BLEG sampling & -80# SSS.
start → & End. copy all text.
App. I, II.
DWG NO: NTd 5708, 5730, 572?
Calvert Hills 1:250K.
6463 & 6462. 1:100k.
Wollogorang 1:100k

CRA EXPLORATION PTY. LIMITED

EL 7187 BREAKNECK CREEK, N.T.

Relinquishment Report for Period Ending 10 December, 1992

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Accepted by:	H. J. Roiko	....
Date:	February, 1993	
Copies to:	N.T. Department of Mines & Energy CIS, Canberra CRA Exploration, Darwin CRA Exploration, Mt Isa CRA Exploration, Brisbane	
Map Reference:	Calvert Hills SE 5308	
Report No:	18590	

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BLEG Sample Ledger & Assay Results

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-80# Stream Sediment Sample Ledger and Assay Results

APPENDIX III EL 7187 Breakneck Creek (Relinquished Area)
-2mm Gravel Sample Ledger and Indicator Mineral Results

1. SUMMARY

EL 7187 Breakneck Creek was granted to CRA Exploration Pty. Limited on 11 December, 1990. The tenement covers an area of 220 blocks (680 sq.km) and is located adjacent to the N.T./Qld. border, 35km south of Wollogorang Station, within the Proterozoic McArthur Basin.

The licence area was considered prospective for diamondiferous kimberlitic diatremes and for U-(Au) mineralisation at the Tawallah Group Seigal Volcanics contact with the Westmoreland Conglomerate.

Portions of EL 7187 considered to have limited potential for outcropping kimberlitic diatremes or economic U-Au mineralisation were identified and a total of 110 blocks (359 sq.km) were surrendered within EL 7187 as part of a tenure year two statutory reduction of area.

Work programmes completed within relinquished portions of EL 7187 included; an historical open file review, helicopter-assisted reconnaissance density gravel sampling and BLEG sampling programmes, fine fraction stream sediment sampling and multi-element geochemical assaying. Processing of gravel samples for kimberlitic indicator minerals was completed by the CRAE Belmont Laboratory.

This report details all work activities completed within relinquished portions of EL 7187 Breakneck Creek surrendered during a tenure year two statutory reduction of area.

2. CONCLUSIONS

The following conclusions are drawn from exploration activities completed within relinquished portions of EL 7187 Breakneck Creek;

(i) Low order basemetal and gold values report from catchment areas located in the northern portion of the licence area draining soil-covered and poorly outcropping Tawallah Group sequences.

(ii). Non-kimberlitic chromites report from catchment areas in the north and eastern portions of the tenement.

3. INTRODUCTION

EL 7187 Breakneck Creek was granted to CRA Exploration Pty. Limited on 11 December 1990, for a period of six years. The tenement covers an area of 220 blocks (680 sq.km) and is located adjacent to the N.T./Qld. border, 35km south of Wollogorang Station.

The licence area was considered prospective for diamondiferous kimberlitic diatremes and for U-(Au) mineralisation at the Tawallah Group Seigal Volcanics contact with the Westmoreland Conglomerate.

Areas displaying limited prospectivity within EL 7187 were identified and a total of 110 blocks (359 sq.km) were surrendered as part of a tenure year two statutory reduction of area (Plan NTd 5708).

This report details all work activities completed within relinquished portions of EL 7187 Breakneck Creek.

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 7187 Breakneck Creek is drawn from these sources. The stratigraphic succession appears in Table 1.

Exploration Licence 7187 Breakneck 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), both of which are intruded by granite/adamellite of the Nicholson Granite Complex. The Cliffdale Volcanics are restricted to the south-eastern portion of the exploration licence.

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 forms northwest trending dip slopes in the southern portion of the exploration licence. By contrast, outcrop of the Westmoreland Conglomerate within the central portion of the licence is largely confined to fault zones.

The Seigal Volcanics outcrop throughout the majority of the licence area forming a northeast trending belt of tholeiitic basic lavas with minor tuff interbeds which conformably overlie the Westmoreland Conglomerate. A thin (up to 20m) arenaceous and conglomeratic sequence termed the Carolina Sandstone Member occurs as a medial lens within the Seigal Volcanics.

The McDermott Formation conformably overlies the Seigal Volcanics in the northwestern portion of the licence area. The McDermott Formation is 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 the glauconitic sandstone of the Aquarium Formation. Exposures of Aquarium Formation within the licence area are very limited.

The entire Proterozoic sequence has undergone gentle flexuring and fault reactivation. The Phanerozoic records minor Cambrian and Cretaceous marine transgressions during which thin veneers of sediment were deposited.

Soil, sand and ferruginous detritus of Tertiary and Quaternary Age cover areas in the northern relinquished portions of the licence area.

