

List of Reviewed Previous Exploration Data in the Caranbirini Area EL 25313

Year / Period	Project Name	Company / Owner	Tenements	Report No's	Commodity	Exploration Methods	Results	Comment
1967-1971	McArthur	CEC	AP 1748	CR1968-014 CR1969-012 CR1971-010	Cu, Pb, Zn, Ag	Geological mapping, Regional IP survey, Detailed IP and resistivity surveys, Geophysical interpretation, Diamond drilling, Stream sediment and soil sampling, Auger drilling RC Drilling (80holes, 34,370ft) Diamond Drilling (63 holes, 28,050ft)	IP anomalies were drilled,  Regionally high content of Pb-Zn in the Amelia Dolomite, Geochem anomalies were verified by geophysical surveys and follow up drilling	No accurate locations for drill holes, no drill logs in report (1971)
1972-1976	Barney Hill	CEC	EL 598	CR1973-012 CR1974-025 CR1975-001 CR1975-161	Cu, Pb, Zn, Ag	Soil Sampling, Geological mapping, Diamond Drilling (6 + 11 holes) at Buffalo Lagoon, Ridge II, Cooley 1, Emu, West-Fold (outside?) 1974 Diamond Drilling: 21 holes at W=Fold, 11 holes at Wickens Hill, 3 holes at Emu 1975 Diamond drilling: 7 holes at Emu, Wickens Hill, Cooley and Ridge and 12 holes at HYC (outside) 1976 Diamond drilling: 5 holes at HYC, 7 holes at Emu, Buffalo, and Teena and 8 holes at Bulburra, 3 holes at Squib and Coxco (Emu Fault Project)	HYC deposit	Holes not in historical drillhole database, probably outside  Work seems to have been done to South of Caranbirini
1977-1983	McArthur River Project, (Glyde River Project)	Amoco Minerals, CRA, Kennecott, (Shell)	EL 1332 (EL 1330, 1331, 1333, 1375, 1803, 1943)	CR1977-044 CR1978-087 CR1979-013 CR1980-064 CR1981-028 CR1982-263 CR1982-228 CR1982-393 CR1983-022 CR1983-045 CR1986-015 CR2007-661	Pb, Zn, Ag hydrocarbons	Airborne EM Survey IP Survey Geochem (soil) Sampling Rock chip and stream geochem sampling Photo-geological interpretation Gravity Survey Shallow (4m Av) Percussion Drilling (1977, not in drill database); Percussion Drilling: 14 holes (PMR1-14) at <b>Caranbirini</b> prospect (1978 some holes missing in drill database) Diamond Drilling: 4 holes inside MANT-78-1 (632m) MANT-79-2 (617m) from PMR-14 MANT-79-3 (485m) tested centre of gravity anomaly DD82CA1 (1000.3m) Hydrocarbon analysis	IP/geochem outlined the <b>Caranbirini</b> anomaly (M2-1, M2-2, M2-4, M2-5, M2-8), proximal to the Emu fault zone Percussion drilling intersected pyritic shales with marginal base metals, Max values 0.1-0.2% Zn in PMR-3, 4, 7, and 11, <b>MANT-78-1</b> intersected massive pyrite in BC Fm, only minor Zn values <b>MANT-79-2</b> no mineralization Massive sulphides intersected in both holes, with only background geochemistry, failed to reach target horizon, Lynott instead BC Fm +4Mgal Bouguer anomaly outlined from gravity survey overlying a basinal structure <b>MANT-79-3</b> intersected / ended in thickened Reward Dolomite, only minor b/m min <b>DD82CA1</b> best intersection: 0.5m@2.5% Pb, 22.4% Zn and 8.5ppm Ag Barney Creek Fm thickens adjacent to Emu Fault zone and contains indications of economic mineralization in Cooley dolomite member below 600m gravity response Gas flows are mentioned in GR9, which is located ca 75 km SSE of Caranbirini	Most drilling within historical database  MANT-78-1 within northern portion of EL 25313, other holes near eastern tenement border
1979-1982	Mc Arthur River	Amoco	EL 1803	CR1979-013 CR1979-114 CR1980-064 CR1982-263	Cu, Pb, Zn	Airborne EM Survey	EL considered to be prospective but target depth is too great	
1984-1986	Caranbinni JV	Amoco, CRA	EL 4169, EL 4234	CR1984-128 CR1986-131	Cu, Pb, Zn	Diamond Drilling (inside) DD83CA2 (687.9m) DD83CA3 (717.6m) DD84CA4 (615m) Physical property tests	<b>DD83 CA2</b> best intersection 0.5m at 6.45%Pb, 4.85%Zn and 11gm/t Ag from 387.5m <b>DD83 CA3</b> best intersection 3m at 0.85%Pb, 7.25% Zn and 9.5g/t Ag from 663m <b>DD84 CA4</b> best intersection 2m at 1.4%Pb, 1.3% Zn, 9.5gm/t Ag from 520.9m. Weak mineralization encountered in Reward Dolomite and	Drill holes in NT database

