DU PONT OF CANADA EXPLORATION LIMITED

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE MAYBE PROPERTY

WHITEHORSE MINING DIVISION

(YUKON TERRITORY)

LAT. 61°18'N, LONG. 134°12'W

NTS: 105-E-8

OWNER OF CLAIMS: DU PONT OF CANADA EXPLORATION LIMITED

OPERATOR: DU PONT OF CANADA EXPLORATION LIMITED

091042

Submitted by: D. M. Strain
J.T. Neelands

Date : 1982 June

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INTRODUCTION

During 1981 May, reconnaissance stream sediment sampling was carried out in the Livingston area east of Lake Laberge. The sampling was undertaken as part of a large regional programme known as Kulta Project. The areal extent of this project is shown on Dwgs. KU.81-1, 1a and 2.

As the result of an anomalous gold sample in May Creek which drains into the South Big Salmon River, the drainage area of the creek was staked as the MAYBE property.

LOCATION AND ACCESS

The claims are located within the Whitehorse Mining Division, NTS 105-E-8E (Lat. 61°18'N, Long. 134°12'W). The property is located 13 km southeast of the Livingston landing strip. The nearest population centre, Whitehorse, lies 77 kilometres to the southwest from which the property is accessible by helicopter.

TOPOGRAPHY AND VEGETATION

The claims cover a portion of May creek and South Big Salmon River. The May River flows south into the South Big Salmon River which in turn flows west into the Big Salmon River. Drainage is to the north. Elevation varies from a maximum of 1675 metres at the top of the ridge to 1065 metres in the South Big Salmon River Valley. The upper elevations are covered by grasses and scattered low evergreen shrubs. In the valley spruce and alder dominate.

PROPERTY DEFINITION

The property consists of 64 claims. See Dwg. No. KU.81-258 for distribution of claim and licence numbers. The property was recorded 1981 June 8.

Claims MAYBE 1-64, Licence Nos. YA60693 to YA60756

PERSONNEL

Property work was performed by the following people on the dates indicated:

1981 August 16:	D. Strain	(Senior Geological Assistant
	P. Webb	(Junior Geological Assistant)
1981 August 18:	D. Strain	
	P. Webb	

