APPENDIX IV:

EL 2517, 9354

ALGODO

DIAMOND DRILLING SUMMARY SHEETS AND DRILL LOGS.

Queensland Mines Pty Ltd, Western Arnhem Land, NT, Australia
1997 Diamond Drilling Summary

Table: 1

Tenem. Hole ID	G. coord. x y z	Date: started finished	Core size	depth/ strike/ dip	unconf x y z	downh logging tool(s) A-75 ST-27	Lab syst. petro. min's.	Geological summary	Ra max cps/m Tot. GT (cutoff 1‰) from/to
EL 9354 ALG-001	288482.0 8603118.0 180.0	19-May 26-May	NQ	0/325/80 50324/80 100/321/80 150/330/80 200/333/80 230/334/80		A-75	23 3	**0-206.1m, Kombolgie sst**, fine to coarse, gritty, wk to strongly sili., local mcg, dissolution vugs, DQz in 0-30deg fracts common 20.6-24.1, 29.5-31.2,150.8,155.5-166.9,**dolerite sills**, altered. 24.1-29.5m, strongly fract. 30deg. tca, L-DQz The dolerite sills are parallel or secant to bedding (50-70geg tca) **206.1-236.7m, Oenpelli Dolerite**, altered down to 215.8m 215.4-215.8m, granophyre **236.7m EOH**	
EL 9354 ALG002	290308.0 8607903.0 40.0	27-May 2-Jun	NQ	0/265/80 50/266/79.5 100/187/80 150/267/80 200/015/76 250/281/72 290/280/71		N/A	20 5	**0-146.95m Kombolgie sst** 0-54.5m, wk sil w loc desilicific. spots. Fract10-30/40-50deg tca loc. DQz-L 54.5-59m, num 0deg fract. he. w DQz -L 73-134m, f to Mcg sst cem w Cy-H 101-124m, tecto, loc. tilted blocks, Cy gauge, fract. 20deg. tca , 134-136.4m, Slt Brownish red 136.4-146.95m, c sst and congl. 146.95m Unconformity at 90 deg. tca **146.95-290.6 Nourlangie Schist** 146.95-161m, bio-musc. schist, w Gt. wk H-C alt. fol. 70deg tca 161-168.5m, meta-arkose, wk C alt. 168.5-173.2m bio-musc. schist, fol. 60deg tca. 173.2-188.6m, mainly amphibolite w thin sect. of musc.schist 188.6-290.6m, Bio-musc. schist, fol. 70-85 deg tca. Loc. fol. varies from 30-40deg tca. **290.6m EOH**	

Queensland Mines Pty Ltd, Western Arnhem Land, NT, Australia
1997 Diamond Drilling Summary

Table: 1

Tenem. Hole ID	G. coord. x y z	Date: started finished	Core size	depth/ strike/ dip	unconf x y z	downh logging tool(s) A-75 ST-27	Lab syst. petro. min's.	Geological summary	Ra max cps/m Tot. GT (cutoff 1‰) from/to
EL 9354 ALG003	290663.0 8608135.0 60.0	3/06/97 12/06/97	NQ	0/360/70 100/005/68 150/010/68 200/015/68 281/356/68		A-75	26 1	**0-207.41m Kombolgie Sst,** fine to med., c to cg with depth. Siltstone (2m) above basal cg.Locally bleached or strongly sil 109.15-115.95m Ft zone, some MN @ 127m 156.1-158.95m, faulted @ 30deg tca, fold zone, 2 drag folds. 168.1-168.5m fracts 30deg, py. **207.4m, Unconformity.** Sharp contact @ 70 tca. **207.4-281.6m, Nourlangie Schist**. Musc-bio-qz schist w garnets, bands of meta-arkose. Fol. 60-80deg tca. Loc Cy alt., 225.1-235m, amphibolite, carbonate veins 235-281.6m, mainly very f bio-musc-qz schist w bands of meta-arkose and amphibolite. garnets, qz carbonate veins. **281.6m EOH**	Auslog 555 c/s @ 199.2
EL-2517 ALG004	289899.0 8611077.0	13/06/97 20/06/97	NQ	0/270/80 50/79/272 100/79/274 150/79/277 200/78/261 250/75/243 299/73/239		A-75	21	**0-174.45m, Kombolgie sst**. Fine to med. c to cg with depth. SLT mainly above basal cg. Fresh to mod alt. L-Sil, bed. 90-80tca Fract. 15-45, (60-80) DQZ,Cy,loc.py. 151.2,155.5,163,164,165m,**Hyd BR 30deg, Ca-Py,DQz,Cy** 95.2-110.3m, Sil, fract, loc. tecto,0-30deg tca, vuggy-K-DQz **174.45m, Unconformity** **174.45-299.6m, Nourlangie schist** Bio-musc-qz schist, w H-C garnets below unc., fresh at depth Fol. 50-85deg tca. Narrow bands of md alt .MA or felds. QZ 209, 258.6m, Breccia zones, wk chlo., loc Py. 268.75-269.25m, **reverse FT**, 30deg tca, bearing **Py-graphite** **299.6m, EOH**	Auslog 640c/s @ 169

PROJECT: ALGOOO EL 9354 PAGE: 1

HOLE NUMBER: ALG001

DATE DRILLED: 19-5 / 26-5-97

DEPTH	LITHOLOGY	S_0/S_1	STRUCTURE	ALTERATION (C H Si Ab — Ca Bleaching)	MINERALS (Py Gn Gp Si)	DESCRIPTION OF MAIN GEOLOGICAL UNITS	MINERALISATION

0 - 206.1 KOMBOLGIE SANDSTONE

20.65 — 24.10 — 29.4 - 31.4 OENPELLI DOLERITE altered

80 80 BR 80 50 80 80 75 BR 85 100 90 BR 90 80 150 70 85 40 85 85 200 30 BR

The sandstones in this section are weakly to strongly bleached and silicified fine to medium grained, grilly with narrow siltstones to microconglomeratic to conglomeratic beds.
The contacts with the Oenpelli dolerite sills are generally sharp, with the upper part of the sill altered, argillized (clay).

114.8 - 151.8 OENPELLIE DOLERITE altered

165.3 - 166.9 OENPELLIE DOLERITE altered

The contact with the Oenpelli dolerite is sharp, showing chill margins.

206.1

206.1 - 212.9 m strongly altered, bleached
OENPELLIE DOLERITE
215.4 - 215.8 granophyre.

236.7 EOH

AFMECO MINING AND EXPLORATION - DIAMOND DRILLHOLE LOG

E.L. No: 9354 Anomaly: Algodo Hole Number: ALGOOL Logged By: AE

Easting: 288482 Northing: 8603118 R.L: 180 Dip: -80° Azimuth: 325°

Precollar: — Total Depth: 236.7m Start Date: 19/5 Finish Date: 26/5

Driller: Gaiden Rig: G20 Hole Size NQ Gamma log: AUSLOG, TV

Silicification → Alteration (C M I K Cy Si H W) ← Weathering

Depth (m)	Core box #	Sol. S.	Geol	Max Gsize	Fractures	Colour	Minerals Q Ca Tm	U Assay	Samp #	Comments
0		80°		1mm					ALGOOL 0	0-5.7m. Strongly weathered coarse quartz sandstone.
		"		"		LGy			(0-10m composite)	Pale orange iron oxide staining in parts. Extremely friable core.
2.5	(1)	"		2mm	10F	to				Kombolgie Sandstone
4.0		"		"		LO				
		"		"						
5 5.07		"		"						
5.7		"		"	14/50°					5.7-10.44m. Weakly weathered medium to coarse quartz sandstone.
		"		"	7/40					Broken in parts.
	(2)	"		"	7/30°	LGy				
8.7		"		1mm	4/40°					
10		"		"	4/20°/K					

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 2/17

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
											5.7-10.44 cont from pl
10.44		80°		1mm	4/30/K					ALG001	10.4-20.65. Massive well cemented
		"		"	2/20					10 (10-20m composite)	medium grained quartz sandstone. High angle fractures commonly
		"		"	1/5/K						healed + contain drusy quartz.
	③	"		"	5/40						Minor chlorite + hematite 18.0m
		"		"	4/20	lGry					onwards, esp. along fractures.
15.67		"		"	2/50						
		"		"	1/5						
		"		"	4/20/K						
	④	"		"	3/5/H	lGry to lGrn-Gry					
		"		"	12/80/K						
20.65		"		"	12/70/C					ALG001	
21.3		~80°	//	—	15/60/C	Gry Grn to dkGry -Grn				20 (20-30m comp.)	Altered dolerite sill. Margins bleached + clay-altered. Contains
		"	//	—	20/80/C						abundant coarse grained irregularly shaped feldspar laths (altered
	⑤	"	//	—	30/80/C						to clays).
24.1		80°			4/60/H						24.1-27.5 Coarse qtz sandstone

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 3/17

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
25		80°		1mm	3/60/H	lGy to lO					24.1-27.5. Coarse qtz sandstone, well cemented. High angle fractures
	(5)	"		2mm	4/50/H						healed with drusy qtz
27.5 = 27.65		"		3mm	5/20/K	lO + Pu					Well bedded quartz microconglomerate. Strong silica cementing. Moderate orange + purple iron staining
		"		5mm	2/80/K						
29.4		"		4mm	8/40/Cy	lBn + lGn					29.4-31.4m. Dolerite sill. Upper part strongly altered + iron stained. Central section chloritc altered. Lower section weakly altered.
30	(6)	"		-	12/80/C					ALG001 30 (30-40m comp)	
		"		5mm	7/50/C						31.4-40.05m Well bedded quartz sandstone.
32.87		"		5mm	4/15/K						
		"		3mm	2/80	lGn-Gy + lPu-Gy					
35		"		1mm	4/60/C						
	(7)	"		2mm	4/10/C						Well cemented. chloritic alteration along fractures. Small breccia zone 34.7-35.5m. Trace iron staining throughout.
		"		"	2/30/C						
		"		8mm	3/80						
38.47		"		2mm	1/70/H						
	(8)	"		1mm	3/30/C						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 4/17