5. EXPLORATION ACTIVITIES

5.1 BLEG SAMPLING

Geochemical prospecting was undertaken within EL 7187 Breakneck Creek using Au as a pathfinder metal in an attempt to locate repetitions of Redtree/Junnagunna-styles of U-(Au) mineralisation obscure to direct radiometric detection.

The exploration licence area was subjected to a reconnaissance density, helicopter-supported bulk cyanide leach extractable gold (BLEG) stream sediment sampling programme. Approximately 5kg of minus 2mm material was collected at each sample site by skimming a thin layer of active sediment from the full width of the stream channel. Trap sites were specifically avoided. Samples were collected at an average density of one per 5 sq.km.

Samples were submitted to Analabs, Townsville, where the entire sample was subjected to active leaching (24 hour for the roll) followed by graphite furnace AAS analysis for Au (0.1ppb LDL).

Low order Au values (max 1.43ppb) were reported from the sixty-two samples collected within relinquished portions of EL 7187 Breakneck Creek. Sample locations appear on plan NTd 5729. Assay results and sample ledgers are tabulated in Appendix I.

5.2 -80# STREAM SEDIMENT SAMPLING AND GEOCHEMISTRY

A fine fraction stream sediment sampling programme was completed over the northern portion of the licence area encompassed by the Wollogorang 1:100 000 mapsheet. The minus 80# fraction samples were collected from active stream sediment at an effective sampling density of 1:3.5km^2.

Samples were submitted to Classic Laboratories, Darwin for assay by AAS for Ag, As, Cd, Co, Cr, Cu, Fe, Mn, Ni, Pb and Zn. No significant basemetal assay values were returned from the 56 samples collected within the relinquished portions of EL 7187 Breakneck Creek.

Sample locations are shown on plan NTd 5730, whilst sample ledgers and assay results are presented in Appendix II.

5.3 -2mm GRAVEL SAMPLING & INDICATOR MINERAL RESULTS

The entire licence area was subjected to a helicopter-supported reconnaissance density, minus 2mm fraction gravel sampling programme in an attempt to locate outcropping or partially exposed kimberlitic diatremes via indicator mineral dispersion trains. A 20kg sample of -2mm fraction sieved drainage sediment was collected from heavy mineral trapsites within the licence area. Sample locations are shown on plan NTd 5731.

In conjunction with the gravel sample, a reference -80# fraction sample of active sediment was collected at each site.

The gravel samples were processed for kimberlitic indicator minerals by the CRAE Belmont laboratory. A total of 26 samples were collected within the relinquished portions of EL 7187. Positive indicator mineral results were reported from the following samples;-

3204872	(40 x +0.4mm chromites, 40 x +0.5mm chromite)
3204876	(7 x +0.4mm chromite)
3206877	(2 x +0.5mm chromite)
3206884	(1 x +0.4mm chromite)
3206885	(1 x +0.4mm chromite)

Non-kimberlitic chromites reporting from samples 3206884 and 3206885 suggest a Seigal Volcanics provenance and the possibility of a secondary-source shedding from the Westmoreland Conglomerate.

Non-kimberlitic chromite grains reporting in samples 3206872, 3206876 and 3206877 from catchment areas located along the eastern margin of EL 7187 are sourced from andesitic Cliffdale Volcanics.

Sample ledgers and indicator mineral results are tabulated in Appendix III.

6. REFERENCES

Ahmad, M. & Wygralak, A.S. 1984 1:250 000 Metallogenic Map Series Explanatory Notes & 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

BLEG Sampling; Chromite; Cliffdale Volcanics, Diamond; Geochemistry; Gold, Gravel Sampling; Kimberlitic Indicator; McArthur Basin; Pre-Cambrian; Proterozoic-Mid; Seigal Volcanics; Stream Sediment Sampling; Uranium, Westmoreland Conglomerate;

8. LOCATION

Calvert Hills	SE 5308	1:250 000 mapsheet
Wollogorang	6463	1:100 000 mapsheet
Seigal	6462	1:100 000 mapsheet

9. LIST OF DPO's

67247, 71057, 71104

10. LIST OF PLANS

Plan No.	Title	Scale
NTd 5708	EL 7187 Breakneck Creek Location Plan; Reduction of Area	1:250 000
NTd 5729	EL 7187 Breakneck Creek (Relinquished Area) -2mm BLEG Stream Sediment Sample Location Plan	1:100 000
NTd 5730	EL 7187 Breakneck Creek (Relinquished Area) -80# Stream Sediment Sample LocatioN Plan	1:100 000
NTd 5731	EL 7187 Breakneck Creek (Relinquished Area) Gravel Sample Location Plan	1:100 000

11. LIST OF TABLES

Table 1 Stratigraphic Succession within EL 7187 Breakneck Creek

APPENDIX I

EL 7187 Breakneck Creek
(Relinquished Area)