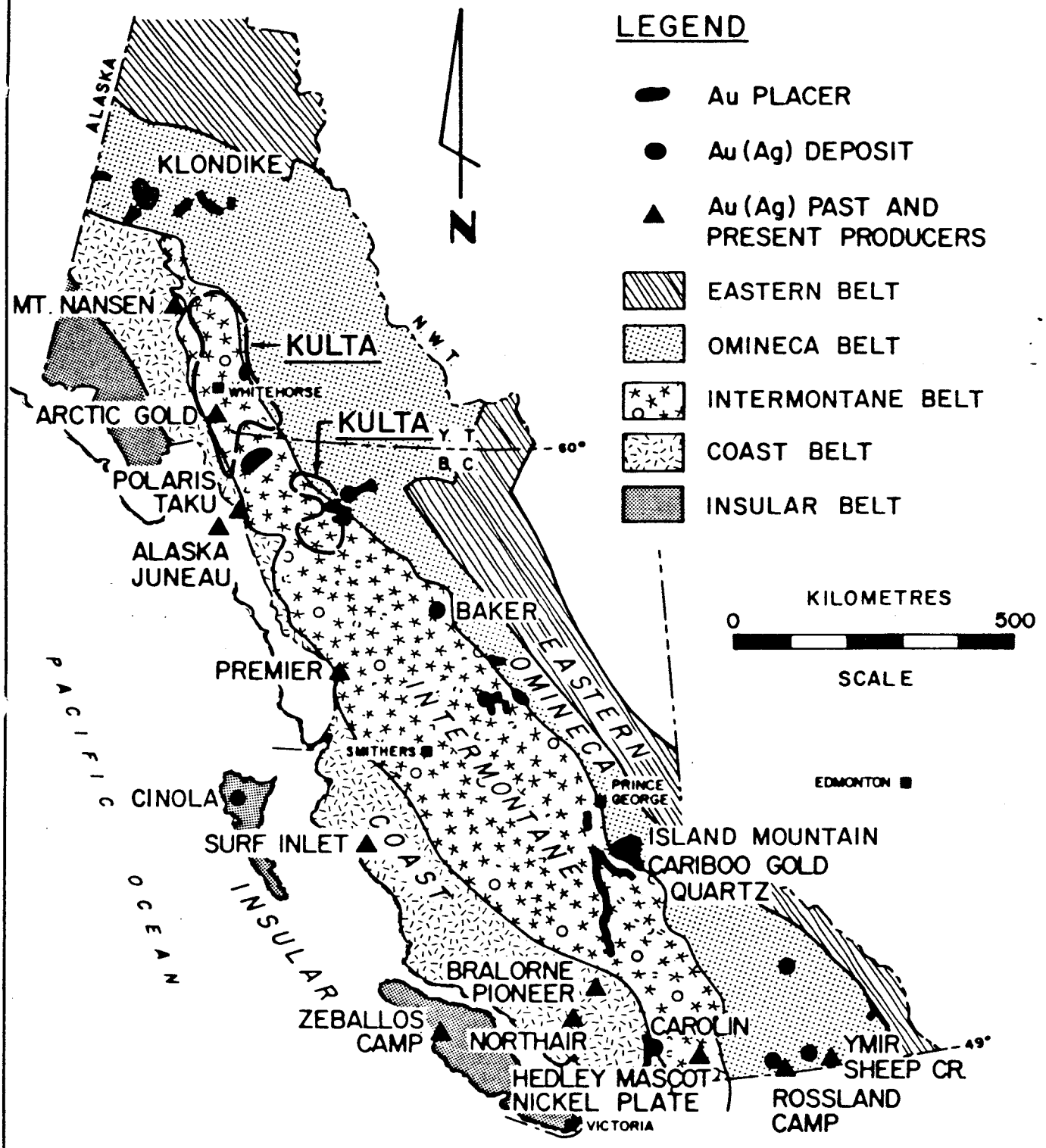
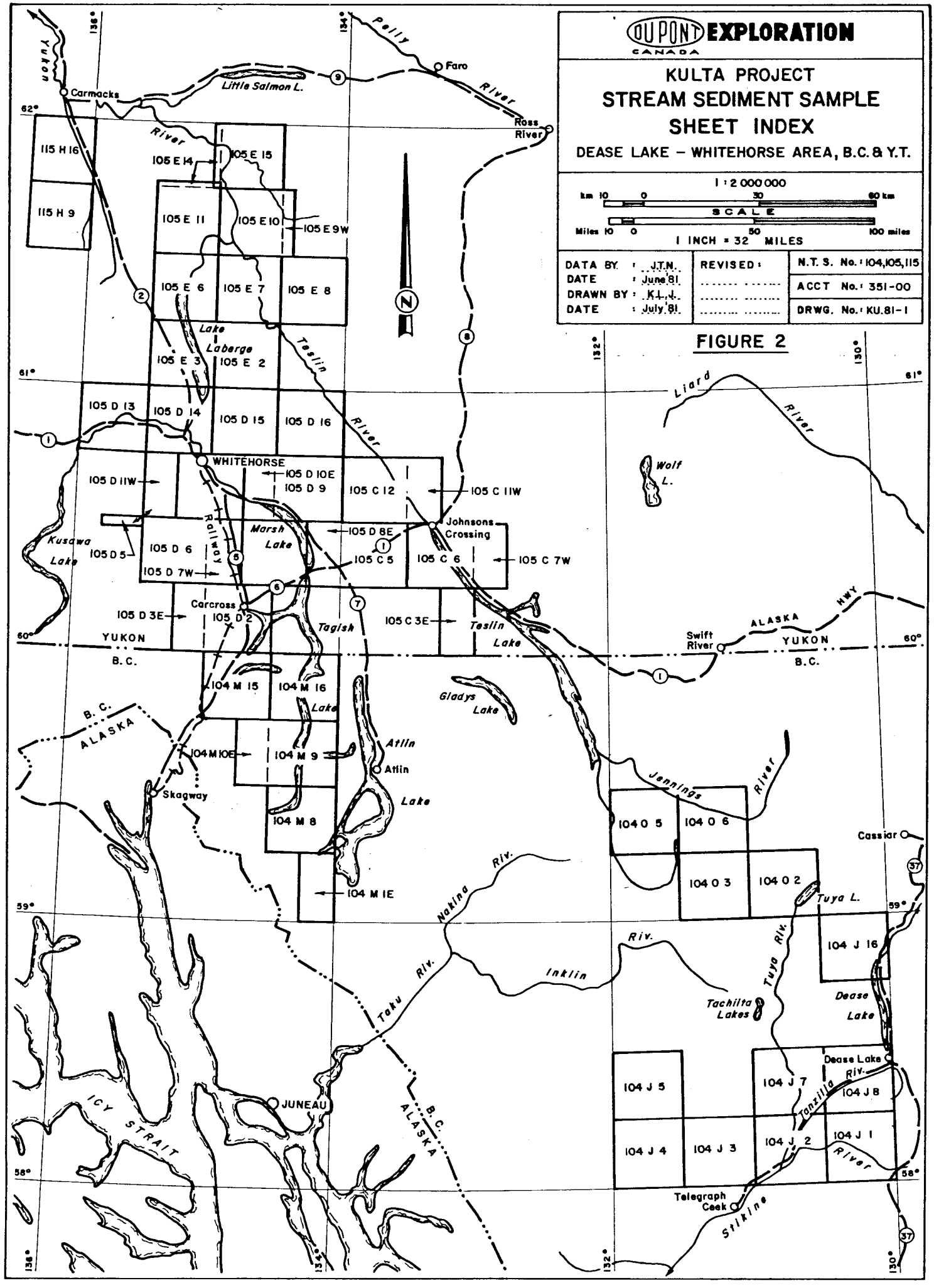