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
40		80°		6mm	5/70/C					ALG001 40	40.05-50.3. Well bedded sandstone. Occasional siltstone + microconglomeratic
	(8)	"		2mm	3/80/K	lPu				(40-50m comp)	bed, to 15cm. Weak chloritic alteration along fractures. Weak
		"		4mm	3/80/H	to lGy					patchy iron staining, moderate in siltstone beds.
43.85		"		6mm	6/80/H						
		"		5mm	5/5/K	Rc+Bn					
45		"		7mm	4/30						
	(9)	"		12mm	4/60						
		"		5mm	2/80						
		"		2mm	2/30/K						
49.25		"		3mm	4/60/K						
50 50.3		"		4mm	2/80					ALG001	50.3-54.85. Massive Microconglomeratic
	(10)	"		6mm	3/20/C					50 (50-60m comp).	Well cemented. Sub to well rounded quartz pebbles. Partially brecciated in parts. Weak chlorite altn along fractures + weak iron staining.
		"		10mm	2/80	lPu to lGy					
		"		12mm							
54.7 54.85 55		"		30mm							

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 5/17

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
		80°		2mm	2/60						54.85-71.2m: Massive, strongly silicified medium-coarse grained quartz sandstone. Faint iron staining throughout.
		"		1mm	1/70/Cy						
	(11)	"		"	4/15						Clay nodules common.
		"		2mm	3/70°						Drusy quartz infill in vugs 59.0-65.0m.
~~59~~ 59.9		"		"	5/20/K						
		"		"	3/50°	lPu to lGy				ALG001 60	
61.5		"		"	3/60					(60-70m comp).	
	(12)	"		"	1/5/K						
		"		"	3/5°						
		"		"	5/5/K						
64.8 65.05		"		"	3/50°						
	(13)	"		"	6/15/K						
		"		"	4/20°						
		"		"	2/5°						
		"		"	2/30°						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 6/17

Depth (m)	Core box #	So/Sl	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
70											
70.6	(13)	80°		2mm	3/30°					ALG001 70	54.85-71.2 cont from p5
71.2		—		11	6/50°/K					(70-80m comp).	71.2-74.85 Partially to strongly brecciated quartz sandstone
	(14)	—		3mm	12/40°/Dqz	LGr +					Clast supported, no matrix. Abundant cavities with drusy quartz
		—		2mm	12/50°/Dqz	LOr					
		—		11							
74.5		75°			5/50°/Dqz						74.5-109.5: Massive, strongly
75											
75.2		11		11	8/40°/Dqz						silicified medium grained quartz sandstone
		11		11	6/40°/Dqz						
	(15)	11		1mm	3/40°	LP					
		11		11	1/10°	to					
		11		4mm	3/40°	LGy					
80											
80.3		11		1mm	2/60°					ALG001 80 (80-90m comp).	
81.4		—		11	7/30°/Dqz						
	(16)	—		2mm	5/30°/Dqz						
83.2		80°		3mm	3/80°						
		11		5mm	2/80°						
85											

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 7/17

Depth (m)	Core box #	S0/S1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
85											
85.57		80°		1mm	2/50°						74.5-109.5 cont from p6
		"		2mm	4/30°						
		85°		1mm	4/30°/K						
	(17)			"	4/80°						
		"		"	4/80°	LP					
90						to					
90.9		90°		"	2/70°	LGy				ALG001 90	
		"		"	4/20°					(90-100m comp)	
		"		"	2/26°						
	(18)	"		"	4/30°						
		"		"	3/30°						
95											
		"		"	10/30°						
96.25		"		"	4/20°						
	(19)	"		"	5/60°/K						
		"		"	7/50°						
		"		"	4/20°						
100											

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 8/12

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
100		90°		1mm	3/30°					ALG001 100	74.5-109.5 m cont from p7.
101.7		11		11	4/80°					(100-110 m comp).	
102.5		-			4/60°/K						102.5-103.6 Small breccia zone. Vugs + drusy qtz common.
103.6	(20)	-		11	4/20°						clay matrix common.
		80°		2mm	3/30°/K	LP					
105				11	4/20°	to LGy					
		11		11	3/60°						
107.55		11		11	3/60°						
		11		11	2/10°						
109.5	(21)	11		11	3/80						109.5-118.0 Massive, well cemented medium-coarse quartz sandstone. Abundant clay nodules
		11		2mm	4/70°					ALG001 110 (110-120 m comp)	
		11		1mm	2/20°	LGy					
112.58		11		11	1/10°						
	(22)	11		11	3/80°						
		11		11	2/50°/K						
125											

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 9/17

Depth (m)	Core box #	S0/S1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
115		80°		1mm	2/70°	lP					109.5-118.0 cont from p8
	22	"		"	3/30°	to lGy +					
117		"		"	3/15/K	lY					
117.8											
118		"		"	5/30°/K						118.0-133.24. Massive qtz sandstone. fine grained, well silicified, minor
		"		"							clay nodules. Weak patchy iron
119.6					4/30°/K						staining
120	23	"		"	3/40/H					ALG001 120	
		"		"	3/80°	lGy to lPu				(120-130m comp)	
		"		"	2/70°						
123.14		"		"	2/70°						
		"		2mm	3/80°						
125		"		"	1/70°						
	24	"		"							
		"		"	2/80°						
128.4		"		"	2/30°/K						
		"		1mm	2/70°						
130											

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — Hole #: ALG001 — Page#: 10/17

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration (C M I K Cy Si H)	Minerals (Q Ca Tm)	U Assay	Samp #	Comments
130		80°		1mm	2/70°	lGy				ALG001 130	118.0-133.4m cont from p9.
	(25)	"		"	2/70°	lGy to lPu				(130-140m comp)	
		"		"	3/20°						
133.24 - 133.86		"		"	8/10°						133.24-148.6m: Massive f-m grained quartz sandstone. Extremely well silicified becoming chert-like in some parts. Patches of clay nodules present.
135		"		2mm	5/60°/K						
		"		"	5/50°						
	(26)	"		1mm	12/20°	lGy					
		"		"	8/60°						
138.63		"		"	6/60°						
		"		"	10/60°						
140		"		"	6/50°					ALG001 140	
	(27)	"		2mm	3/40°					(140-150m comp)	
		"		"	6/30°						
143.8		"		"	4/30°						
145		"		"	5/30°						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 11/17

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
145		80°		2mm	7/30						133.24 - 148.6 cont from p10
		"		"	7/50	LGy					drusy qtz in cavities
	(28)	"		1mm	8/40/K						
148.6		"		1mm							
			//		5/20/K	Y-Bn					148.6 - 151.8m: Altered dolerite.
149.3		70°	// // // //	-	7/50/Cy	Rd-Bn + LGn					Strong bleaching + clay alteration to 149.3. Moderate chlorite + hematite
150		"	// // // //	-	6/20/Cy					ALG001 150	alteration 149.3 - 151.8m
151.8		"	// // // //	-	8/30/Cy					(150-160m comp)	
	(29)	85°		2mm	2/80						151.8 - 165.3m: Sandstone, massive and well bedded. Clay nodules common. Traces of drusy qtz along fracture plains.
		"		1mm	2/40						
154.7		"		"							
155		"		"	1/20						
	(30)	"		"	2/50						
		"		"	4/50						
		"		"	2/5/Cy						
159.2		"		"	4/10						
160											

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 12/17

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
160		85°		1mm	3/20/L					ALG001 160	151.8-165.3 m cont from p11
		"		"	3/60	LGy				(160-170m comp.)	
	(31)	"		"	2/50	+					
		"		"	1/40	LPu					
		"		"							
165		//	//	—							
165.3		40°	//	—	4/40/Cy	LGn					165.3-166.9: Altered dolerite. Well developed chill margins. Dyke cuts bedding @ ≈40°
165.5		"	//	—	8/50/C	+ LBn					
166.9		85°		1mm	3/40						166.9-188.2 m: Weakly bedded, coarse grained sandstone. Strongly silicified, clay nodules common.
	(32)	"		"	3/60/K						
		"		"	5/50/K	LP-					
170											
170.7		"		"	3/40/K	LGy				ALG001 170 (170-180m comp.)	
		"		"	3/40/K						
	(33)	"		"	4/30/K						
		"		"	4/30/K						
		"		"	1/20/K						
175											

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 13/17

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
175		85°		1mm	2/30/K						166.9-188.2 cont from p 12.
176.3		"		"	4/20/K						
		"		"	4/40°						
	(34)	"		"	7/50°	LP-					
		"		"	2/20/K	LGy					
180		"		2mm	4/50°					ALG001 180	
181.6		"		1mm	5/40°					(180-190 comp).	
		"		"	2/40°						
	(35)	"		"	5/40°						
		"		"	4/40°						
185		"		"	2/70°						
186.9		"		3mm	3/30/K						
		"		8mm	4/30/K						
188.2	(36)	"		8mm	3/60/K	LGy-					188.2 - 199.6 m: Coarse sandstone. Microconglomerate in places. Well silicified.
190		"		3mm	3/70°	LY					

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 14/17

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
190											
	(36)	85°		15mm	2/80					ALG001 190	188.2- 199.6 cont from p13
		"		3mm	1/80	lGry				(190-200m comp)	Abundant small cavities with clay infill. Clay nodules also
192.3		"		2mm	5/40	+ lY					common. Minor patchy chlorite
		"		"	3/50						
	(37)	"		"	2/40/K						
195		"		"	3/40/K						
		"		3mm	2/80/K						
197.7		"		2mm	3/40/K					ALG1	
		"		"	4/60					198, Grab TS, XRD Geochem	
199.6		"		4mm	6/50/C						
200		"		2mm	3/50/C					ALG001 200	199.6-206.1m: Chlorite altered sandstone, with small (<20cm)
	(38)	"		"	3/50/C	LGn-				(200-206.1m comp.)	altered dolerite dykelets. → ALG1-202 TS
202.95		"		"	3/40/C	LGry					
	(39)	"		"	2/80						
205		"		"	4/60/C					205	ALG1-205, TS, XRD, Chem (Grab)