BLEG Sample Ledger & Assay Results

Tenement: EL7187 Breakneck Ck (RELINQUISHED AREA)
Programme: -2mm BLEG Stream Sediment Sample
Collected: October 1991 Lab: Analabs, Townsville
Collected by: Parkinson DPO: 67247
Below Detection shown as 0.03 ppb

sampleno	east (amg)	north(amg)	Au (ppb)
3178695	817750	8053750	0.10
3178696	817250	8052800	0.05
3178697	816600	8052700	0.03
3178698	816200	8051500	0.06
3178707	809800	8051400	0.03
3178708	809650	8051400	0.06
3178709	815900	8054350	0.05
3178769	814550	8061300	0.36
3178774	787300	8056000	0.45
3178777	788900	8060200	0.03
3178778	789900	8058600	0.03
3178788	818100	8061200	0.71
3178789	818200	8062750	0.53
3178791	784500	8058800	0.03
3178792	784500	8058600	0.06
3178793	783100	8056700	0.03
3178794	783600	8059900	0.09
3178795	783600	8060100	0.03
3178796	785100	8062550	0.03
3178797	781950	8059750	0.08
3178798	780850	8062100	0.03
3178799	780850	8062500	0.19
3178800	780500	8065500	0.08
3178801	780300	8067500	0.03
3178802	782300	8068600	0.07
3178803	783150	8069050	0.03
3178804	783950	8068700	0.05
3178805	788900	8068100	0.03
3178806	790750	8067350	0.11
3178807	786150	8063450	0.03
3178808	785950	8063450	0.03
3178809	785950	8063800	0.03
3178810	787700	8066000	0.05
3178811	791050	8065050	0.19
3178812	790900	8065150	0.27
3178813	792950	8066300	0.26
3178814	792700	8066700	0.14
3178815	794000	8066100	0.33
3178816	795100	8067000	0.12
3178817	797650	8066900	1.43
3178818	798000	8066450	0.22
3178820	794800	8064050	0.30
3178821	794650	8064100	0.40
3178825	800150	8064900	0.22

sampleno	east (amg)	north(amg)	Au (ppb)
3178826	801300	8067100	0.14
3178827	801350	8066850	0.08
3178828	803100	8067600	0.47
3178829	802850	8067800	0.06
3178830	804650	8067600	0.13
3178831	804750	8065800	0.23
3178833	805600	8063100	0.22
3178834	808400	8063300	0.26
3178835	809600	8064000	0.22
3178836	810900	8065400	0.25
3178837	810000	8066750	0.31
3178838	813400	8067000	0.27
3178839	813350	8065800	0.18
3178840	813250	8065400	0.27
3178841	812950	8063650	0.36
3178842	815800	8066400	0.19
3178843	815300	8066900	0.45
3178844	817800	8066450	0.19
method			cyan. leach
det.			0.05 ppb

APPENDIX II

EL 7187 Breakneck Creek
(Relinquished Area)

-80# Stream Sediment Sample Ledger & Assay Results

CRA EXPLORATION PTY. LIMITED
GEOCHEMISTRY SAMPLE ASSAY RESULTS

Sample Type : -80# Stream sediment
DPO: 71104

Values < detection shown as half detection limit
LAB: Amdel Laboratories

SAMPNO	Ag ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	Mn ppm	Ni ppm	Pb ppm	Zn ppm	As ppm
3206839	0.05	0.05	18	83	49	47880	400	39	11	54	10
3206840	0.05	0.05	26	62	84	59850	880	31	15	51	10
3206841	0.05	0.05	21	89	78	56700	640	34	16	73	10
3206843	0.05	0.05	29	83	110	93135	680	43	24	130	10
3206844	0.05	0.05	16	71	53	38535	700	25	14	35	10
3206860	0.05	0.05	3	46	15	26985	115	10	9	9	10
3206863	0.05	0.05	3	36	24	25200	320	7	8	12	10
3206880	0.05	0.05	26	88	69	45570	770	42	15	42	10
3206881	0.05	0.05	20	78	52	41580	510	41	13	28	10
3206882	0.05	0.05	20	110	52	45570	410	49	13	54	10
3206885	0.05	0.05	29	165	81	57015	640	78	16	75	10
3206887	0.05	0.05	24	140	65	50715	520	60	16	74	10
3206888	0.05	0.05	16	95	36	39165	410	35	14	39	10
3206889	0.05	0.05	14	100	46	39270	380	40	11	43	10
3206890	0.05	0.05	11	68	38	35070	350	31	10	27	10
3206891	0.05	0.05	27	60	84	63420	670	32	20	41	10
3206892	0.05	0.05	23	85	87	56490	630	37	16	37	10
3206893	0.05	0.05	20	115	53	47460	470	48	13	57	10
3206894	0.05	0.05	15	120	55	41790	380	51	13	35	10
3206895	0.05	0.05	18	95	55	44835	410	57	11	51	10
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
GEOCHEMISTRY SAMPLE ASSAY RESULTS

