins cut the rock at random. There is a relatively earlier, fractured and dislocated, white quartz vein, with rare sphene, [equivalent to vein generation (3) in JH-10]. Other veins and the more numerous stringers consist of fine to coarse carbonate, oxidised to reddish 'limonite', together with chlorite and equivalent to the vein generation (4) in JH-10.

JH-13

Massive irregularly inequigranular (quartz) hornblende diorite, abundant accessory apatite. Extensive alteration of hornblende to 'uralite' and of plagioclase to clay-sericite-kspar. Veinlets of cryptocrystalline quartz and carbonate.

This is a massive essentially undeformed, coarse (2-5mm) hypidiomorphic granular crystalline rock composed of an overall subequal amount of altered green hornblende, altered reddish plagioclase and subordinate (relatively more allotriomorphic) quartz. Quartz content is about 20% of the thin section, but probably more like 10% of the whole rock, due to irregular/patchy variable concentrations of these minerals. Indeed, the whole rock aggregate is vaguely layered.

The hornblende is extensively altered to uralitic actinolitic amphibole mixed with fine chlorite and chloritic clays. The plagioclase is fairly intensely altered to clay-sericite and minor somewhat diffuse secondary k-spar, and contains numerous small inclusions of apatite (cf. JH-8, JH-11). Trace zircons are present. The allotriomorphic quartz is primary late-magmatic, trapped within an earlier open (cumulus) framework of hornblende and plagioclase.

Several veins of cryptocrystalline quartz, reddish-oxidised carbonate and chlorite do not compare specifically with the vein generations e.g. in JH-10 and 11, but these do seem to be most like generation (4) in JH-10, and indeed there are carbonate stringers of this same equivalent.

The rock seems to be most appropriately classified as a (quartz) diorite, but conceivably, a relatively intermediate differentiate of the 'gabbroic' rocks reported above.

JH-14

Massive, hornblende-basalt; plagioclase extensively altered to clay-sericite. Disseminated opaque oxide grains of mixed hematite-rutile. Sparse early generation veinlet of quartz carrying sphene, later veinlets of carbonate and chlorite + (supergene) iron oxides.

This is a homogeneous, massive, dark fine grained (0.3mm) basaltic rock. It consists of very evenly disposed, small subhedral to granular hornblende crystals, essentially fresh and intricately intergrown with random, equally fine laths of plagioclase which all show fairly advanced alteration to clay-sericite.

Fine granular (0.15mm) opaque oxides (5-7%) are evenly disseminated, and in reflected light identified as a poorly defined ultrafine mix of hematite and rutile, (but not simply supergene oxidised titaniferous magnetite). Trace minute blebs of chalcopyrite are present.

Several veinlets consist of :

- 1) an early generation of quartz, carrying accessory sphene
- 2) a later generation of fine carbonate $\pm$ chlorite or chloritic-clays, incorporating fairly concentrated threads of iron oxide.

These are consistent with vein generations (3) and (4) in sample JH-10.

S1/1

Moderately crenulated 'mica-schist', pervasively silicified also with numerous intercalated foliae, more or less selectively limonitised. Original composition uncertain, but apparently lacks indigenous quartz. No evidence of ex-sulphides (or of graphite)

This is a strongly schistose rock sample, quite different in composition and texture from all of the (undeformed) core samples described above. (It may be bedrock to the mafic intrusives).

At least 65% of it consists of pre-existing oriented/schistose fine phyllosilicates, which seem most likely to have been sericite or chlorite, but are now almost entirely pervasively replaced by 'secondary' quartz. Primary quartz appears to be absent.

Undulating and locally crenulated discontinuous foliae of iron oxide are closely spaced throughout this silicified, micaceous fine schist, and seen in reflected light to be goethite/limonite, without an specific indication of what the original phase may have been.

Minor (5-7%) individual limonite-leucoxene replicas probably after individual schistose biotite, are scattered along the prevailing schistosity.

Reflected light examination does not indicate any gossanous characteristics, and there is no graphite.