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 15/17

Depth (m)	Core box #	S0/S1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
205		85°		2mm	2/70/Cy						199.6-206.1 cont from p14
206.1	(39)	30°	// //	—	5/50/C					206.3 Grab	206.1-212.9m: Strongly altered, bleached dolerite.
		//	// //	—	15/60/C					TS, XRD chem	Chill margin to Oenpelli Dolerite.
208.6		//	// //	—	4/60/C	LGn					
		//	// //	—	6/50/C					ALG1-210 (Grab) XRD	
210	(40)	//	// //	—	8/60/Cy						
		—	// //	—	8/50/C						
212.9		—	// //	—	8/50/C						
213.85		—	// //	—	8/50/C					ALG1-214 (Grab) XRD	212.9-236.7m: Fresh, crystalline coarse grained dolerite. Mod. chlorite alteration at top. Minor carbonate veining.
		—	// //	—	6/60/C						
215											
215.3		—	// //	—	5/50/C	DGn					Oenpelli Dolerite.
	(41)	—	// //	—	2/40/C	to DGry					
		—	// //	—	1/40/C						
218.7		—	// //	—	4/50/C						
		—	// //	—	2/50						
220											

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG Hole #: ALG001 Page#: 16/17

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
220		-	// // //	-	2/10/C						212.9-236.7 m cont from p15.
	(42)	-	// //	-	1/20/C						
		-	// // //	-							
		-	// //	-		DGn-Gy					
225	22435	-	// //	-	2/60/C						
		-	// //	-	1/60/C						
		-	// //	-	3/50/C						
	(43)	-	// //	-							
		-	// //	-	6/60/C						
230	229.75	-	// // //	-	3/50/C						
		-	// //	-	1/60/C						
		-	// // //	-	1/60/C						
	(44)	-	// //	-	2/60/C					ALG1-233,TS	
		-	// // //	-	1/50/C						
235		-	// //	-	3/50/C						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG001 Page#: 17/17

Depth (m)	Core box #	S0/S1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
235.3	(45)	–	// // = // //	–	5/50/c	DGn					212.9-236.7 cont from p16
236.7	E.O.H.	–	// =	–	4/50/c	Gy					E.O.H.

PROJECT: ALGOOO EL 9554 PAGE: 1

HOLE NUMBER: ALG 002

DATE DRILLED: 27/05 - 02/06/97

DEPTH	LITHOLOGY	S_0/S_1	STRUCTURE	ALTERATION (C, H, Si, Ab, K, Ca, Bleaching)	MINERALS (Py, Gn, Gp, Sl)	DESCRIPTION OF MAIN GEOLOGICAL UNITS	MINERALISATION

0-146.95 KOMBOLGIE SANDSTONE

Mainly fine to medium grained grey to lt gy, generally heterogranular, gritty with narrow Mg and Cg, maximum grain size 3-2 mm. Cement mainly siliceous abundant and argillaceous

102 - 124, Breccia zone (possible dip 30° Tca) with numerous hematite rich clay gauges

102 - 146.95 mainly med to Cg sst, with a zone of sandy siltstones from 134 to 136.6 m

Maxim. cobble size > 50 mm

50

BR

100

BR

90

150

60°

50°

90°

50°

30°

60°

130°

200

50°

90°

60°

102 m strongly fractured, brecciated zone with numerous hematized clay gauges down to 124 m

124 m

134 m - 137 m Siltstones (sandy)

UNC 146.95 m

Biotite muscovite (sericite schist, WK hem.)

NOURLANGIE Schist

153.2 chloritized meta-arkose N160, Dip 60° WSW

168.6

Fine grained amphibolite Fresh N 175, Dip 70° W e 180 m

188.8

188.8 - 200.6 m Fresh biotite muscovite schist with scattered almandine garnets and possibly sillimanite(?)

213.5 to 216.8 m chloritic meta arkose narrow bands.

PROJECT: ALGOVO EL 9554

PAGE: 2

HOLE NUMBER: ALG 002

DATE DRILLED: 27/05 - 02/06/97

DEPTH	LITHOLOGY	S_0/S_1	STRUCTURE	ALTERATION (C H Si Ab — Ca)	MINERALS (Py Gn Gp Si)	DESCRIPTION OF MAIN GEOLOGICAL UNITS	MINERALISATION
250		80°				233 - 241 chloritized quartz feldspar rich mobilizates	
		80°				248.5 - 248.9 Fine grained amphibolite	
		85°	BR			256 Moderately altered meta arkose	
						260 - 263.6 " " "	
						290.6 EOH	
300							

AFMECO MINING AND EXPLORATION - DIAMOND DRILLHOLE LOG

E.L. No: 9354 Anomaly: ALGODO Hole Number: ALG 002 Logged By: D. ALONSO

Easting: 290 308 Northing: 8607903 R.L: ≈ 40 Dip: -80 Azimuth: 265

Precollar: Total Depth: 290.6 m Start Date: 27/5/97 Finish Date: 2/6/97

Driller: Rig: Hole Size NQ Gamma log: Auslog/AE

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures		Colour	Alteration C M I K Cy Si H B	Minerals Q Ca Tm	U Assay	Samp #	Comments
1				1								0-90m soil? no recovery 0.9m KOMBOLGIE
2				1	5	10/30° L	wh					f to m sst
3	1			2	4	2-45° 2-10/20°						0.5 to 16m f-m sst, wk sil shows pinkish dissolution (spots/vugs?) Partly filled by clay;
4				12	0							
5				8	0							
6				16	1	20° L	P					
7	6.40			4	1	40° K						
8		85		2	0							
9	2			4	1	20° L						
10				6	5	2-20° L 3-45°					10	

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG002 **Page#:** 2 of 20

Depth (m)	Core box #	S0/S1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
11	2			16	0						
12	11.6			4	3/20° He						
13				2	4/30° L						
14				2	3/30°/Ro/L						
15	3			4	3/30°/Ro/L						
16				4	3/30°/He/L						16 to 22 m fine to medium SST
17				4	2/10°/He/DQz	P					
18	17.1			4	2/0°/Cr/He						
19				2	2/40°/He						
20	4			4	3/40°/L 1/0°/L/DQz					20	
21		87°		2	1/0°/L						
22				4	1/0°/He/Q						
23	22.5	90°		2	2/0°/L/DQz						22-49.20 m mainly fine SST, locally medium
24				1	2/20°/He/Q						weakly to strongly silicified, fractures are mainly healed by qtz
25	5			4	2/20°/He/Q						Limonite stained (goethite)

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 002 **Page#:** 3 of 20

Depth (m)	Core box #	S0/S1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
26	5			1	0						
27				1	0						
28	27.8			1	0						
29				1	3/20°-30°/He						
30				2	2/40°/Ro/K/L	P				30	
31	6			4	0						
32				4	0						
33				2	3/10°/Cu/He/DQZ						
34	33.1			2	3/10°-40°/L						
35				4	2/30°/He						
36	7	90°		—	1/0°/Cu/DQZ/L						Siltstone 5cms Siltstone 1cms
37				6	1/0°/He						Siltstone 1cms
38		87°		6	3/30°/He/L						
39	38.6			4	0						
40	8			10	0	pale green				40	

1

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 002 **Page#:** 4 of 20

Depth (m)	Core box #	So/Sl	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm Py	U Assay	Samp #	Comments
41				4	1/0°/He						Siltstone 5cms
42	8			2	0	Light					
43				1	1/0°/Cu/He	pink					
44				10	3/0°/Cu/He						conglomerate 20cms @43.8m
45	44.1			1	1/30°/Cu/Py	pale		Py			
46				8	0	green					siltstone 5cms siltstone 1cms
47	9			10	2/20°/Ro/K?	Light					siltstone 7cms siltstone 2cms
48				2	0	pink to					
49				6	0	pale green					
50	49.1			32	0					50	50 to 53m - fine to coarse SST, mcg to cg locally towards base
51		90°		20	0						Clay cement and silica, Illite, Kaolinite?
52				26	0	Light					51.50 to 52.50m micro conglomeratic (mcg) to conglomeratic SST (cg)
53	10			10	0	brown					
54				4	0						
55				4	1/30°/L/H/Oz 1/0°/He						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG002 **Page#:** 5 of 20

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
56	55.1			2	1/0/He/DQz						54.00 - 71.70 m, fine to medium grained Strongly silicified
57				2	5/45-0°/He/L/DQz						Limonite in fractures or DQz rarely
58	11			2	4/0°/He/DQz/K? 5/45°/He/DQz/K?						
59				2	Rubble/vuggy/DQz/K?						
60				4	3/0°/He/DQz/L/K?					60	
61	60.20			4	3/0°/He/DQz/K?/L	white					
62				4	4/0°/He/L	to					
63	12			2	5/20°/He/K?	pale pink					
64				1	1/30°/Ro/L						
65		90		1	4/30°/He/L 3/50/He/L						
66	65.6			2	2/0°/He						
67				1	2/0°/He						
68				1	4/30°/L						
69	13			1	3/30°/He/Q						
70				2	3/30°/He/Q					70	

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 002 **Page#:** 6 of 20

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
71	13 70.9			2	2/20°/Cu/He						
72				1	4/20°/He/DQz						
73				2	2/ "						71.70 to 98.00 Fine to medium
74	14			2	4/ "						sst with local isolated pebble up to 10 mm max; weakly to moderately silicified,
75				4	2/45°/L/DQz 1/20°						
76				2	3/45°/DQz/						
77	76.1			2	1/30°/L						
78				4	0	Pale					
79				4	2/20°/DQz/L	Pink					
80	15			2	2/20°/Cu/He					80	
81				4	1/Cu/L/10°						
82	81.8			10	0						
83				6	0						
84	16			1	0						
85				4	0						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 002 **Page#:** 7 of 20

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
86	16			2	2/20°/He/k						
87				2	0						
88	87.4			4	0	Pale					
89				4	0	Pink					
90				2	1/0/Cu/Qtz/H					90	
91	17			4	2/30°/Qtz/C						
92				2	"						
93	92.9			12	2/30°/K/Qtz/He						
94				8	1/30°/He/K 1/40°/K/He/Qtz 0/Cu/He	93.7					
95				6	3/45°/K/Qtz						
96	18			14	3/40°/He/Qtz/K						
97		90°		8	2/30°/RO/K						
98				8	3/0°/Cu/K/RO	Dk Brown					
99	98.4			8	1/30°/Cl(K)						
100	19			8	2/30°/RO/H					100	98 - 105m Tectonic zone.