Sample Type : -80# Stream sediment
DPO: 71104

Values < detection shown as half detection limit
LAB: Amdel Laboratories

SAMPNO	Ag ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	Mn ppm	Ni ppm	Pb ppm	Zn ppm	As ppm
3206898	0.05	0.05	11	79	30	28875	320	33	7	26	10
3206899	0.05	0.05	11	95	31	29400	310	35	9	35	10
3206904	0.05	0.05	26	84	115	86730	660	43	19	100	10
3206905	0.05	0.05	28	99	135	76020	720	49	31	77	10
3206906	0.05	0.05	14	88	47	42945	520	27	9	31	10
3206907	0.05	0.05	20	75	65	44205	780	33	13	39	10
3206908	0.05	0.05	6	46	25	25620	590	14	10	12	10
3206909	0.05	0.05	6	37	37	20370	850	9	8	13	10
3206910	0.05	0.05	3	30	19	10395	230	8	5	7	10
3206911	0.05	0.05	4	42	24	26355	390	8	10	10	10
3206912	0.05	0.05	2	26	7	10710	390	3	4	6	10
3206913	0.05	0.05	5	37	12	30240	110	9	8	10	10
3206914	0.05	0.05	7	46	15	54810	250	10	15	22	10
3206915	0.05	0.05	1	59	3	12390	67	3	3	4	10
3206917	0.05	0.05	6	32	16	16485	700	8	5	10	10
3206926	0.05	0.05	15	72	34	27405	480	22	10	16	10
3206927	0.05	0.05	21	87	60	42105	440	35	12	37	10
3206928	0.05	0.05	23	63	76	46620	810	30	13	40	10
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
GEOCHEMISTRY SAMPLE ASSAY RESULTS

Sample Type : -80# Stream sediment
DPO: 71104

Values < detection shown as half detection limit
LAB: Amdel Laboratories

SAMPNO	Ag ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	Mn ppm	Ni ppm	Pb ppm	Zn ppm	As ppm
3206929	0.05	0.05	21	67	71	44310	740	28	12	41	10
3206930	0.05	0.05	15	74	43	31920	430	26	9	24	10
3206934	0.05	0.05	19	73	64	61320	460	35	12	64	10
3206935	0.05	0.05	14	66	78	48615	480	24	13	52	10
3206936	0.5	0.05	24	91	92	58800	520	40	15	58	10
3206937	0.05	0.05	15	62	64	42525	500	22	11	43	10
3206938	0.05	0.05	10	56	45	33075	670	16	8	25	10
3206939	0.05	0.05	23	85	81	55020	710	35	16	45	10
3206940	0.05	0.05	13	64	37	43785	420	20	9	40	10
3206941	0.05	0.05	10	48	36	29400	1390	14	9	25	10
3206942	0.05	0.05	11	59	42	35595	850	22	10	30	10
3206943	0.05	0.05	12	41	45	27930	2220	14	12	16	10
3206944	0.05	0.05	6	42	28	24360	990	7	8	10	10
3206945	0.05	0.05	6	36	38	19320	560	10	8	8	10
3206946	0.05	0.05	3	31	6	25830	160	2	6	6	10
3206947	0.05	0.05	3	41	7	24990	105	3	8	6	10
3206948	0.05	0.05	3	38	26	16485	79	13	16	8	10
3206952	0.05	0.05	12	45	18	62160	730	13	18	68	10
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

