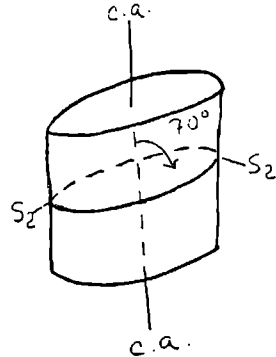


CYPRUS ANVIL MINING CORPORATIONDIAMOND DRILL CORE LOGHole Number: 77 LA-2

Fabric Orientation Diagram:

Project: Lower Anvil Joint VentureLocation: Lower Anvil CreekClaim: Aro 24Terr. Plane
Co-ords.: _____ N

_____ E

Grid
Co-ords.: L48W, 57+50N

All symmetry determinations looking

NW with S₂ dippingSW with dip azimuth _____.Elevation: Approx. 2,900'Total Depth: 337.11 MPurpose: To test Gravity and Turam Anomalies.Logged by: G. D. HouseDate(s) Logged: 11, 12, 13 September, 1977

Drilling

Contractor: Arctic Diamond Drilling Core: Size From To Collar Cased
and Capped: YesBQ 95.1 M 337.11 MStarted: 26/08/77Completed: 12/09/77

Core	From	To	Unit	Code	Description
1	10	14 16 20	22 23 25 27		
L	10 0	19 5 1	1	1 #1	Overburden and casing. Bedrock from 80.8 M - cased to 95.1 M.
L	19 5 1	19 7 0	2	1C7	Contorted S ₂ , broken ground, staurolite.
L	19 7 0	10 0 1	3	1C7	Knots garnets, light brown.
L	10 0 1	10 3 3	4	1C7	Garnets.
L	10 3 3	10 4 0	5	0Q0	Muscovite, pyrite in quartz vein, 75° to core axis.
L	10 4 0	10 6 5	6	1C8	Mixed 1C1, S ₂ at 0-5°, broken ground.
L	10 6 5	11 0 9	7	1C7	Contorted S ₂ .
L	11 0 9	11 1 5	8	1C1	Quartz-feldspar-muscovite-garnet "quartzite".
L	11 1 5	11 6 0	9	1C7	
L	11 6 0	11 6 4	10		Quartz vein, 80°, garnets.
L	11 6 4	13 2 0	11	1C7	Garnets.
L	13 2 0	13 5 4	12	1C8	Fine-grained, chloritic, garnets in veins.
L	13 5 4	14 2 0	13	1C7	Lost core 136.3-136.6. Contorted S ₂ , biotite knots, pyrite associated S ₂ planars from 137 M.
L	14 2 0	14 4 0	14	1C8	Contorted S ₂ .
L	14 4 0	14 8 1	15	1C7	Pyrite on S ₂ planars, garnets, chlorite.
L	14 8 1	14 8 9	16	1C1	Quartz-feldspar-muscovite "quartzite", altered.
L	14 8 9	15 1 7	17	1C7	Minor quartz planars to S ₂ .
L	15 1 7	15 5 0	18	1C7	Contorted S ₂ , minor bands to 0.2 M 1C8.
L	15 5 0	16 0 7	19	1C7	Much decreased staurolite, minor garnets.
L	16 0 7	16 4 0	20	1C8	Mixed chlorite and biotite schist.
L	16 4 0	16 7 4	21	1C7	Minor garnets.
L	16 7 4	16 7 6	22	0Q0	Quartz vein.
L	16 7 6	17 6 4	23	1C7	Contorted S ₂ , pyritic.
L	17 6 4	17 8 8	24	1C7	Altered, chloritic sericitic, gougey? Quartz-muscovite vein 179.4-179.7 M.
L	17 8 8	18 5 0	25	1C7	Contorted S ₂ .
L	18 5 0	18 6 0	26	1C7	To 1C8 in parts, associated quartz veining, altered, chloritic, pyrite.
L	18 6 0	18 8 0	27	1C7	Quartz veining part S ₂ , pyrite, chlorite.
L	18 8 0	19 9 0	28	1C7	Pyritic, minor quartz veins cross-cutting S ₂ planes, chloritic 195-196 M.
L	19 9 0	20 0 0	29	0E8	Hornblende-quartz-feldspar intrusive, dyke, fault bounded.

