CRA Exploration Pty. Limited
Incorporated in New South Wales **A.C.N. 000 057 125**
18 Km Stuart Highway, Berrimah, N.T. 0828

30th December, 1993

The Secretary
Department of Mines & Energy
GPO Box 2901
DARWIN NT 0801

Dear Sir

RE : EL7934 - McDERMOTTS CREEK, N.T.
First Annual Report for Year Ending 2 December, 1993

Please find herewith Annual Report No. 19415 by D.C. Palmer, titled as above.

Sepia copies of plans over A3 size are also included, they are plans numbered NTd 5552, 5886 and 5901

Expenditure to the nearest accounting period was as follows :

Contractors	$ 6,066
Laboratory	$ 6,784
Rent & Property	$ 956
Payroll & Benefits	$16,556
Field & Transport	$13,886
Travel & Accommodation	$ 2,708
Computer Services	$ 405
Office & Miscellaneous	$ 2,924
District Administration	$12,617
Regional Indirect Costs	$ 6,267
Total	$69,203

Rehabilitation

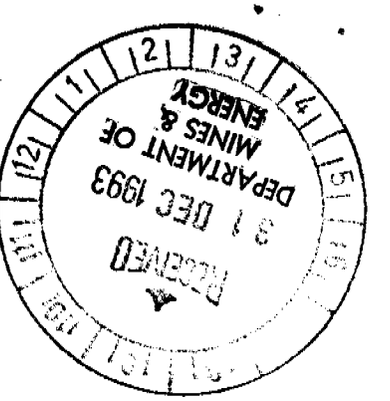
No rehabilitation was required as no significant disturbance was created during the exploration programme.

Yours faithfully

Sandra Johnson (Mrs.)
Superintendent Drafting/Tenements

CR94-1028

Telephone (089) 32 2766. PO Box 39598 Winnellie NT 0821. Facsimile (089) 32 3286



CRA EXPLORATION PTY. LIMITED

EL 7934 McDERMOTTS CREEK

FIRST ANNUAL REPORT

YEAR ENDING 2 DECEMBER 1993

SUBMITTED BY	:	D. C. PALMER .....
ACCEPTED BY	:	W. H. JOHNSTON .....
DATE:	:	December 1993
COPIES TO	:	N.T. Department of Mines & Energy, Darwin CRAE Research & Information Group, Canberra CRAE, Darwin
MAP REFERENCE	:	Calvert Hills SE 53-08
REPORT NUMBER	:	19415

CONTENTS

1. SUMMARY

Exploration Licence 7934 McDermotts Creek is situated within the Wearyan Shelf tectonic element of the Proterozoic McArthur Basin, adjacent to the N.T./Qld border. The tenement area which covers 240 blocks (747 sq. km) was granted to CRA Exploration Pty. Limited on 3 December, 1992 for a period of six years.

The licence area was considered prospective for diamondiferous kimberlitic diatremes and for basemetal mineralisation within the Proterozoic Tawallah Group sequence.

During the first year of tenure, a helicopter-supported reconnaissance density, heavy mineral trapsite and concurrent fine fraction stream sediment sampling programme was completed over the exploration licence area. Gravel samples collected were processed for kimberlitic indicator minerals and the minus 80# stream sediment samples were analysed for a multi-element geochemical suite.

Positive results included clusters of possibly kimberlitic indicator minerals including macro and micro-diamonds, recovered from non-contiguous catchment areas located within the central-eastern portion of EL 7934.

Limited helicopter-supported follow-up heavy mineral trapsite and loam sampling was undertaken which confirmed and condensed the indicator mineral dispersion trains.

Low order assay values were returned from the reconnaissance minus 80# stream sediment samples collected across the licence area.

Two rock chip samples collected during the reconnaissance stream sediment sampling programme returned no significant geochemical assay values.

2. ASSESSMENT

The following conclusions are drawn from exploration programmes completed within EL 7934 McDermotts Creek during the first year of tenure;

(i) Drainage trapsite samples report the presence of macro and micro-diamonds and possibly kimberlitic indicator minerals within non-contiguous catchment areas located within the central-eastern portion of the exploration licence.

(ii) Low order geochemical values report from broad-spaced, -80# stream sediment samples collected across the licence area.

Insufficient follow-up sampling has been undertaken to properly assess the significance of the positive sampling results. The apparent condensing of positive indicator mineral trains in the Nabunga Creek and Queensland Creek catchment areas is considered highly encouraging.

It is recommended that a detailed, low-level, airborne magnetic and radiometric survey of the entire licence area be flown in order to identify target diatreme responses.

3. INTRODUCTION

Exploration Licence 7934 McDermotts Creek is situated within the Wearyan Shelf tectonic element of the Proterozoic McArthur Basin, adjacent to the N.T./Qld border. The tenement area which covers 240 blocks (747 sq. km) was granted to CRA Exploration Pty. Limited on 3 December, 1992 for a period of six years (Plan NTd 5527).

The licence area was considered prospective for diamondiferous kimberlitic diatremes and for basemetal mineralisation within the Proterozoic Tawallah Group sequence.

Work programmes completed within EL 7934 during the first year of tenure included; reconnaissance density trapsite gravel and concurrent fine fraction stream sediment sampling, follow-up and infill trapsite/loam sampling programmes, kimberlitic indicator mineral observation and micro-diamond detection, multi-element geochemical analysis of reconnaissance stream sediment and rock chip samples.

This report details all exploration activities undertaken by CRA Exploration Pty. Limited within EL 7934 McDermotts Creek during the first year of tenure.