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 002 **Page#:** 8 of 20

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Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H Bl	Minerals Q Ca Tm	U Assay	Samp #	Comments
101				24	3/30°/RO/KL/L						
102	19			26	RUBBLE						98.5 → 105 FRIABLE tectonic zone with clast of silicified sst in sandy clay matrix (K?)
103				14	RUBBLE						
104	103.3			1	RUBBLE 0°/He/DQz	WHITE					stained by hematite and limonite, bedding locally slightly tilted 60°
105				1	RUBBLE. "	TO PALE					moderately bleached
106	20			2	10/0°-30°/He DQz/H/K	PINK					105-108, Fine to medium sst silicified, fractured moderately bleached
107				6	"						
108				1	1/30°/He						
109				1	RUBBLE K/GAUGE.						108-124m, similar to 98.5 to 105 but more red ferruginous clay gauge material and limonite staining along open fractures. Locally druzzy quartz in silicified fractures.
110	109.3			1	GAUGE 1/H					110	
111				1	RUBBLE						
112	21			1	RUBBLE						
113				1	RUBBLE 6/ 3/0°-30°/He/ K/DQz						
114				1	RUBBLE CL/TILTED/BLOCKS	DK BROWN					
115	114.9			1	RUBBLE CL/TILTED BLOCKS	TO RED					114.6, 6cm of clay gauge

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 002 **Page#:** 9 of 20

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
116				2	"						
117				2	" GAUGE/H/						
118	22			4	RUBBLE GAUGE/H "						117m, 10cm of red clay gauge 117.8, 8 cm of red clay gauge
119				2	"						118.2, 5cm " " " "
120			cy gauge	6	"					120	119.6-120.2 Hematite rich sandy clay gauge
121	121			2	"						
122				2	3/0°-30°/CU/RO DQz/L						
123				2	1/0°/H						
124	23	90°		1	1/30°/CL/GAUGE						123.8m Open FRACTURE 30° 2cm FILLED WITH SANDY CLAY - GAUGE, H
125				4	1/30°/He						124-127.8 coarse to Mcg sst.
126				4	3/10°-20°/H/RO L						fresh
127	126.5			4	2/ "					127	
128				6	0	DK BROWN TO RED				Grab MAE*RED	
129	24			2	1/ "						128.0 siltstone 12cm Red 128.5 " 3cm " 128.7 " 2cm "
130				6	1/0°/He/RO/L					130	129.5 " 6cm "

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** ALG002 **Page#:** 10 of 20

Depth (m)	Core box #	S0/S1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
131				1	1/0°/He/Vuggy Qtz	DK BROWN					
132	24			1	"	TO RED					
133	132.8			1	"						
134				10	"						
135	25			1	9/0°-30°/He/Q	RED					134 to 136.7 m Red siltstone
136		90°		1	2/ "						with centimetric beds of med to coarse sst.
137				4	3/ "					136.8	
138	137.4			28	0					Grab ME+XRD	137.8 red siltstone 1 cm
139				20	0	DK BROWN					136.7 – 142.10 Conglomerate and conglomeratic sst hematite
140				40	0					140	and probably illite? in sandy clay
141	26			30	1/0°/cu	PALE BROWN					matrix.
142				20	1/20°/cl/k?	& Yellow				142	142.10 m
143	143			20	0					Grab ME+XRD	Idem 136.7 to 142.1 but
144	27			4	1/30°/Q	BROWN &					brownish red (hematized)
145				15	0	RED				144.8 Grab ME+XRD	

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 002 **Page#:** 11 of 20

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
146	27			30	1/30°/He/Q	BROWN RED					
147				>50	0						UNC @ 146.95m
148					1/25°						The unconformity is normal at about 90° tca.
149	148.4				1/15°						146.95 to 153.2m. Altered: hematitized ch wk chloritized biotite muscovite or sericite schist with altered ferromagnesian
150		60°			1/Cu/30°						
151	28				0						or chloritized garnets. Apart from the ferromagnesian
152					2/30°						no clear evidence of paleoweathering profile.
153					1/10°/He/Q	PALE GREY WITH RED DOTS					@ 149.6m orientation of core:
154	153.3				2/40°/110°						Strike N160° dip 30° WSW
155					1/30°/Rough/I-C						
156	29				0						
157					1/30°/He/H						
158					0						
159		60°			1/50°/CL						
160	159.2 30				0						159.2

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 002 **Page#:** 12 of 20

Depth (m)	Core box #	S0/S1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
161		50°			1/20°/Ro 1	P.Grey/ red dots					159.2 to 168.6, medium
162		50°			P/85°/H/Gy						grained altered, chloritized meta arkose, massive with
163	30				L/50/Ro 1/40/Ro, 1/35/Ro						disseminated white micas
164					1/30°/Ro 1/80°/Ro					164.1	From 159.2 to 161m progressive passage mux. biotite schist into meta arkose.
165	164.6				0	PALE GREEN				TS+Grab	meta arkose
166					1/30°/Ro 1/66°/Ro						
167		50°			1/0°/He, 1/60°/He 2/30°/He/Q						
168	31				0						
											168.6
169					1/50°/Ro						
170					3/20°/L						168.6 - 173.20 Transition zone of biotite muscovite schist and
171	173	40°			1/20°/Ro						decimetric altered meta-arkose
172					1/20°/Ro	DK GREEN					173.3, 1 cm Qz vein // to foliation 70° tca bearing specular hematite
173		70°			1/20°/Q/L						
											173.20
174	32				0						173.2 to 188.8 fine
175					5/30°-60°/Hy/Q						grained amphibolite

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 002 **Page#:** 13 of 20

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
176	175.5	70°			0						
177					2/60°/Hc						173.2 to 183.8, Fine grained
178	33				1/30°/Hc						fresh amphibolite with
179					0						numerous silica layers // to foliation
180					0					180	From 173.8 to 177.4m dismetric arkosic zones.
181	181.0				1/60°/Hc/Q					TS+Geoch	Amphibolite 180m, Core orientation.
182					1/90°/Hc/Q						strike N265. dip 20° W
183					1/30°/Ro/H						
184	34				1/30°/Ro/Hc	DARK GREEN.					
185					0						
186					3/30°-50°/Ro/Cy						
187	186.5				0						
188					3/40°/Ro						
189	35	50°			2/60°/Hc/H						188.6 m
190		30°			3/40-50/H/Py						188.6 to 190 m transition zone between massive amphib-biotite, muscovite schist

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 002 **Page#:** 14 of 20

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
191	35				1/40°	Dark grey					188.6 - To 290.6 m
192	152	30°			3/40/Cy/C						Fresh biotite muscovite schist, finely laminated with local horizons bearing
193					1/30°/SS 3/85°/Cy/H						
194					3/75-85°/Cy/H						1-5 mm almandine garnets and most probably sillimanite?
195					1/30°/Ro/C 3/60-80°/Ro/C	dark green					At 192.8 m very sharp 30° fracture showing shiny [illegible]
196	36				4/30°/SS						194.2 - 194.6 m very rich in 1-2 mm garnet
197		60°			2/40°/Ro 1/30°/Hc						195 to 196 m fracture showing slickenslide and kink bands
198	197.6				3/30-40°						194.5 m, might be amphibolitic segregations
199		65°			2/90°						
200	37				1/85°/Ro						
201					0						
202					1/40°/Ro/Cy/C						
203	202.8				1/85°/Cy						
204	38				0	GREY GREEN					
205					0						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 002 **Page#:** 15 of 20

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
206	38				1/80					206	
207					0			biotite muscovite schist + dissem. garnets		TS+Grab	
208		50°			1/30/He/Q						
209	208.4	70°			0						
210					0						
211	39				1/0°/Cv/Cy/I						
212					"						
213		70°			2/60°/Ro 1/40°/Ro						213-5 to 216-8 m, centimetre to decimak metaarkosic bands
214	213.2				1/30°	GREY GREEN					Moderately altered to chloritized
215					2/30-40°						
216	40				0						
217					1/20°						
218	218.2				0						218-219 m, large garnets up to 2-3 mm
219	41				0						
220					0						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 002 **Page#:** 16 of 20

Depth (m)	Core box #	60/51	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
221		70			0						
222					1/45°/Hc/Q/BR						
223	41				0			Q vein 10 cms			
224					0						
225	224.7				1/30°/Ro						
226					1/5°/Cv			Q vein ~20 cms			226.1 m to 227.4 m moderately altered decimetric askosic bands (massive)
227	42				0						
228					2/45°/Hc/Q	GREY					
229	229.1	60°			0	GREEN					
230					0						
231					0						
232					1/20°/Ca/Py						
233	43				0						
234					1/0°/Cv/I/Ca/P						234 to 241 m centimetric qtz, feldspar rich beds (segregation / mobilization)
235											

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG002 **Page#:** 17 of 20

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
236	235.4				0						
237					1/40°/Ro						
238	44				1/40°/Ro						
239					0						
240		80°			1/60°/Ro						
241	240.6				1/0°/Hc						
242					0						
243					0						
244	45				0	GREY					
245					1/40°/Ro	GREEN					
246					0						246.5 to 248.9 m - fine grained amphibolite, with numerous qtz veinlets // to foliation
247	246.3				0						
248					1/30°/Hc/Q						
249	46				0						
250					0						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG002 **Page#:** 18 of 20

