C.E.C. 138
FEB. 73

card code
header 377
detail 379

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

DRILL HOLE ASSAY LOG

PAGE 1

~~MINE~~/PROSPECT : BULBURRA McARTHUR

NAME BULBURRA 6 ND

core ~~/chips/cuttings/chip/~~

NAME	LEVEL	NORTHING	EASTING	COLLAR R.L. ground / pipe	BRG. M/T/G degrees	BRG. M/T/G min.	INCLINE degrees	INCLINE min.	RECOV. Y % / ~~kg~~	MINE CODE	HOLE CODE	PREPARED BY	CHECK.D
BULBURRA 6ND	SUR	1821796	505753	10046·2	011	00	-50	00	67			assay: JBT calc.n: logged: J. Janecek	

LENGTH	STARTED day	STARTED month	STARTED year	FINISHED day	FINISHED month	FINISHED year	HOLE/CORE SIZE	ELEMENT SYMBOLS	SAMPLE STORED	SAMPLE N° prefix	
84·4	19	02	76	05	03	76	NQ / BQ	AG PB ZN CU	MCA	QX	punch in all cards 108 to 116 contractor: A.D.D. driller: M.I.M. collar survey by: J.Janecek date: 8.3.76 method: down hole survey by: " date: 5.3.76 method: Tropari

INTERVAL from	INTERVAL to	INTERVAL length	RECOV. Y m / ~~kg~~	SAMPLE N°	Ag g/t	Pb %	Zn %	Cu %	PROGRESSIVE TOTALS
0·0	1·3	1·3	0·0						No Core Recovery
1·3	3·4	2·1	1·3	186199	6	0·01	1·28	0·00	Cu = < 10 ppm
3·4	4·6	1·2	0·8	186220	6	0·01	1·42	0·00	Cu = < 10 ppm
4·6	6·1	1·5	0·6	186221	4	0·03	1·56	0·00	Cu = 10 ppm
6·1	9·9	3·8	1·5	186222	4	0·07	7·20	0·00	Cu = 30 ppm
9·9	11·8	1·9	1·4	186223	4	0·03	18·40	0·00	Cu = < 10 ppm
11·8	14·3	2·5	1·5	186224	8	0·04	6·80	0·00	Cu = < 10 ppm
14·3	15·8	1·5	1·3	186225	4	0·02	3·02	0·00	Cu = < 10 ppm
15·8	16·7	0·9	0·9	186226	6	0·01	1·32	0·00	Cu = < 10 ppm
16·7	18·4	1·7	1·5	186227	6	0·01	3·36	0·00	Cu = < 10 ppm
18·4	19·8	1·4	1·4	186228	8	0·01	0·82	0·00	Cu = < 10 ppm
19·8	20·3	0·5	0·5	186229	6	0·02	0·56	0·00	Cu = < 10 ppm
20·3	21·0	0·7	0·7	186230	6	0·04	4·00	0·00	Cu = 20 ppm
21·0	22·4	1·4	1·4	186231	6	0·01	0·12	0·00	Cu = < 10 ppm
22·4	23·6	1·2	1·2	186232	6	0·01	2·62	0·00	Cu = 10 ppm
23·6	25·1	1·5	1·5	186233	4	0·02	1·64	0·01	Cu = 50 ppm
25·1	25·7	0·6	0·6	186234	8	0·01	0·32	0·00	Cu = < 10 ppm
25·7	26·6	0·9	0·9	186235	6	0·01	2·00	0·00	Cu = < 10 ppm
26·6	27·2	0·6	0·6	186236	6	0·02	0·40	0·00	Cu = < 10 ppm
27·2	27·8	0·6	0·6	186237	6	0·01	3·04	0·00	Cu = 10 ppm
27·8	29·2	1·4	1·4	186238	8	0·01	0·44	0·00	Cu = < 10 ppm
29·2	30·4	1·2	1·2	186239	4	0·01	0·06	0·00	Cu = <10 ppm
30·4	31·8	1·4	1·4	186240	6	0·01	1·60	0·00	Cu = <10 ppm
31·8	33·2	1·4	1·4	186241	6	0·01	0·64	0·00	Cu = 10 ppm
33·2	34·2	1·0	1·0	186242	6	0·01	0·74	0·00	Cu = 10 ppm
34·2	35·7	1·5	1·5	186243	4	0·02	1·16	0·00	Cu = < 10 ppm

MINE CODE	HOLE CODE
108 110	111 116

punch in all cards 108 to 116

C.E.C.139
FEB.73

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

DRILL HOLE ASSAY LOG

PAGE 2

MINE/PROSPECT: BULBURRA McARTHUR

NAME: BULBURRA 6 ND

core /~~sludge/cuttings/chips~~

INTERVAL from	INTERVAL to	length	RECOV.Y m / ~~kg~~	SAMPLE N°	Ag g/t	Pb %	Zn %	Cu %	PROGRESSIVE TOTALS
3 5·7	3 6·9	1·2	1·2	1 8 6 4 4	0	0·0 1	2·0 4	0·0 0	Cu = <10ppm Ag = <2 ppm
3 6·9	3 8·1	1·2	1·2	1 8 6 4 5	4	0·0 2	2·1 6	0·0 1	Cu = 70 ppm
3 8·1	3 9·1	1·0	1·0	1 8 6 4 6	6	0·0 1	0·8 6	0·0 0	Cu = 30 ppm
3 9·1	4 0·0	0·9	0·9	1 8 6 4 7	6	0·0 1	1·1 0	0·0 0	Cu = <10 ppm
4 0·0	4 0·9	0·9	0·9	1 8 6 4 8	6	0.0 1	0·5 8	0·0 0	Cu = 20 ppm
4 0·9	4 2·0	1·1	1·1	1 8 6 4 9	5	0·0 1	0·7 0	0·0 0	Cu = < 10 ppm
4 2·0	4 3·3	1·3	1·3	1 8 6 5 0	6	0·0 1	0.4 4	0.0 0	Cu = < 10 ppm
4 3·3	4 4·6	1·3	1·3	1 8 6 5 1	4	0·0 1	0·3 8	0.0 0	Cu = < 10 ppm
4 4·6	4 5·9	1·3	1·3	1 8 6 5 2	4	0.0 1	1·7 4	0.0 0	Cu = < 10 ppm
4 5·9	4 6·9	1·0	1·0	1 8 6 5 3	8	0·0 1	0·9 2	0·0 0	Cu = < 10 ppm
4 6·9	4 7·9	1·0	1·0	1 8 6 5 4	8	0·0 1	0.6 8	0·0 0	Cu = < 10 ppm
4 7·9	4 9·1	1·2	1·2	1 8 6 5 5	2	0·0 1	0·0 6	0·0 0	Cu = 10 ppm
4 9·1	5 1·2	2·1	1·0	1 8 6 5 6	2	0·0 1	0·0 1	0·0 0	Cu = 20 ppm
5 1·2	8 4·4	3 3·2	1 6·0						Not Sampled
8 4·4									End of Hole

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG				MINE CODE	MS CODE	PAGE 1
MINE/PROSPECT: BULBURRA 1			NAME: BULBURRA NO.7		core/~~sludge~~/~~cutting~~/~~chip~~/	
LEVEL: SURFACE	NORTHING:		EASTING:		COLLAR R.L. ground/pipe:	
BEARING M/T/G: -		INCLINE: -90°	LENGTH: 89.6 m		STARTED: 26/4/76	FINISHED: 7/5/76
HOLE/CORE SIZE: 0 m to 6.1 m HQ; 6.1 m to 89.6 m NQ			INTERVALS ASSAYED:			
INTERVAL		RECOV.Y	DOWN HOLE SURVEY-Method: -	date: -	by: -	LOGGED BY: J.JANECEK

from	to	length	m/kg	DESCRIPTION
0.0	2.4	2.4	0	No core - overburden.
2.4	6.5	4.1	2.9	Weathered Dolomite. Yellow pitted gritty rock, vughs with calcite, some limonitic veins, minor
				silicification. Deep brown patches at bottom of section.
6.5	14.1	7.6	4.4	Weathered Dolomite. Yellow pitted gritty rock, limonitic veining and calcite blebs. Large
				cavities in ground (hence loss of core). Patches of limonite and some cavities with limonite.
14.1	23.1	9.0	6.8	Moderately Weathered Dolomite. White, slightly altered dolomite, speckled with limonitic spots
				with occasional patches completely weathered. Some sections silicified.
				15.4 m to 16.2 m - white silt with limonitic blebs.
				16.4 m - banding at 10° to core.
				16.8 m - welded, silicified dolomite fragments up to 1 cm diameter.
23.1	34.8	11.7	9.4	Dolomite Breccia. White dolomite fragments up to 1 m thickness in a black dolomitic mud matrix.
				In this section the mud is oxidized to a reddish silt. Occasional patches of core completely
				weathered. Some sections contain very little matrix.
				33.0 m to 33.7 m - very weathered section.
34.8	50.5	15.7		Dolomite Breccia. As above but less weathered. Mudstone matrix weathered.
				38.2 m - Grains of galena over 2 cm .
				41.3 m to 42.0 m - Unweathered dolomitic mud.
50.5	69.5	19.0	17.1	Dolomite Breccia. Unweathered white dolomite breccia fragments in a black dolomitic mud. In some
				places mud very abundant. Occasional weathered patches. Fragments in all breccia white dolomite.
				At 56.8 m banded fragments appear in the breccia; pyrite and calcite healing common.
				52.3 m to 54.0 m - Weathered and sheared section.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE	MS CODE	PAGE 2

MINE/PROSPECT: BULBURRA 1 | NAME: BULBURRA NO.7 | LEVEL: SURFACE

from	to	length	m/kg	DESCRIPTION
50.5	69.5	19.0	17.1	55.5 m - Coarse yellow sphalerite specks in dolomite fragments.
				58.5 m - Core to banding 25°.
				59.4 m - Small shear zone.
				61.1 m to 61.3 m - Shale matrix crushed.
				65.0 m - Core to banding angle 35°.
69.5	79.6	10.1	9.0	Dolomite Breccia Weathered. Weathered dolomite breccia black pyritic mud now a red colour,
				fragments yellow with dendritic growths. Core loss in section due to cavities in ground. Brown
				patches (after pyrite) through core.
				69.5 m to 70.7 m - 1 m core loss.
				74.0 m to 74.4 m - contorted banding in fragment.
				77.2 m to 77.6 m - calcite vein and crushed core (fault).
79.6	89.6	10.0		Dolomite Breccia. Occasional weathered patches. About 2 phases of brecciation, in places dolomitic
				mud brecciated and healed with calcite.
				81.4 m - small shear zone.
				89.6 m - END OF HOLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE	MS CODE	PAGE 1	
~~MINE~~/PROSPECT: BULBURRA	NAME: BULBURRA NO. 8	core/~~Sludge/cutting/chip~~/	
LEVEL: SURFACE	NORTHING:	EASTING:	COLLAR R.L. ground/pipe:
BEARING M/T/G: 0°M	INCLINE: -60°	LENGTH: 73.9	STARTED: 10.5.76 / FINISHED: 2.6.76
HOLE/CORE SIZE: 1.5-11.6 HQ 11.6-73.9 NQ	INTERVALS ASSAYED:		
DOWN HOLE SURVEY-Method:	date:	by:	LOGGED BY: J. JANECEK

INTERVAL from	to	length	RECOV. m/kg	DESCRIPTION
0	1.5	1.5	0	No core overburden.
1.5	13.9	12.4	9.0	Dolomite Breccia Grey massive to well bedded (algal mat) dolomite fragments in a dolomite matrix. Veins of white clay material causing core to fracture, some cavities developed (Mara Dolomite) 5.9-6.1 well developed algal mat fragments.
13.9	17.5	3.6	0.6	Dolomite Breccia The fragments in this section are much smaller up to 1 cm diameter of white, grey and black dolomite. The matrix is a pale green shaly material (Mara Basal Breccia).
17.5	20.5	3.0	1.1	Myrtle Shale Pale green massive shale, with a crushed appearance.
20.5	23.5	3.0	2.2	Myrtle Shale Well banded green shaly rock with more dolomite bands. The latter have been fractured and contorted, pale grey colour. 21.6 Core to bedding angle 0°.
23.5	29.9	6.4	3.9	Myrtle Shale Well banded fractured dolomites with minor shaly bands, orangy pink spots of cherty fragments in core. Some sections finely brecciated. 26.2 Core to bedding angle 0°.
29.9	35.3	5.4	5.4	Myrtle Shale Green shaly material with dolomitic bands pale grey to slightly pink. Occasional veins of calcite ~~[illegible]~~. Dolomitic beds contorted and fractured. Orangy pink cherty fragments through core. Some sections very shaley and fractured. 31.0 Core to bedding angle 0-5° 34.6 Core to bedding angle 20°

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE	MS CODE	PAGE 2

~~MINE~~/PROSPECT: BULBURRA | NAME: BULBURRA NO. 8 | LEVEL: SURFACE

from	to	length	m/kg	DESCRIPTION
35.3	36.7	1.4	1.4	Myrtle Shale Red siltstone with grey contorted dolomitic beds, some sections more massive.
36.7	42.5	5.8	5.8	Myrtle Shale Green shaly siltstone with contorted and fractured dolomitic beds. Core has a very sheared appearance. Fragments of orangy pink cherty rock through core, these were probably a bed within the shaly rocks.
42.5	45.9	3.4	3.4	Myrtle Shale Red siltstones with fractured banding, patches of green coloured shales. Grade into red sections. 42.5 shearing at 20° to core.
45.9	73.9	28.0	28.0	Myrtle Shale Green shale with bands of red silty rock all sheared and fractured to a homogenous mass. Specks of orangy pink chert. Some sections more dolomitic. Some aranaceous fragments. 49.1-49.8 dolomitic with patches of oolite developed. 52.0-52.8 dolomitic section 60.9-61.0 pyrite developed, in shear 40° to core 65.5-73.9 blockier texture bedding more distinct.
				END OF HOLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE WFD | MS CODE 000031 | PAGE 1

~~MINE~~/PROSPECT: W-FOLD | NAME: W-FOLD 15 SD | core/~~sludge/cutting/chip~~/

LEVEL: SURFACE | NORTHING: 182090.9 | EASTING: 150986.5 | COLLAR R.L. ~~mmxxdx~~pipe: 10043.004

BEARING M/T/G: | INCLINE: -58° | LENGTH: 197.8 m | STARTED: 22. 3.76 | FINISHED: 1.4.76

HOLE/CORE SIZE: Om - 6.1m HQ, 6.1m - 42.7m NQ, 42.7m -197.8 BQ | INTERVALS ASSAYED:

DOWN HOLE SURVEY-Method: Tropari | date: 1. 4.76 | by: J. Janecek | LOGGED BY: J. Janecek

INTERVAL from	to	length	RECOV. m/kg	DESCRIPTION
0	4.9	4.9	0.0	No core. Overburden
4.9	5.9	1.0	1.0	Lower Dolomitic Shales. Weathered, coarsly bedded greenish grey siltstone, not
				pyritic. Some borwnish colouration along joints and fractures. A barren zone.
5.9	8.0	2.1	0.9	Lower Dolomitic Shales. Well bedded, weathered dolomitic shales with pyritic
				beds now weathered.
				6.1 m Core to bedding angle, wavy 15°
				7.3 m Core to bedding angle 80°
8.0	10.2	2.2	1.3	Lower Dolomitic Shales. White fractured siltstone, probably tuffaceous.
				Weathered along fractures. Strongly fractured in parts.
10.2	11.9	1.7	1.6	Lower Dolomitic Shales. Weathered, well bedded pyritic dolomitic shales.
				10.3 m Core to bedding angle, wavy 65°
				10.4 m - 10.6 m Deep brown - weathered silt, very low density.
11.9	16.5	4.6	4.6	Lower Dolomitic Shales. Inter-bedded black shales and coarser grained dolomitic
				shaly siltstones. The shales form thin bands. The shaly dolomite has been
				recrystallized and has a nobly appearance. Sphalerite occurs mainly with the
				shaly dolomite and is concentrated along the rims and edges of joints. Discon-
				tinuous chert bands, fragments of chert rimmed with sphalerite. Some large 3 mm
				blebs of pyrite. Galena is fine grained. Some of the sphalerite still in the
				fine grained strata in the shales. Occasional barren tuffaceous(?) bands up to
				2 cm thick. 13.0 m CBA 70°
				14.3 m CBA 70°
				16.4 m CBA 90°

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG				MINE CODE WFD	MS CODE 000031	PAGE 2
~~MINE~~/PROSPECT: W-FOLD				NAME: W-FOLD 15 SD	LEVEL: SURFACE	

from	to	length	m/kg	DESCRIPTION
16.5	17.5	1.0	1.0	Lower Dolomitic Shales. Massive shaly dolomite bed, upper contact crushed
				possibly a small fault. Rock is dark grey and in lower part of section is
				streaked with white specks, giving the impression of graded bedding.
17.5	18.0	0.5	0.5	Lower Dolomitic Shales. Recrystallized dolomitic shales, sphalerite mineralization
18.0	19.7	1.7	1.7	Breccia. Section starts with a weathered part about 0.1 m long. Rock of lower
				dolomitic shales, shaly sections brecciated with calcite matrix, some calcite
				veining. Some galena and sphalerite in matrix and host rock. This probably
				represents a small fault zone.
19.7	21.5	1.8	1.8	Lower Dolomitic Shales. Recrystallized dolomitic shales, with barrne zones
				being more abundant, moderately mineralized. Abundant calcite veining, carry
				over from preceeding section. Minor brecciation. CBA 60° at 20.5 m.
21.5	25.8	4.3	4.3	Lower Dolomitic Shales. Massive greenish grey rock with thin interbeds of shale
				and shaly dolomite. Barren zone, very weak mineralization. Beds exhibit
				graded bedding. Some shale beds with sphalerite.
				24.1 m - 25.1 m Very tuffaceous section, streaky and mottled appearance.
				25.1m Puggy band 1 cm thick.
				25.3 m CBA 85°, birds eye structure.
25.8	34.7	8.9	8.9	Lower Dolomitic Shales. Well bedded silty dolomites with thin shaly beds containing
				abundant sphalerite. The silty dolomite make up larger part of the section. Some
				recrystallization in the shaly sections. Small nodules developed. Sphalerite
				reasonably coarse grained, clearly visible to eye.
				26.9 m - 27.0 m graded beds
				27.8 m CBA 75°
				29.4 m CBA 90°
				32.0 m slumping
				32.6 m CBA 85°

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG				MINE CODE WFD	MS CODE 000031	PAGE 3
~~XXXX~~/PROSPECT: W-FOLD				NAME: W-FOLD 15 SD	LEVEL: SURFACE	

from	to	length	m/kg	DESCRIPTION
34.7	36.0	1.3	1.3	Lower Dolomitic Shales. Thick bands of recrystallized dolomite with minor to
				shaly beds, very poorly mineralized.
			34.9	m - 35.3 m more normal shaly beds, CBA 75°
36.0	38.8	2.8	2.8	W-Fold Shales. Greenish grey rock, with abundant nodules of recrystallized
				dolomite some containing sphalerite and galena. Section is much greener than
				preceeding sections. 37.5 m CBA 75°
38.8	42.3	3.5	3.5	W-Fold Shales. Greenish rock, well bedded, occasional nodules and minor
				sphalerite mineralization. Silty beds often broken (flaked).
				39.4 m red silty bands
				40.9 m CBA 90°
42.3	49.9	7.6	7.6	W-Fold Shales. Rock consisting of pale red, green and pale green bands of
				variable thickness. Section often speckled with carbonaceous shards. Occasional
				chert bands.
				43.4 m CBA 90°
				43.7 m thin pale green shaly band.
				44.5 m - 44.9 m pale green section, some red interbeds.
				45.7 m apple green bands.
				47.8 m - 47.9 m pale green shaly bands.
				48.0 m CBA 85°
49.9	50.6	0.7	0.7	W-Fold Shales. Pale grey speckled tuffaceous band, massive, slight red
				colouration.
50.6	61.1	10.5	10.5	W-Fold Shales. Interbedded green, dark green, reddish bands. Reddish bands
				often discontinuous, (concretion) occasional red chert bands. Rock has a cherty
				appearance in places.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE WFD | MS CODE 000031 | PAGE 4