							Cooley Dolomite breccia	
1988-1997	McArthur River	Top End Resources Noranda, Perylia Mines, MIM	EL 5787 (a lot more tenements within project)	CR1989-587 CR1990-540 CR1991-491 CR1992-564 CR1993-561, CR1995-669 CR1995-153, CR1997-061	Cu, Pb, Zn	Regional geochemical sampling Stream sediment sampling (169 -80 samples) and rock chip samples (7 samples) on EL 5787 SIROTEM traverse at Caranbirini (1line), Percussion Drilling at Berjaya and Caranbirini CPD2 (499.6m) CPD3 (723m) CP4 (138m) CW1 (78m) = waterbore ( Heli-mag survey over Berjaya and Caranbirini Soil sampling	<b>Located Mineralisation:</b> At several prospects (all outside) Berjaya Prospect (outside) <b>Caranbirini Area 1</b> (southern portion of EL) <b>CPD2</b> 1m@17.3%Zn, 1.32% Pb from 440.5m, Lead isotope results (CPD2) may indicate large hydrothermal system <b>CPD3</b> 1m@1810ppm Zn from 550m <b>CP4</b> 2m@1100 ppm Zn from 14m CW1 intersected lots of water Soil sampling max values: 195ppm Cu, 2140ppm Pb, 1270ppm Zn, 22.1%Fe and 2.3% Mn	Only CPD3 in historical drill hole database
1991-1996	Looking Glass Creek	Ashton Mining	EL 7302	CR1992-389 CR1993-417 CR1994-425 CR1995-501 CR1996-723	Diamonds, Cu, Pb, Zn,	Reconnaissance, Airborne EM survey, Airborne TEM survey, Stream sediment sampling Questem, Ground EM	Stream geochem returned values of up to 184ppm Pb, 209ppm Zn and 2.72%Mn  1 chromite, 1 microdiamond found	Covers western portion of EL 25313
1992-1995	Cow Lagoon	BHP	EL 7576 (EL 7576, 7577, 7578)	CR1993-205 CR1994-139 CR1995-181 CR1995-810	Diamonds,Cu, Pb, Zn	Airborne TEM, Stream sediment sampling, BLEG sampling, Rock chip sampling, RC Drilling (12 holes, outside)	Geochem outline a low level Pb anomaly on EL 7575, max 299ppm Pb), followed up by RC drilling with negative results No TEM anomalies on EL 7576, l stream sed vau of 138ppm Zn	
1993-1999	Lynott	MIM	EL 8078	CR1994-129 CR1995-225 CR1996-235 CR1997-094 CR1998-137 CR1999-154	Cu, Pb, Zn	Soil sampling, Questem, Aeromagnetics, Sirotem, Moving loop EM Helimag survey, RC Drilling (11 holes for 976.7m) Diamond Drilling (7 holes,	No significant mineralization was delineated	Covers only small southern portion of EL 25313  Drilling was outside
1996	Stretton Creek	MIM	EL 8834	CR1996-103	Cu, Pb, Zn	Rock chip sampling,	Max value of 110ppm Zn with 23.7% Fe	Covers only small portion in southwestern corner
2004-2006	Mc Arthur River	American Exploration Australia	EL 23635	CR2004-357 CR2005-225 CR2006-145	Pb, Zn	Data Review Ground TEM Survey	No conductors defined from TEM survey	Good comprehensive data review
2000-2006	Borrooloola	Rio Tinto, Anglo American, Ashton	EL 7294	CR2001-313 CR2002-369 CR2003-486 CR2004-586 CR2005-434 CR2006-344	Zn, Pb, Ag	Project Review Diamond Drilling DD01BAL01 (264.2m) DD01BAL02 (410.6m) DD01BAL03 (231.1m) Geological mapping of Ballyhoo	Ballyhoo target in the SW corner of EL 7294, situated just to the north of EL 25313. DD01BAL01 and 02 intersected 108.8m and 128.3m resp of variably pyritic and dolomitic black mudstone of the Caranbirini Member. Results for DD01BAL01 returned 6.2m at 3.2% Pb, 0.17%Zn and 0.5%Cu beneath black mudstone. No elevated values for were received for DD01BAL02 – 03.	Outside / tenement / Drilling situated to the NNW of Carabirini
2003-2005	McArthur	Anglo American	EL23635	CR2004-357 CR2005-225 CR2006-145	Zn, Pb	Extensive data review over 40 years Re-Interpretation of target areas 9 lines of ground TEM survey over target from above review, eg McA33 Caranbirini (untested BC Formation)	Favourable sub-basin setting No conductors were highlighted from TEM survey	Covers EL28006 and EL25313
2003-2008	Calvert Hills	Astro Diamond Mines	EL22351	CR2006-531 CR2008-623, CR2008-975	diamonds	Data review Stream sediment sampling	No diamonds indicators found	Covers EL28007
2003-2008	Calvert Hills	Legend International Holdings	EL25617	CR2008-975	diamonds	Data review Stream sediment sampling	No diamonds indicators found	Covers EL28007