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
251	46				0						
252	251.8				1/30°/Ca						
253					0						
254					0						
255	47				0						
256					1/45°/Ro						
257					0						256.5 to 257.2m moderately altered quartz, feldspar biotite meta arkose
258	257.3				0						
259					1/70°/Ro						
260		80°			1/50°/Ro/Cb	GREY					260.2 to 263.6m centimetric to metric moderately altered to silicified arkosic bands
261	48				1/50°/Hc/Q	GREEN					Coarse to fine grained
262					1/50°/Ro						
263	262.8				1/50°/Q						
264					0						
265	49				0						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG002 Page#: 19 of 20

Depth (m)	Core box #	S0/S1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
266					0	DK GN					fine grained amphibolite at 265.1 to 266.8 m (fresh)
267	49				0						
268					0						
269	268.3				1/20°/Ro						
270		80°			1/50°/Ko						
271	50				0						
272					1/30°/Ko						272.5 m - 274.1 m, moderately altered illitized
273					0						
274	273.8				0						
275					0						
276	51				1/20°/Hc						
277					1/40°/Cv,					277	
278					0	DARK GREY				TS+Grb	Biotite muscovite schist + garnet
279					0						
280	279.2 52				0						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG002 **Page#:** 20 of 20

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration (C M I K Cy Si H)	Minerals (Q Ca Tm)	U Assay	Samp #	Comments
281		85°			0	DARK				280.6 TS+Geol	280-284.7 m Fine grained amphibolite section with numerous milli to
282					0	GREY					centimetric bands of Qz amphibolite
283	52				0						
284					1/70°/Q						284.7 to 285.3 m recrystallization fault, mylonite // to bedding, showing microfolding and qtz injection
285	284.7				0						
286					0						
287	53				0						286.85 to 287 altered arkosic band
288		85°			1/40°/Hc						
289					0						
290					0						
291	290.3 54				1/90°						290.6 EOH
292											
293											
294											
295											

PROJECT EL 9354 ALGODO

PAGE 1

HOLE NUMBER ALG 003

DATE DRILLED 3-12/6/97

DEPTH	LITHOLOGY	S_0'S_1	STRUCTURE	ALTERATION (C, H, Si, Ab, Ca, Bleaching Cy)	MINERALS (Py, Gn, Cp, Sl)	DESCRIPTION OF MAIN GEOLOGICAL UNITS	MINERALISATION
						Kombolgie Sst (lower member)	
						bleached throughout	
						strongly silicified	
		70				bedding ~ 70-80° (rel. to core)	
50		80				Sst fine gr. : becoming coarser towards depth	
100							
			Ft/Sh			109.15	
						Ft/Sh zone 115.95 Br mtrl., alt to Cy, spec H pres.	
						Komb. Sst m/MCo mod sil., Cy abund. in matrix	
						~127 - some Mn?	
			Ft			127.6	
						Ft zone : H, Py, Cpy, Cu min present in fract. Vuggy DQz	
						140.60	
150						Komb. sst m/MCo	
						156.10	
						156.10 - 158.95 Fold zone; 2 drag folds	
						1 FG - reversed + 30°	
						Komb Sst m/c	
						168.10 - 168.50 Crack with Py x-stalls	
200						200.14	
		70				200.14 - 202.75 Slt MCo/Co - Qz pebbles w/ Cy matrix (some mica) UNCONF. 207.41, 70°	
						MA + MB Qz S Fol 60-80° : local Cy alt. (mp matrix rich.)	
						207.41 - 216.85 Red zone	
						216.85 - 225.15 Green zone	

PROJECT EL 9354 ALGODO

HOLE NUMBER ALG003

DATE DRILLED 3-12/6/97

DEPTH	LITHOLOGY	S_0'S_1	STRUCTURE	ALTERATION (C H Si Ab – Ca)	MINERALS (Py Gn Gp Si)	DESCRIPTION OF MAIN GEOLOGICAL UNITS	MINERALISATION
					•225.30	Amphibolite 235.05 Carb veins (some Mn+S)	
250						Mod/ly foliagr. Bi (M) Qz S Mn+ Amph in beds Gt present 251.60 - 252.20 Parasitic folds - fold zone nearby? Qz + carb veins throughout	
					•264.25	Rock becoming more chloritic tow. EOH (Bx CS)	
						281.60	
300						EOH @ 281.60	

AFMECO MINING AND EXPLORATION - DIAMOND DRILLHOLE LOG

E.L. No: 9354 Anomaly: ALGODO Hole Number: ALG003 Logged By: GE

Easting: 290663 Northing: 8608135 R.L: 60 Dip: -70° Azimuth: 360°

Precollar: Total Depth: 281.6 Start Date: 3/6/97 Finish Date: 12/6/97

Driller: GADEN Rig: G20 Hole Size NQ Gamma log: AUSLOG, AE

Depth (m)	Core box #	S/S	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H L	Minerals Q Ca Tm	U Assay	Samp #	Comments
1		70		1	7F 60 Ro FeOx abund ↑ ↓	L PG				ALG 003/0	m sst s weathered
2				1							bleached
3	(1)			1							2.55
4		70		1	9F 20 Ro	VL GY					f to m sst mod weathered
5		60		1	4F 20 He						L spots
6		90		8	FeOx						some lam. 5.30 - 5.70
7				1							
8	(2)			20							7.85
9				1	5F 30-40	VL YG					m to c sst bleached
10				2	Ro FeOx						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** ALG 003 **Page#:** 2

Depth (m)	Core box #	S_0/S_1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H L	Minerals Q Ca Tm	U Assay	Samp #	Comments
11				12						ALG3 10	
12				4							
13	(3)	70		1							12.53
14		80		1		LR to					f sst patchy H-alt bleached
15		70		1		YG					
16				1							
17				1							16.40
18		70		1	3F 20 Hc	PG to					m to f grained strongly sil. sst Bleached
19	(4)			1	6F 70 Ro	YG					Spotty · Qz repl. fsp ? (by Cy?)
20		80		1		to VLGy					Patchy Fe-ox alt.
21				1						ALG3 20	
22				1							22.05
23		70		1	6F 20 Ro	LGy to					
24	(5)			1	12F 70 Ro	R to					
25				1		YG					

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** AL6003 **Page#:** 3

Depth (m)	Core box #	S_0/S_1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H L	Minerals Q Ca Tm	U Assay	Samp #	Comments
26				1							m sst s sil bleached
27				1							patchy H alt + veins
28				1							core greenish - w C alt?
29	(6)			1							
											29.40
30				1		GG					f to m s sil sst
31				1	1MF 70 Ro	to LR				AL63 30	bleached m H alt + w-m Cy alt;
32				1	13F 70 Hc	to YG					some C - focussed @ fract.
33		70		1	C/H						
34				1							
35	(7)	80		1							
36				1							
37				1							36.80
38		80		1	3F 20 RoL	YG					f to m s sil. sst bleached
39				1	9F 70 Ro	to LGG					w H/Cy alt - mainly along fract
40		80		1							Spotty-Qz repl fsp?

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** ALG003 **Page#:** 4

Depth (m)	Core box #	S_0/S_1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H L	Minerals Q Ca Tm	U Assay	Samp #	Comments
41				1						ALG340	
42	(8)			1							
43				24	8F 25 RO L	LYG					42.15 42.15-42.25 Br w Qz blebs & c Qz matrix
44				4							c sst, s. sil. - Brecciated bleached in places eg 44.70-44.90
45				30							
46	(9)			10							46.00
47		70		8	11 F 70-80 RO L	GG to YG					m/c sst, s sil -
48				6	4F 60 RO						alt mainly along bedding planes
49		85		16	1F 60 HeQz 2F 20 RoH	to GP					L in cracks & fissures
50				6		to LR					
51				8						ALG350	
52	(10)	70		4							bleached 52.00 - 54.10
53				10							
54				14							54.10
55				6							

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** AL6003 **Page#:** 5

Depth (m)	Core box #	S./S.	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
56		70		4	2F 30 Ro	PG					m/c sst s. sil bleached
57				6	15F 75 Ro	to LR					Halt pervasive mod.
58	(11)	70		2							banded in places
59				2							some old cracks - Hc Qz (irreg.)
60				2							
61				4						AL63 60	60.85
62				4	17F 70-80 Ro	VL Gy					m sst s sil banded w Fe Ox
63	(12)	80		2	4F 30-50 Ro Fe Ox	to LR					spotty - Qz repl. fsp?
64				6							
65		70		2							
66				4							
67		75		2							c sst band w large Qz clast Ø25mm
68	(13)			2							
69				2							c sst bands
											~~69.25~~
70		75		2							

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 003 **Page#:** 6

Depth (m)	Core box #	S_o/S_i	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H L	Minerals Q Ca Tm	U Assay	Samp #	Comments
71				2	11F 70 Ro	R to				ALG3 70	m/c sst, s sil. Alt banded Qz bands + some FeOx bands
72				2	L 6F 30-50	LR to					Qz/Fe vein Vuggy fract. (FeOx) L + w DQz
73	(14)	70		2	Ro L	GP					
74				1							
75				1							
76		70		2							
77				2							76.45 bleached
78				2	7F 70-80	vlGy					m/c sst, s sil.
79	(15)	70		4	5m/Ro Cy 30F 70-80	to PG					FeOx bands of alt.
80				2	Ro 8F 20-30						Bands of sil. w very c Qz grains
81				2	Ro L 12F 70 He					ALG3 80	Spotty - Qz repl. fsp?
82		70		4	H/FeOx/ FeOH						
83				4							
84	(16)			2							
85				4							bleached

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** ALG003 **Page#:** 7

Depth (m)	Core box #	S_0/S_1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H L	Minerals Q Ca Tm Mn	U Assay	Samp #	Comments
86				2							bleached
87				2							
88				2							
89	(17)			1							
90		70		6							bleached
91				2						ALG3 90	L along fractures
92				2							Qz vein @ 90.80
93		75		1							
94				4							
95	(18)			4							95.00
96				4	7F 60-80 Ro	l Gy to					m/c sst s. SL, dark bands of H alt
97		75		6	3F 30 Ro	vl Gy to					96.50-96.55 Massive Gy - Ft/Dol-intr? - Gy repl Plag phenocrysts?
98				4	2F 70 Sm Gy	PG					99.6-102 c to MCo sst
99				16							c bands w Qz
100				6				?		99.6-100 GRAB XRD, ME	99.6-100 darker sst impreg. of dark powdery. soothy min - Mn?