4. GEOLOGY

The geology of the southern McArthur Basin region has been described by Jackson et.al (1987), whilst the metallogeny of the Calvert Hills 1:250 000 mapsheet is reported by Ahmad and Wygralak (1989). The following geological summary of the region encompassed by EL 7934 McDermotts Creek is drawn from these sources. The stratigraphic succession appears in Figure 1.

Exploration Licence 7934 McDermotts Creek covers a sequence of Middle Proterozoic sediments and volcanics (Tawallah Group) which flank the northern margin of the Early-Proterozoic Murphy Metamorphic Inlier.

The Murphy Metamorphics are a sequence of isoclinally folded greenschist facies meta-sediments which are unconformably overlain by a felsic volcanic/pyroclastic sequence (Cliffdale Volcanics), intruded by granite/adamellite of the Nicholson Granite Complex.

The igneous and metamorphic complexes of the Murphy Inlier are overlain with angular unconformity and disconformity by the Tawallah Group. The Tawallah Group is the oldest group of the McArthur Basin sequence.

The Westmoreland Conglomerate is the oldest unit of the Tawallah Group and consists of a thick sequence (up to 1800m) of fluvial arkosic conglomerate and quartz arenite. Permeable lithofacies within the Westmoreland Conglomerate host uranium mineralisation. The unit does not outcrop within the tenement area.

The Seigal Volcanics conformably overlie the Westmoreland Conglomerate and occurs as a series of tholeiitic basaltic lavas and minor tuffaceous interbeds along the southern margin of the exploration licence.

The McDermott Formation conformably overlies the Seigal Volcanics along southern margin of EL 7934 and forms a narrow, poorly outcropping unit characterised by alternating beds of shallow-water marine arenites, shale and dolostone.

The carbonate rocks of the McDermott Formation are conformably overlain by the Sly Creek Sandstone sequence which grades upwards into glauconitic sandstones termed the Aquarium Formation. The conformable units encompass the majority of the exploration licence and are characterised by a series of open folds with north-east oriented axes.

The Settlement Creek Volcanics conformably overlie the Aquarium Formation and consist of a series of basaltic lava flows, sills, and siltstone interbeds. Exposure of the volcanics is limited and is obscured by Recent alluvium denoting the Settlement Creek valley along the northwestern boundary of the licence area.

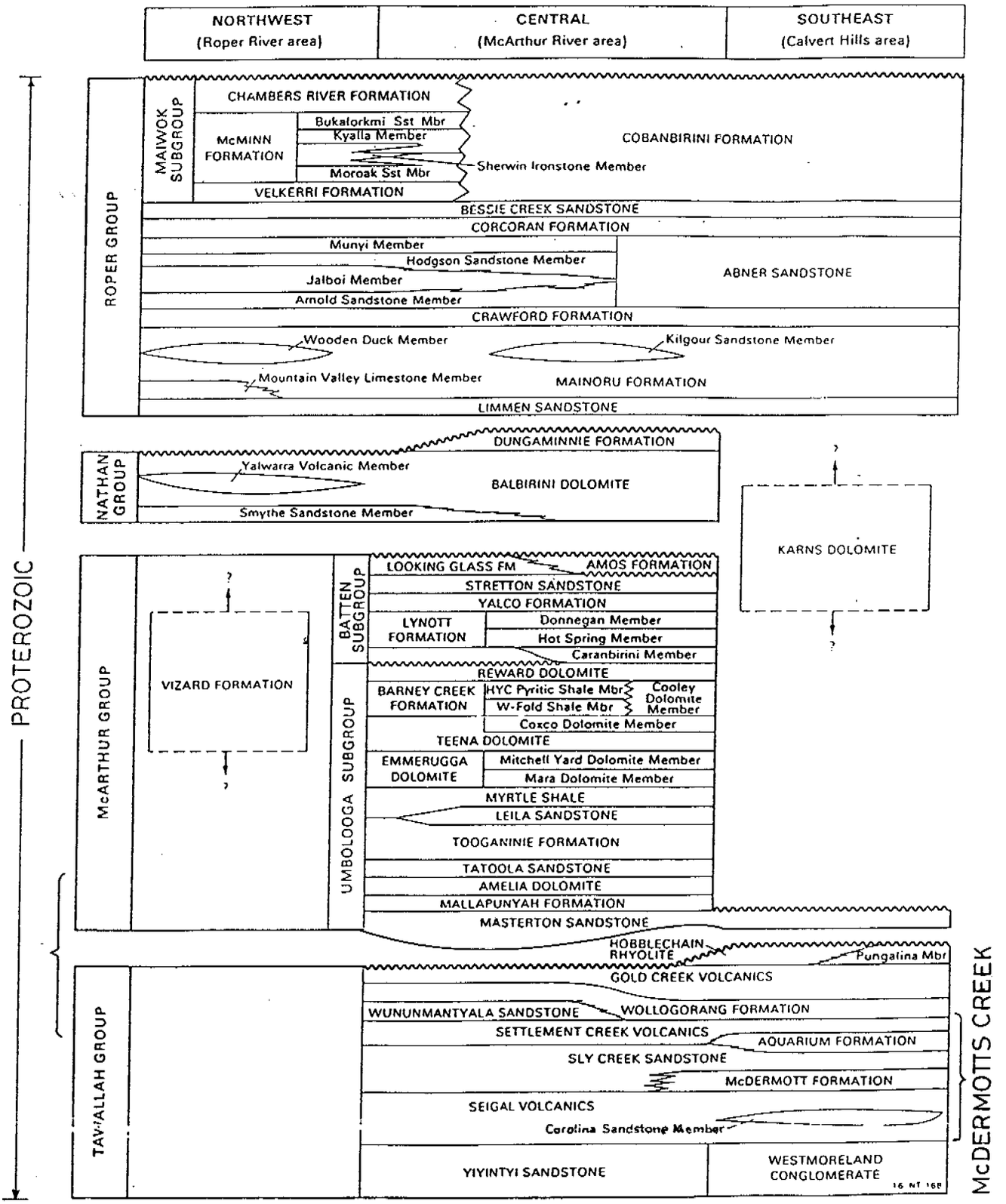


Table 1. STRATIGRAPHIC SUCCESSION WITHIN EL7934 McDermotts Creek
(After M.J.Jackson, M.D.Muir, and K.A.Plumb, 1987)