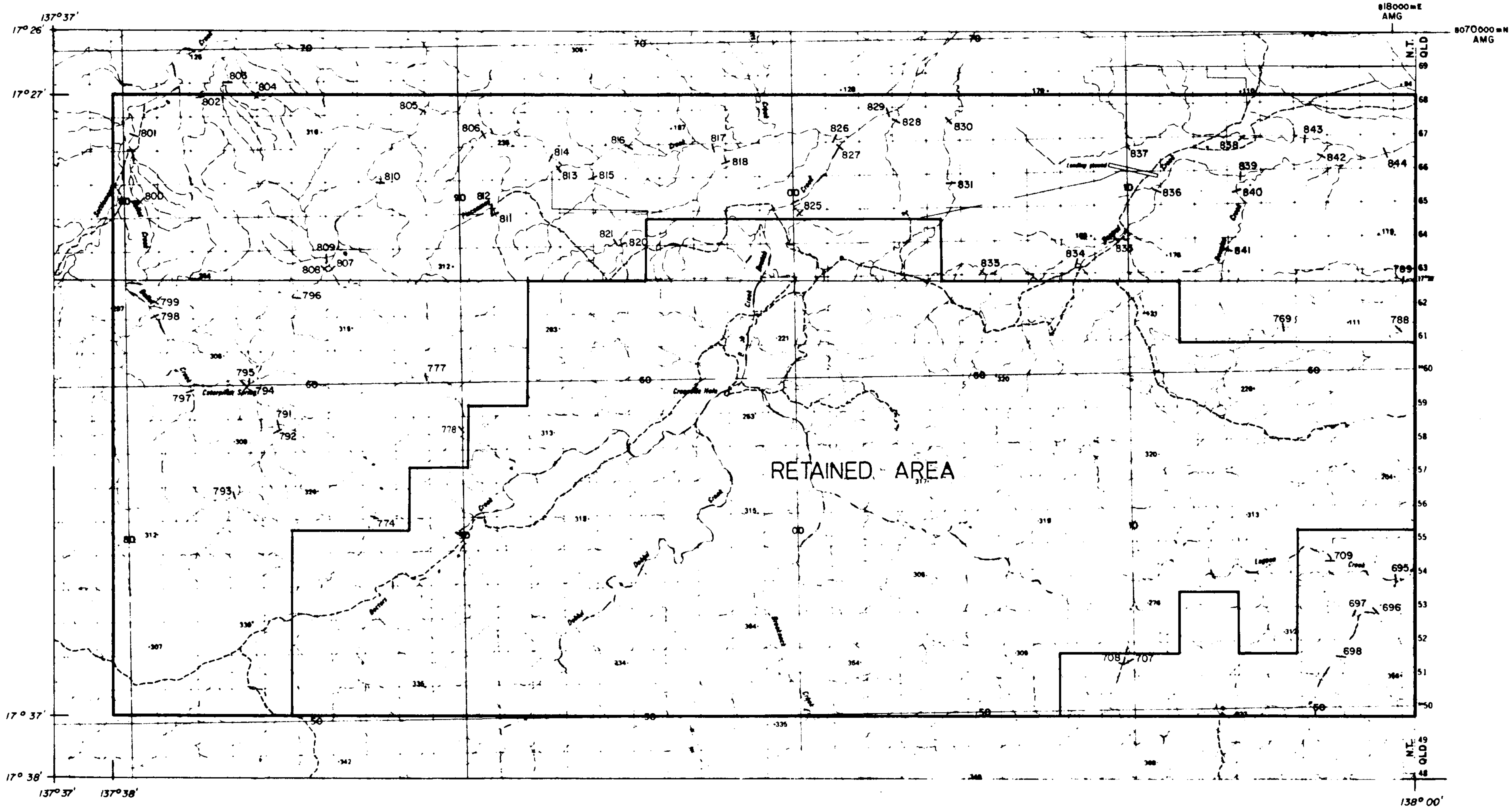
APPENDIX III

EL 7187 Breakneck Creek
(Relinquished Area)

-2mm Gravel Sample Ledger & Indicator Mineral Results

2mm Trapsite Drainage Gravel Samples - BREAKNECK CREEK

	CRA EXPLORATION PTY. LIMITED			
	INDICATOR MINERAL RESULTS			
Location : BREAKNECK CREEK EL7187 (Relinquished portions)				
Sample Type: -2mm TRAPSITE DRAINAGE GRAVEL SAMPLES				
DPO: 71057				
SAMPLE	EASTING	NORTHING	KI MINERALS	KI MINERALS
	AMG	AMG	>0.4 mm fraction	>0.5 mm fraction
3206839	801600	8067000	Negative	Negative
3206840	801600	8067150	Negative	Negative
3206841	799450	8067550	Negative	Negative
3206842	797750	8066900	Negative	Negative
3206843	797950	8066600	Negative	Negative
3206844	798400	8067000	Negative	Negative
3206853	784450	8058600	Negative	Negative
3206854	782150	8060000	Negative	Negative
3206855	780400	8061850	Negative	Negative
3206860	787100	8065250	Negative	Negative
3206862	793200	8066400	Negative	Negative
3206863	780150	8065000	Negative	Negative
3206872	817800	8053750	40x chromite	40x chromite
3206873	807250	8052800	Negative	Negative
3206876	818100	8061200	7x chromite	Negative
3206877	818600	8062750	Negative	2x chromite
3206879	817250	8066250	Negative	Negative
3206880	816120	8067550	Negative	Negative
3206881	813700	8065700	Negative	Negative
3206882	817750	8065950	Negative	Negative
3206883	815800	8066800	Negative	Negative
3206884	811250	8067300	1x chromite	Negative
3206885	809900	8064050	1x chromite	Negative
3206886	811800	8067500	Negative	Negative
3206887	808150	8063400	Negative	Negative
3206888	808800	8032800	Negative	Negative