~~MINE~~/PROSPECT: W-FOLD | NAME: W-FOLD 15 SD | LEVEL: SURFACE

from	to	length	m/kg	DESCRIPTION
				55.0 m - 55.7 m tuffaceous band, pale green shaly material grading into more
				massive silty chert rock. Red chert bands.
				57.4 m CBA 86°
				58.1 m - 58.7 m pale green shaly material
				60.1 m pale green crumbly shaly material
61.1	63.3	2.2	2.2	W-Fold Shales. Tuffaceous bed, pale pink speckled with carbonaceous material
				quite abundant in places, massive rock.
63.3	67.8	4.5	3.3	W-Fold Shales. Occasional very fine bedded very dark green beds.
				66.0 m - 66.1 m tuffaceous bed
				66.8 m - 67.1 m tuffaceous bed
67.8	70.4	2.6	2.6	W-Fold Shales. Thin bedded very dark green shale, greasy appearance with nodules
				and bands of pink dolomitic siltstone. Some nodules of a grey dolomitic siltstone
				68.8 m CBA 90°
70.4	71.4	1.0	1.0	W-Fold Shales. Thin green bedded shales with abundant red dolomitic siltstone
				nodules, some have green centre.
71.4	72.3	0.9	0.9	W-Fold Shales. Thin bedded green shales with occasional red dolomitic siltstone
				bands and nodules. 72.1 m CBA 80°
72.3	73.1	0.8	0.8	W-Fold Shales. Tuffaceous bed, similar to 61.1 m - 63.3 m section pale green
				and pastle green bands of very fissile shale.
73.1	77.0	3.9	3.9	W-Fold Shales. Thin bedded shales dark green and green with nodules and bands
				of red dolomitic siltstone.
				75.5 m - 75.6 m pale green tuffaceous band
				75.6 m CBA 75°
				76.4 m - 76.5 m pale green tuffaceous band.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG				MINE CODE WFD	MS CODE 000031	PAGE 5
~~XXXX~~PROSPECT: W-FOLD				NAME: W-FOLD 15 SD	LEVEL: SURFACE	

from	to	length	m/kg	DESCRIPTION
77.0	79.9	2.9	2.9	W-Fold Shales. Massive tuffaceous bed, with pale green fissile shales.
				79.6 m CBA 80°
79.9	93.7	13.8	13.8	W-Fold Shales. Interbedded, green shales, with red dolomitic siltstone bands
				and nodules. Occasional pale green tuffaceous beds of fissile shales. Some
				sections made up of predominantly red siltstone.
				82.5 m - 82.8 m tuffaceous band.
				84.5 m CBA 80°
				87.0 m - 87.6 m tuffaceous band
				89.5 m - 90.2 m tuffaceous band
				91.2 m CBA 90°
93.7	97.8	4.1	4.1	W-Fold Shale. Tuffaceous section, massive pink silt beds with fissile green
				interbeds. Tuffaceous beds up to 20 cm thick. Green nodules 1 cm diam. in
				green sections.
				95.2 m CBA 80°
				97.1 m slump in green tuffaceous rock.
97.8	99.4	1.6	1.6	W-Fold Shale. Red silty nodules and bands in green shaly matrix, nodules become
				less abundant towards bottom of section.
99.4	100.4	1.0	1.0	W-Fold Shale. Green shaly rock with silty nodules. Some massive green beds with
				carbonaceous shards. 99.9 m CBA 80°
100.4	101.1	0.7	0.7	W-Fold Shale. Red dolomitic siltstone with wavy bands up to 1 cm thick, thin
				shaly interbeds (1 mm or less). Occasional patches recrystallized.
101.1	102.9	1.8	1.8	W-Fold Shale. Green massive tuffaceous rock with occasional silty nodules, minor
				shaly beds of lighter green shale (1 mm thick) carbonaceous shards in
				massive beds. 102.0 m CBA 85°

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG				MINE CODE WFD	MS CODE 000031	PAGE 6
~~XXXX~~ PROSPECT: W-FOLD				NAME: W-FOLD 15 SD	LEVEL: SURFACE	

from	to	length	m/kg	DESCRIPTION
102.9	104.0	1.1	1.1	W-Fold Shale. Green shales with red nodules and bands of silty material.
				104.0 m red and green interbedded rock - red siltstones about 3 mm thick, green
				tuffaceous shale? beds. eight red beds. CBA 85°
104.0	105.9	1.9	1.9	W-Fold Shale. Red dolomitic siltstone as in 100.9 m - 101.1 section
				105.7 m CBA 85°
105.9	107.5	1.6	1.6	W-Fold Shale. Tuffaceous section mainly green tuffaceous shales with faint pink
				colouration, increasing to pink in places. Some light green bands.
				106.6 m - 106.8 m red dolomitic siltstones
				107.2 m very thin band of bright green shale, interbedded with thin
				red siltstones.
107.5	108.5	1.0	1.0	W-Fold Shale. Red dolomitic silty beds and nodules in green shale matrix, shale
				content increases to bottom of section. 108.3 m CBA 85°
108.5	114.2	5.7	5.7	W-Fold Shale. Tuffaceous section, bulk of section made of pale red, massive
				siltstone with some greenish bands, these grade into pink. At start of section
				about 30 cm of well bedded green tuffaceous rock. Rock is predominantly pink and
				massive to 112.1 m, thence it is mainly green with patches of no tuffaceous red
				dolomitic siltstone nodules and bands.
				112.3 m CBA 80°
				112.3 m - 112.6 m Red silty bands and nodules.
				113.1m - 113.9 m Red silty bands and nodules.
114.2	116.5	2.3	2.3	W-Fold Shales. Interbedded green and red shales with disrupted and broken bands
				of red dolomitic siltstone. These siltstones have very irregular shapes, some
				contain brick red sections, edges appear as if these bands have grown and are
				not primary sedimentary bands Iie what we see now is not the original band but
				it has grown on an original band nucleus). 116.4 m CBA 75°

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE WFD | MS CODE 000031 | PAGE 7

~~XXXX~~PROSPECT: W-FOLD | NAME: W-FOLD 15 SD | LEVEL: SURFACE

from	to	length	m/kg	DESCRIPTION
116.5	116.7	0.2	0.2	W-Fold Shales. Green massive tuffaceous bands.
~~116.7~~	~~122.2~~	~~5.5~~	~~5.5~~	W-Fold Shales. Predominantly green shaly beds with dolomitic siltstone interbeds,
				the latter are irregular and appear to have secondary growths. Bands of
				of recrystallized dolomite occurs throughout section. Occasional tuffaceous
				beds. Some very red chert bands up to 1 cm thick.
				117.3 m - red chert band
				118.0 m - 118.3 m tuffaceous bands, multiple beds
				118.6 m - 118.7 m tuffaceous bands
				120.3 m red chert band
				120.5 m red chert band
				121.6 m red chert band
				121.9 m red chert band
122.2	125.0	2.8	2.8	W-Fold Shales. Massive pink tuffaceous siltstone, with occasional greenish
				bands, which have gradational contacts. 122.9 m CBA 80°
125.0	126.8	1.8	1.8	W-Fold Shales. Predominantly green shales with grey silty bands, occasional red
				silts. 126.7 m thin well bedded red chert bands. CBA 80°
126.8	133.6	6.8	6.8	W-Fold Shales. Red shales with red interbedded siltstones. Occasional red chert
				bands and tuffaceous beds.
				126.9 m - 127.0 m red chert beds, some slumping
				128.0 m - 128.1 m red chert beds
				129.4 m red chert bed
				129.6 m - 129.7 m red tuffaceous beds, red chert beds on either side
				132.5 m - 132.6 m green tuffaceous beds. CBA 85°. thin red chert bed.
133.6	134.1	0.5	0.5	W-Fold Shales. massive pink tuffaceous siltstone.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE WFD | MS CODE 000031 | PAGE 8

~~MINE~~/PROSPECT: W-FOLD | NAME: W-FOLD 15 SD | LEVEL: SURFACE

from	to	length	m/kg	DESCRIPTION
134.1	136.3	2.2	2.2	W-Fold Shales. Red shales, with red interbedded siltstones, some sections
				have very fine regular bedding, others appear recrystallized. 135.0 m CBA 75°
~~136.3~~	~~137.3~~	~~1.0~~	~~1.0~~	~~W-Fold Shales.~~ Grey interbedded shales and siltstones, recrystallized beds.
137.3	137.7	0.4	0.4	W-Fold Shales. Pink massive tuffaceous rock.
137.7	138.1	0.4	0.4	W-Fold Shales. As 136.3 m - 137.3 m section. 137.9 m CBA 75°
138.1	140.1	2.0	2.0	W-Fold Shales. Red shales with interbedded red siltstones, recrystallized beds
				also present. Two red chert bands at start of section.
				138.6 m - 138.7 m thinly bedded red tuffaceous siltstone. CBA 85°
				139.7 m - 139.8 m red tuffaceous siltstone.
140.1	140.6	0.5	0.5	W-Fold Shales. Red tuffaceous siltstones. CBA 85°
140.6	142.3	1.7	1.7	W-Fold Shales. Mainly grey interbedded shales and siltstones (dolomite), with
				occasional red chert beds.
				140.7 m two red chert beds
				141.1 m two red chert beds
				141.2 m - 141.3 m red tuffaceous siltstone
				142.3 m red chert beds
142.3	143.8	1.5	1.5	W-Fold Shales. Well bedded reddish grey tuffaceous siltstone, some bands of
				recrystallized dolomite. 143.0 m CBA 90°
143.8	152.3	8.5	7.8	W-Fold Shales. Massive pink and grey tuffaceous siltstone. Grey has a pinkish
				hue. Occasional patches of well bedded rock.
				145.3 m CBA 80°
				148.4 m - 150.4 m thick silty beds, red and pale green up to 1 cm thick,
				tuffaceous sections grade into this unit.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE WFD | MS CODE 000031 | PAGE 9

~~XXXX~~/PROSPECT: W-FOLD | NAME: W-FOLD 15 SD | LEVEL: SURFACE

from	to	length	m/kg	DESCRIPTION
152.3	159.6	7.3	7.3	W-Fold Shales. Well banded interbedded red silty shale and dolomitic siltstone.
				Occasional thin tuffaceous bands. Drill bit has given core and arenaceous
				texture.
				154.6 m CBA 75°
				156.9 m red tuffaceous bed 2 cm thick
				157.7 m CBA 75°
				159.2 m CBA 75°
159.6	160.6	1.0	1.0	W-Fold Shales. Massive deep pink tuffaceous band.
160.6	166.6	6.0	6.0	W-Fold Shale. Similar to 152.3 m - 159.6 m section.
				162.2 m CBA 75°
				162.7 m - 163.3 m tuffaceous bands, CBA 90°
				164.7 m - 165.3 m rocks brecciated
				166.4 m CBA 80°
166.6	167.8	1.2	0.6	W-Fold Shale. Massive tuffaceous rock, core broken.
167.8	170.1	2.3	2.1	W-Fold Shale. Similar to 152.3 m - 159.6 m section.
				168.4 m CBA 90°
				168.7 m - 169.0 m brecciated with pyrite in joints
				170.0 m red cherty tuffaceous bands, 5 cm thick.
170.1	180.9	10.8	10.8	Teena Dolomite. Well banded, interbedded red ocher like bands (altered red silty
				beds?), with red and grey dolomite. Towards bottom of section rocks become more
				grey. Bands are up to 5 mm thick and are sometimes linsoid. Banding contorted
				in places. Some recrystallization of dolomitic bands. 172.9 m CBA 85°
				174.4 m bedding folded
				175.8 m bedding folded
				178.3 m CBA 80°

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG				MINE CODE WFD	MS CODE 000031	PAGE 10
~~MINE~~/PROSPECT: W-FOLD				NAME: W-FOLD 15 SD	LEVEL: SURFACE	

from	to	length	m/kg	DESCRIPTION
180.9	184.4	3.5	3.5	Teena Dolomite. Predominantly grey well bedded rock, some well developed
				stylolites.
				183.0 m CBA 85°
				184.4 m two thin chert bands and pale green clay
184.4	185.8	1.4	1.4	Teena Dolomite. Similar to 180.9 m - 184.4 m section except slightly more pink
				in rock. 185.7 m CBA 90°, tuffaceous beds
185.8	197.8	12.0	12.0	Teena Dolomite. Similar to 180.9 m - 184.4 section.
				186.8 m pale green clay (tuff?)
				187.4 m CBA 75°
				188.2 m - 188.4 tuffaceous bands. CBA 70°. Fractured at end.
				189.2 m CBA 85°
				190.5 m - 192.2 m rock brecciated (minor fault) some calcite veining, low angle
				to core.
				193.5 m - 193.7 m CBA disrupted
				194.1 m - 196.8 m Rock brecciated, low angle to core
				197.4 m CBA 75°
				END OF HOLE 197.8 m
				NOTE: The Teena Dolomite and W-Fold shale boundary is arbitory. In this case
				it was based on the number of thick tuffaceous beds present as well as
				thinner tuff beds.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE	MS CODE	PAGE 1	
MINE/PROSPECT: REWARD II, McARTHUR	NAME: REWARD II No.1	core/~~sludge/cuttings/sbx~~/	
LEVEL: Surface	NORTHING:	EASTING:	COLLAR R.L. ground/pipe:
BEARING M/~~XXG~~: 180° M	INCLINE: -70°	LENGTH: 145.4	STARTED: 8.6.76 / FINISHED: 16.7.76
HOLE/CORE SIZE: 0-6.1 HQ, 6.1-63.7 NQ, 63.7-145.4 BQ	INTERVALS ASSAYED: -		
DOWN HOLE SURVEY-Method: -	date: -	by: -	LOGGED BY: J.Janecek

INTERVAL from	to	length	RECOV. m/kg	DESCRIPTION
0.0	3.1	3.1	0.7	Red clay with dolomite rock fragments.
3.1	5.7	2.6	2.6	Banded Dolomite. Moderately banded dolomite white to pale orange in colour, fractured in places. Flake breccias present. 3.4 m Core to bedding 55°.
5.7	43.9	38.2	38.2	Dolomite Breccia. Very ill-sorted breccia with fragments ranging from millimetres to metres in diameter set in a matrix of dark grey. Dolomite openings between fragments is very variable, from closely packed to matrix occurring without fragments over 0.5 m. In many places sections have been replaced by layered cryptocrystalline quartz giving the core an agaty appearance. Replacement is most pronounced in the upper part and in the matrix. Occasional secondary calcite veins. 36.3-36.7 m. Calcite veins with dolomite fragments caught up in it.
43.9	47.9	4.0	4.0	Dolomite Breccia. Similar to above but fragments here consist of silicified algal dolomite, now white well banded and contorted cryptocrystalline quartz.
47.9	53.7	5.8	5.8	Dolomite Breccia(?). Banded dolomite, slightly silicified and weathered along banding planes. No definite dark dolomite matrix present. Core is very fractured. Possibly a fragment. 49.3 m. Core to banding angle 75°. 50.4-50.7 m. Very porous section - angular cavities. 52.5-52.7 m. Finely brecciated section, matrix dark brown mineral. 52.7 m. Core to banding angle 65°.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE | MS CODE | PAGE 2

MINE/PROSPECT: Reward II | NAME: Reward II No.1 | LEVEL: Surface

from	to	length	m/kg	DESCRIPTION
53.7	56.7	3.0	3.0	Dolomite Breccia. Massive dolomite with irregular fractures containing white dolomite and also dark dolomite. Occasional banded fragments, core slightly weathered, especially in matrix of breccia.
56.7	67.9	11.2	11.2	Dolomite Breccia. Massive dolomite fragments with dark dolomite matrix. Fragments can be angular or rounded. The angular fragments appear to be more of a parting breccia (i.e. fragments can be filled together again.) Occasional white patches of weathered and silicified dolomite as fragments. 62.9-63.7 m - Matrix running along core secondary dolomite healing on either side of dark dolomite. 64.9-65.2 m - Small rounded and angular fragments. 67.2-67.5 m - Angular fragments.
67.9	72.1	4.2	4.2	Dolomite Breccia. Fragments consists of well banded dolomites and mottled dolomite. Fragment size variable but usually small. Matrix varies from dark dolomite to white banded cryptocrystalline quartz. Appears to be about 2 generations of brecciation. Breccia types variable.
72.1	86.3	14.2	14.2	Dolomite Breccia. Massive dolomite fragments occasional banded section. Some fragments have coarser grained material. 77.8 m - Banding at 65° to core. 78.2-78.5 m - Contorted banding, dolomite (white) vein filling. 78.8-79.2 m - Dark dolomite vein, running along core with white dolomite edges. Zoned vein. 82.6-82.7 m - White alteration to banded section. 84.7-84.9 m - Mottled dolomite matrix(?) bent around massive dolomite fragment.
86.3	89.7	3.4	3.4	Gritty Banded Dolomite. Fine to medium grained grey gritty dolomite upper part of section fragmented and altered to white kaolinitic dolomite. Rock becomes more massive to base of section. 87.8 m - Core to banding angle 75°.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE | MS CODE | PAGE 3

MINE/PROSPECT: Reward II | NAME: Reward II No.1 | LEVEL: Surface

from	to	length	m/kg	DESCRIPTION
89.7	102.6	12.9	12.9	Gritty Banded Dolomite. As in 86.3-89.7 m section towards base, here it is brecciated with a dark dolomite matrix, slight weathering and occasional silicification. Stylolitic joints with matrix in lower part of section. 93.3-96.3 m - Slightly weathered section. 96.3 m - Core to banding angle 85°. 98.7-99.0 m - Half core oncolitic fragments up to 2 mm diam. Other half of core matrix. Stylolitic joint. 104.4 m - Core to banding angle 85°. 101.9-102.2 m - Larger (up to 5 mm) oncolite fragments.
102.6	105.9	3.3	3.3	Mottled Dolomite. Dark grey dolomite with wavy banding of possible algal origin, in other parts no banding but irregular patches of lighter and dark grey dolomite banding roughly parallel to core. Towards bottom of section mottling less distinct and dolomite more massive. This section appears similar to the mottled sandstones in the Zambian Copperbelt.
105.9	114.9	9.0	5.8	Banded Dolomite. Section weathered to off-white colour, banding well developed. Banding could be growth bands as at 108.3 m and 112.0 m an oncolite structure is present. Core fractured at base and fractures filled with white clay material. 114.3-114.9 m - Banding wavy and appears to be of an algal origin. 107.9 m - Core to banding angle 75°. 109.6-111.4 m - Cavity.
114.9	123.8	8.9	0	No core - cavity.
123.8	127.8	4.0	4.0	Banded Dolomite. Weathered section with well banded dolomite, banding due to thin carbonaceous lamellar. In places very contorted.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE | MS CODE | PAGE 4

MINE/PROSPECT: Reward II | NAME: Reward II No.1 | LEVEL: Surface

from	to	length	m/kg	DESCRIPTION
				123.8-124.4 m - Banding poorly developed.
				125.0-125.1 m - Rounded dolomite fragments.
				125.4-125.5 m - Rounded dolomite fragments.
127.8	129.9	2.1	2.1	Banded Dolomite. - Well banded dolomite as in 123.8-127.8 m section.
				128.4 m - Macro fold with brittle fracturing.
				Section becomes weathered to base.
129.9	130.9	1.0	1.0	Massive Dolomite. - Weathered and weakly banded.
130.9	137.3	6.4	6.4	Gritty Banded Dolomite. Grey speckled dolomite, speckling due to white dolomite patches.
				Banding possibly of algal origin, wavy, occasional fractures filled with white clay. Growth layers
				visible in some fractures.
				131.7-131.9 m - Growth layers well developed in fractures.
				133.0 m - Core to banding angle 70°.
137.3	143.6	6.3	6.3	Banded Dolomite. Massive poorly banded dolomite, with occasional well banded sections, brecciated
				in places with darkerygrey dolomite as matrix. Minor macro faulting. Top part of section has
				red-brown veins of possible limonite, redcolouration seeping into dolomite.
				139.0 m - Core to banding angle 60°.
				140.2-141.2 m - Brecciated section.
143.6	145.4	1.8	1.8	Banded Dolomite. Well banded finely bedded dolomite with flake breccias developed at 144.0 m.
				Oncolite bed at 144.5 m. Flake breccia at 144.9 m.
				143.9 m - Core to banding 75°.

END OF HOLE

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL LOG

MINE CODE	MS CODE	PAGE 5
MINE/PROSPECT: Reward II	NAME: Reward II No.1	LEVEL: Surface

from	to	length	m/kg	DESCRIPTION
				NOTES: This hole was drilled to test a weak lead/zinc anomaly in a soil covered flat. No lead or zinc mineralisation was observed in the hole. Also this hole was drilled into the Reward Dolomites, the rocks formed in the hole were atypical of the Reward Dolomites. Finding the cavities it has lead the logger to believe that the anomaly was caused by a drainage effect into a sinkhole. The atypical nature of the rocks is due to coring of recent sediments deposited on the floor of the sinkhole, some of the algal developments could be due to slime-like growths on the cavern floors.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

MINING TENEMENT

PROGRESS REPORT

OPEN FILE

EXPLORATION LICENCE NO.598 "BARNEY HILL", N.T.