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** ALG 003 **Page#:** 8

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
101	(19)	70		4						ALG3 100	@ ~100m - possible Py in the cement + along fract.
102				10							(diss) 102.00
103				10	6F 70 RoCy	L R to PG					Mainly c sst. S. Sil
104		70		6	5F ~30 RoQz						102-102.10 Massive Cy - alt dol?
105				6	5F 70 Hc L						Cy repl plag(?) phenocrysts/60° ft
106	(20)			8							H along bedding (banded)
107		80		6							102.10 - 105.05 } C/MCo sst 108 - 109
108				4							
109				4							109.15
110				1		Y					Ft/Sh zone - some intact c sst b/w highly alt mtrl.
111				1		to R				ALG3 110	Brecciated mtrl
112	(21)			1		to Gy					Ft zone completely alt to Cy's; FeOx/FeOH/I/L/K .?
113				1							slightly magnetic throughout
114				1							→ Spec. H present along fissures
115				1							115-117 Ft mtrl interbedded with c sst.

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG Hole #: ALG003 Page#: 9

Depth (m)	Core box #	So/S1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
116				1							115.95
117	(22)			4	2F70SmH 8F 40-50 RoCy	LR to YG					C SST with Cy-matrix
118		70		1							H-rock 117.65
119		70		1	12F70Sm H	Bn to R					Slt 117.74 - 117.98 Ft/Sh ~60° 118.94 (Cy/H/C)
120				16	8F 10-40	BG to					m/MCo SST, S Sil.
121	(23)			8	He DQz 6F 50-60	YG to				ALG3 120	abund large clasts of Qz Ø10-20 mm (MCo-Co)
122		80		2	Sm Cy 7F 80 Ro	LGy					Matrix alt to Cy. Weak zones more clays. (ie less Sil. zones)
123				6							H alt banded when present
124				4							sst w-rotten - S Cy-alt Y to G in colour
125				8							K present along fissures sometimes DQz - " -
126		80		8							
127	(24)			10							Dark patchy stains Mn?
128				4							127.6
129				2	Mass. fract.						Ft zone f/m SST S Sil
130				1							Sil partly patchy - injected?

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** ALG003 **Page#:** 10

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
131				1	17F 0-40	GG to				ALG3 130	Halt banded · along fract.
132				1	Hc DQz/H 7F 0-40	LGy to					H, Bornite, Py, Cpy, Cu-min along fractures
133	(25)	75		2	RD DQz/H/ L/Gy	YG to					Rock typically vuggy with DQz
134				2	22F 75 Ro/Sm Cy	LR					133-137 S Cy alt - white to purple to green (K, I, L)
135				1							+ $Cu_2(OH)_2$(?)
136		75		2							abund. Qz-veins (thin) (accross So/Si)
137				2							possibly post-H & Cy which is along bedding
138	(26)			4							
139				4							
140				2							
141		75		2						ALG3 140	140.6
142				4							f/m SSt
143		60		6							L/I alt (m)
144	(27)	65		4							
145				4							C/MCO SSt - Br, contact ~60°

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 003 **Page#:** 11

Depth (m)	Core box #	S°/S₁	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
146				8	10Ft 40-60						f sst s sil becoming more c grained & less sil with
147		60		8	5m Cy						ft · almost 0° · hydraulic? depth
148				6	8F 60 VDQ						Y clays abund. - L/1 ? · commonly repl. matrix in sst throughout
149	(28)			6							H along bedding
150		60		4							Y Cy's dominant in ft's.
151				24						AL63 150	Qz · veins abund. DQz in fissures & cracks
152				10							Ft
153		70		10							
154	(29)			4							→ Qz vein (20°) w Cy.
155				16							Ft
156		65		16							c/MCo sst ; 155 6 - 156 - Co. 156.10
157				6	2 Dragfolds						Fold zone Dragfold c/MCo sst · Cy development
158		60		1	1 Ft SS C						Dragfold S-shaped w ft through - SS ~30° pos. reversed
159	(30)			20							Br 158.95
160		70		2							

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** ALG 003 **Page#:** 12

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration (C M I K Cy Si H L)	Minerals (Q Ca Tm)	U Assay	Samp #	Comments
161				1	8F 40-60	Y to				ALG3 160	bleached f sst, s. sil
162				2	Ro/V DQz	LR to					
163		70		4	6F 60 Sm	Gy to					s H-zone; banded, L in the mid-section
164	(31)			2	Cy	vlGy (bleached)					m/c sst interbedded with f/m sst qz-banded
165		70		2							
166				2							
167		60		4							
168				4							168.10 - 168.50 0-5° crack
169				2							with abund. Py- xtalls bleached
170	(32)	60		2							s H-banded m/c sst 169.75
171				2	9F 50-80 Sm Cy/k	P to				ALG3 170	f/m sst, m sil. → ft 2 cm displaced
172		55		1		vlGy to					Cy along fract. 1/L/K
173				1		l GG					bleached
174		70		4							173.6
175				2							

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** AL6003 **Page#:** 13

Depth (m)	Core box #	So/S1	Geol	Max Gsize	Fractures	Colour	Alteration (C M I K Cy Si H)	Minerals (Q Ca Tm)	U Assay	Samp #	Comments
176	(33)			2	9F 70 Sm Cy	YG to					c/ MCo SSt, m sil
177				1		GG to					Cy becoming more C-rich
178		70		1		LGy					174.20 } ft's Cu ~30° Cy (C,K) 182.20 }
179				2	6F 15° Cy VQz	H					some poss. slt
180				4	3F 30° Cy						
181	(34)	65		6	5F 30° Cy					AL63 180	~179.45 Vuggy with DQz
182				1	3F 30° Cy						Hematitic sections 179-181, 183-184, 185 50-188 40 (with punt spots)
183				6	3F 10° H						Bleached sections b/w the hematitic ones.
184		70		4							esp.: 181.6-182.2, 184.2-186.6
185				2	1F 20 Cy						
186	(35)			2	4F 30° Cy						
187				1	1F 20° Cy H						
188		70		1	6F 25 Cy H						
189				1	5F 65 Sm Cy	L Gy					188 40 m SSt
190		65		2	2F 30 Ro/Sm /Cy	to GG					H in beds layering, thin bands of greenish slt. Cy in fract. rock commonly spotty - Greenish spots.

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG003 **Page#:** 14

Depth (m)	Core box #	So/Ss	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
191				2	5F 20 H Cy					ALG3 190	190.95
192				2	9F 60-80 Sm Cy	Gy to					Hematitic C/MCo SST
193	(36)			2	3F ~70 Cu Cy	GG to					some irreg veins/He fract with Cy minor Vuggy parts w. DQz
194				1	2F ~30 Sm Cy	PG					L Gn Cy in fract. (yellowish)
195				2	2F 35 H						
196				2	7F 35 H Cy						
197	(37)			2	5F 25 H Cy					196.60-197.00 GRAB	
198				2	3F 40 H Cy						197.3-197.65 - ~~Montmorillonitic~~ Clay alt
199				2	3F 25 H Cy						198.20-198.45 Slt/ft → Cy 198.85-199 - Slt/ft → Cy broken
200				2	Highly broken H Cy						199.0-200.14 - Bleached & Slt. 200.14
201				2	Highly broken H Cy	Bn to				ALG3 200	Slt - hematitic very broken layers of Cy
202	(38)	~90		2	Highly broken H Cy	RBn			Cy-rich		shallow bedding, some graded bedding Mu abund.
203				10		Gn layers					202.75
204				10	8F 60-70 Sm Cy	LR to					MCo/Co SSt. spec. H @ 203.40 202.75-203.20 Ft 80° ft along the core -20 - +20°.
205		40		6	5F 80 H	Gy					bedding traces step ~ 40°

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: AL6003 **Page#:** 15

Depth (m)	Core box #	S_0/S_1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm GT	U Assay	Samp #	Comments
206				12						205.80 – 206.20	large clasts of Qz Co hematitic in places → Bedding back to normal
207		75		38						GRAB	Cy in matrix - Kaolinitic Some silt interbedded w. Co. som mica present tow. UNC.
208	(39)				Highly broken A						207.41 - Unconformity - sharp 70° "Red zone" Palaeoweathering
209		60			6F 60-70 Sm Cy						Meta arkose & schist (schist dominant) MA 207.41 - 209.20
210					1F 20 Sm K						schist mainly white mica + Bc + Qz Fol 60°-80°
211					6F 50 60 Sm K/H						schist "banded" when mica is compressed b/w Qz-rich parts
212											
213											→ GT altered large clasts of Qz
214	(40)	Fol. 70									→ GT altered
215											
216											
217											216.85
218	(41)					Gn to GG					'Green zone' Palaeoweathering Schist + MA 216.85 - 220.50
219		Fol. 65									218-218.20 Montmorillonitic MA. schist more Ms rich MBiS & less qz than above
220											