Lithologic Log

Code	From			To			Unit	Code	Description
	10	14	16	20	22	23			
L	121010	0	121011	1	310	11C18			Sheared, broken ground to 200.2, siliceous and chloritic, pyrite.
L	121011	1	121016	4	311	11C17			Increased biotite-muscovite, pyritic, siliceous.
L	121016	4	121018	2	312	11C18			1.1 M recovery, lost core. Chloritic alteration, broken ground, FAULT.
L	121018	2	121019	2	313	11C11			Very pyritic, BROKEN GROUND, FAULT GOUGE AND ALTERATION.
L	121019	2	121100	3	314	11C17			Pyritic, ALTERED, GOUGE, VERY BROKEN, FAULT ZONE.
L	121100		121111	5	315	11C17			LOST CORE, NO RECOVERY.
L	121111	5	121113	6	316	11C18			Slightly pyritic, broken ground.
L	121113	6	121114	3	317	11C18			Gougey, altered, pyritic.
L	121114	3	121116	2	318	11C18			Less gougey, pyritic.
L	121116	2	121117	0	319	11C18			Pyritic, GOUGE.
L	121117	0	121119	5	410	11C18			More solid, quartz veined.
L	121119	5	121213	0	411	11C17			Pyritic, altered, chloritic, healed shear zone?
L	121213	0	121215	7	412	11E2			Muddy gouge at 223.7 M, very pyritic.
L	121215	7	121313	2	413	11C17			Very pyritic.
L	121313	2	121313	8	414	11C18			Fine grained, chloritic (alteration around dyke?).
L	121313	8	121316	8	415	01D18			LOST CORE. 0.2 M recovered, very fine grained, pink garnets.
L	121316	8	121318	0	416	01D18			LOST CORE, GROUND, BROKEN GROUND, PEBBLES 10D. 0.8 M recovered.
L	121318	0	121318	5	417	11C17			0.2 M recovery, LOST CORE, BROKEN, RUST, FAULT ZONE.
L	121318	5	121403	3	418	11C15			Coarser S ₂ layering, banding, increased quartz-feldspar.
L	121403		121412	3	419	11C18			FAULT ZONE, QUARTZ-FELDSPAR-CHLORITE VEINED, FILLED.
L	121412	3	121413	5	501	11C17			BROKEN GROUND.
L	121413	5	121416	0	511	11C17			Healed shear zones - quartz filled, 25° to core axis at 244.6, 244.5, 246.0 M.
L	121416	0	121417	9	512	11C17			
L	121417	9	121418	2	513	11C18			Quartz-feldspar-muscovite-garnet-chlorite shear 65°.
L	121418	2	121512	2	514	11C17			Contorted S ₂ .
L	121512	2	121512	4	515	11C18			Garnet-chlorite-muscovite filled fracture.
L	121512	4	121513	5	516	11C17			Very contorted kinked S ₂ .
L	121513	5	121515	0	517	11C17			Siliceous, quartz-filled veins, shears, at high angles.
L	121515	0	121515	4	518	11C17			Increased staurolite.
L	121515	4	121516	2	519	11C17			Ptygmagtic veining.