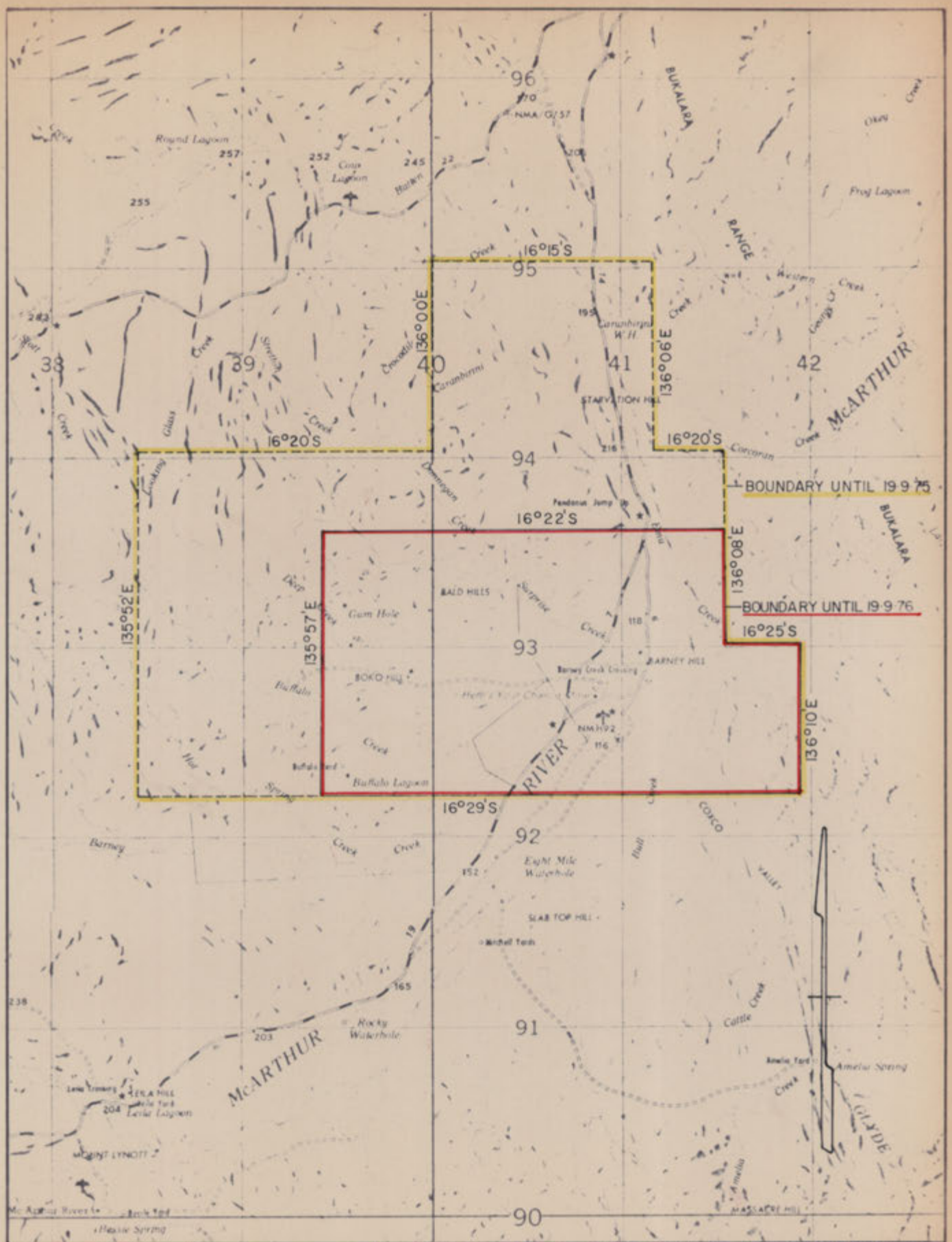
ANNUAL REPORT FOR YEAR ENDED SEPTEMBER 19, 1976.

VOLUME 2 OF 2

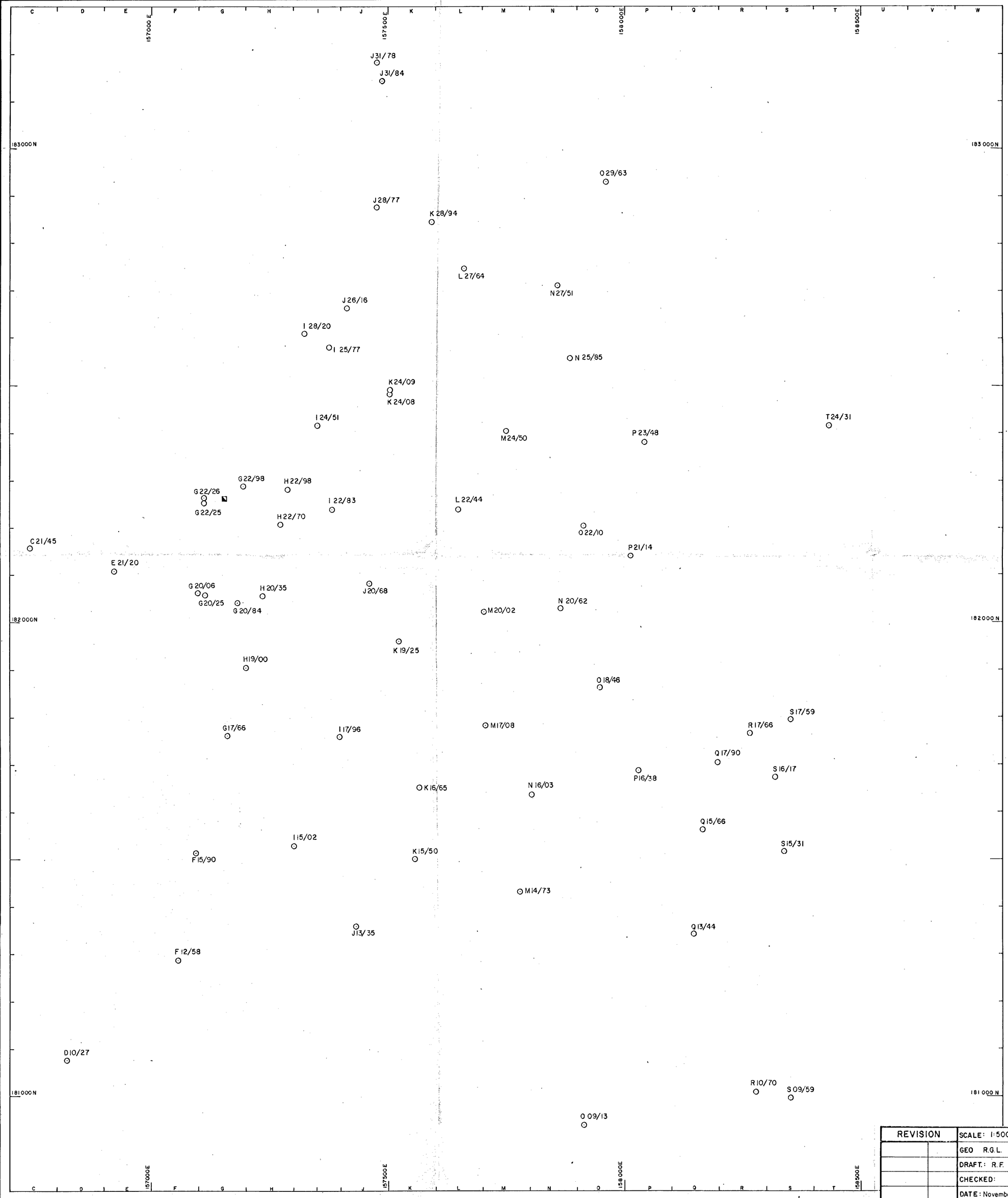
RECEIVED
-3 NOV 1976
MINES BRANCH

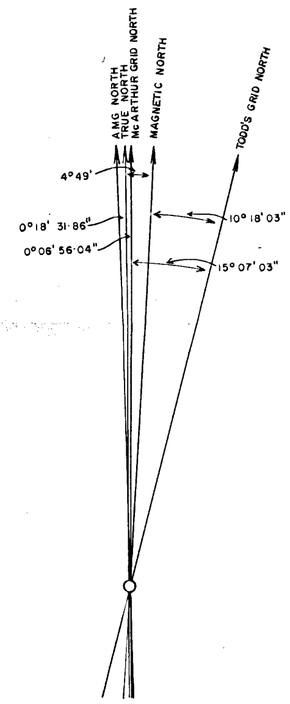
DATE: November 24, 1976

COPY: Assistant Secretary
Mines



REVISION	SCALE 1 250 000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
	GEOL	E.L. 598 'BARNEY HILL'
	DRAFT R.C.T.	NORTHERN TERRITORY
	CHECKED	
	DATE November 1976	
	MICROFILMED	LOCATION MAP
	ROLL No.	
	MINING FIELD OR DISTRICT Mc ARTHUR	DRG. No. /





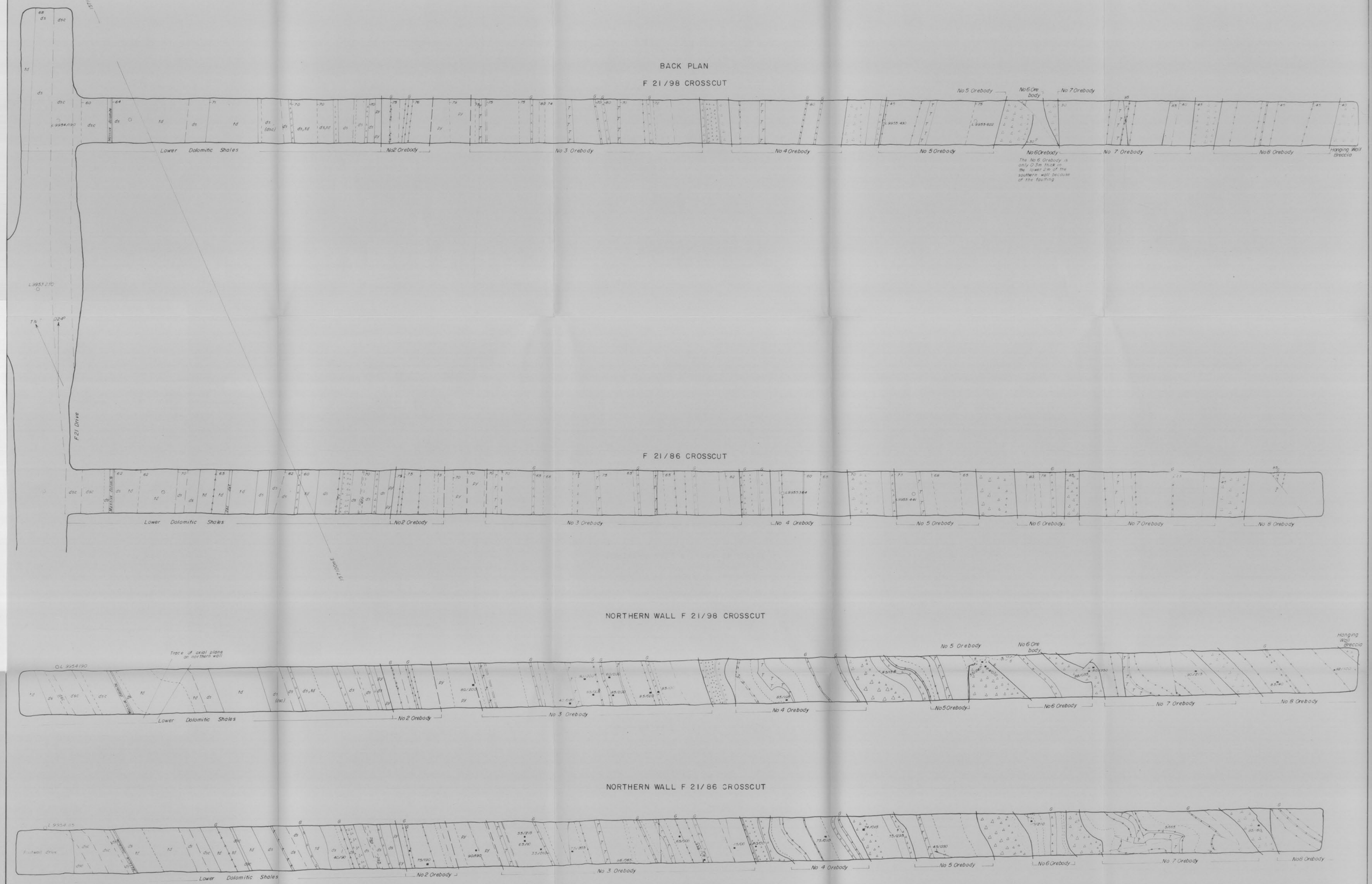
REVISION		SCALE: 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEO R.G.L.	Mc ARTHUR (NORTHERN TERRITORY)
		DRAFT.: R.F.	DIAMOND DRILL HOLE LOCATIONS
		CHECKED:	ON A.M.G. 1975 GRID
		DATE: November 1975	(H.Y.C. and some Ridge holes)
		MICROFILMED:	
		ROLL. Nº	
3 - 12 - 75	R.F.	MINING FIELD OR DISTRICT: Mc ARTHUR	DRG. Nº 14904

LEGEND

▭	Mineralized shale
Py	Pyritic shale
ds	Dolomitic shale (includes tuffaceous dolomite units)
T	Tuffaceous green shale, minor pink tuffaceous dolomite interbeds
Td	Pink tuffaceous dolomite
M	Massive dolomite
Tb	Thickly bedded dolomite
Me	Medium bedded dolomite
Ms	Saccharoidal dolomite
L	Laminated dolomite
Mrx	Recrystallized dolomite
△△	Breccia, graded beds
	Mudstone
	Geological boundary
	Transitional, geological boundary
	Fault
	Fault, probable strike only
	Trend of bedding
70/050	Dip/Dip azumith of bedding
• 80/210	Joints, dip/dip azumith
75	Dip of bedding or fault, back plan
60	Plunge of anticlinal axis
60	Plunge of synclinal axis
⊙	MIM survey peg

0 10 20 30 40 50
metres

REVISION	SCALE: 1:500	CARPENTARIA EXPLORATION COMPANY PTY LTD
	GEO J·N· R·L·	McARTHUR RIVER
	DRAWN: L·L·	HYC DEVELOPMENT ADIT
	CHECKED:	GEOLOGY
	DATE: October 1975	BACK PLAN
	MICROFILMED:	NORTHERN WALL OF DECLINE
	ROLL Nº:	
	MINING FIELD or DISTRICT: McArthur River	DRG. Nº: 11274



REVISION	SCALE 1:100	ARBENTARIA EXPLORATION COMPANY PTY. LTD.
	GEO. J.N./R.L.	McARTHUR RIVER
	DRAWN. L.L.	HYC DEVELOPMENT ADIT
	CHECKED	GEOLOGY
	DATE October 1975	F21/98, F21/86 CROSSCUTS
	MICROFILMED	BACK PLAN, SECTIONS
	ROLL No.	
	MINING FIELD or DISTRICT McArthur River	DRG. No. 11275

LEGEND

LOWER CRETACEOUS — KL

LOWER CAMBRIAN ? BUKALARA SANDSTONE — €Lb

PROTEROZOIC ?

McARTHUR GROUP

ROPER GROUP
- BESSIE CREEK SANDSTONE — Pre
- CORCORAN FORMATION — Prc
- ABNER SANDSTONE — Pra
- CRAWFORD FORMATION — Prr
- MAINORU FORMATION — Pru
- LIMMEN SANDSTONE — Pr

AMELIA DOLOMITE
- STOTT FORMATION — Pms
- SMYTHE SANDSTONE — Pmy

BATTEN SUB GROUP
- LOOKING GLASS FORMATION — Pmo
- STRETTON SANDSTONE — Pmr
- YALCO FORMATION — Pmj
- DONNEGAN MEMBER — Pmnd
- UPPER LYNOTT FORMATION — UL
- LOWER LYNOTT FORMATION — LL

BARNEY CK MEMBER
- REWARD DOLOMITE — Ud
- REWARD VOLCANICS — Udv
- UPPER BRECCIAS — Ubr
- SURPRISE CREEK DOLOMITE — Sc
- H.Y.C PYRITIC SHALE — Py
- BASAL TUFF BEDS — Bt
- LAMINATED DOLOMITE — Ld
- MITCHELL YARD DOLOMITE — M
- MARA TRANSITIONAL SERIES — Ts
- MARA DOLOMITE — Ma
- BASAL MARA DOLOMITE BRECCIA — Mb
- MYRTLE SHALE — Ms
- SLAB TOP DOLOMITE — St
- CATTLE CREEK BEDS — Cc
- MALLAPUNYAH FORMATION — Pml

TAWALLAH GROUP
- MASTERTON FORMATION — Ptn
- WOLLOGORANG FORMATION — Pro

GRANITIC INTRUSIONS — Ps

SILICIFICATION — CHERT

REFERENCE

GEOLOGICAL BOUNDARIES
- ESTABLISHED BOUNDARY – POSITION ACCURATE
- " " – POSITION APPROXIMATE
- INFERRED, PROBABLE BOUNDARY CONCEALED
- OUTCROP BOUNDARY
- SUB-OUTCROP BOUNDARY

BEDDING
- STRIKE AND DIP OF STRATA
- VERTICAL STRATA
- HORIZONTAL STRATA
- OVERTURNED STRATA

JOINTS
- STRIKE AND DIP OF JOINTS
- INCLINED
- VERTICAL
- HORIZONTAL

FOLDS
- ESTABLISHED ANTICLINAL AXIS POSITION ACCURATE
- " " " APPROXIMATE
- " SYNCLINAL " ACCURATE
- " " " APPROXIMATE

FAULTS
- ESTABLISHED FAULT POSITION ACCURATE
- " " " APPROXIMATE
- INFERRED "

- LEAD MINERALISATION — Pb
- ZINC " — Zn
- COPPER " — Cu
- MINE OR PROSPECT
- DIAMOND DRILL HOLE VERTICAL
- " " " INCLINED
- TRIG STATION
- MAIN ROAD
- VEHICLE TRACK
- LEASE BOUNDARY
- FENCE
- SHAFT
- COSTEAN
- PIT
- RIVER
- STREAM OR GULLY

DONNEGAN	EMU	
REWARD	H.Y.C.	
MITCHELL YD.	COXCO	

INDEX TO ADJOINING SHEETS

TRUE NORTH
MAG NORTH

APPROX SCALE.
1600' 0' 1600' 3200' 4800' 6400' 8000'

BASE MAP COMPILED FROM UNCONTROLLED AERIAL PHOTO MOSAICS
GEOLOGY FROM FIELD DATA

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL MAP OF H.Y.C.

(McArthur River Series)

	GEOL. J.ASHAW	DATE NOV. 1966
CHECKED	DRAWN: D.E.K.	2601

LEGEND

LOWER CRETACEOUS — Kl

LOWER CAMBRIAN ? BUKALARA SANDSTONE — Ꞓlb

PROTEROZOIC ?

McARTHUR GROUP

ROPER GROUP
- BESSIE CREEK SANDSTONE — Pre
- CORCORAN FORMATION — Pro
- ABNER SANDSTONE — Pro
- CRAWFORD FORMATION — Pr
- MAINORU FORMATION — Pru
- LIMMEN SANDSTONE — Pri

BATTEN-SUB GROUP
- STRETTON SANDSTONE — Pmr
- YALCO FORMATION — Pmj
- DONNEGAN MEMBER — Pmnd
- UPPER LYNOTT FORMATION — UL
- LOWER LYNOTT FORMATION — LL

AMELIA DOLOMITE
- REWARD DOLOMITE — Rd
- REWARD VOLCANICS — Rdv
- UPPER BRECCIAS — Ubr

BARNEY CK MEMBER
- SURPRISE CREEK DOLOMITE — Sc
- H.Y.C. PYRITIC SHALE — Py
- BASAL TUFF BEDS — Bt
- LAMINATED DOLOMITE — Ld
- MITCHELL YARD DOLOMITE — Mi
- MARA TRANSITIONAL SERIES — Ts
- MARA DOLOMITE — Ma
- BASAL MARA DOLOMITE BRECCIA — Mb
- MYRTLE SHALE — Ms
- SLAB TOP DOLOMITE — St
- CATTLE CREEK BEDS — Cc
- MALLAPUNYAH FORMATION — Pml

TAWALLAH GROUP
- MASTERTON FORMATION — Ptn
- WOLLOGORANG FORMATION — Pto

GRANITIC INTRUSIONS — Ps

SILICIFICATION — CHERT

REFERENCE

GEOLOGICAL BOUNDARIES

ESTABLISHED BOUNDARY — POSITION ACCURATE

— POSITION APPROXIMATE

INFERRED, PROBABLE BOUNDARY CONCEALED

OUTCROP BOUNDARY

SUB-OUTCROP BOUNDARY

BEDDING

STRIKE AND DIP OF STRATA — 25

VERTICAL STRATA

HORIZONTAL STRATA

OVERTURNED STRATA — 72

JOINTS

STRIKE AND DIP OF JOINTS

INCLINED — 25

VERTICAL

HORIZONTAL

FOLDS

ESTABLISHED ANTICLINAL AXIS POSITION ACCURATE

" " " " APPROXIMATE

" SYNCLINAL " " ACCURATE

" " " " APPROXIMATE

FAULTS

ESTABLISHED FAULT POSITION ACCURATE

" " " APPROXIMATE

INFERRED "

LEAD MINERALISATION — Pb.

ZINC " — Zn.

COPPER " — Cu.

MINE OR PROSPECT

DIAMOND DRILL HOLE VERTICAL

" " " INCLINED — 60°

TRIG STATION

MAIN ROAD

VEHICLE TRACK

LEASE BOUNDARY

FENCE

SHAFT

COSTEAN

PIT

RIVER

STREAM OR GULLY

LOOKING GLASS	DONNEGAN	EMU
BUFFALOO LAGOON	REWARD	H.Y.C.
ROCKY YARD	MITCHELL YARD	COXCO

INDEX TO ADJOINING SHEETS

TRUE NORTH
MAG. NORTH

APPROX SCALE.