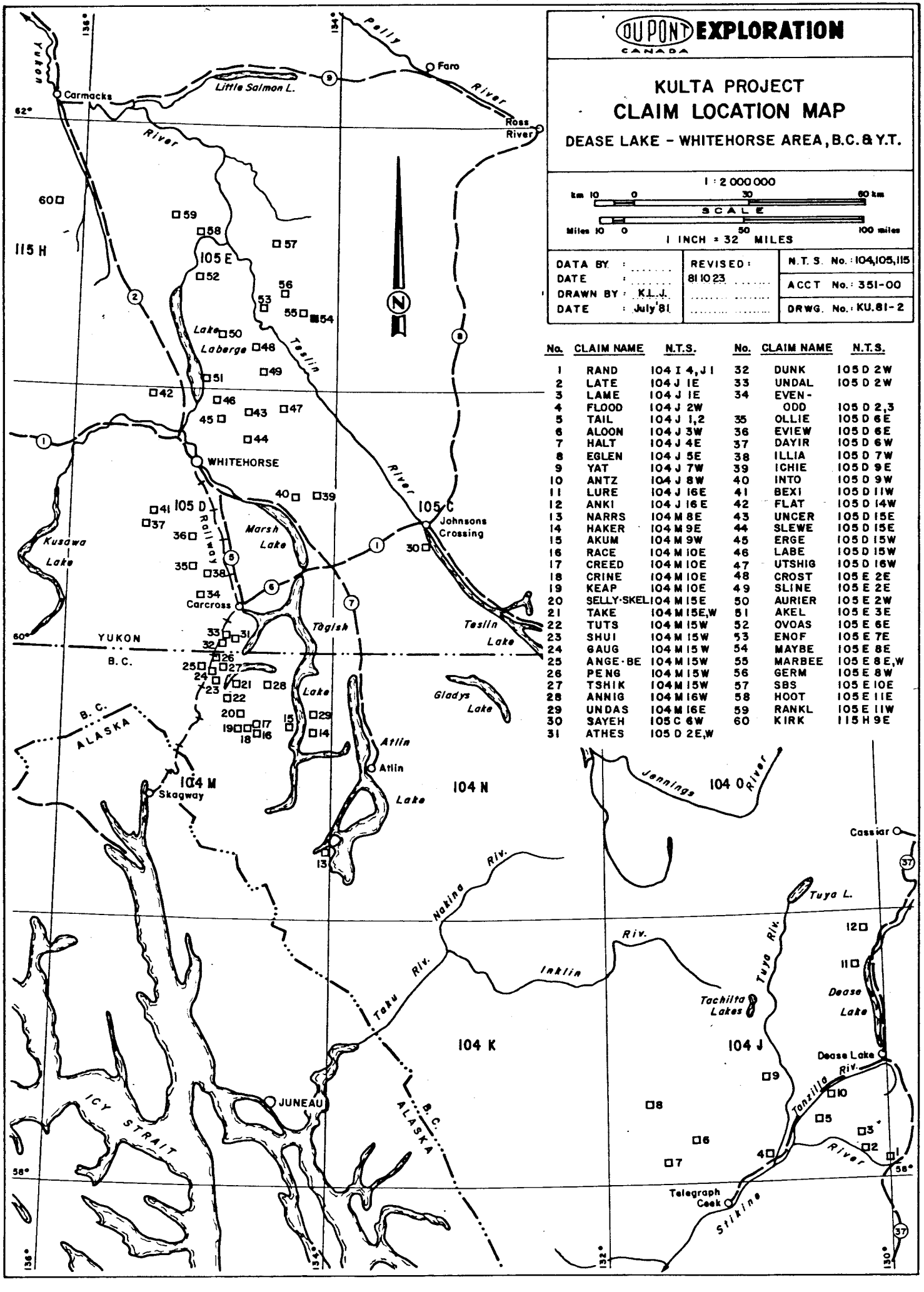