Sample number prefix - 3178___

TN
AMG
NORTH

1 0 1 2 3 4 5 6Km
Scale 1:100 000

CRA EXPLORATION PTY LIMITED

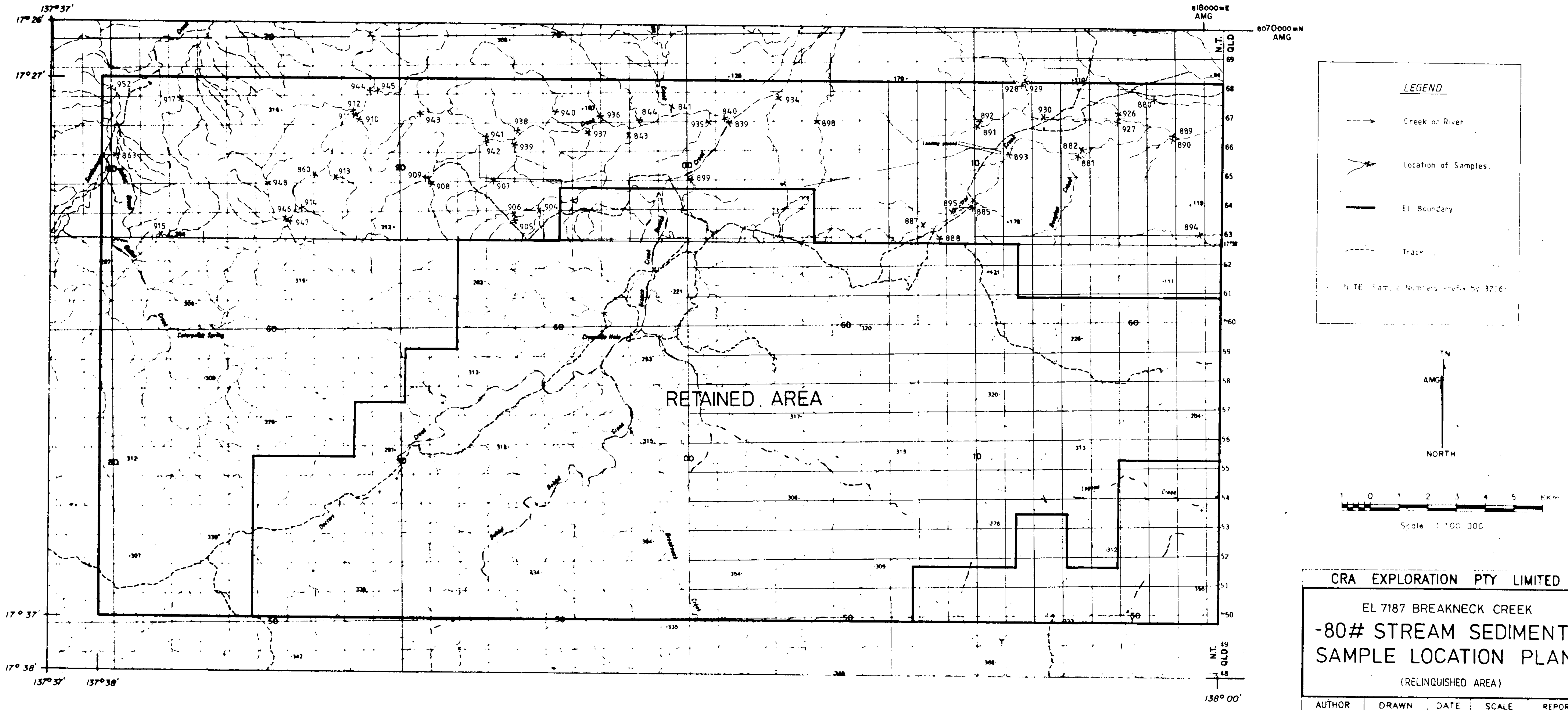
BREAKNECK CREEK EL7187

-2mm BLEG STREAM SEDIMENT

SAMPLE LOCATION PLAN
RELINQUISHED AREA CR 93/192

AUTHOR	DRAWN	DATE	SCALE	REPORT
R. Parkinson	A. Perry	5/12/91	1:100000	18590
REF. Calvert Hills SE53-8		SUB-DIR	PLAN No. (file)	NTm 31