1600' 0' 1600' 3200' 4800' 6400' 8000'

BASE MAP IS COMPILED FROM UNCONTROLLED AIR PHOTO MOSIACS. GEOLOGY PLOTTED FROM FIELD DATA.

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

GEOLOGICAL MAP OF REWARD

(McArthur River Series)

	GEOL. J.A.SHAW	DATE MAY 1966
CHECKED	DRAWN. D.E.K.	2606

LEGEND

New C.E.C. and B.M.R. nomenclature			Old C.E.C. and B.M.R. nomenclature	
			LOWER CRETACEOUS	KL
			LOWER CAMBRIAN? BUKALARA SANDSTONE	Clb
ROPER GROUP			BESSIE CREEK SANDSTONE	Pre
			CORCORAN FORMATION	Pro
			ABNER SANDSTONE	Pra
			CRAWFORD FORMATION	Prr
			MAINORU FORMATION	Pru
			LIMMEN SANDSTONE	Pri
McARTHUR GROUP	BATTEN SUB-GROUP	DUNGAMINNIE FORMATION		
			BALBIRINI DOLOMITE	Pmb
		AMOS FORMATION (Pmm)		
			STOTT FORMATION	Pms
			SMYTHE SANDSTONE	Pmy
			LOOKING GLASS FORMATION	Pmo
			STRETTON SANDSTONE	Pmr
			YALCO FORMATION	Pmj
			DONNEGAN MEMBER	Pmnd
		LYNOTT FORMATION (Pmn)	UPPER LYNOTT FORMATION	UL
			LOWER LYNOTT FORMATION	LL
	BULBURRA SUB-GROUP	REWARD DOLOMITE (Rd)	REWARD DOLOMITE	Rd
			REWARD VOLCANICS	Rdv
			UPPER BRECCIAS	Ubr
			SURPRISE CREEK DOLOMITE	Sc
		BARNEY CREEK FORMATION: H.Y.C. MEMBER	H.Y.C. PYRITIC SHALE	Py
		BARNEY CREEK FORMATION: (COOLEY MEMBER)	BASAL TUFF BEDS	Bt
		BARNEY CREEK FORMATION: TEENA DOLOMITE MEMBER	LAMINATED DOLOMITE	Ld
		BARNEY CREEK FORMATION: MITCHELL YARD MEMBER	MITCHELL YARD DOLOMITE	Mi
	BAUHINIA DOWNS SUB-GROUP	EMMERUGGA DOLOMITE	MARA TRANSITIONAL SERIES	Ts
			MARA DOLOMITE	Mo
			BASAL MARA DOLOMITE BRECCIA	Mb
		MYRTLE SHALE MEMBER (LEILA SANDSTONE MEMBER) (Pmi)	MYRTLE SHALE	Ms
		TOOGANINIE FORMATION	SLAB TOP DOLOMITE	St
		TATOOLA SANDSTONE (Pmd)	CATTLE CREEK BEDS	Cc
		AMELIA DOLOMITE (Pma)		
			MALLAPUNYAH FORMATION	Pml
TAWALLAH GROUP			MASTERTON FORMATION	Ptn
			WOLLOGORANG FORMATION	Pto
			ROSIE CREEK SANDSTONE	Ptr
			SLY CREEK SANDSTONE	Ptl
			PETER'S CREEK VOLCANICS	Ptp
			GRANITIC INTRUSIONS	Ps
			SILICIFICATION	
			CHERT	

REFERENCE

GEOLOGICAL BOUNDARIES
- ESTABLISHED BOUNDARY – POSITION ACCURATE
- " " – POSITION APPROXIMATE
- INFERRED, PROBABLE BOUNDARY CONCEALED
- OUTCROP BOUNDARY
- SUB-OUTCROP BOUNDARY

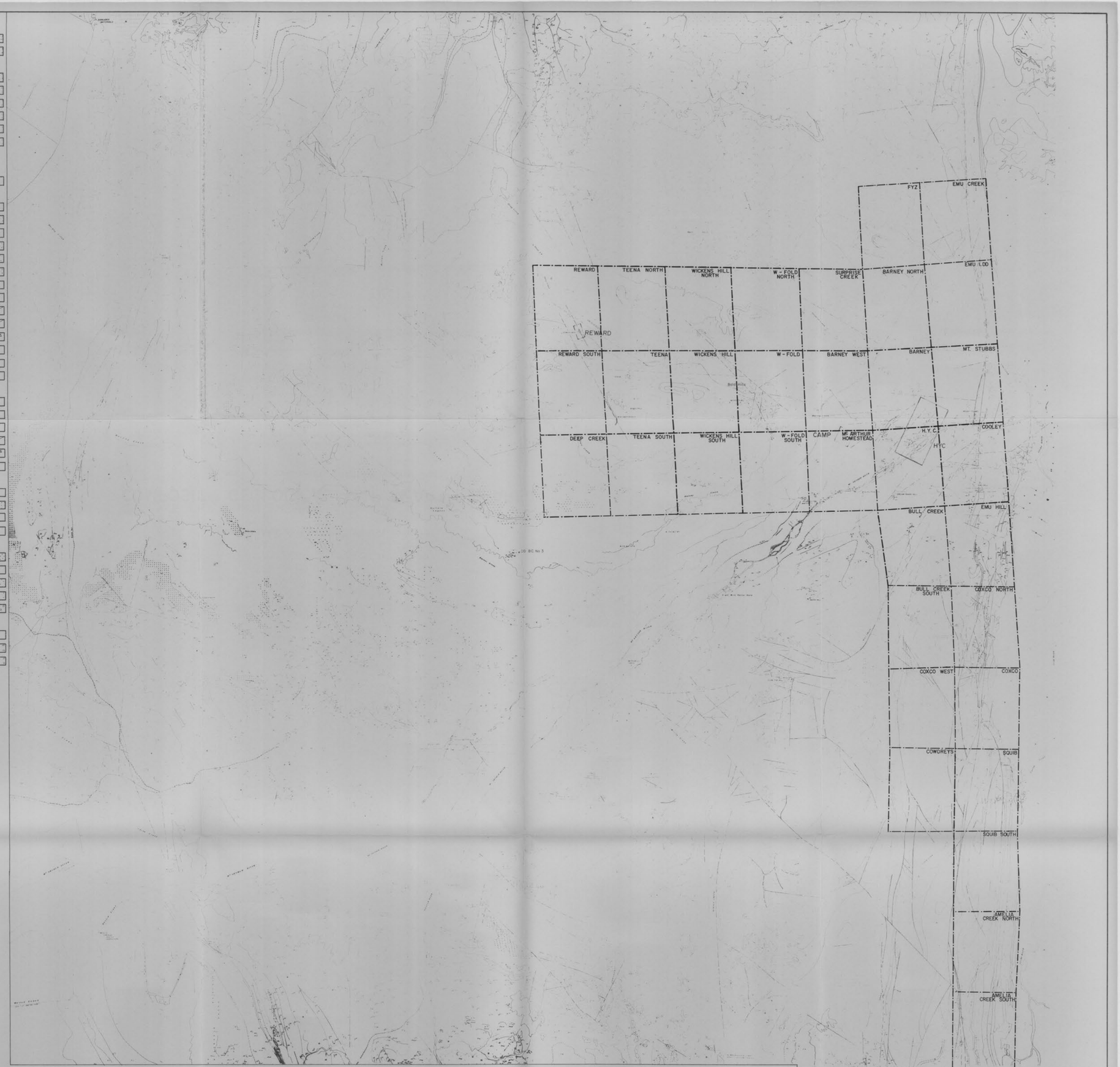
BEDDING
- STRIKE AND DIP OF STRATA
- VERTICAL STRATA
- HORIZONTAL STRATA
- OVERTURNED STRATA

JOINTS
- STRIKE AND DIP OF JOINTS
- INCLINED
- VERTICAL
- HORIZONTAL

FOLDS
- ESTABLISHED ANTICLINAL AXIS POSITION ACCURATE
- " " " " APPROXIMATE
- " SYNCLINAL " " ACCURATE
- " " " " APPROXIMATE

FAULTS
- ESTABLISHED FAULT POSITION ACCURATE
- " " " APPROXIMATE
- INFERRED "

- LEAD MINERALISATION — Pb
- ZINC " — Zn
- COPPER " — Cu
- MINE OR PROSPECT
- DIAMOND DRILL HOLE VERTICAL
- " " " INCLINED
- TRIG STATION
- MAIN ROAD
- VEHICLE TRACK
- LEASE BOUNDARY
- FENCE
- SHAFT
- COSTEAN
- PIT
- RIVER
- STREAM OR GULLY



INDEX TO COMPOSITE MAP

HOT SPRINGS	LOOKING GLASS	DONNEGAN	EMU
BARNEY	BUFFALO LAGOON	REWARD	H.Y.C.
LEILA	ROCKY YARD	MITCHELL YARD	COXCO
ABNER	KILGOUR	MYRTLE	AMELIA
			MASSACRE HILL

16°30'

136°

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

COMPOSITE GEOLOGICAL MAP McARTHUR AREA

INDEX TO 1:5000 SHEETS McARTHUR DETAILED SERIES

Photographically reduced from 1"=600' McArthur series
Base maps compiled from uncontrolled aerial photographs
Geology from field data

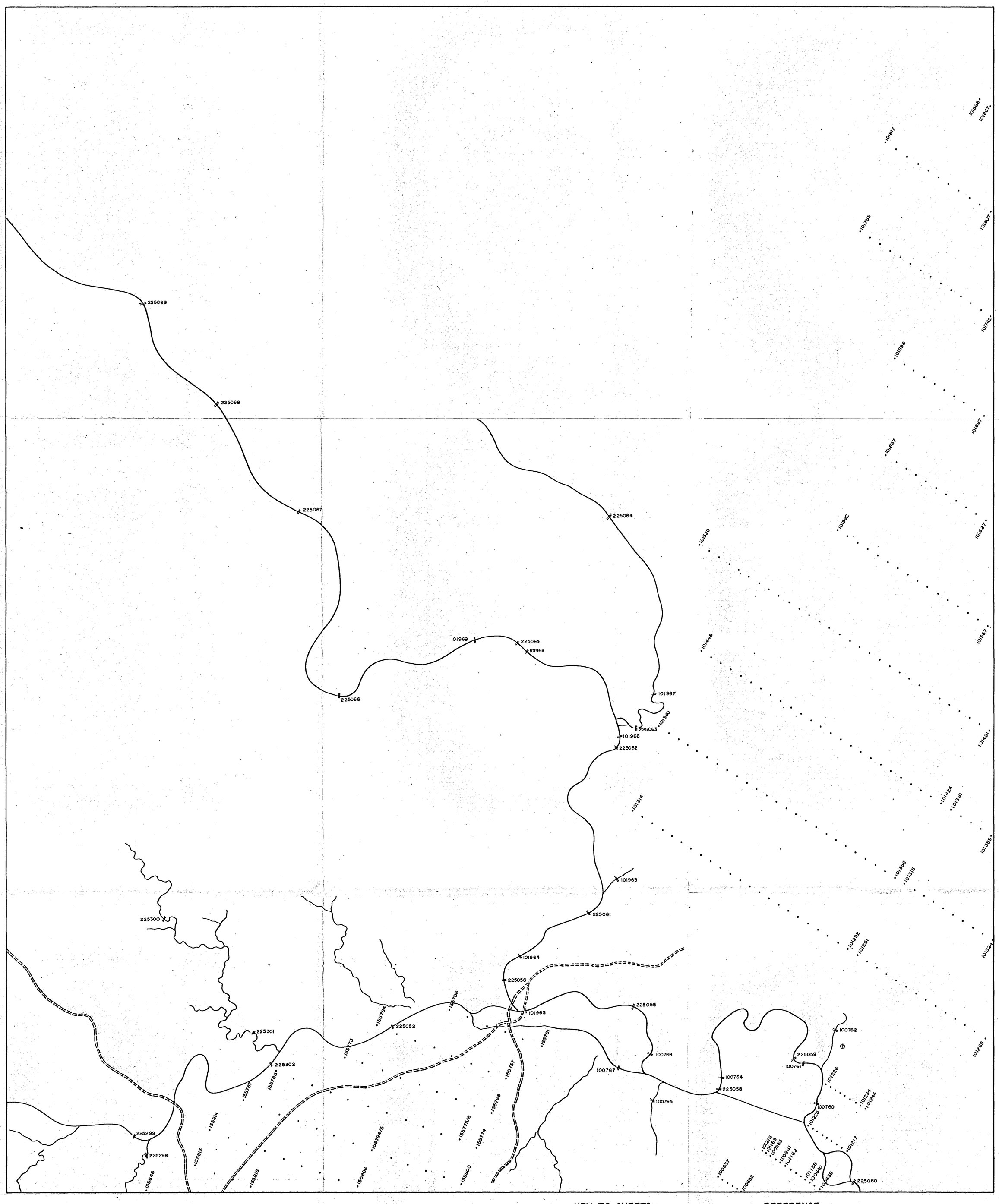
0 1M 2M 3M 4M 5M

SCALE 1 : 62 500 ±

LOCALITY MAP

GEOL: J.S.-D.M.-J.J.-A.R.-F.S.-C.A. DRAWN: D.K.-L.E.-G.Y. DATE: APRIL 1968.

19026



KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu I.D.D.
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt. Stubbs
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	H.Y.C.	Cooley
					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

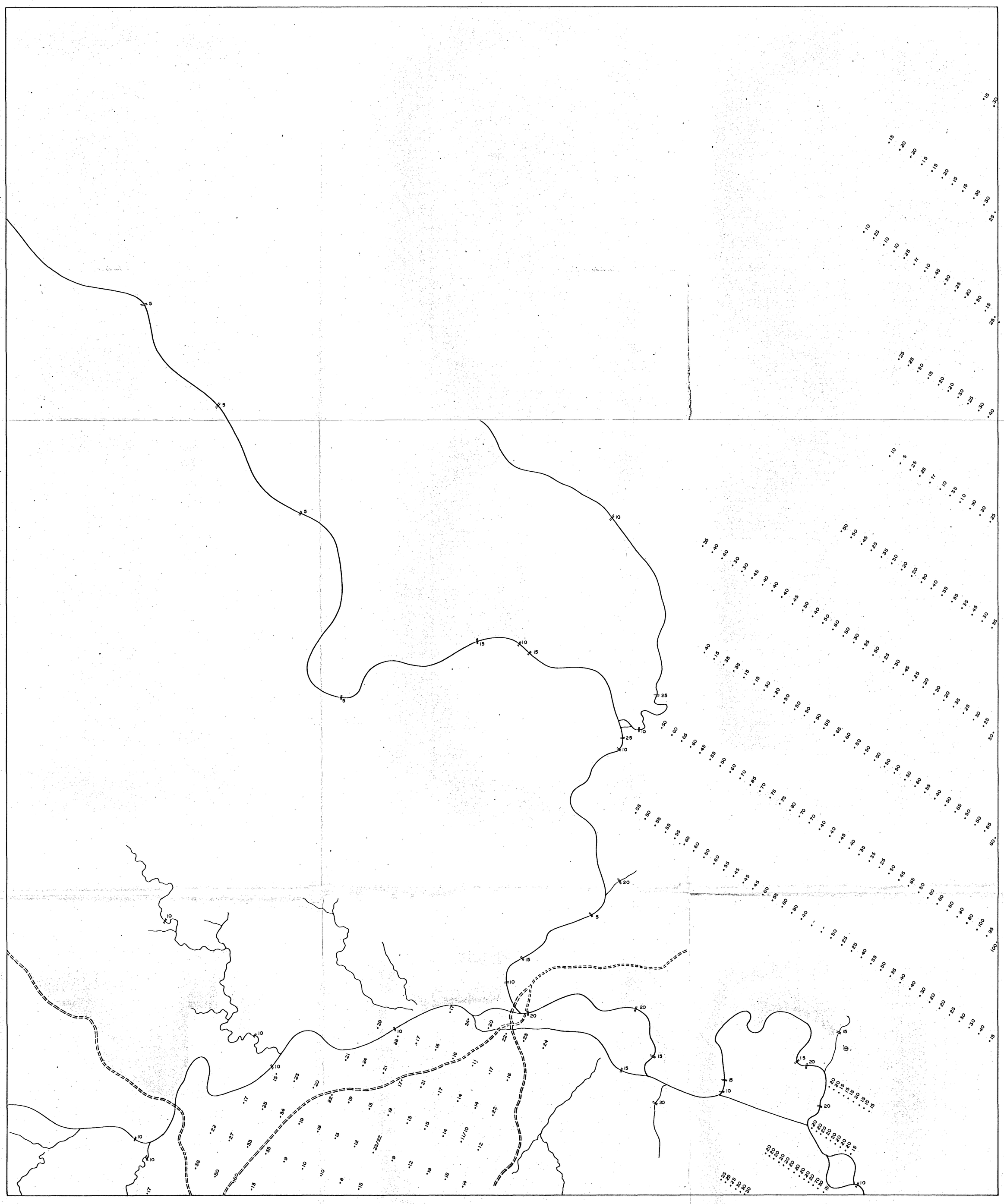
17°
Magnetic North

REFERENCE

- Road
- Vehicle Track
- W.H. Waterhole
- Photo centre
- Trigonometrical Station
- Photo control point
- Soil sample location
- Stream sediment sample location
- Diamond drillhole
- Percussion drillhole
- Surveyed baseline
- Steel peg (B.M.R. Electromagnetic survey 1963)
- X B.M.R. Auger sample
- Costean
- B.M.R. auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE: 1:5 000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.: N.R.	McARTHUR DETAILED SERIES (NORTHERN TERRITORY) BARNEY GEOCHEMICAL SAMPLING LOCATIONS
		DRAFT: B.W.P.	
		CHECKED	
		DATE: July 1976	
		MICROFILMED	
		ROLL Nº	
Sept. 28-'76	B.W.P.	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. Nº 18545



KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt Stubbs
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	H.Y.C.	Cooley
					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

17°
Magnetic North

REFERENCE

- Road
- Vehicle Track
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- Trigonometrical Station
- Photo control point
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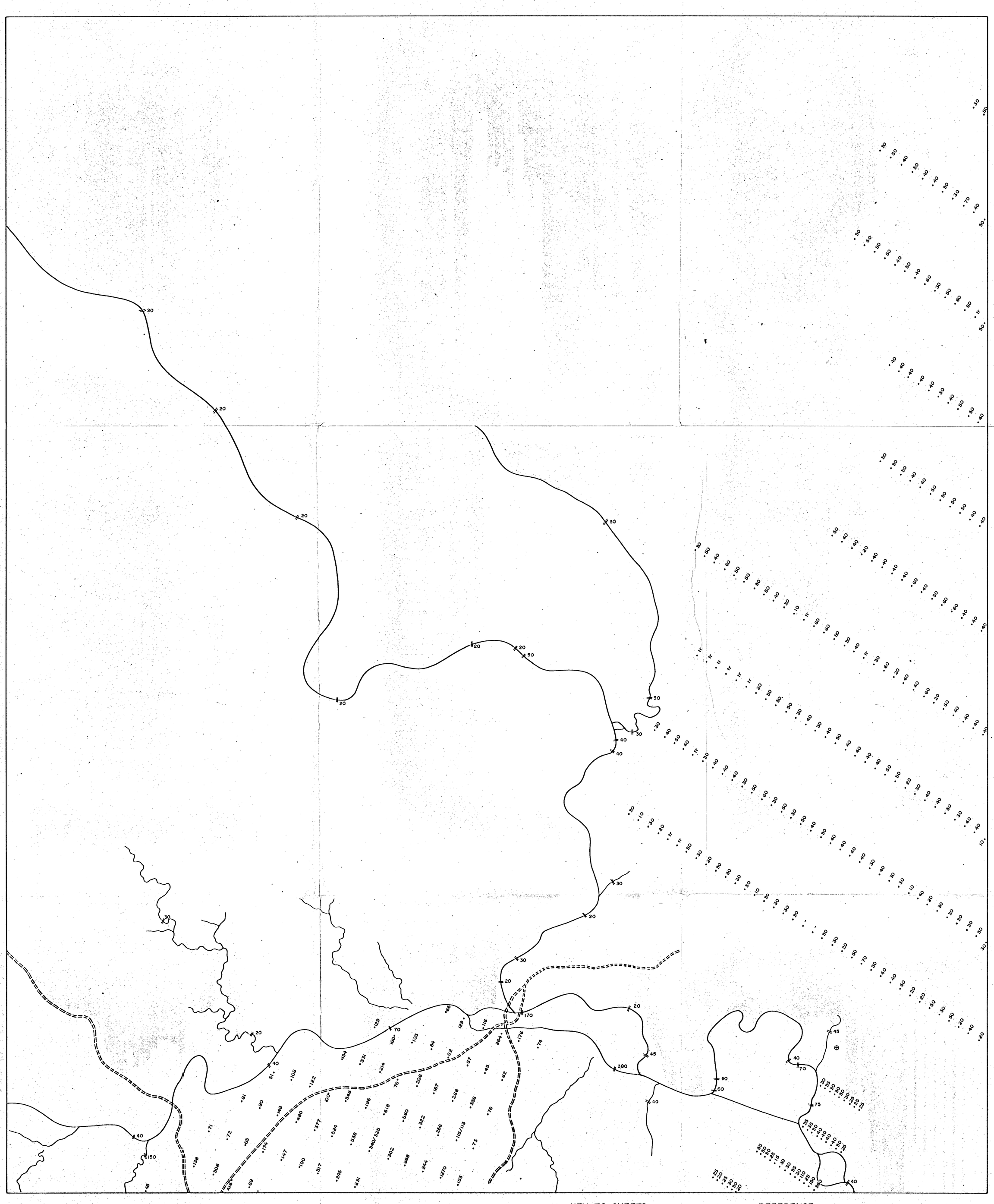
- Stream sediment sample location
- Diamond drillhole
- Percussion drillhole
- Surveyed baseline
- Steel peg (B.M.R. Electromagnetic survey 1963)
- X B.M.R. Auger sample
- Costean
- B.M.R. auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.: N.R.	McARTHUR DETAILED SERIES
		DRAFT B.W.P.	(NORTHERN TERRITORY)
		CHECKED	BARNEY
		DATE July 1976	GEOCHEMICAL SAMPLING
		MICROFILMED	COPPER
		ROLL Nº	
Sept. 28-76	B.W.P.	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. Nº 18546



KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt Stubbs
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	H.Y.C.	Cooley
					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

17°
Magnetic North

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- Photo control point
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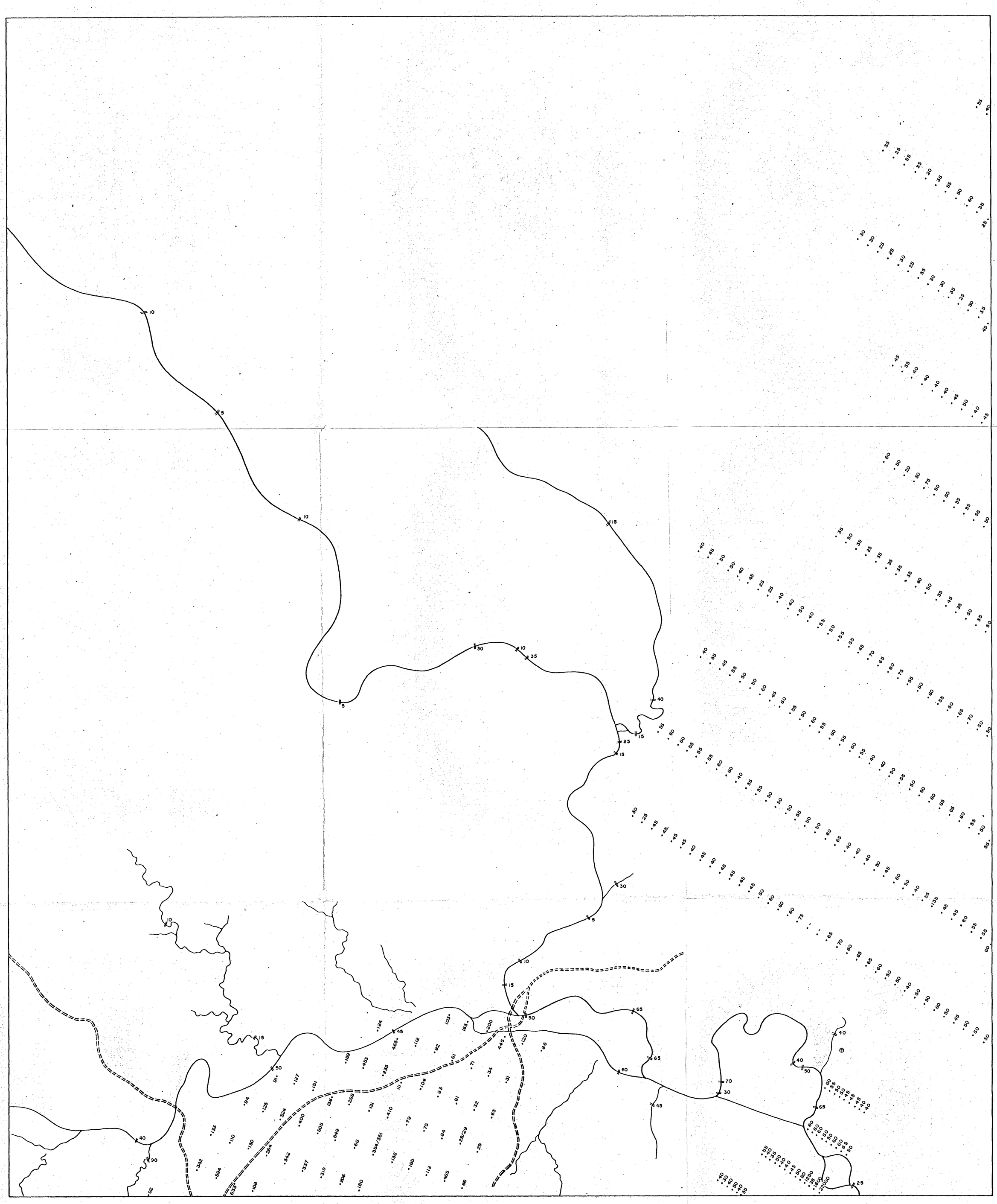
- X B.M.R. Auger sample
- Costean
- BMR auger drilling geochemical contours
- CEC soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.: N.R.	McARTHUR DETAILED SERIES
		DRAFT B.W.P.	(NORTHERN TERRITORY)
		CHECKED	BARNEY
		DATE July 1976	GEOCHEMICAL SAMPLING
		MICROFILMED	LEAD
		ROLL No.	
Sept. 28-'76	B.W.P.	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. No 18547



KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt Stubbs
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					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

17° Magnetic North

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- Stream sediment sample location
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- Percussion drillhole
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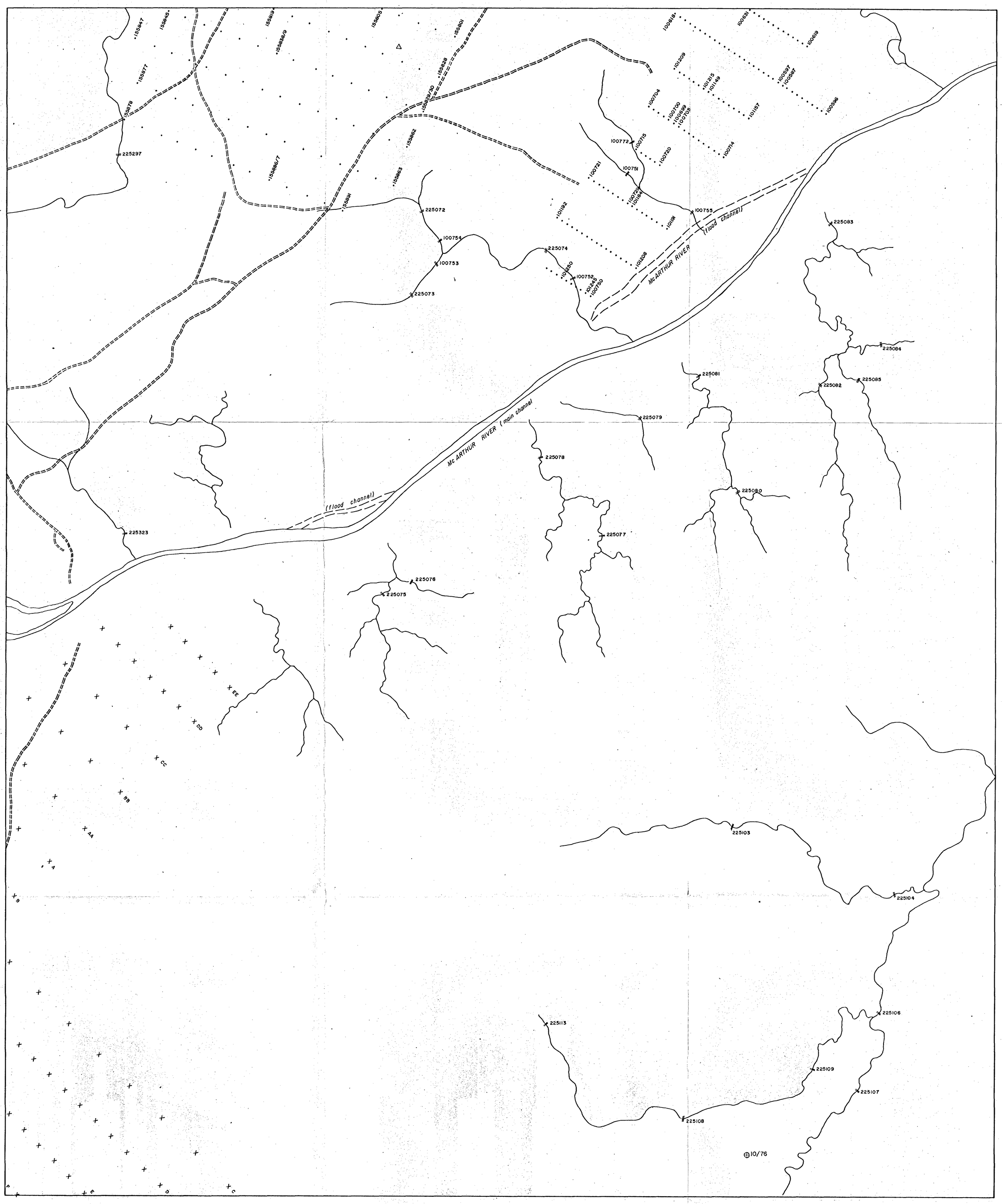
- X B.M.R. Auger sample
- Costean
- B.M.R. auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.: N.R.	McARTHUR DETAILED SERIES (NORTHERN TERRITORY) BARNEY GEOCHEMICAL SAMPLING ZINC
		DRAFT B.W.P.	
		CHECKED	
		DATE July 1976	
		MICROFILMED	
		ROLL Nº	
Sept. 28-'76	B.W.P.	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. Nº 18548



KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu I.D.D.
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt. Stubbs
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					Bull Creek	Emu Hill.
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

17° Magnetic North

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- X B.M.R. Auger sample
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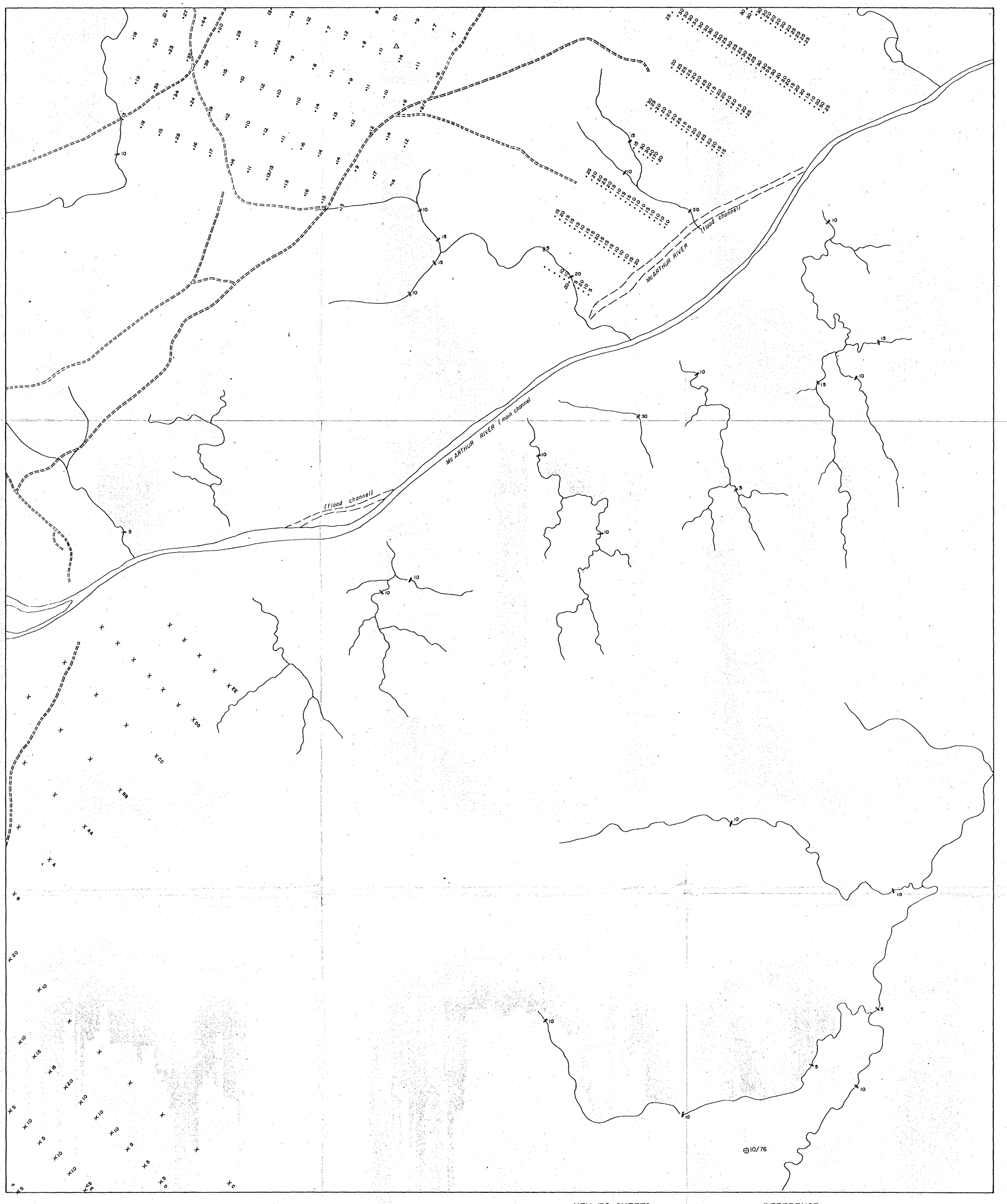
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE: 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.: N.R.	McARTHUR DETAILED SERIES (NORTHERN TERRITORY)
		DRAFT: B.W.P.	H. Y. C.
		CHECKED:	GEOCHEMICAL SAMPLING LOCATIONS
		DATE: July 1976	
		MICROFILMED:	
		ROLL Nº	
Sept. 28-76	B.W.P.	MINING FIELD OR DISTRICT: McArthur Gold and Mineral Field N.T.	DRG. Nº 18549



KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Borney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Borney West	Borney	Mt. Stubbs
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					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

17° Magnetic North

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- □ Steel peg (B.M.R. Electromagnetic survey 1963)
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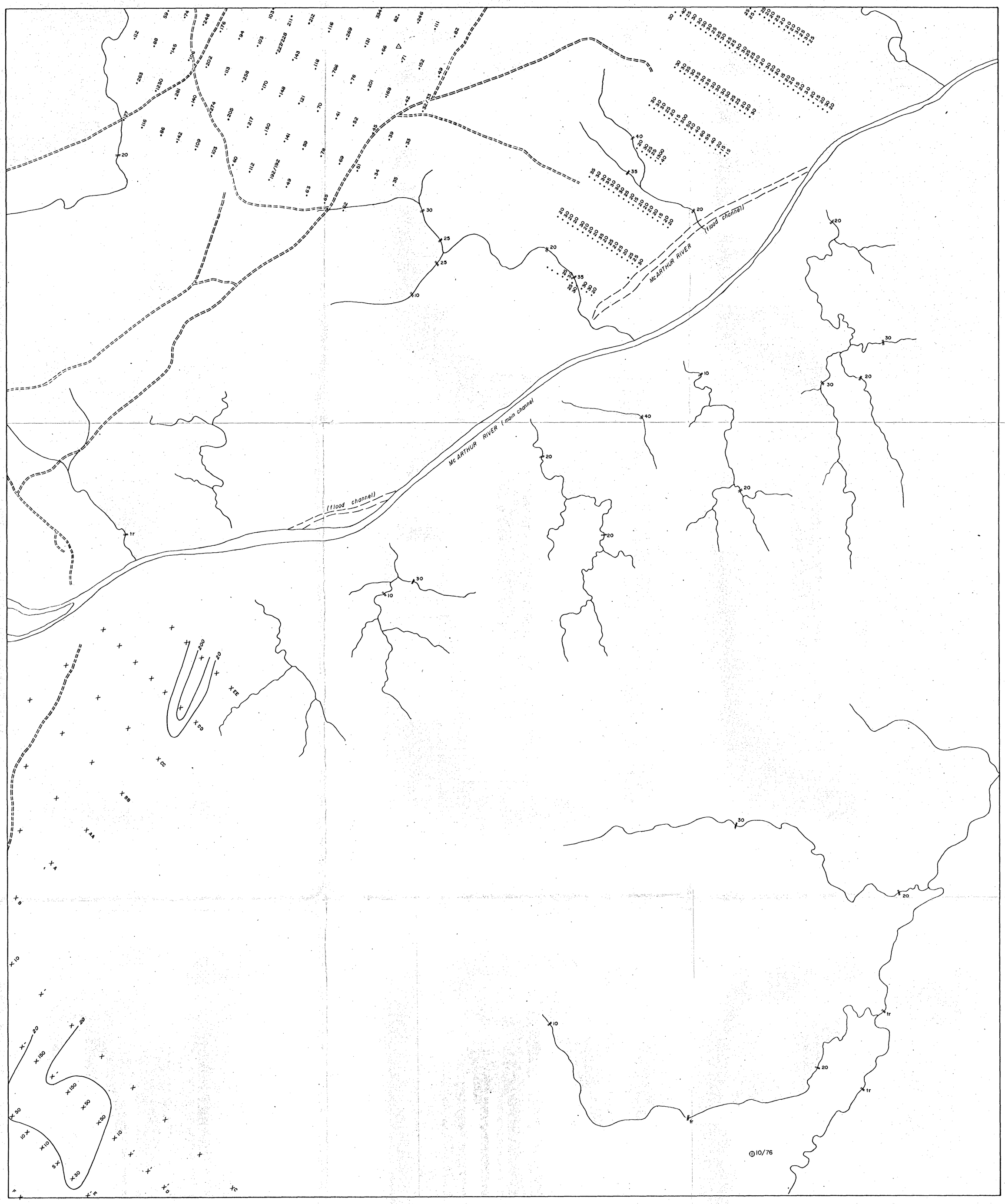
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL. N.R.	McARTHUR DETAILED SERIES
		DRAFT B.W.P.	(NORTHERN TERRITORY)
		CHECKED	H.Y.C.
		DATE July 1976	GEOCHEMICAL SAMPLING
		MICROFILMED	COPPER
		ROLL Nº	
Sept 28-'76	B.W.P.	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. Nº 18550



KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
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					Coxco West	Coxco
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						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

17° Magnetic North

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- Costean
- BMR auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.: N.R.	McARTHUR DETAILED SERIES (NORTHERN TERRITORY) H.Y.C. GEOCHEMICAL SAMPLING LEAD
		DRAFT B.W.P.	
		CHECKED	
		DATE July 1976	
		MICROFILMED	
		ROLL N°	
Sept. 28-'76	B.W.P.	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. N° 18551

McARTHUR RIVER (flood channel)

McARTHUR RIVER (main channel

(flood channel)

⊕10/76

KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt Stubbs
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					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

