Cominco

DRILL HOLE RECORD

Location Que River Area | Property MackintoshEL2/70 | District Tasmania, Australia | Alt./R.L. 700.6 | Hole No QR38

Commenced 3/5/75 | Completed 4/5/75 | Core size HQ to 77.6m EOH | Co-ordinate 7250.4 N 5102.8 E | Date 5/5/75

Objective Definition and metallurgical sampling of "Q" lens. | % Recovery 45% overall. 92% in cored interval (39.09 to EOH) | Bearing (M) 98° | Grid bearing (M) 8.75 | Logged EHS | Dip 51

SURVEY DATA

DEPTH	DIP	BEARING(M)	INSTRUMENT TYPE
0	52	99	
0	51°05'40"	97°36'30"	Theodolite
20	51	-	Eastman
*44	48.5	105.5	single
44	48.5	105	shot
77	44	105	camera
*77	44	105	"

* Cleveland's Camera

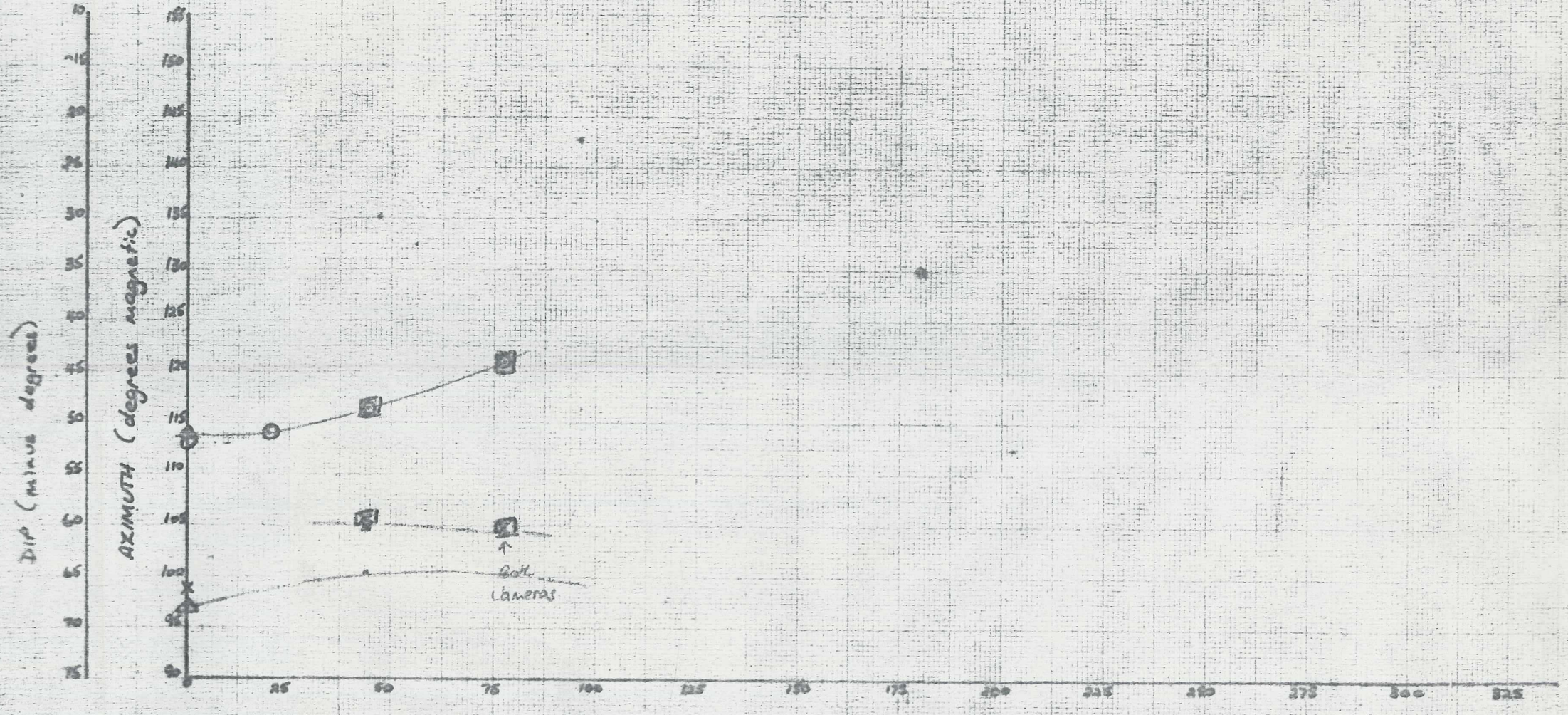
GRAPH DERIVED DATA

DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE
0	51	97	7250.4	5102.8	700.6
25	50.5	99	7250.6	5118.6	681.2
50	48	100.5	7250.3	5134.9	662.3
77.6	44	105	7249.0	5154.0	642.5

REMARKS

4.5 degrees subtracted from camera surveys (azimuth) to remove interpreted calibration error.

QR 38


Dip (minus degrees)
AZIMUTH (degrees magnetic)
Both Cameras
DOWN HOLE DISTANCE (meters)
CLEVELAND'S Eastman Camera
□ DIP
(X) AZIMUTH
Eastman Single Shot Camera
○ DIP
× AZIMUTH
△ Theodolite Pick up.