The Phanerozoic records minor Cretaceous marine transgressions during which thin veneers of sediment were deposited.

Soil, sand and ferruginous detritus of Tertiary and Quaternary Age mask the underlying Tawallah Group in the northern and central portions of the exploration licence.

5. EXPLORATION ACTIVITIES

5.1 Drainage Sampling and Indicator Mineral Results.

Incised dendritic drainage system systems developed across the exploration licence area were subjected to helicopter-supported trapsite drainage gravel sampling programmes in an attempt to locate exposed or partially outcropping diamondiferous kimberlitic diatremes via indicator mineral drainage trains.

During tenure year one, collection of drainage gravel samples was undertaken in three passes. All samples were processed by the CRAE Belmont laboratory for kimberlitic indicator mineral observation and selected samples were processed for micro-diamonds.

Sampling data and results for all exploration phases are tabulated in Appendix I and discussed below. Sample locations appear on plan NTd 5886.

The entire licence area was initially subjected to a helicopter-supported reconnaissance density (1: 17 sq. km), minus 2mm fraction drainage sampling programme. A total of forty-two samples were collected from heavy mineral trapsites.

Six selected samples (96 - series numbers) were observed for micro-diamond detection, whilst the remaining thirty-six samples (3206 - series numbers) were observed to plus 0.4mm for kimberlitic indicator minerals. The following samples returned positive indicator mineral results from a series of non-contiguous catchment areas;

3206808 1 x +0.5mm chromite, with 1 x +0.5mm picro-illmenite (5 - 7% MgO) from the Branch Creek drainage located in the northeastern portion of the licence.

3206820 1 x 0.75mm x 0.5mm diamond draining Aquarium Formation arenites within the central-eastern portion of the licence.

3206828 1 x 0.8mm x 0.4mm diamond from Nabunga Creek, Aquarium Formation arenites within central EL 7934.

3206826 1 x +0.4mm chromite draining Aquarium Formation arenites within the northwestern portion of the licence.

3206838 1 x +0.4mm from a tributary of Branch Creek draining Seigal Volcanics along the southern boundary of the licence.

SEM probe results indicated that chromite grains reporting in reconnaissance samples were distinctly non-kimberlitic.

A second programme of helicopter-supported follow-up drainage sampling was undertaken in order to confirm reported diamond occurrences within non-contiguous catchment areas located within the central portion of the exploration licence.

A total of eight, minus 2mm fraction drainage samples were collected from heavy mineral trapsites in the immediate vicinity of the diamond occurrences (3746 - series numbers). Samples were observed to +0.25mm for kimberlitic indicators minerals.

A total of 185 chromites (9 x +0.4mm, 176 x +0.25mm) and two micro-diamonds were returned from the follow-up gravel samples (Appendix I).

Four selected reconnaissance phase gravel samples (3746 - series numbers) were subsequently processed to a finer fraction (+0.25mm), revealing an additional 74 chromites and two diamonds.

A third programme of helicopter-supported infill drainage sampling was undertaken in order to condense the positive indicator mineral trains reporting from the non-contiguous Nabunga Creek and Queensland Creek catchment areas. Ten infill, minus 2mm fraction trapsite gravel samples were collected from within the broad catchment areas (3747 - series numbers). Samples were observed to +0.25mm for kimberlitic minerals and a total of 115 chromites (2 x +0.4mm, 113 +0.25mm) were returned.

SEM probe results of chromite grains indicated the presence of both non-kimberlitic and possibly kimberlitic populations.

5.2 Loam Sampling and Indicator Mineral Results

A discrete, circular, photo-vegetation feature located within the headwaters of the Nabunga Creek catchment area was identified from 1:80,000 aerial photography. The 120m diameter feature delineates a vegetated, perennial "spring" developed upon a dip slope of Aquarium Formation arenite. No signs of mafic or intrusive rock types were located. A minus 2mm fraction loam sample collected within the photo-feature was observed to +0.25mm for kimberlitic indicator minerals and the following positive results were returned;

3747200 1 x +0.4mm chromite and 1 x 0.40mm x 0.325 mm micro-diamond.

The sample location appears on plan NTd 5886, whilst sampling data appears in Appendix I.

5.3 -80# Stream Sediment Geochemistry.

During tenure year one, a fine fraction stream sediment sample was collected concurrent with regional density trapsite gravel samples across the entire licence area. A total of 36, -80# fraction samples were collected from active stream sediment. Approximately 100 grams of sample was dry sieved in the field and submitted to Amdel Laboratories, Darwin, for assay by the AAS technique for Ag, As, Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb and Zn.

Five, -80# fraction samples were collected within catchment areas common to EL 7934 and adjacent CRAE tenement areas during separate reconnaissance stream sediment sampling investigations. These samples were also submitted for geochemical analysis.