17° Magnetic North

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- CEC soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL. N.R.	McARTHUR DETAILED SERIES (NORTHERN TERRITORY) H.Y.C. GEOCHEMICAL SAMPLING ZINC
		DRAFT B.W.P.	
		CHECKED	
		DATE July 1976	
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		ROLL No	
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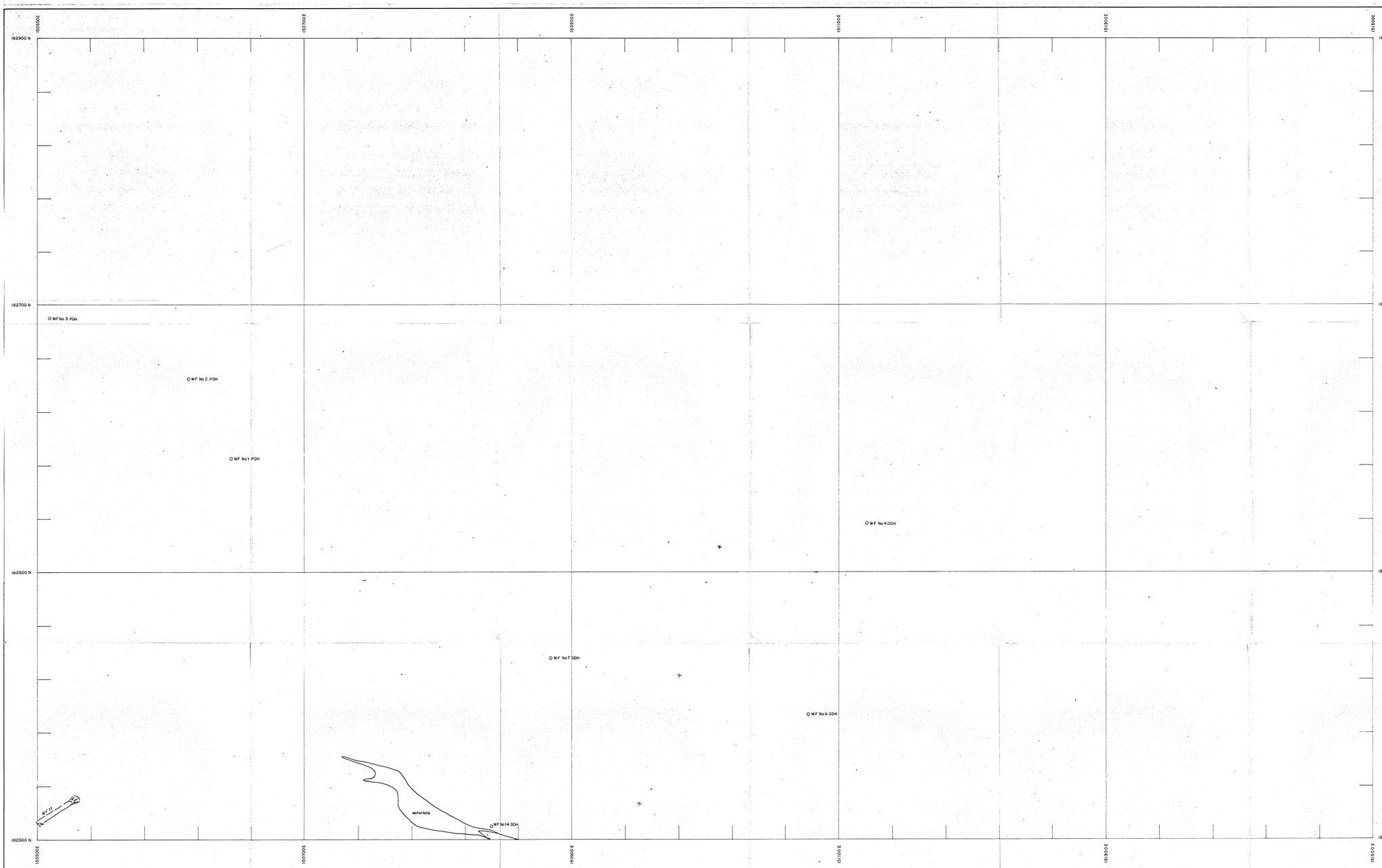


LEGEND

- Py — H.Y.C. Pyritic Shales
- LDs — Lower Dolomitic Shale
- Ws — W-Fold Shale Member
- Ld-co — Teena Dolomite - Cosco Member
- Ld — Teena Dolomite grit marker
- EMMEKUGGA DOLOMITE: Mi — Mitchell Yard Dolomites
- EMMEKUGGA DOLOMITE: Mo — Moro Dolomite
- Shale
- Dolomite, massive
- Dolomite, laminated
- Dolomitic tuffaceous mudstone
- Dolomitic siltstone
- Dolomitic nodules
- Silicification
- Trigonometrical station
- Road
- Steel peg cemented
- Steel peg cemented, surveyed
- Wh3DDH (1973) — Diamond Drill Hole - showing horizontal projection
- WF5RDH (1970) — Rotary Drill Hole
- Costean
- Outcrop
- Contact established
- Contact inferred
- Trend line
- Fault, position approx.
- Fault, position inferred
- 30 — Strata inclined
- Strata overturned
- Anticline
- Syncline
- Plunge of minor anticline
- Plunge of minor syncline

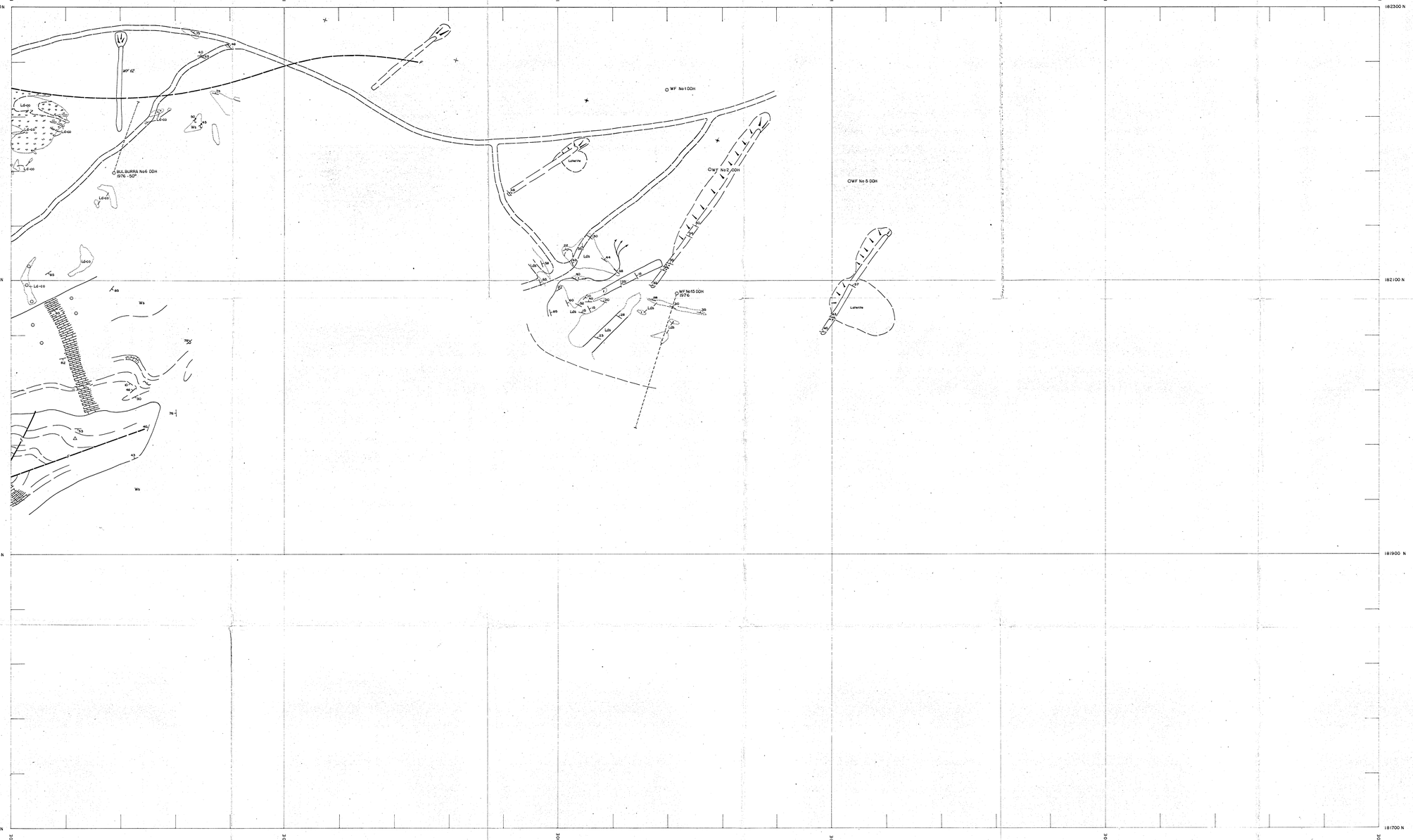
KEY TO ADJOINING SHEETS

10/495/829	10/505/829	10/515/829
10/495/823		10/515/823
10/495/817	10/505/817	10/515/817

GRID
359°34'38.1"
AT BARNEY HILL TRIG.

20 0 20 40 60 80 100
METRES

REVISION		SCALE: 1:1000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEO: J.J.	Mc ARTHUR STANDARD METRIC SERIES
		DRAFT: S.W.P.	
		CHECKED:	SURFACE GEOLOGY
		DATE: 8/76	SHEET 10/505/823
		MICROFILMED:	
		ROLL Nº	
		MINING FIELD OR DISTRICT: McARTHUR RIVER	DRG Nº 18618



LEGEND

Py	H.Y.C. Pyritic Shales
Ldk	Lower Dolomitic Shale
Ws	W-Fold Shale Member
Ld-co	Teena Dolomite - Cosco Member
Ld	Teena Dolomite grit marker
Mr	Mitchell Yard Dolomites (EMMERUGGA DOLOMITE)
Mg	Mara Dolomite (EMMERUGGA DOLOMITE)
	Shale
	Dolomite, massive
	Dolomite, laminated
	Dolomitic tuffaceous mudstone
	Dolomitic siltstone
	Dolomitic nodules
	Silicification
△	Trigonometrical station
	Road
×	Steel peg cemented
×	Steel peg cemented, surveyed
WM3DDH (1973)	Diamond Drill Hole - showing horizontal projection
WF3RDH (1970)	Rotary Drill Hole
	Costean
	Outcrop
	Contact established
	Contact inferred
	Trend line
	Fault, position approx.
	Fault, position inferred
30	Strata inclined
30	Strata overturned
	Anticline
	Syncline
	Plunge of minor anticline
	Plunge of minor syncline

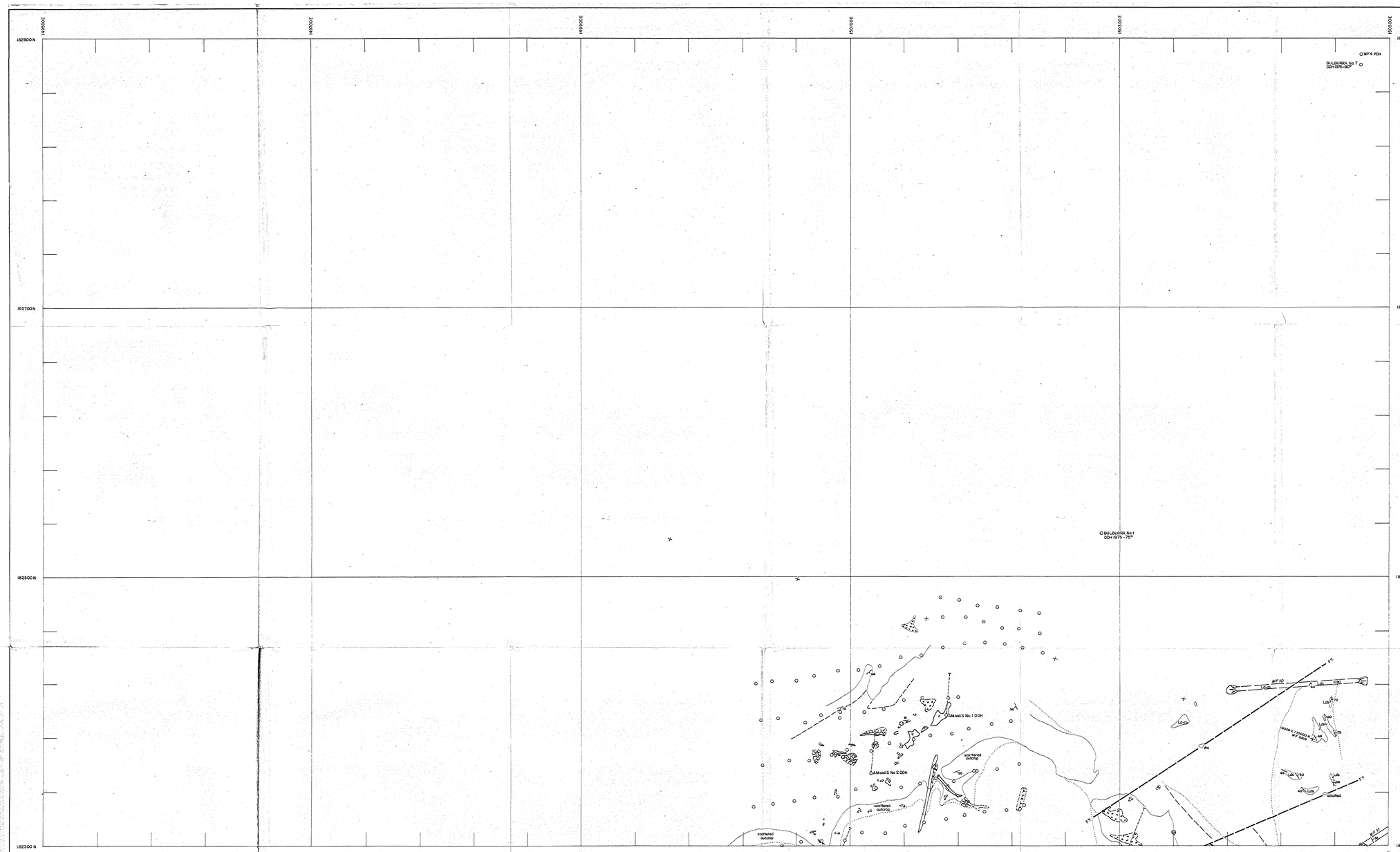
KEY TO ADJOINING SHEETS

10/495/823	10/505/823	10/515/823
10/495/817		10/515/817
10/495/811	10/505/811	10/515/811

GRID
35°54'30.2"
AT BARNEY HILL TRIG.

20 0 20 40 60 80 100
METRES

REVISION		SCALE: 1:1000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEO: J.J.	Mc ARTHUR
		DRAFT: B.W.P.	STANDARD METRIC SERIES
		CHECKED:	SURFACE GEOLOGY
		DATE: 8/76	SHEET 10/505/817
		MICROFILMED:	
		ROLL Nº	
		MINING FIELD OR DISTRICT: McARTHUR RIVER	DRG Nº 18619



LEGEND

Py	H.Y.C. Pyritic Shales
Lb	Lower Dolomitic Shale
Wh	W-Fold Shale Member
Lb-co	Teena Dolomite - Cosco Member
Lf	Teena Dolomite grit marker
Mi (EMMERUGGA DOLOMITE)	Mitchell Yard Dolomites
Mo (EMMERUGGA DOLOMITE)	Moro Dolomite
	Shale
	Dolomite, massive
	Dolomite, laminated
	Dolomitic tuffaceous mudstone
	Dolomitic siltstone
	Dolomitic nodules
	Silicification
	Trigonometrical station
	Road
	Steel peg cemented
	Steel peg cemented, surveyed
WH3DDH (1973)	Diamond Drill Hole - showing horizontal projection
WF5RDH (1970)	Rotary Drill Hole
	Costean
	Outcrop
	Contact established
	Contact inferred
	Trend line
	Fault, position approx.
	Fault, position inferred
30	Strata inclined
	Strata overturned
	Anticline
	Syncline
	Plunge of minor anticline
	Plunge of minor syncline

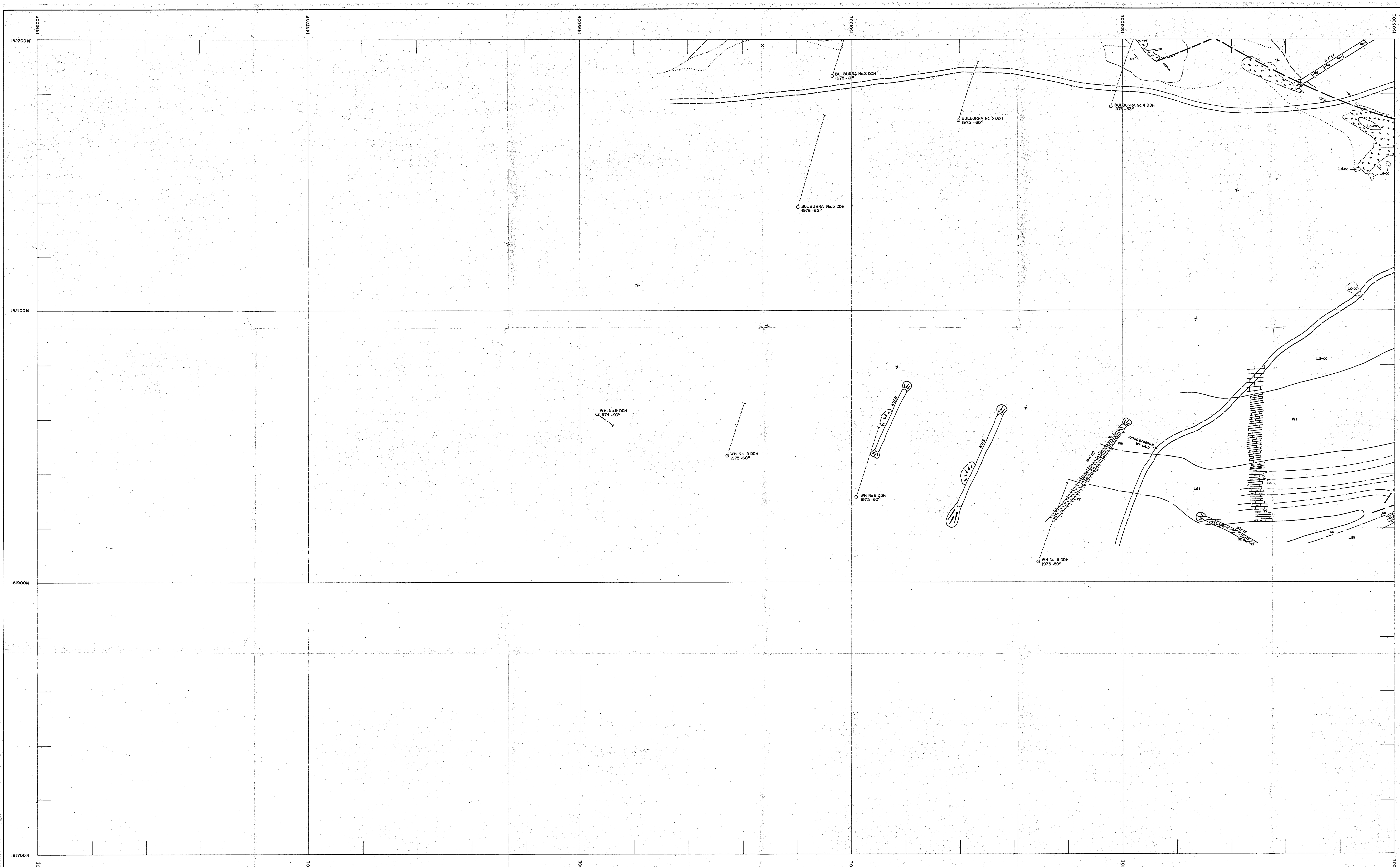
KEY TO ADJOINING SHEETS

10/465/829	10/495/829	10/505/829
10/465/823		10/505/823
10/465/817	10/495/817	10/505/817

GRID
309°34'30.1"
AT BARNEY HILL TRIG.

20 0 20 40 60 80 100
METRES

REVISION			CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		SCALE: 1:1000	McARTHUR STANDARD METRIC SERIES
		GEO: J.J.	
		DRAFT: B.W.P.	SURFACE GEOLOGY
		CHECKED:	SHEET 10/495/823
		DATE: 8/76	
		MICROFILMED:	
		ROLL Nº	
		MINING FIELD OR DISTRICT: McARTHUR RIVER	DRG. Nº 18620



LEGEND

Py	H.Y.C. Pyritic Shales
Lds	Lower Dolomitic Shale
Ws	W-Fold Shale Member
Ld-co	Teena Dolomite - Coxco Member
Ld	Teena Dolomite grit marker
EMMERUGGA DOLOMITE — Mi	Mitchell Yard Dolomites
EMMERUGGA DOLOMITE — Ma	Mara Dolomite
	Shale
	Dolomite, massive
	Dolomite, laminated
	Dolomitic tuffaceous mudstone
	Dolomitic siltstone
	Dolomitic nodules
	Silicification
△	Trigonometrical station
	Road
×	Steel peg cemented
	Steel peg cemented, surveyed
WH3DDH (1973)	Diamond Drill Hole - showing horizontal projection
WF5RDH (1970)	Rotary Drill Hole
	Costean
	Outcrop
	Contact established
-?-?-	Contact inferred
	Trend line
—F—	Fault, position approx.
-?-F-?-	Fault, position inferred
30	Strata inclined
	Strata overturned
	Anticline
	Syncline
	Plunge of minor anticline
	Plunge of minor syncline

20 0 20 40 60 80 100
METRES

KEY TO ADJOINING SHEETS

10/485/823	10/495/823	10/505/823
10/485/817		10/505/817
10/485/811	10/495/811	10/505/811

GRID
359°34'32.1"
AT BARNEY HILL TRIG.

REVISION	SCALE: 1:1000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
	GEO J.J.	McARTHUR STANDARD METRIC SERIES
	DRAFT: B.W.P.	
	CHECKED:	
	DATE: 8/76	SURFACE GEOLOGY SHEET 10/495/817
	MICROFILMED:	
	ROLL Nº	
	MINING FIELD OR DISTRICT: McARTHUR RIVER	DRG. Nº 18621

CARPENTARIA EXPLORATION COMPANY PTY. LTD.

MINING TENEMENT

PROGRESS REPORT

OPEN FILE

EXPLORATION LICENCE NO.598 "BARNEY HILL", N.T.