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DIAMOND DRILL LOG

Hole N° QR38 Page N° 1

Feature : Bedding, Foliation, Fragment - size & shape; Shearing, Fault (F), Vein (c carbonate, q quartz)

Mineralization : Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive <60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	5	No core. All clays and rubble.							
	10								
	15								
	20								
	25								

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DIAMOND DRILL LOG

Hole N° QR38 Page N° 2

Feature : Bedding, Foliation, Fragment - size & shape; Shearing, Fault, Vein (c carbonate, q quartz)

Mineralization : Trace 1-5%; Common 5-15%; Abundant 15-60%; Massive <60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	30								
	35								
	39.09	Buff to grey tuff-agglomerate. Carbonate/sericite alteration is spotty throughout. Considered to be a DTL type with incorporated PyP material (smaller lithic fragments) from the underlying lithologies. Cleaved contact.							Pyrite, trace as disseminated grains.
	40								
1.93	41.90	Lithic tuff with pyritic fragments. Blue grey in colour. Sericitic but becoming siliceous with increasing sulphide. Fine carbonate veining locally.						41.90	Py 5% as wisps, grains and rock fragments. Trace Gn.
0.87								43.28	Py 10%, locally 15% as wisps and veins parallel to the foliation. Gn 1-3%, Sph 1-3% as veinlets and accretions. Py appears to be remobilised layers or fragments.
	45								
2.60	47.10	Massive sulphide. Foliation, banding of sulphides at 50° to c.a.						47.10	Py 50%, Gn 3%, Sph 1%?
	47.80	FAULT ZONE Broken and puggy core.							

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DIAMOND DRILL LOG

Hole N° QR38 Page N°3

Feature : Bedding, Foliation, Fragment - size & shape; Shearing, Fault (F), Vein (c carbonate, q quartz)

Mineralization : Trace 1-5%; Common 5-15%; Abundant 15-60%; Massive <60%

CORE REC'D	DEPTH m	GEOLOGY	MINERALIZATION
0.70			50.20 Galena 20% ave, Sph 10%, Py 25%, with graphite, minor carbonate? and sericite in the matrix. Banding is 50-60° to core axis, of fine lenticular layers of Gn, and occasional bands to zones of Sph and Py.
2.36			
1.35			
1.70	55		
2.96			56.45 Py 70% ave, Gn 7%, Sph 7% in irregular clots.
	58.00		57.54 Py 20% in veinlets, fragments, accretions Gn 1%, Sph 1%, except for 15cm band rich in Sph as shown.
3.00	60	As sulphides declines, the host rock is a blue grey to yellowish green lithic tuff with irregular cherty layers. Towards 62m, the unit becomes progressively greener, chloritic /sericitic.	59.86 Py 7% as disseminated grains and occasional veinlets with Sph 1-2%, and Gn 1-2%
	62.76		62.76
3.02		Sheared light green/fawn tuff-agglomerate with carbonate and pyrite spotting. Fragments to 10cm typically, contain sericitic ovoids to 4mm approx. Some may be feldspars, but others being pyritic may be altered glass from vesicles(?). Blue grey areas are siliceous in the matrix surrounding sericitic fragments. Elsewhere the matrix is usually yellowish-green. Carbonate veining is common below 71.50m. Cleaving is 45° to the core axis	Py typically <2%, patchily to 5%. Rare Gn and Sph initially. Py occurs in aggregates of fine crystals in sericitic ovoids with lithic fragments also as aggregates in the matrix.
0.98	65		
1.60			
1.40			
3.00	70		
2.60			
1.90	75		

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DIAMOND DRILL LOG

Hole Nº QR38 Page Nº 4

Feature : Bedding, Foliation, Fragment - size & shape, Shearing, Fault, Vein (c carbonate, q quartz)

Mineralization : Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive <60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
0.96			C						
0.95	77.6	E.O.H.	F					77.6	

HOLE No QR 38 DATE 25/5/75

SAMPLE Nº	FROM (M)	TO (M)	IW (cm)	REMARKS	INITIAL ANALYSIS: %Cu AAS	%Cu XRF	%Pb AAS	%Pb XRF	%Zn AAS	%Zn XRF	%Fe TIT	ppm Ag AAS	ppb Au AAS	ppm Au FIRE	CHECK LAB: INT.	%Cu XRF	%Pb XRF	%Zn XRF
159577	44.02	45.30	128		0.03			1.89		3.15		48	>500	1.7				
159578	45.30	47.20	190		0.11			1.35		2.05		33	>500	1.0				
159579	47.20	50.80	360	All broken core. (meas.	0.27			6.39		12.9		92	>500	5.7				
159580	50.80	52.06	126	60 cm loss)	0.34			11.6		34.9		270	>500	7.3				
159581	52.06	53.68	162		0.24			13.5		26.9		195	>500	8.0				
159582	53.68	55.44	176		0.35			17.5		28.9		440	>500	11.7				
159583	55.44	56.42	98		0.58			11.5		21.9		220	>500	8.3				
159584	56.42	57.55	113		0.23			2.53		11.7		120	>500	7.3				
159585	57.55	59.83	228		0.15			3.73		7.98		50	>500	2.3				
159586	59.83	61.06	123		0.07			1.11		3.45		28	>500	1.3				
159587	61.06	61.64	58		0.25			3.47		8.00		33	>500	2.3				
159588	61.64	62.52	88		0.04			2.91		3.49		20	360					
159589	62.52	63.04	52		0.03			1.33		2.02		10	280					
	47.20	62.52	1532		0.25			7.76		16.3		150.0		5.8		0.25		7.05		15.1