FIGURE 1

KULTA PROJECT AREAS

PRINCIPAL LODE & PLACER GOLD DEPOSITS CANADIAN CORDILLERA


DUPONT EXPLORATION
CANADA
KULTA PROJECT
STREAM SEDIMENT SAMPLE
SHEET INDEX
DEASE LAKE – WHITEHORSE AREA, B.C. & Y.T.
1 : 2 000 000
km 10 0 30 60 km
SCALE
Miles 10 0 50 100 miles
1 INCH = 32 MILES
DATA BY : J.T.N.
DATE : June 81
DRAWN BY : K.L.J.
DATE : July 81
REVISED :
N.T.S. No. : 104,105,115
ACCT No. : 351-00
DRWG. No. : KU.81-1
FIGURE 2
Yukon
Carmacks
Little Salmon L.
Pelly River
Faro
Ross River
115 H 16
115 H 9
105 E 14
105 E 15
105 E 11
105 E 10
105 E 9W
105 E 6
105 E 7
105 E 8
Lake Laberge
105 E 3
105 E 2
Teslin River
105 D 13
105 D 14
105 D 15
105 D 16
WHITEHORSE
105 D 11W
105 D 10E
105 D 9
105 C 12
105 C 11W
Wolf L.
Liard River
Kusawa Lake
105 D 5
105 D 6
105 D 7W
Marsh Lake
105 D 8E
Johnsons Crossing
105 C 5
105 C 6
105 C 7W
Carcross
105 D 3E
105 D 2
Tagish
105 C 3E
Teslin Lake
YUKON
B.C.
Swift River
ALASKA HWY
104 M 15
104 M 16
Gladys Lake
B.C. ALASKA
104 M 10E
104 M 9
Atlin
Atlin Lake
Skagway
104 M 8
104 M 1E
Jennings River
104 O 5
104 O 6
104 O 3
104 O 2
Cassiar
Nakina Riv.
Tuya L.
Inklin Riv.
Tuya Riv.
104 J 16
Taku Riv.
Tachilta Lakes
Dease Lake
Dease Lake Riv.
104 J 5
104 J 7
104 J 8
Tanzilla River
104 J 4
104 J 3
104 J 2
104 J 1
Telegraph Creek
Stikine
JUNEAU
ICY STRAIT
B.C. ALASKA
61°
60°
59°
58°
62°
132°
130°
138°
136°
134°



DUPONT EXPLORATION
CANADA

KULTA PROJECT
CLAIM LOCATION MAP
DEASE LAKE - WHITEHORSE AREA, B.C. & Y.T.