Lithologic Log

Code	From	To	Unit	Code	Description	
1	10	14 16	20	22 23 25 27		
L	2,5,6	2,5,7	4	6,10	1,C,7	Large porphyritic garnets, late, cross-cut S ₂ .
L	2,5,7	2,5,9	5	6,11	1,C,7	Chloritic garnets, contorted S ₂ .
L	2,5,9	2,5,9	7	6,2	0,C,0	Biotite-rich quartz-feldspar vein, shear.
L	2,5,9	2,6,1	2	6,3	1,C,7	Altered, siliceous, very contorted S ₂ .
L	2,6,1	2,6,1	4	6,4	1,C,7	Biotitic, contorted around quartz-feldspar vein.
L	2,6,1	2,6,7	5	6,5	1,C,7	Contorted S ₂ , late kink folds, increased disseminated garnet.
L	2,6,7	2,7,0	6	6,6	1,C,7	S ₂ at low angles, also quartz-feldspar veins, healed fault/shear zone.
L	2,7,0	2,7,5	4	6,7	1,C,7	Altered, increased staurolite and garnet, quartz-feldspar veins and healed shears.
L	2,7,5	2,8,5	8	6,8	1,B,5	Calcareous, 1C3, margin to 1G5. TACTITE.
		2,7,5	6	6,9	1,C,4	1C3 garnets.
		2,7,6	0	7,0	1,B,3	Bands pink-brown garnets, silicated marble, calcareous.
		2,7,6	4	7,1	1,B,5	Bands biotite-garnet-marble, calcareous.
		2,7,6	8	7,2	1,B,3	Large pink garnets in marble.
		2,7,8	9	7,3	1,B,5	Bands biotite-garnet-marble, S ₂ layers.
		2,7,9	3	7,4	1,C,3	Staurolite and garnets, soft altered.
		2,7,9	9	7,5	1,B,0	Contorted S ₂ layers/bands garnet-marble-biotite-chlorite.
		2,8,0	5	7,6	1,B,5	Calc-silicate S ₂ layers parallel to core axis, slightly contorted.
		2,8,1	5	7,7	1,B,5	Biotite-calc-silicate-garnet narrow S ₂ layers.
		2,8,5	0	7,8	1,C,3	Staurolite, garnet, calcareous.
		2,8,5	8	7,9	1,C,3	0.2 M recovered, LOST CORE, GOUGE, BRECCIA.
L	2,8,5	2,8,7	4	8,0	1,C,3	BRECCIA, LOST CORE, FAULT ZONE; BRECCIA. 1C3.
L	2,8,7	2,8,8	2	8,1	1,C,3	Garnets, staurolite, shears at 35-45°, gougey.
L	2,8,8	2,9,0	4	8,2	1,C,7	Contorted, garnets, slightly calcareous.
L	2,9,0	2,9,8	2	8,3	1,C,7	Garnets, disseminated, contorted S ₂ , calc-silicate veins at 296.5.
L	2,9,8	3,0,2	3	8,4	1,C,7	Garnets, gouge associated quartz-feldspar veins in part.
L	3,0,2	3,0,3	0	8,5	1,B,5	Massive garnet-calc-silicate-biotite layer, part S ₂ .
L	3,0,3	3,1,9	4	8,6	1,C,7	Garnet-rich veins, disseminated garnets.

TACTITE HORIZON DETAILED

Core Code	From		To		Feature				S ₁ Dip Direct.		S ₂ Dip Direct.		Description
	10	14	16	20	22	24	26	28	32	34	38		
S	19	5	1	1,10	3					6	5		
S	1,10	3	6	1,10	4	0				0			0-5° S ₂ quartz filled fault?
S	1,10	4	0	1,10	7	0				6	5		Contorted S ₂ , fracture at 0-5°.
S	1,10	7	0	1,11	0	6				6	5		S ₃ dip 40° to 300° az.
S	1,11	1	2	1,11	5	7				5	0		S ₃ dip 60° to 270° az.
S	1,11	6	1	1,13	2	0				6	5		Minor S ₃ .
S	1,13	2	0	1,13	5	4				6	0		Fracture dip 25° to 010°.
S	1,13	5	4	1,13	9	0							Distorted S ₂ to 139 M.
S	1,13	9	0	1,14	8	4				6	5		S ₂ to 45° dip around quartz vein at 145M.
S	1,14	8	4	1,15	5	0				6	0		Contorted quartz veins, etc.
S	1,15	5	0	1,16	0	7				4	0		
S	1,16	0	7	1,16	4	0				7	0		Most contorted, 70° dip in 1C8 at 162.2M.
S	1,16	4	0	1,16	6	1				7	0		
S	1,16	6	1	1,16	7	6							Quartz-muscovite vein, very contorted S ₂ .
S	1,16	7	6	1,17	2	0				7	5		S ₂ kinks to 20 mm on S ₂ .
S	1,17	2	0	1,17	6	4				5	0		Minor variation about 50°, S ₃ -S ₄ kinks
													to 20 mm.
S	1,17	7	4	1,17	7	7							Quartz vein, healed shear at 80°.
S	1,17	8	0	1,18	2	0				4	0		S ₃ kink folds on S ₂ .
S	1,18	2	0	1,18	5	0				5	0		Minor S ₃ kink folds in S ₂ .
S	1,18	8	0	1,18	8	1				5	0		Minor quartz veins at 50°N.
S	1,18	8	1	1,19	0	2				7	5		
S	1,19	0	2	1,19	7	3				5	0		Quartz veins cross cut at 50°.
S	1,19	7	3	1,19	9	0				6	5		Increasing quartz, siliceous.
S	2,01	1	1	2,01	6	5				5	0		Contorted S ₂ , S ₃ and S ₄ ✓
S	2,01	6	5	2,11	1	5							FAULT ZONE, GOUGE ETC. at 40-50°.
S	2,11	1	5	2,11	3	6				7	5		Chloritic.
S	2,11	3	6	2,11	4	0							GOUGE, FAULT, 50°.
S	2,11	4	0	2,11	9	5				6	5		Strong S ₂ , minor quartz veins, very
													minor S ₃ .
S	2,11	9	5	2,22	3	0				7	5		Healed shear? Strong S ₂ .
S	2,22	3	0	2,22	3	8				7	5		Carbonaceous layers, S ₂ gouge at 223.8M.
S	2,22	3	8	2,22	4	3				7	5		
S	2,22	4	3	2,22	5	3				4	5		Contorted S ₂ to S ₃ folds.
S	2,22	5	3	2,22	6	8				5	5		