No significant basemetal assay values were returned from the 41 samples..

Sample locations are shown on plan NTd 5552, whilst sample ledgers are presented in Appendix II.

5.4 Rock Sampling

Two grab rock samples from a vuggy, brecciated, silicified horizon occurring within McDermott Formation carbonate rocks were collected during helicopter-borne reconnaissance sampling programmes undertaken across the licence area. The samples were submitted to Amdel Laboratories, Darwin, for assay by the AAS technique for Ag, As, Bi, Co, Cr, Cu, Fe, Mn, Ni, Pb, Zn, by the XRF technique for Ba, Th and U, and for low level gold determinations by the Fire Assay/AAS technique.

No significant basemetal or precious metal assay values were returned.

Sample locations are shown on plan NTd 5901, whilst sample ledgers appear in Appendix III.

6. REFERENCES

Ahmad, M and Wygralak, A S (1989)	1:250 000 Metallogenic Map Series Explanatory Notes and Mineral Deposit Data Sheets, Calvert Hills SE 5308.
Jackson, M J et.al. (1987)	Geology of the southern McArthur Basin, Northern Territory. BMR Bulletin 220

7. KEYWORDS

Diamonds; Gravel Sampling; Kimberlitic Indicator Mineral; Loam Sampling; Micro-diamonds; McArthur Basin; Proterozoic; Rock Geochemistry; Stream Sediment Sampling; Tawallah Group.

8. LOCATION

Calvert Hills	SE 53-08	1:250,000 mapsheet
Wollogorang	6463	1:100,000 mapsheet

9. LIST OF DPO's

71004, 71104, 71106, 71057, 71126, 71138.

10. LIST OF FIGURES

11. LIST OF PLANS

Plan No.	Title	Scale
NTd 5527	EL7934 McDermotts Creek Location Plan	1:250,000
NTd 5886	EL 7934 McDermotts Creek Sample Location Plan	1:50,000
NTd 5552	EL 7934 McDermotts Creek -80# Stream Sediment Sample Location Plan	1:100,000
NTd 5901	EL 7934 McDermotts Creek Rock Sample Location Plan	1:100,000

APPENDIX I

EL 7934 McDermotts Creek

Diamond Exploration Sample Ledgers and Indicator Mineral Results

CRA EXPLORATION PTY. LIMITED

INDICATOR MINERAL SUMMARY RESULTS

Tenement: EL 7934 McDermotts Creek
Sample Type: Reconnaissance -2mm Trapsite gravel
DPO Nos. 71057
Observation Undertaken: KI identification to plus 0.4mm and selected samples re-examined to 0.25mm.

SAMPLE No.	SAMP WEIGHT (KG)	AMG EAST	AMG NORTH	INDICATOR MINERAL RESULTS	
				>0.4mm	>0.4mm <0.25mm
3206807	19.20	813150	8092900	negative	No obs.
3206808	18.80	817400	8093100	1x picro-illmenite	No obs.
				1x chromite	No obs.
3206809	19.20	815700	8090100	negative	No obs.
3206810	18.60	813200	8086450	negative	No obs.
3206811	20.60	813650	8085500	negative	No obs.
3206812	20.00	813300	8085250	negative	No obs.
3206813	22.50	811100	8083900	negative	No obs.
3206814	21.60	811600	8082400	negative	No obs.
3206815	25.40	811500	8082400	negative	No obs.
3206816	21.40	810800	8182850	negative	No obs.
3206817	20.40	811800	8079450	negative	No obs.
3206818	21.00	811400	8079400	negative	No obs.
3206819	19.20	810700	8080450	negative	No obs.
3206820	22.00	813900	8080650	1x diamond 0.75mm x 0.5mm	29 x chromite
3206821	21.60	806800	8079650	negative	6 x chromite
3206822	19.66	805100	8081000	negative	6 x chromite
3206823	22.40	805150	8080800	1x diamond 0.8mm x 0.4mm	33 x chromite
3206824	20.00	806950	8183100	1 x chromite	No obs.
3206825	20.20	807650	8089150	negative	No obs.
3206826	19.40	800500	8087700	1 x chromite	No obs.
3206827	18.00	896700	8084300	negative	No obs.

SAMPLE No.	SAMP WEIGHT (KG)	AMG EAST	AMG NORTH	INDICATOR MINERAL RESULTS	
				>0.4mm	>0.4mm <0.25mm
3206828	20.00	795400	8082200	negative	No obs.
3206829	20.20	795050	8081150	negative	No obs.
3206830	21.80	792400	8078250	negative	No obs.
3206831	22.00	790800	8078100	negative	No obs.
3206832	22.00	787800	8076700	negative	No obs.
3206833	21.00	801650	8079050	negative	No obs.
3206834	21.40	804750	8074000	negative	No obs.
3203835	21.20	804150	8073900	negative	No obs.
3206836	19.60	804400	8072950	negative	No obs.
3206837	22.20	805200	8071600	negative	No obs.
3206838	22.00	804600	8070800	1 x chromite	No obs.
3206856	20.90	789100	8070200	negative	No obs.
3206857	22.80	789050	8070000	negative	No obs.
3206859	16.20	785300	8075400	negative	No obs.
3206878	23.80	818200	8069250	negative	No obs.

Tenement: EL 7934 McDermotts Creek
Sample Type: Reconnnaisance -2mm Trapsite gravel
DPO Nos. 21382,19482
Observation Undertaken: microdiamond identification to plus 0.25mm.