NTd 5729



CRA EXPLORATION PTY LIMITED

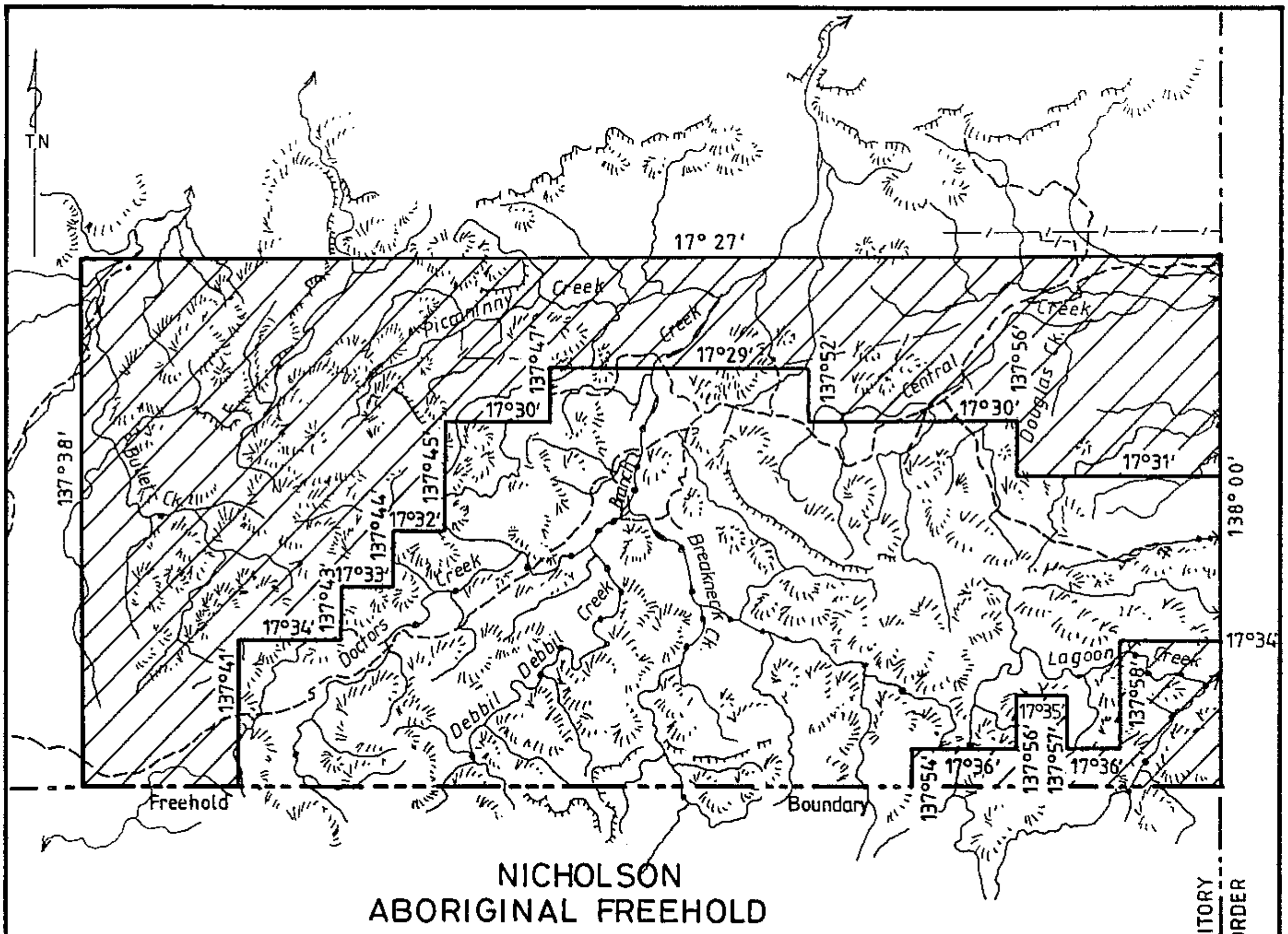
EL 7187 BREAKNECK CREEK

-80# STREAM SEDIMENT SAMPLE LOCATION PLAN

(RELINQUISHED AREA)

AUTHOR	DRAWN	DATE	SCALE	REPORT
DCP	TTN.	OCT 1991	1:100000	18590
REF. Calvert Hills SE53-8		SUB-DIR	PLAN No (file)	NTd 5730

CR93/192

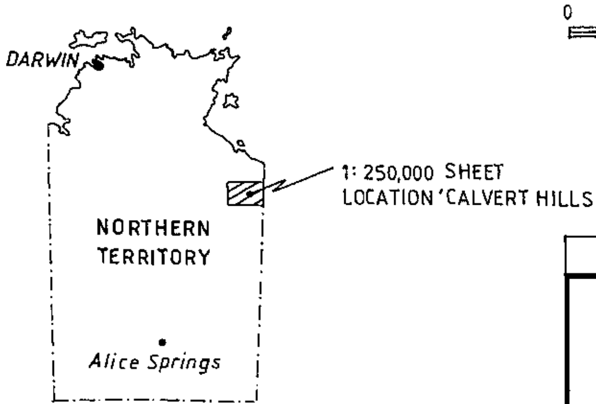


ORIGINAL AREA: 220 blocks.
approx. 718 sq.Km.

Area to be Relinquished.

Area Retained 110 blocks.
approx. 359 sq.Km.

0 5 10 15 20 Km.