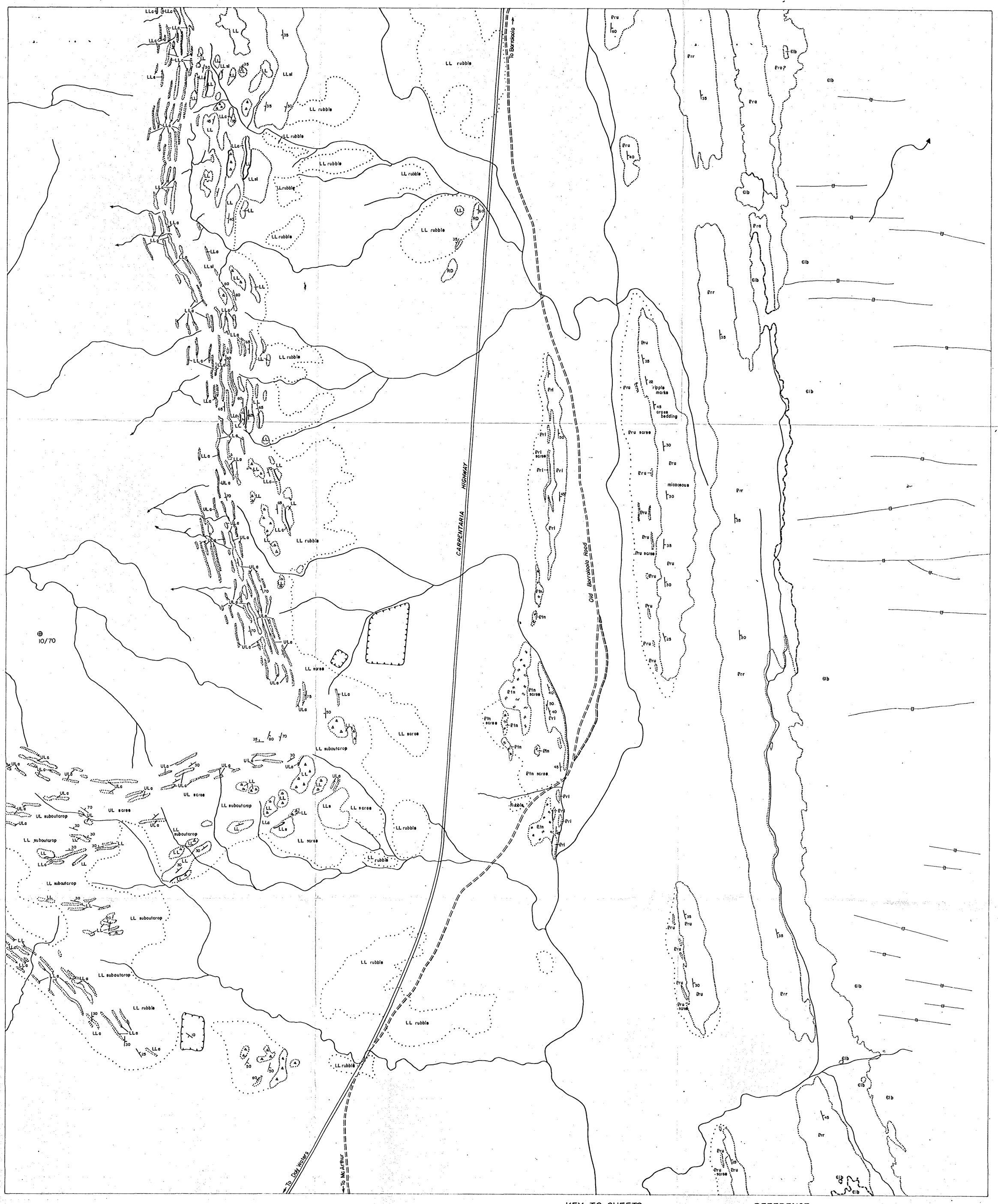
ANNUAL REPORT FOR YEAR ENDED SEPTEMBER 19, 1976.

PLANS TO ACCOMPANY

MINES BRANCH
GEOLOGICAL LIBRARY

DATE: November 24, 1976.

COPY: Department of the Northern Territory



LEGEND

UL	UPPER LYNOTT FORMATION
LL	LOWER LYNOTT FORMATION
RD	REWARD DOLOMITE
Ꝑru	MAINORU FORMATION
Ꝑrr	CRAWFORD FORMATION
Ꝑra	ABNER FORMATION
Ꝑro	CORCORAN FORMATION
Ꝑri	LIMMEN SANDSTONE
Ꝑtn	MASTERTON FORMATION
Ꞓlb	BUKALARA SANDSTONE

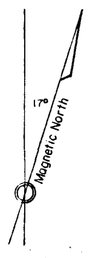
SUBSCRIPTS

ss	Sandstones
sl	Siltstones
c	Chert

e.g. RDc cherts in Reward Dolomite

KEY TO SHEETS

						FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD	
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt Stubbs	
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	HYC	Cooley	
					Bull Creek	Emu Hill	
					Bull Creek South	Coxco North	
					Coxco West	Coxco	
					Cowdreys	Squib	
						Squib South	
						Amelia Creek North	
						Amelia Creek South	
						Massacre Hill East	

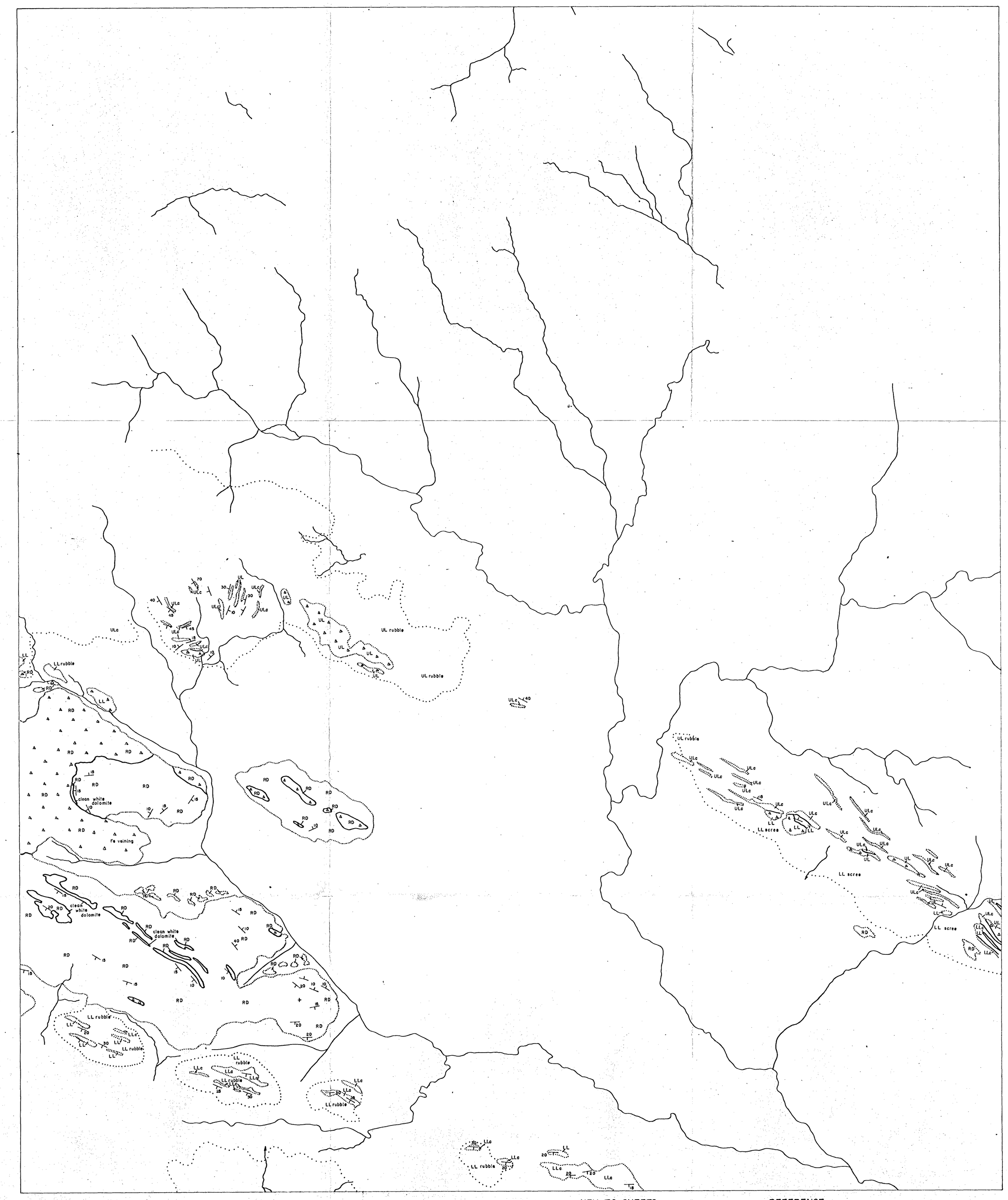


REFERENCE

- Road
- Vehicle Track
- W.H. Waterhole
- Photo centre
- Trigonometrical Station
- Photo control point
- Soil sample location
- Stream sediment sample location
- Diamond drillhole
- Percussion drillhole
- Surveyed baseline
- Steel peg (B.M.R. Electromagnetic survey 1963)
- X B.M.R. Auger sample
- Costean
- B.M.R. auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION	SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
	GEOL. :	Mc ARTHUR DETAILED SERIES (NORTHERN TERRITORY)
	DRAFT R.C.T.	
	CHECKED	EMU CREEK
	DATE October 1976	GEOLOGY
	MICROFILMED	
	ROLL N°	
	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. N° 18701



LEGEND

UL	UPPER LYNOTT
LL	LOWER LYNOTT
RD	REWARD DOLOMITE
Py	HYC PYRITIC SHALE MEMBER
CD	COOLEY DOLOMITE MEMBER
W	W-FOLD SHALE MEMBER
T	TEENA DOLOMITE FORMATION
Mi	MITCHELL YARD DOLOMITE MEMBER
Ma	MARA DOLOMITE MEMBER

SUBSCRIPTS

ss	Sandstones
si	Siltstones
c	Chert

e.g. RDc cherts in Reward Dolomite

KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt. Stubbs
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	H.Y.C.	Cooley
					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

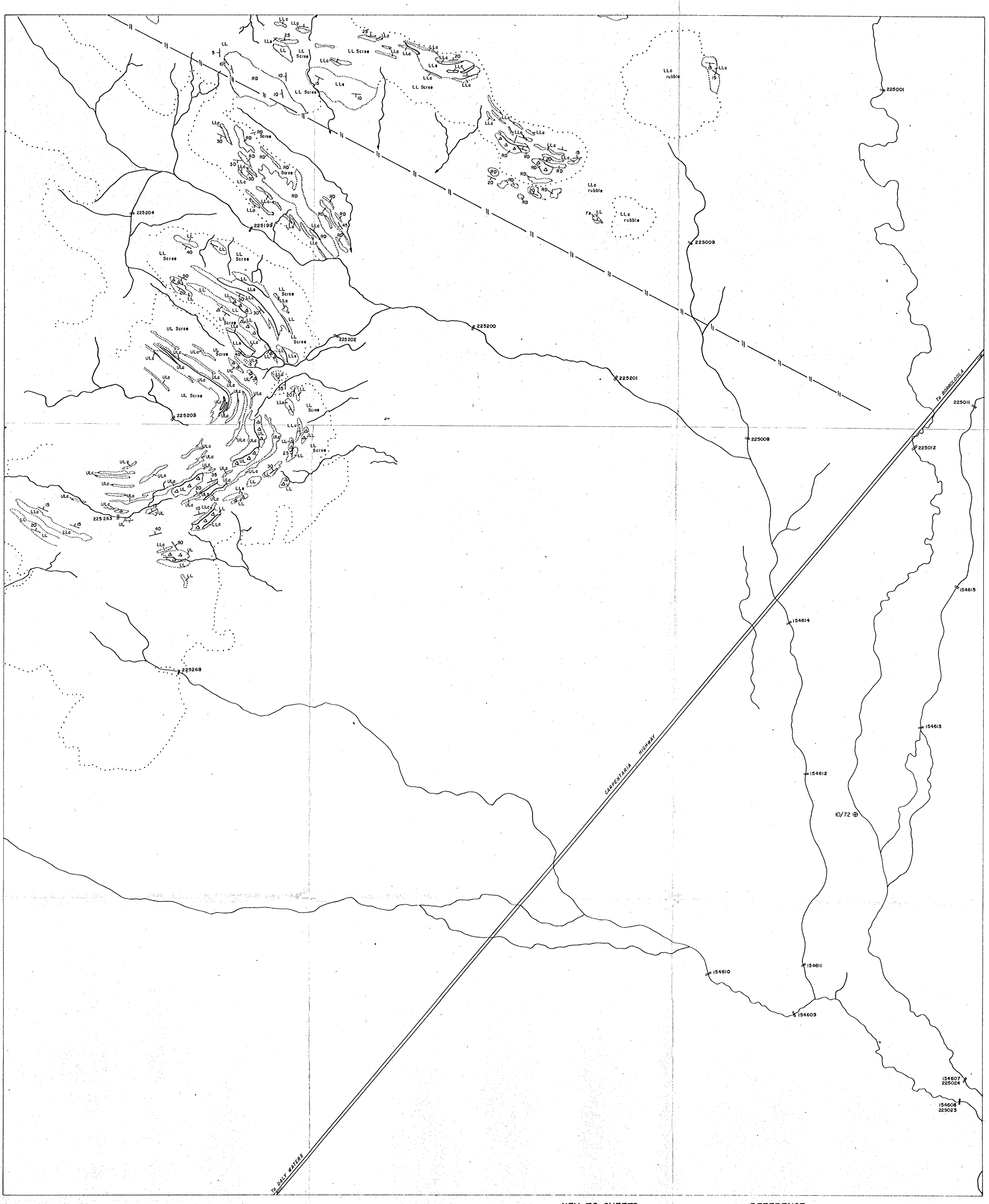
17°
Magnetic North

REFERENCE

- Road
- Vehicle Track
- W.H. Waterhole
- Photo centre
- Trigonometrical Station
- Photo control point
- Soil sample location
- Stream sediment sample location
- Diamond drillhole
- Percussion drillhole
- Surveyed baseline
- Steel peg (B.M.R. Electromagnetic survey 1963)
- X B.M.R. Auger sample
- Costean
- B.M.R. auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.:	McARTHUR DETAILED SERIES (NORTHERN TERRITORY)
		DRAFT R.C.T./R.F.	FYZ
		CHECKED	GEOLOGY
		DATE October 1976	
		MICROFILMED	
		ROLL N°	
		MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. N° 18699



LEGEND

UL	UPPER LYNOTT
LL	LOWER LYNOTT
RD	REWARD DOLOMITE
Ecs	EMU CREEK SHALES

Subscripts

ss	Sandstones
sl	Siltstones
c	Chert

KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt. Stubbs
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	H.Y.C.	Cooley
					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

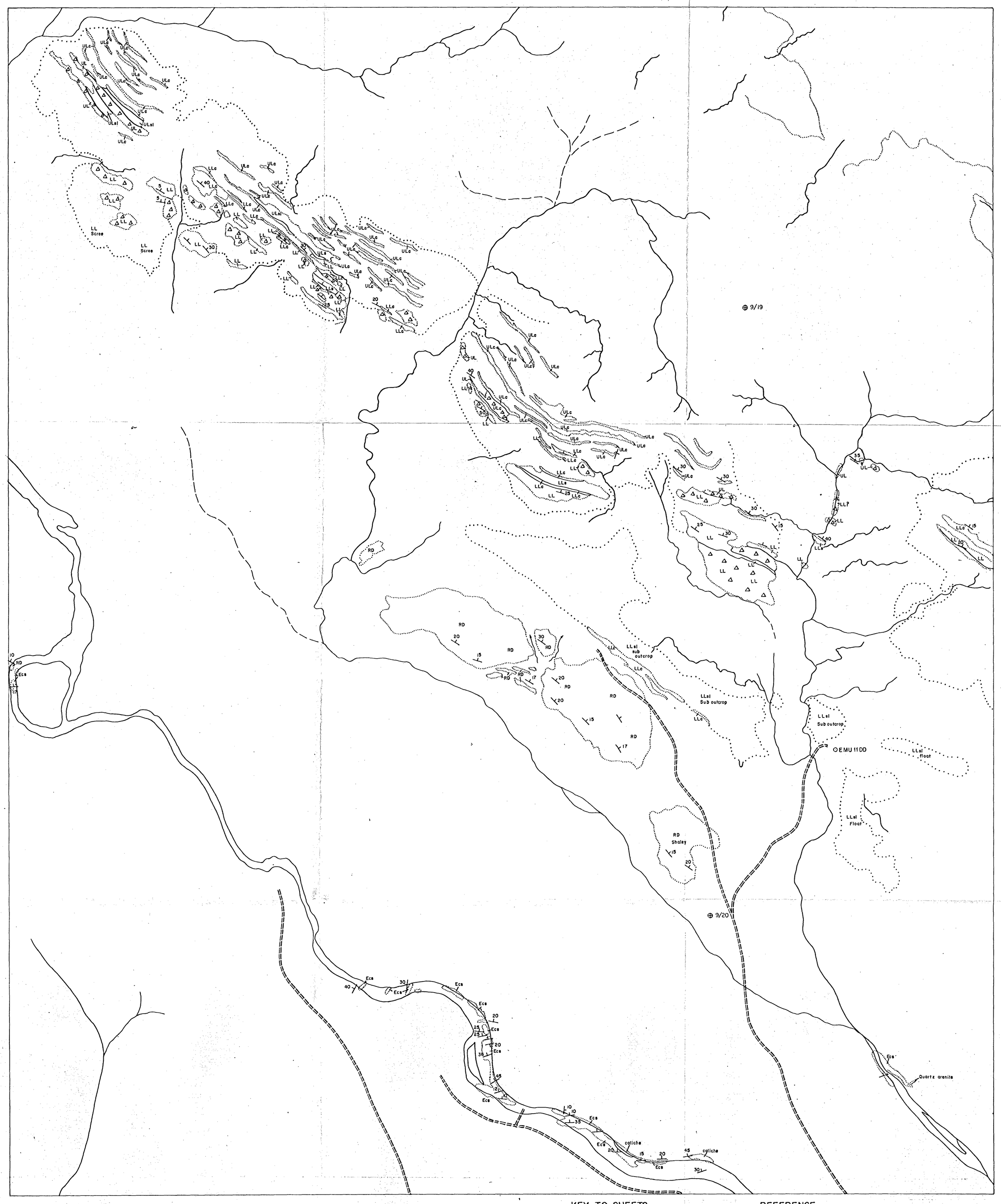
17° Magnetic North

REFERENCE

- Road
- Vehicle Track
- W.H. Waterhole
- Photo centre
- Trigonometrical Station
- Photo control point
- Soil sample location
- Stream sediment sample location
- Diamond drillhole
- Percussion drillhole
- Surveyed baseline
- Steel peg (B.M.R. Electromagnetic survey 1963)
- X B.M.R. Auger sample
- Costean
- B.M.R. auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.:	McARTHUR DETAILED SERIES (NORTHERN TERRITORY)
		DRAFT R.F.	BARNEY NORTH
		CHECKED	GEOLOGY
		DATE December 1976	
		MICROFILMED	
		ROLL Nº	
		MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. Nº 18 787



KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt. Stubbs
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	H.Y.C.	Cooley
					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

17° Magnetic North

REFERENCE

- Road
- Vehicle Track
- W.H. Waterhole
- ⊕ Photo centre
- △ Trigonometrical Station
- Photo control point
- • Soil sample location
- Stream sediment sample location
- Diamond drillhole
- ○ Percussion drillhole
- Surveyed baseline
- □ Steel peg (B.M.R. Electromagnetic survey 1963)
- X B.M.R. Auger sample
- Costean
- B.M.R. auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

LEGEND

UL	UPPER LYNOTT
LL	LOWER LYNOTT
RD	REWARD DOLOMITE
Ecs	EMU CREEK SHALES

Subscripts

ss	Sandstones
sl	Siltstones
c	Chert

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.:	McARTHUR DETAILED SERIES (NORTHERN TERRITORY)
		DRAFT: R.F.	
		CHECKED	
		DATE: October 1976	SURPRISE CREEK
		MICROFILMED	GEOLOGY
		ROLL N°	
		MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. N° 18698

LEGEND

Ecs	EMU CREEK SHALES

KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD.
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt. Stubbs
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	H.Y.C.	Cooley
					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