SAMPLE NO.	SAMP WEIGHT (KG)	AMG EAST	AMG NORTH	INDICATOR MINERAL RESULTS	
				>0.4mm	
966657	14.40	801500	8090800	negative	
964358	21.70	807050	8088950	negative	
966694	21.00	790300	8081000	negative	
966710	13.80	792900	8080400	negative	
966709	17.60	799500	8087500	negative	
966789	14.20	818500	8087400	negative	

Tenement: EL 7934 McDermotts Creek
Sample Type: Follow-up Programme, -2mm Trapsite gravel
DPO Nos. 71126
Observation Undertaken: KI identification to plus 0.25mm.

SAMPLE No.	SAMP WEIGHT (KG)	AMG EAST	AMG NORTH	INDICATOR MINERAL RESULTS	
				>0.4mm	>0.4mm <0.25mm
3746290	34.40	813774	8080646	5 x chromite	35 x chromite
3746291	16.30	813500	8080650	1 x chromite	23 x chromite
3746292	18.00	813500	8081350	2 x chromite	74 x chromite
					1 x micro-diamond 0.3mm x 0.3mm
3746293	35.30	805109	8080816	negative	31 x chromite
3746294	16.00	805061	8080380	negative	5 x chromite
3746295	18.50	803600	8079830	negative	7 x chromite
					1 x micro-diamond 0.3mm x 0.3mm
3746296	19.10	803050	8079950	negative	negative
3746297	20.10	801514	8079310	1 x chromite	1 x chromite

Sample Type: -2mm loam sample
DPO Nos. 71138
Observation Undertaken: KI identification to plus 0.25mm.

SAMPLE No.	SAMP WEIGHT (KG)	AMG EAST	AMG NORTH	INDICATOR MINERAL RESULTS	
				>0.4mm	>0.4mm <0.25mm
3747200	33.30			1 x chromite	1 x micro-diamond 0.4mm x 0.325mm

Sample Type: Infill Sampling, -2mm Trapsite gravel
DPO Nos. 71138
Observation Undertaken: KI identification to plus 0.25mm.

SAMPLE NO.	SAMP WEIGHT (KG)	AMG EAST	AMG NORTH	INDICATOR MINERAL RESULTS	
				>0.4mm	>0.4mm <0.25mm
3747201	18.20	813920	8081320	negative	17 x chromite
3747202	15.20	806400	8077500	negative	4 x chromite
3747203	16.60	803700	8079250	negative	2 x chromite
3747204	16.20	804990	8079550	negative	4 x chromite
3747205	15.80	813900	8079450	negative	12 x chromite
3747206	17.50	814730	8079700	1 x chromite	15 x chromite
3747207	16.30	815000	8080470	negative	14 x chromite
3747208	15.80	815100	8080150	negative	5 x chromite
3747209	16.00	814750	8083400	1 x chromite	26 x chromite
3747210	16.80	814800	8083780	negative	14 x chromite

APPENDIX II

EL 7934 McDermotts Creek

-80# Stream Sediment Geochemistry Ledger

CRA EXPLORATION PTY. LIMITED
GEOCHEMICAL SAMPLE LEDGER

Tenement: EL 7934 McDermotts Creek
Programme: Reconnaissance Multifraction Stream Sediment Survey
Sample Type : -80# Stream sediment DPO: 71104, 71106
Collected: D.C. Palmer 1993 Lab: Amdel

SAMPNO	Ag ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	Mn ppm	Ni ppm	Pb ppm	Zn ppm	As ppm	AMGEAST	AMGNORTH
3206807	0.05	0.05	3	29	26	19845	440	12	9	13	10	813150	8092900
3206808	0.05	0.05	14	71	66	49770	840	34	13	52	10	817400	8093100
3206809	0.05	0.05	3	46	24	22995	270	9	11	14	10	815700	8090100
3206810	0.05	0.05	13	53	36	30135	210	23	7	27	10	813200	8086450
3206811	0.05	0.05	8	53	32	30450	220	17	6	21	10	813650	8085500
3206812	0.05	0.05	7	39	21	21630	170	11	5	15	10	813300	8085250
3206813	0.05	0.05	11	64	39	46305	450	29	10	61	10	811100	8083900
3206814	0.05	0.05	2	33	7	16275	110	4	2	5	10	811600	8082400
3206815	0.05	0.05	2	34	8	15120	120	4	3	5	10	811500	8082400
3206816	0.05	0.05	2	43	21	15750	120	14	5	6	10	810800	8182850
3206817	0.05	0.05	2	35	11	20895	165	7	6	7	10	811800	8079450
3206818	0.05	0.05	2	37	12	17220	150	7	4	9	10	811400	8079400
3206819	0.05	0.05	6	35	36	22785	92	18	6	17	10	810700	8080450
3206820	0.05	0.05	2	24	3	10290	115	3	2	4	10	813900	8080650
3206821	0.05	0.05	21	77	57	51765	52	32	13	53	10	806800	8079650
3206822	0.05	0.05	2	34	17	12495	90	11	2	55	10	805100	8081000
3206823	0.05	0.05	3	22	6	19320	130	6	4	4	10	805150	8080800
3206824	0.05	0.05	3	27	8	17220	94	5	4	6	10	806950	8183100
3206825	0.05	0.05	2	14	4	10080	54	1	3	5	10	807650	8089150
3206826	0.05	0.05	5	22	13	20790	350	7	8	10	10	800500	8087700
3206827	0.05	0.05	6	23	13	21000	350	8	8	12	10	896700	8084300
3206828	0.05	0.05	2	20	13	14805	150	4	8	6	10	795400	8082200
DET. LIMIT	0.1ppm	0.1ppm	2ppm	2ppm	1ppm	5ppm	2ppm	2ppm	2ppm	1ppm	20ppm		
METHOD	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS		