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG003 **Page#:** 16

Depth (m)	Core box #	S_0/S_1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
221		60			4F 40-60 Sm Montm.						220.50-223 Amphibolite + MA Carb. veins common within Amph.
222					8F 60 Sm mica						
223											222.50-222.80 Montmorillonitic MA
224	(42)										222.80-225.15 MA - some carb veins
225											225.15
226		70			10F 60-70	Gn to					225.20-225.35 Fe Hc Py (amorph)
227					Sm/Ro Montm.	GG					Amphibolite abund. carb veins (thin)
228					4F 50-60 Ro						(QMuBiS)
229											227.10-231.35 MA & Schist in the amph. bands of MS chl schist
230	(43)	55			Broken rock					229.80 GRAB XRD	229.60-229.85 MA - Montmorillonitic MA finegrained
231											
232											
233											233.20-233.30 1-3 cm. thick vein with carb. + black c. - post-dating the thinner carb. veins
234											
235	(44)										235.05

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** AL6003 **Page#:** 17

Depth (m)	Core box #	S_0/S_1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm GT	U Assay	Samp #	Comments Anegracned
236					~60-70 F ~60° 5m C/Mu	m Gn to d Gn					Mainly Bi Mu S till EOH. Ampli + MA beds in b/w.
237					7F ~ 20-40 5m C/carb						235.70 - 237.18 MA
238		Fol 60									zones of largegrowing Mu in schist 237.18 - 241.20 BiMuS with
239											5-15 cm thick beds of MA Gt abund within schist (small)
240	(45)										Carb veins abund. within Amph
241											
242											241.20 - 252.60 BiMuS with bands (cm - dm) of Amph & MA
243											242.65 - 242.75 Qz · some qz veins in schist - predating & ampli. carb. veins
244											
245	(46)										
246											
247											
248											
249											
250											

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: AL6003 Page#: 18

Depth (m)	Core box #	So/S1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
251	(47)										
252		0-40									251.60 - 252.20 - Parasitic folds. in the proximity of fold / ft ?
253											252.20 - 263.85 BiQzS very finegrained & very dark
254											both carb & qz veins. qz veins generally wider
255										254.10 - 254.20 - 254.60	TS (0.5 - 2cm) than the carb (0.5 - 2mm) veins.
256	(48)									GRAB	
257											
258											
259											
260											
261											
262	(49)										
263											263.85 - 264.35 strong fol. ~50° proximity to fold?
264		50/50									264.23 - Fract. with some Py.
265											264.35 - 266.30 Schist more Qz-rich - QzBiS

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #: ALG003 Page#: 19**

Depth (m)	Core box #	S_0/S_1	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm GT	U Assay	Samp #	Comments
266	(50)										
267											266 30 271 Biotitic schist again - some chlorite present
268											GT present. C seems as 'lumps' within rock
269		70									271 - EOH Bi Qz MS - Gt abund.
270											large qz lumps + veins w. qz, C & carb.
271	(51)										Rock becoming more chloritic towards
272											EOH. + less qz. + less GT ~275 - EOH Bi CS.
273		60									Larger Mu x-stalls in bands- close to fractures
274											bands of clay - Montm + C /5m? 7-10 cm.
275											
276											
277		60									
278	(52)										Rock rel. broken
279											
280											EOH 281.60.

(53) 280.50

PROJECT E.L. 2517 ALGODO

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HOLE NUMBER ALG 004

DATE DRILLED June 13 - June 20th, 1997

DEPTH m	LITHOLOGY	So S1	STRUCTURE	ALTERATION (C H Si Ab I Ca Bleached Limonite)	MINERALS (Py Gn Gp Si Ca)	DESCRIPTION OF MAIN GEOLOGICAL UNITS	MINERALISATION
50		90				0-174.45 KOMBOLGIE SST Fine to med. grained sandstone, getting coarse to conglomeratic towards the unconformity. A 2m sandy siltstone occurs just above the basal conglomerate. Mostly fresh that below is locally silicified and vuggy with dravite Q3 - Py - Ca cy	
100		85	BR			155.2 - 110.3 Bleached - silicified, bed Per bed DQ3, vuggy in Sp, Q3 veins.	
		85	BR			113.3 - 113.75 BR 30° tca, DQ3 + Green clay	
150		90	BR			143.6 - 144.3 BR 30° tca, Green clay	
			BR			151.2 - 151.85 Breccia, hydraulic? Q3, Ca - K, green clay - Py	
			BR			155.5 - 158.70 Breccia, hydraulic? Q3, Ca - Py	
						164 - 164.4 " " " " @ 30° tca 165.5	
						171.55 Ra - 125 Fs SPP2	
						Unconformity 174.45m	
200		60				174.45 - 299.6m NOURLANGIE Schist Biotite - muscovite schist with garnets, well foliated, fresh below a weakly hematized 6m zone under the unconformity. Pyrite occurs either in foliation or as fracture coatings, seldom as a replacement of garnets (.273 m area).	
		80					
		80	BR				
		70	BR				

QUEENSLAND MINES LTD

PROJECT EL 2517 _ ALGODO

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HOLE NUMBER ALG 004

DATE DRILLED

DEPTH m	LITHOLOGY	S_0/S_1	STRUCTURE	ALTERATION (C, H, Si, Ab, —, Ca, Bleached, Limonite)	MINERALS (Py, Gn, Gp, Si, Sl)	DESCRIPTION OF MAIN GEOLOGICAL UNITS	MINERALISATION
250		80	BR			239.6 - 250.8m Feldspathic quartzite, massive (Flds: Qz - bio) some muscovitic, narrow bands of schist throughout.	
		80	BR			268.75-269.25m Reverse Fault 35° Tca Pyrite/graphite	
			BR			273m Zone of replacement of garnets by Py	
		85	BR			295.4m 10cm Reverse Fault @ 40° Tca Pyrite/graphite	
300						EOH 299.6 m	

QUEENSLAND MINES LTD

AFMECO MINING AND EXPLORATION - DIAMOND DRILLHOLE LOG

E.L. No: 2517 | Anomaly: ALGODO | Hole Number: ALG 004 | Logged By: DA. FB.

Easting: 289899 | Northing: 8611077 | R.L: 220 | Dip: 80 | Azimuth: 270

Precollar: | Total Depth: 299.6 | Start Date: June 13th 1997. | Finish Date: June 20th 1997.

Driller: | Rig: LF-70 | Hole Size NQ | Gamma log: Auslog.

Depth (m)	Core box #		Geol	Max Gsize	Fractures	Colour	Alteration C L M I K Cy Si H Si	Minerals Q Ca Tm	U Assay	Samp #	Comments
1				1	0					ALG004 6-10m	
2				1	1 He/30°					composite	
3		90		1	0						2% stylolite, K.
4	1			1	0						-3.5% stylolit. K
5				2	0						
6	—			1	0						
7				2	1/60°/He						
8	2			1	1/60/He/Q						
9				1	0						
10				1	3/20/He/Q						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** ALG 004 **Page#:** 2 of 21

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
11				1	0					ALG004 10-20m	
12				1	0	↑				composite	
13				1	1/25°/Hc/L						
14	3			4	1/35°/Hc/						
15				6	0	Pk					
16		80		10	0	Pink					
17				6	0	Brownish red					
18				4	1/0/Ca/Hc/Qz						
19	4			4	0						
20				4	0						
21				12	0					ALG004 20-30m	
22				12	0					composite	
23				16	0						
24	5			22	0						
25				36							

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 004 **Page#:** 3 of 21

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
26				18	o						
27	5			10	o						
28	—			20	o						
29				18	o						
30	6			16	o						
31				10	o					ALG004 30-40m	
32				10	o					composite	
33				12	o						
34				20	o						-84 stylolite 85°
35				18	o						
36	7			10	1/45°/Ho						
37				10	〃						
38				24	o						
39	—			8	o						
40	8			8	1/80°/Ho						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 004 **Page#:** 4 of 21

Depth (m)	Core box #	S0/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
41		90°		6	2/60/He					ALG004 40-50m	
42	8			8	0/					composite	
43				10	1/60/He/O3						
44				4	1/80/He/2						
45				4	1/75°/He/3						
46				8	1/75/He/O3						
47	9			4	1/30/He/O3 1/60/He/O3						
48				6	0						
49		80		12	0						
50				32	0						
51				8	1/0/Cu/Dx3					ALG004 50-60m composite	
52	10			4	0						
53				1	0						
54				4	0						
55				2	0						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 004 **Page#:** 5 of 21

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C L I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
56				2	1/30/Hm/0.						
57				4	∅						
58	11			2	3/1/Hm/Hc/Qz 3/2/Hm/Hc/Qz	dull brown					
59				2	0						
60				2	0	dull					
61				2	1/75/Hc/					ALG004 60-70m	
62		SO		2	0	Reddish				composite	
63	12			2	0						
64				2	0						
65				4	0						
66				4	1/70/Hm/Qz						
67				6	1/80/Hm/Qz						
68	13			6	2/30/Hm/Qz						
69				6	0						
76				8	0						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 004 **Page#:** 6 of 21

Depth (m)	Core box #	SG/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
71	13			4	0					ALG004 70-80m	
72				8	0					composite	
73				10	0						
74	14			10	0						
75				14	0						
76				20	0						
77				10	0	Brownish					
78				6	1/0/Hb/DG3	Brownish					
79				10	1/0/Hb/DG3	Brownish					
80	15			10	0	Brownish					
81				8	1/5/Hb/Qz	Yellowish				ALG004 80-90m composite	
82				24	1/45/Hb/DG3	Yellowish					
83				20	3/ 1/25/Hb/DG3 1/35/Hb/DG3 1/45/Cy	Yellowish					
84	16	85°		14	0						
85				10	1/0/Hb/Qz						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 004 **Page#:** 7 of 21

Depth (m)	Core box #	So/Sl	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
86	16			2	2/30/Hp/DG 1/0/40/DG 1/45/Cy/K						
87				4	1/0/He/DG/K						
88				8	4/0/He/DG 1/45/						
89		85		10	0						- Schiste 5cm beige
90	17			8	1/30/Cy						
91				8	1/30/He/Cy					ALG004 90-100m	
92				4	0	Brownish grey				Composite	
93				12	1/30/He						
94				4	2/40/He						
95				12	0						
96	18			4	1/0/He/DG/Bry/Cy 2 1/30/DG3						95.2 - 110.3 Bleached silicified, bed for bed DG in beds, vuggy in SO
97				4	0						
98				4	2/30/He/O3	Light pink					
99				2	0						
100	19			2	0	White to light pink					