CRA EXPLORATION PTY LIMITED

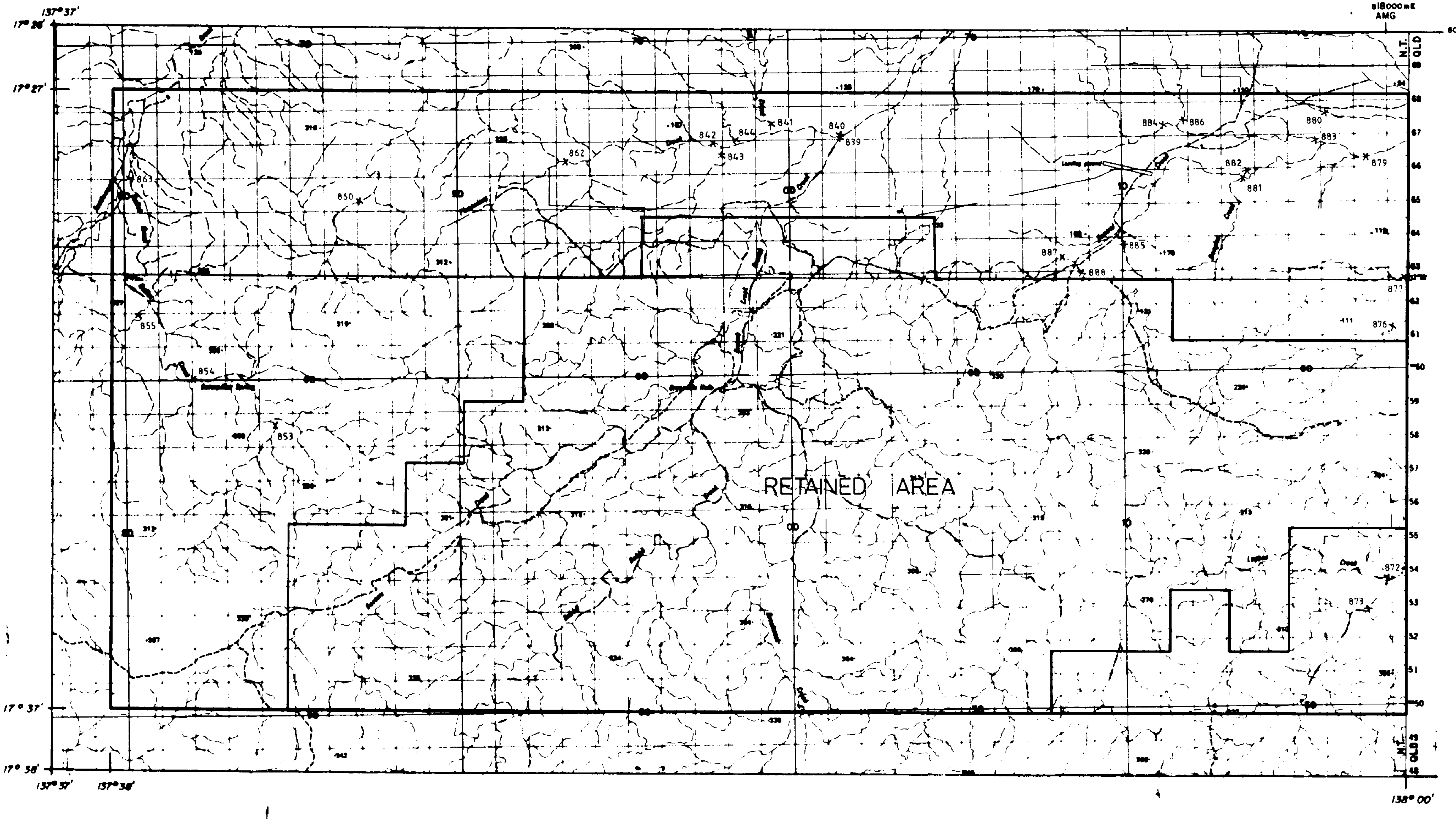
EL 7187

BREAKNECK CREEK

LOCATION PLAN

REDUCTION OF AREA

REFERENCE SE 53-8 CALVERT HILLS	
SCALE 1: 250,000	DATE SEPTEMBER 1990
AUTHOR D.C.P.	REPORT 18590
DRAWN SRJ	PLAN No NTd 5708.



LEGEND.

Creek or River

Location of Samples

EL Boundary

Track

NOTE Sample Numbers Prefix by 3206

TN

AMG

NORTH

1 0 1 2 3 4 5 6Km

Scale 1:100 000

CRA EXPLORATION PTY LIMITED

EL 7187 BREAKNECK CREEK

GRAVEL SAMPLE LOCATION PLAN

RELINQUISHED AREA

AUTHOR	DRAWN	DATE	SCALE	REPORT
DCP	TTN.	OCT.91 NOV.92	1:100000	18590

REF. Calvert Hills SE53-8 | PLAN No. NTd 5731