CRA EXPLORATION PTY. LIMITED
GEOCHEMICAL SAMPLE LEDGER

Tenement: EL 7934 McDermotts Creek
Programme: Reconnaissance Multifraction Stream Sediment Survey
Sample Type : -80# Stream sediment DPO: 71104, 71106
Collected: D.C. Palmer 1993 Lab: Amdel

SAMPNO	Ag ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	Mn ppm	Ni ppm	Pb ppm	Zn ppm	As ppm	AMGEAST	AMGNORTH
3206829	0.05	0.05	8	35	25	46515	680	10	11	10	10	795050	8081150
3206830	0.05	0.05	2	30	32	15855	250	15	7	8	10	792400	8078250
3206831	0.05	0.05	3	16	5	10920	130	2	4	4	10	790800	8078100
3206832	0.05	0.05	7	23	24	27090	730	8	9	12	10	787800	8076700
3206833	0.05	0.05	2	17	13	11025	50	6	4	5	10	801650	8079050
3206834	0.05	0.05	4	24	11	14910	550	5	5	8	10	804750	8074000
3206835	0.05	0.05	16	58	48	40005	1300	24	12	33	10	804150	8073900
3206836	0.05	0.05	5	30	34	19320	1390	14	6	8	10	804400	8072950
3206837	0.05	0.05	13	60	35	37800	430	22	9	35	10	805200	8071600
3206838	0.05	0.05	21	69	76	55230	530	32	13	44	10	804600	8070800
3206856	0.05	0.05	10	40	34	24360	2970	13	11	13	10	789100	8070200
3206857	0.05	0.05	9	46	49	27195	2820	19	11	16	10	789050	8070000
3206859	0.05	0.05	5	26	12	23000	320	6	15	23	10	785300	8075400
3206878	0.05	0.05	8	58	68	43785	195	27	10	27	10	818200	8069250
3206931	0.05	0.05	18	76	47	39480	410	28	11	29	10	805400	8070200
3206932	0.05	0.05	13	66	45	32550	380	20	10	24	10	804000	8070200
3206933	0.05	0.05	16	92	52	53865	410	35	13	64	10	804350	8069600
3319801	0.05	0.05	21	58	18	66000	600	18	19	93	10	785800	8078900
3319800	0.05	0.05	18	42	44	35600	2010	11	10	69	10	786000	8081250
DET. LIMIT	0.1ppm	0.1ppm	2ppm	2ppm	1ppm	5ppm	2ppm	2ppm	2ppm	1ppm	20ppm		
METHOD	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS		

APPENDIX III

EL 7934 McDermotts Creek

Rock Sample Ledger

CRA EXPLORATION PTY LIMITED
ROCK SAMPLE LEDGER

Tenement: EL 7934 McDermotts Creek

Programme: Reconnaissance Investigations

Sample Type: Rock
Map Ref: Calvert Hills SE5308
Collected By: D.C. Palmer 1993 LAB: Amdel DPO : 71004

SAMPLE No.	EASTING AMG	NORTHING AMG	SAMPLE TYPE	GEOLOGICAL DESCRIPTION
3204123	804228	8074022	Grab	Red-brown, laminated to brecciated, silicified, vuggy carbonate rock with goethite and manganese lined fractures with drusy 'dog-tooth' quartz.
3204124	804228	8074022	Grab	Reb-brown, laminated to brecciated, silicified, vuggy carbonate rock with goethite and manganese lined fractures with drusy 'dog-tooth' quartz.