Cada	From				To				Feature	E S	S ₁			S ₂			Description
	10	14	16	20	22	24	26	28			Dip	Direct.	32	34	38	Dip	
S	2	2	7	3	2	2	9	0						7	10		
S	2	3	2	2	2	3	3	5						7	10		Cursorer banding S ₂ .
S	2	3	8	5	2	4	0	0						6	15		
S	2	4	0	0	2	4	1	0									FAULT ZONE, DIP 35 ⁰ . Healed quartz-feldspar.
S	2	4	1	7	2	4	2	3									FAULT ZONE, DIP 5-15 ⁰ . Quartz healed.
S	2	4	3	6	2	4	4	5						7	10		
S	2	4	4	5	2	4	5	0						4	10		Healed shears at 40 ⁰ also.
S	2	4	5	0	2	4	7	6						7	10		Contorted S ₂ , S ₃ -S ₄ kink folds.
S	2	4	8	0	2	4	8	4						3	15		
S	2	4	8	4	2	5	0	2						7	10		Contorted S ₂ , S ₃ -S ₄ kink folds.
S	2	5	0	2	2	5	1	8									Very contorted S ₂ , no regular S ₂ .
S	2	5	1	8	2	5	2	2						7	15		
S	2	5	2	2	2	6	1	5									Quartz veined, contorted S ₂ , late S ₃ -S ₄ kinks.
S	2	6	1	5	2	6	5	5						6	15		Kink folded S ₂ , late S ₂ -S ₃ ✓
S	2	6	5	5	2	6	7	3						7	10		Quartz veined in part.
S	2	6	7	3	2	6	8	3						1	15		Faulted, sheared, low angle S ₂ .
S	2	6	8	3	2	7	1	2									FAULT, healed SHEAR, low angle 35-45 ⁰ .
S	2	7	1	2	2	7	5	4						4	10		Quartz-feldspar veined, at 80 ⁰ .
S	2	7	6	0	2	7	6	4						7	15		Banded marble.
S	2	8	1	5	2	8	5	0						6	15		Biotite-marble-garnets S ₂ layers.
S	2	8	5	0	2	8	7	4									FAULT, BRECCIA, GOUGE, 35-50 ⁰ .
S	2	8	7	4	2	8	8	2						3	15		IC3, strong S ₂ .
S	2	8	8	2	2	9	0	4						6	10		IC7, contorted S ₂ .
S	2	9	0	4	2	9	3	0						3	15		IC7.
S	2	9	3	0	2	9	4	0						6	15		IC7.
S	2	9	4	0	2	9	5	4						5	15		
S	2	9	6	0	2	9	7	0						6	10		
S	3	0	1	0	3	1	0	0						6	15		
S	3	1	0	0	3	1	3	0									Contorted S ₂ , S ₃ -S ₄ kink folds.
S	3	1	3	0	3	1	5	0						3	15		Contorted S ₂ , S ₃ -S ₄ kink folds.
S	3	1	5	0	3	2	0	0						7	10		S ₂ planars.
S	3	2	2	0	3	2	5	0						7	10		
S	3	2	5	0	3	2	7	0						3	15		