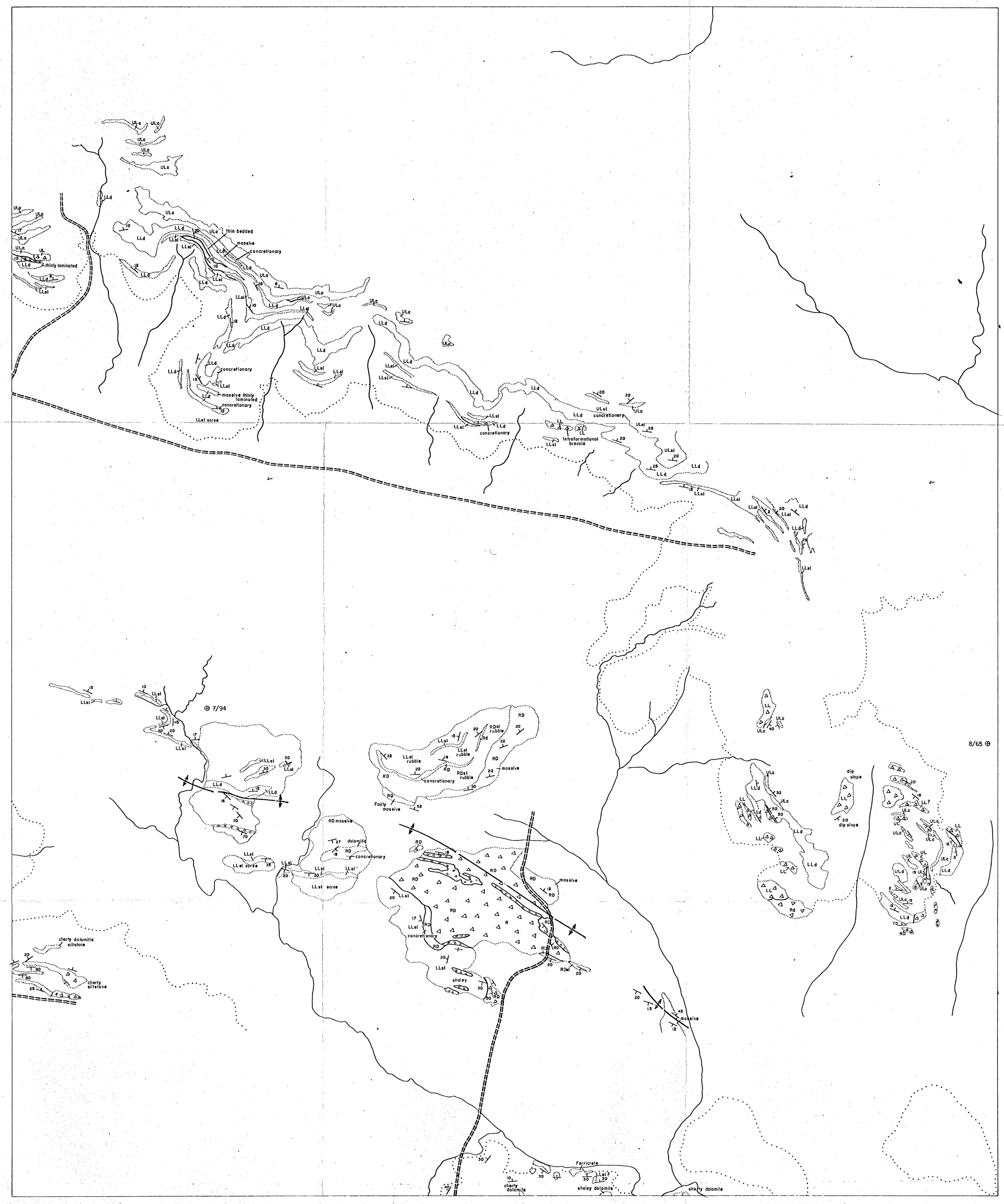
17° Magnetic North

REFERENCE

- Road
- Vehicle Track
- W.H. Waterhole
- Photo centre
- Trigonometrical Station
- Photo control point
- Soil sample location
- Stream sediment sample location
- Diamond drillhole
- Percussion drillhole
- Surveyed baseline
- Steel peg (B.M.R. Electromagnetic survey 1963)
- X B.M.R. Auger sample
- Costean
- B.M.R. auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION	SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY, PTY. LTD.
	GEOL.:	McARTHUR DETAILED SERIES (NORTHERN TERRITORY)
	DRAFT: R.F.	
	CHECKED	BARNEY WEST
	DATE: December 1976	GEOLOGY
	MICROFILMED	
	ROLL Nº	
	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. Nº 18 810



LEGEND

UL	UPPER LYNOTT
LL	LOWER LYNOTT
RD	REWARD DOLOMITE
Py	HYC PYRITIC SHALE MEMBER
CD	COOLEY DOLOMITE MEMBER
W	W-FOLD SHALE MEMBER
T	TEENA DOLOMITE FORMATION
Mi	MITCHELL YARD DOLOMITE MEMBER
Ma	MARA DOLOMITE MEMBER

SUBSCRIPTS

ss	Sandstones
sl	Siltstones
c	Chert

e.g. RDc cherts in Reward Dolomite

KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt Stubbs
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	H.Y.C.	Cooley
					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

17° Magnetic North

REFERENCE

- Road
- Vehicle Track
- W.H. Waterhole
- Photo centre
- Trigonometrical Station
- Photo control point
- Soil sample location
- Stream sediment sample location
- Diamond drillhole
- Percussion drillhole
- Surveyed baseline
- Steel peg (B.M.R. Electromagnetic survey 1963)
- X B.M.R. Auger sample
- Costean
- B.M.R. auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.	McARTHUR DETAILED SERIES (NORTHERN TERRITORY)
		DRAFT R.F.	
		CHECKED	WICKENS HILL NORTH
		DATE October 1976	GEOLOGY
		MICROFILMED	
		ROLL Nº	
		MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. Nº 18690

LEGEND

UL	UPPER LYNOTT
LL	LOWER LYNOTT
RD	REWARD DOLOMITE
Py	HYC PYRITIC SHALE MEMBER
CD	COOLEY DOLOMITE MEMBER
W	W-FOLD SHALE MEMBER
T	TEENA DOLOMITE FORMATION
Mi	MITCHELL YARD DOLOMITE MEMBER
Ma	MARA DOLOMITE MEMBER

SUBSCRIPTS

ss	Sandstones
sl	Siltstones
c	Chert

eg, RDc cherts in Reward Dolomite

KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt. Stubbs
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	H.Y.C.	Cooley
					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

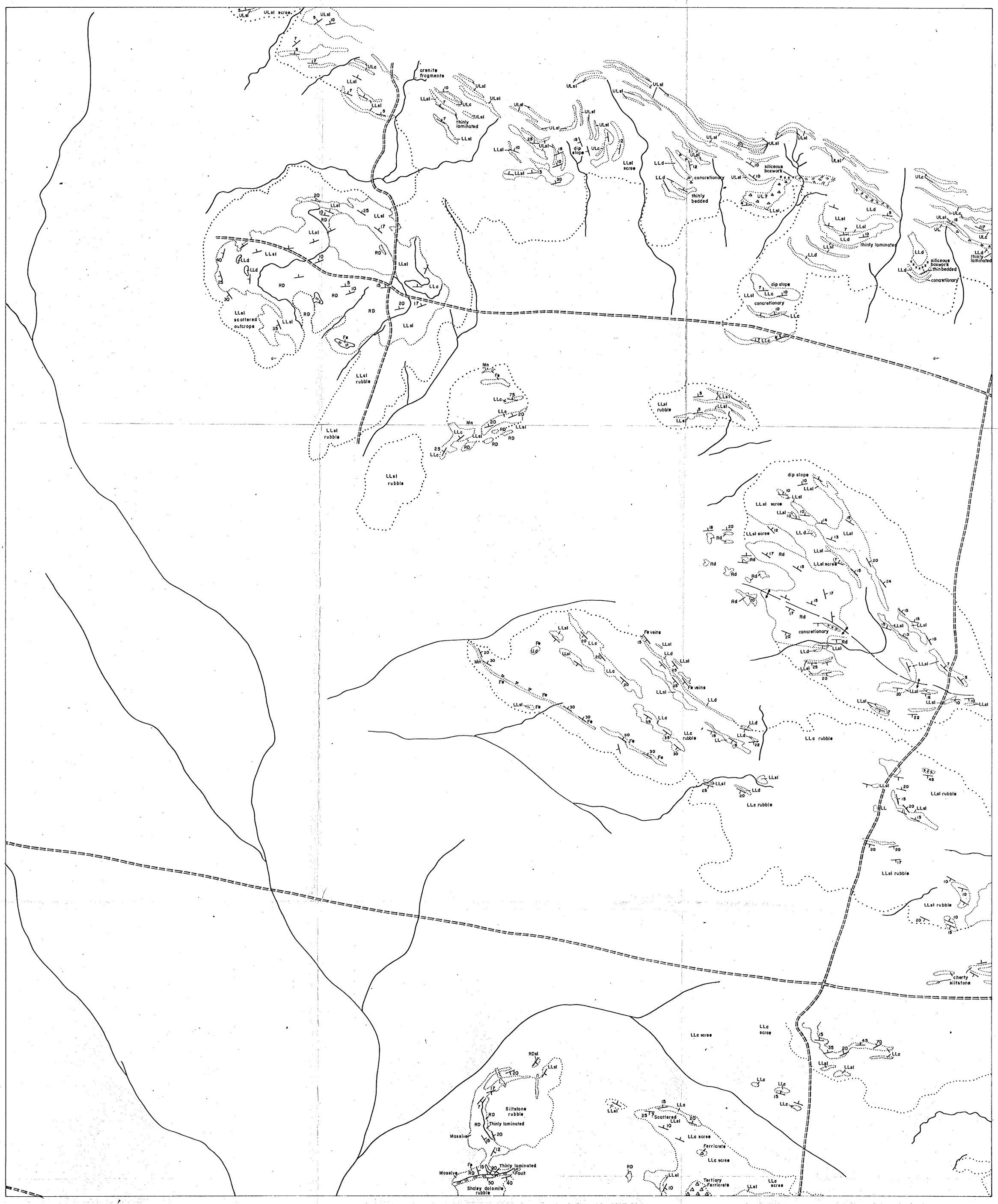
17°
Magnetic North

REFERENCE

- Road
- Vehicle Track
- W.H. Waterhole
- Photo centre
- Trigonometrical Station
- Photo control point
- Soil sample location
- Stream sediment sample location
- Diamond drillhole
- Percussion drillhole
- Surveyed baseline
- Steel peg (B.M.R. Electromagnetic survey 1963)
- X B.M.R. Auger sample
- Costean
- B.M.R. auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.:	McARTHUR DETAILED SERIES (NORTHERN TERRITORY)
		DRAFT R.F.	
		CHECKED	
		DATE: October 1976	WICKENS HILL GEOLOGY
		MICROFILMED	
		ROLL Nº	
15-12-76	R.F.	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. Nº 18689



LEGEND

UL	UPPER LYNOTT
LL	LOWER LYNOTT
RD	REWARD DOLOMITE
Py	HYC PYRITIC SHALE MEMBER
CD	COOLEY DOLOMITE MEMBER
W	W-FOLD SHALE MEMBER
T	TEENA DOLOMITE FORMATION
Mi	MITCHELL YARD DOLOMITE MEMBER
Ma	MARA DOLOMITE MEMBER

SUBSCRIPTS

ss	Sandstones
sl	Siltstones
c	Chert

e.g. RDc cherts in Reward Dolomite

KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt. Stubbs
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	H.Y.C.	Cooley
					Bull Creek	Emu Hill
					Bull Creek South	Coxco North
					Coxco West	Coxco
					Cowdreys	Squib
						Squib South
						Amelia Creek North
						Amelia Creek South
						Massacre Hill East

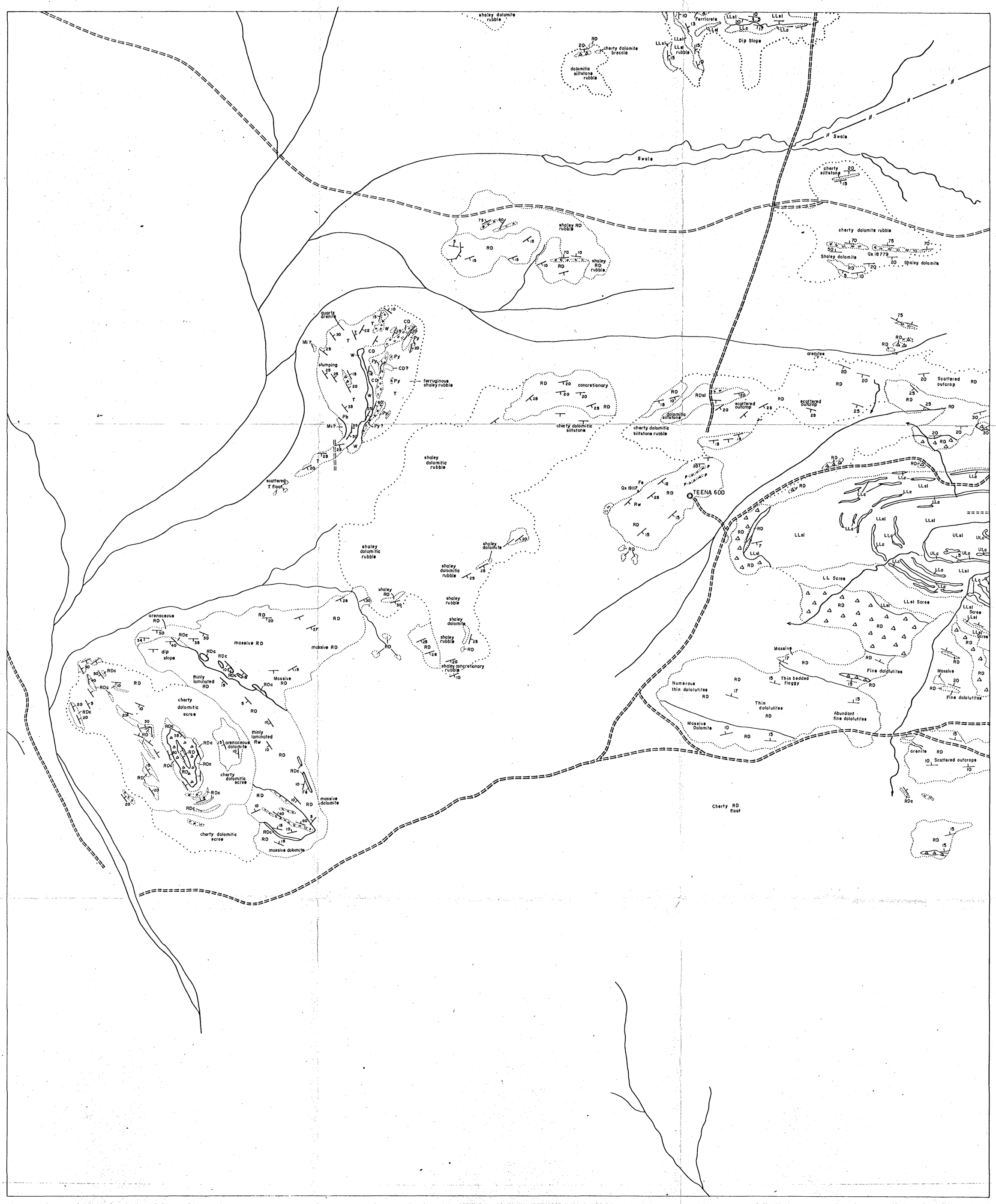
17° Magnetic North

REFERENCE

- Road
- Vehicle Track
- W.H. Waterhole
- Photo centre
- Trigonometrical Station
- Photo control point
- Soil sample location
- Stream sediment sample location
- Diamond drillhole
- Percussion drillhole
- Surveyed baseline
- Steel peg (B.M.R. Electromagnetic survey 1963)
- X B.M.R. Auger sample
- Costean
- B.M.R. auger drilling geochemical contours
- C.E.C. soil geochemical contours

100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.	McARTHUR DETAILED SERIES (NORTHERN TERRITORY)
		DRAFT B.P.	
		CHECKED	
		DATE October 1976	TEENA NORTH
		MICROFILMED	GEOLOGY
		ROLL N°	
26-10-76	R.F.	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. N° 18692



LEGEND

UL	UPPER LYNOTT
LL	LOWER LYNOTT
RD	REWARD DOLOMITE
Py	HYC PYRITIC SHALE MEMBER
CD	COOLEY DOLOMITE MEMBER
W	W-FOLD SHALE MEMBER
T	TEENA DOLOMITE FORMATION
Mi	MITCHELL YARD DOLOMITE MEMBER
Ma	MARA DOLOMITE MEMBER

SUBSCRIPTS

- ss Sandstones
- sl Siltstones
- c Chert

e.g. RDc cherts in Reward Dolomite

KEY TO SHEETS

					FYZ	Emu Creek
Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD.
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt. Stubbs
Deep Creek	Teena South	Wickens Hill South	W-Fold South	McArthur Homestead	H.Y.C.	Cooley
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					Bull Creek South	Coxco North
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						Squib South
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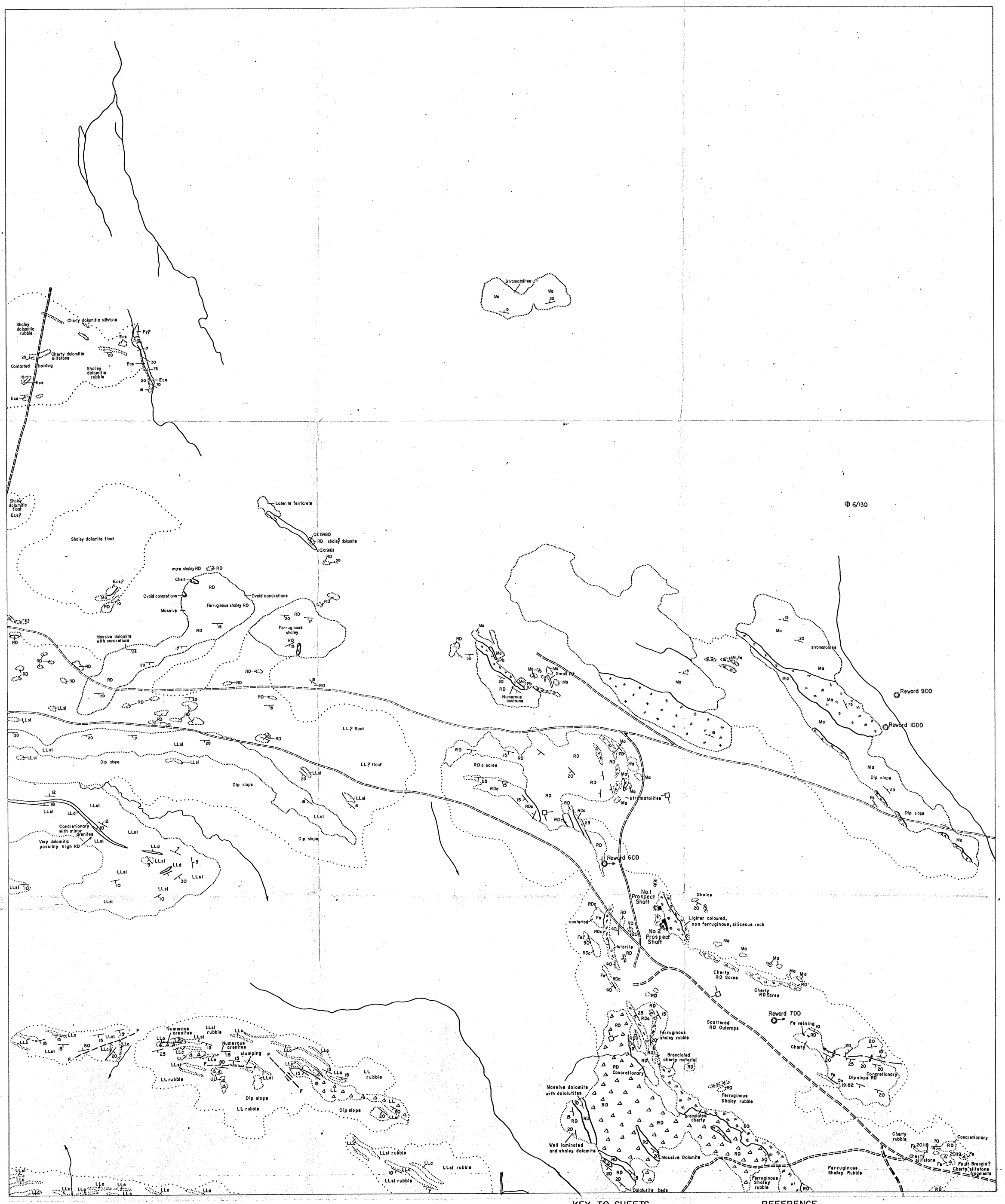
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.:	McARTHUR DETAILED SERIES (NORTHERN TERRITORY)
		DRAFT: B.P.	
		CHECKED	TEENA
		DATE: October 1976	GEOLOGY
		MICROFILMED	
		ROLL N°	
14-12-76	R.F.	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. N° 18691



LEGEND

Ecs	EMU CREEK SHALES
LL	LOWER LYNOTT
RD	REWARD DOLOMITE
Py	HYC PYRITIC SHALE MEMBER
Ma	MARA DOLOMITE MEMBER

SUBSCRIPTS

ss	Sandstones
sl	Siltstones
c	Chert

eg. RDc cherts in Reward Dolomite

KEY TO SHEETS

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Reward	Teena North	Wickens Hill North	W-Fold North	Surprise Creek	Barney North	Emu IDD
Reward South	Teena	Wickens Hill	W-Fold	Barney West	Barney	Mt. Stubbs
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100 50 0 100 200 300 400
METRES

REVISION		SCALE 1:5000	CARPENTARIA EXPLORATION COMPANY PTY. LTD.
		GEOL.: "	McARTHUR DETAILED SERIES (NORTHERN TERRITORY)
		DRAFT R.C.T.	
		CHECKED	REWARD
		DATE October 1976	GEOLOGY
		MICROFILMED	
		ROLL N°	
14-12-76	R.F.	MINING FIELD OR DISTRICT McArthur Gold and Mineral Field N.T.	DRG. N° 18 700