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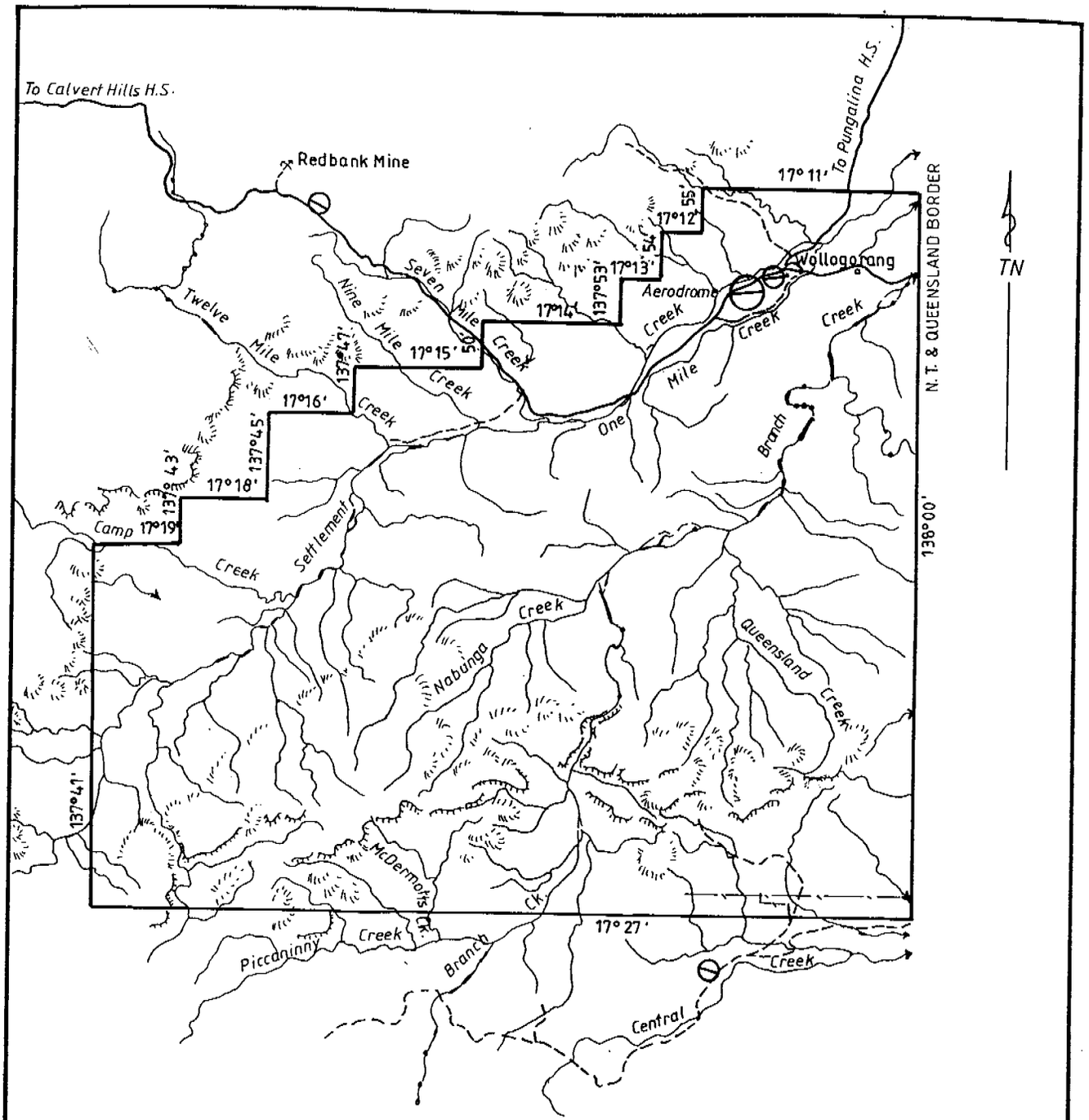
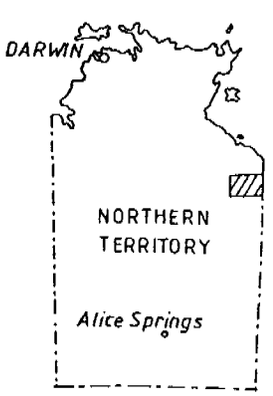
GEOCHEMICAL ASSAYS

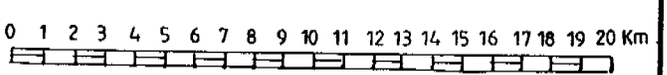
All assay values ppm unless stated.

SAMPLE No.	Cu	Pb	Zn	Ag	As	Ni	Co	Au	U	Th	Ba	Cr	Fe%	Mn	Bi
3204123	17	13	4	<1	60	<4	<4	0.002	10	4	820	195	3.3	350	<10
3204124	33	13	4	<1	<50	<4	<4	0.001	6	5	1400	140	2.26	170	10
ANALYSIS METHOD :	AAS	AAS	AAS	AAS	AAS	AAS	AAS	FIRE	XRF1	XRF1	XRF1	AAS	AAS	AAS	AAS
DETECTION LIMIT :	2	4	2	1	50	4.000	4	0.001	4	4	10	4	5	4	2
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	PPM



AREA : 240 blocks
approx. 784 sq. km.