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG 004 **Page#:** 8 of 21

Depth (m)	Core box #	So/Sl	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
101				2	2/30°/He/a;					ALG004 100-110m	100.1 Qz vein @ 45°
102	19			4	0					Composite	
103				2	3?/30°/He/Qz wispy						-102.10 – 102.35 Brecciated, DQz, K
104				2	3 2/30°/He/DQz 1/40°/He/DQz						
105	—			2	5/ Brecciated 0-30-90° DQz/K/wispy						
106				2	2 1/60/He/Qz 1/45/He/K						
107	20			4	0						
108				4	2 1/30 1/0 }He/Sl						
109				2	0 DQz in bedding						
110	—			4	0 DQz in bedding/K?						
111				6	1/30°/Qz ∥/Bx					ALG004 110-120m	-110.5 Breccia 90°- 5cm
112	21			15	3 1/45 1/30 1/0 }He/K					Composite	
113				30	0						
114				18	Brx 30° - 35°						-113.3 - 113.75 Breccia 30°, DQz + Qz vein ∥
115				16	1/35/cy-H						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** ALG 004 **Page#:** 9 of 21

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
116		85		16	0						
117				10	0						
118	22			15	0						
119				12	1/30°/Bry						
120				12	1/30°/DOC vuggy						
121				18	Brx/40° cly					ALG004 120-130m	120.5 Br, 5— @ 40°; Composite
122				12	0						
123				20	1/40°/K						
124	23			16	2/30/Bx/cl						
125				22	0						
126		85		10	0						125 5 siltstone 5 cm
127				16	1/45°/						
128				10	0						
129	24			6	1/15/cly						
130				14	2/40°/						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 004 **Page#:** 10 of 21

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration (C, M, I, K, Cy, Si, H, Sp)	Minerals (Q, Ca, Tm)	U Assay	Samp #	Comments
131	24			6	0	Brownish				ALG004 130-140m	
132				14	0					Composite	
133				10	0	Yellowish w/ Brownish					
134				14	0						
135	25	85		18	0						135 sulfate 85°; 5 mm
136				6	0						
137				12	0	A					
138				8	0	Yellowish					
139				25	0						
140	26			10	Box/DQ3/K 2/40/DQ3						
141				10	2/30/DQ3/K Mu?					ALG004 140-150m	
142				35	0	Brown				composite	
143				2	2/30/He/CBX						
144				2	Bry						143.6-144.30 Br @ ≈ 0-30° clay/ green and yellowish
145	27			2	1/50/He						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 004 **Page#:** 11 of 21

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H Sil	Minerals Q Ca Tm Py	U Assay	Samp #	Comments
146	27			4	1/30/Py						
147		90		2	0						
148				2	2/30/0/Py/dd/green clay						
149	—			2	3 1/0/DQ3/Py/green clay 2/40/DQ3/Py/Ca						
150				4	2/0/Ca/green Clay					▼	
151				2	4 3/30/Py/Q3 1/45 clay					ALG004 150-160m	
152	28			2	BR	Khaki				comp.	151.2-151.85 Breccia, Hyd? Q3-Ca. K green clay - Py
153		90		1	1/30°/Ho/green clay Q3	Red					
154				1	0						
155	—			4	2/30/Py Q3						155.5-155.70m Breccia hydraulic? Q3-Ca. Py
156				1	2/30/Py Qz						
157	29			1	0						
158				1	2/30/green clay Qz						
159				1	1/0°/green clay	▼					
160				1	1/0/green clay	↑				▼	

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG004 — **Page#:** 12 of 21

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
161				1	2 1/0/ca/c					ALG004 160-170m	
162				4	0					composite	
163	30			1	2 1/30 } clay/ 1/50 }						
164				1		brecciated				Grab ALG4	-163.15-163.45 Breccia gouge, fault wall and hanging wall @ 90°
165				1	Brx, Qz-Ca-Py sst-defined					164 (164.0-164.4m)	-164-164.4 hyd Brx, with Qz Ca Py + Cy at hanging wall
166				18	1/40° Brx. Qz-Ca. Py	Brecciated					30° foot wall 45° -164.6-165 Brecciated siltstone @ 45°
167		90°		12	2/30°/Qz-Ca-Py						-165.5, 5cm Brx, Qz-Ca-Py-Cy
168				10	rubble						-166.9-167.5m Siltstone, fractured, rubble
169	31			6	0						-168.7-171.4 Siltstone greenish to brownish red
170				1	0	Red Brn + Green					
171				1	2/30°/Cy	Sl Kgreen				grab	-171.55 125 c/s SPP2
172	32			36	0	Pale Kgrn to				ALG4 171.5	
173				21	1/0°/the/ green clay	red/brn				(171.5-171.9m)	
174				40	0					Grab ALG4 174 (174.0-174.4m)	
175				110						(174.0-	-174.45 Unconformity @ 90°
					0					-	

ALG004 170-174.45m composite

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 004 **Page#:** 13 of 21

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
176	—				0						174.45-299.6 Nourlangie Schist
177					1/45°/Hc						Biotite muscovite garnets hematized fract then chlorite
178	33	60°			0						-174.44-175. hematized garnets
179					0						
180					0						
181					0						
182					0						
183					1/45°/H						
184	34				1/60/Mix						
185											
186					3 70/40/30 cy						
187	—	55°			1/50°/cy						- 185.6 - 186.m carbonate and alt, wk hem. and chl
188		60°			1/10/c						-186.5 - 186.7 idem
189	35				0						
190					0						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG **Hole #:** ALG 004 **Page#:** 14 of 21

Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
191	35				0						
192					0						
193					0						
194					0						
195	36				1/45°/Ro						
196					1/80°/Musc						
197					0						
198	—				0						
199		80°			2/45/Ro/Oj						
200	37				0						199.8-200.1 Melanarkose wk. Milged with Q vein // to foliation
201					4/30-60°/Si/C						200.3-201.2 idem
202					1/30/Ro						
203	—				0						
204	38				1/40/C						
205					2/40 30°/C/Oj						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG — **Hole #:** ALG 004 **Page#:** 15 of 21

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm Py	U Assay	Samp #	Comments
206	38				1/30/R						
207		80			1 Br BB Cy						
208					1/30/Rust						
209	—				0						
210		80			Rubble						209–210.6 Brecciated zone, Mod chlorite (garnets) muscovite rich.
211	39				Rubble						
212					1/40/Ro						
213					1/45/Py						
214	—				0						
215					0						
216					1/55/B3/Bo						
217	40				1/0/B3						
218					0						
219					0						
220	— 41				2/40/Ro						

AFMECO MINING AND EXPLORATION DIAMOND DRILLHOLE LOG

Hole #: ALG004 **Page#:** 16 of 21

Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm	U Assay	Samp #	Comments
221					6/30-40°C/qt						
222		90°			1/60°/Pl-C						
223	41				1/30°/Sm R						
224					4/30°/Sm						
225					1/30/Ro						
226					1/40°						
227					2/40°/Sm Pl						
228	42				0						
229					1/30/Sm						
230					0						
231					1/0/Pl						
232	43	80°			0						
233					0						
234					1/60/Cb						
235					0						

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Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm Py	U Assay	Samp #	Comments
236					1 Br/Cy						236 - 238.10 m Pyrite disseminated in Feldspathic quartzite 1%
237	44				0						
238					0						
239					2/Br/Cy						
240		85			0						239 - 244.6 feldspathic quartzite (felds-Q-bio) massive
241					2/30/Py/R1						some massive with foliation with narrow bands of schist
242					6/30/Q3/mu						throughout.
243					4/30/Q3/Cu						
244	45				1/30/Py						
245					0						
246					1/30/93.C						
247					1/90/Calc						
248					0						
249	46				1/30/Py						
250					0						248.6 - 250.50 - Feldspathic Quartzite very fine grained, small garnet (rare)

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Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm Py	U Assay	Samp #	Comments
251	46				1/30/0						some muscovite, with narrow zone of biotite muscovite schist
252					1/30/Py · C · Q						
253					0						
254	47				0						
255					0						
256					0						
257					0						
258					0						
259					1/30/Q Py						
260	48				Rubble						
261					0						259.60 - 260.1 Breccia, Q Py
262					1/30/Py/S						Upper contact 35° to 90°
263					0			1			
264					0						
265	49										

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Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm Py	U Assay	Samp #	Comments
266					4/30-40°/Py/Qz						265.26-78 Foliated to Brecciated with narrow bands of bio-mus schist
267	49				1/30/Qz/Py						
268					1/30/Q/Py						
269					30° Breccia Py/Gr						268.75-269.25 Reverse fault with Py-graphite @ 30-35° TCA
270					0						
271	50				0						
272					0						
273					1/20/Py						273m - 3cm of replacement of groundmass by pyrite
274					2/20/cy						
275					2/30/Qzcy						
276	51				0						
277					1/30/Q-Py						
278					0						
279					0						
280	52				2/20-40/Qz						

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Depth (m)	Core box #	SO/SI	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm #	U Assay	Samp #	Comments
281					1 Brx						280- 1cm flat Paying fault gouge
282					2/45/20/Py						
283	52				0						
284		85°			2/70/80/Py						
285					0						
286					0						
287	53				2/20/cpy						
288					3/20/Py						
289					0						
290					0						
291					2/45/Qz						
292					2/30/Qz						
293	54				1/0/Py Qz						
294					1/40/Py						
295					0						

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Depth (m)	Core box #	So/Si	Geol	Max Gsize	Fractures	Colour	Alteration C M I K Cy Si H	Minerals Q Ca Tm Py	U Assay	Samp #	Comments
296					1/40 Py/Gr?						295.4 - 10cm recrystallized fault @ 40 with pyrite-graphite
297					1/40°						
298	55				2/40/Py						
299					0						
300					0						299.6 EOH