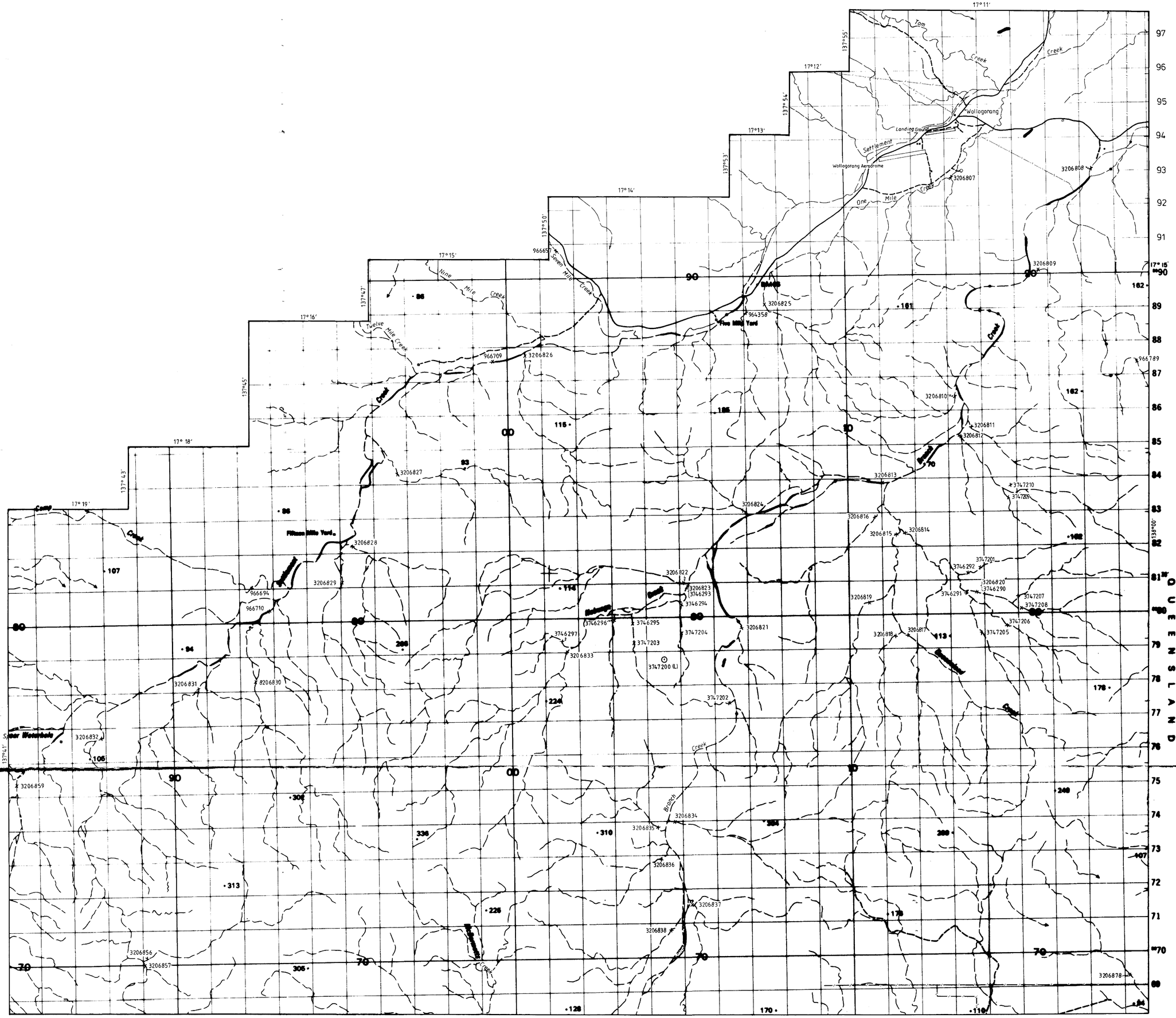
CRA EXPLORATION PTY LIMITED

EL 7934

McDERMOTTS CREEK

LOCATION PLAN

REFERENCE SE 5308 CALVERT HILLS	
SCALE 1: 250, 000	DATE SEPTEMBER 1992
AUTHOR DCP	REPORT 19415
DRAWN SRJ	PLAN No NTd 5527



CRA EXPLORATION PTY. LIMITED

EL 7934 McDERMOTTS CREEK

SAMPLE LOCATION PLAN

Reference SE5308 CALVERT HILLS	
Scale 1:50,000	Drawn SRJ
Author DCP	Report No. 19415
Date NOVEMBER 1993	Plan No. NTd 5886

137° 40'
137° 50'
138° 00'
17° 10'
17° 11'
17° 12'
17° 13'
17° 14'
17° 15'
17° 16'
17° 18'
17° 19'
17° 20'
17° 27'
137° 55'
137° 54'
137° 53'
137° 50'
137° 47'
137° 45'
137° 43'
137° 41'
138° 00'

TRUE NORTH

To Pungalina H.S.
Tom Creek
Creek
Wollogorang H.S.
To Corinda
L/G
To Redbank Mine
Seven Mile Creek
Settlement
One Mile Creek
Creek
Creek
Settlement
Nabunga Creek
Queensland Creek
Spear Waterhole
McDermotts Creek

3206808
3206807
3206809
3206825
3206826
3206810
3206811
3206812
3206827
3206813
3206824
3206816
3206815
3206814
3206828
3319801
3206829
3206822
3206823
3206819
3206820
3206821
3206818
3206817
3319800
3206833
3206830
3206831
3206832
3206859
3206834
3206835
3206836
3206837
3206838
3206932
3206931
3206933
3206856
3206857
3206878

LEGEND

- Creek
- L/G — Landing Ground
- Road / Track
- Buildings
- Fence
- X 3206878 — 80m STREAM SEDIMENT SAMPLE LOCATION

0 1 2 3 4 5 6 7 8 9 10 Km

CRA EXPLORATION PTY LIMITED

EL 7934 McDERMOTTS CREEK
-80m STREAM SEDIMENT
SAMPLE LOCATION PLAN

REFERENCE SE 5308 CALVERT HILLS	
SCALE 1:100,000	DATE NOV. 1992
AUTHOR DCP	REPORT 19415
DRAWN SRJ	PLAN No NTd5552

137° 40'
137° 50'
138° 00'
17° 10'
17° 11'
17° 12'
17° 13'
17° 14'
17° 15'
17° 16'
17° 18'
17° 19'
17° 20'
17° 27'
137° 55'
137° 54'
137° 53'
137° 50'
137° 47'
137° 45'
137° 43'
137° 41'
138° 00'

TRUE NORTH

To Pungalina H.S.
Tom Creek
Creek
Wellogarang H.S.
To Corinda
L/G
Creek
To Redbank Mine
Settlement
One Mile
Seven Mile Creek
Creek
Creek
Settlement
Nabunga Creek
Queensland Creek
Spear Waterhole
3204123
McDermotts Creek

97 96 95 94 93 92 91 90 89 88 87 86 85 84 83 82 81 80 79 78 77 76 75 74 73 72 71 70 69

86 87 88 89 90 91 92 93 94 95 96 97 98 99 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18

LEGEND

- Creek
- L/G — Landing Ground
- Road / Track
- Buildings
- Fence
- Sample Location

0 1 2 3 4 5 6 7 8 9 10 Km.

CRA EXPLORATION PTY LIMITED

EL 7934 McDERMOTTS CREEK

ROCK SAMPLE LOCATION PLAN

REFERENCE SE 5308 CALVERT HILLS	
SCALE 1:100,000	DATE NOV. 1992.
AUTHOR DCP.	REPORT 19415
DRAWN SRJ	PLAN No NTd 5901