1 : 2 000 000

km 10 0 30 60 km

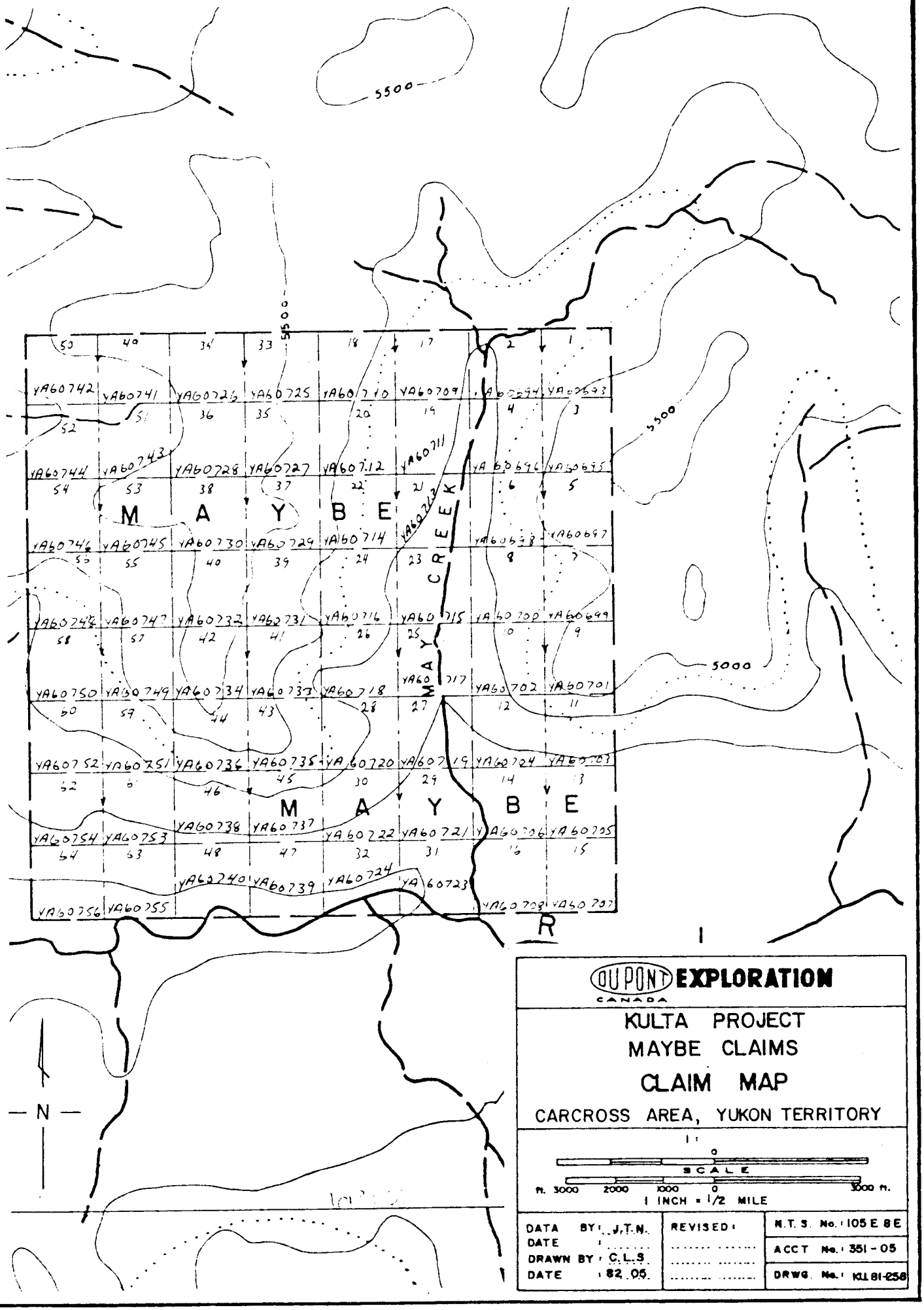
SCALE

Miles 10 0 50 100 miles

1 INCH = 32 MILES

DATA BY :	REVISED :	N.T.S. No. : 104,105,115
DATE :	81 10 23	ACCT No. : 351-00
DRAWN BY : K.L.J.	....	DRWG. No. : KU.81-2
DATE : July'81	....	

No.	CLAIM NAME	N.T.S.	No.	CLAIM NAME	N.T.S.
1	RAND	104 I 4, J 1	32	DUNK	105 D 2W
2	LATE	104 J 1E	33	UNDAL	105 D 2W
3	LAME	104 J 1E	34	EVEN-ODD	105 D 2,3
4	FLOOD	104 J 2W	35	OLLIE	105 D 6E
5	TAIL	104 J 1,2	36	EVIEW	105 D 6E
6	ALOON	104 J 3W	37	DAYIR	105 D 6W
7	HALT	104 J 4E	38	ILLIA	105 D 7W
8	EGLEN	104 J 5E	39	ICHIE	105 D 9E
9	YAT	104 J 7W	40	INTO	105 D 9W
10	ANTZ	104 J 8W	41	BEXI	105 D 11W
11	LURE	104 J 16E	42	FLAT	105 D 14W
12	ANKI	104 J 16E	43	UNCER	105 D 15E
13	NARRS	104 M 8E	44	SLEWE	105 D 15E
14	HAKER	104 M 9E	45	ERGE	105 D 15W
15	AKUM	104 M 9W	46	LABE	105 D 15W
16	RACE	104 M 10E	47	UTSHIG	105 D 16W
17	CREED	104 M 10E	48	CROST	105 E 2E
18	CRINE	104 M 10E	49	SLINE	105 E 2E
19	KEAP	104 M 10E	50	AURIER	105 E 2W
20	SELLY-SKEL	104 M 15E	51	AKEL	105 E 3E
21	TAKE	104 M 15E,W	52	OVOAS	105 E 6E
22	TUTS	104 M 15W	53	ENOF	105 E 7E
23	SHUI	104 M 15W	54	MAYBE	105 E 8E
24	GAUG	104 M 15W	55	MARBEE	105 E 8E,W
25	ANGE-BE	104 M 15W	56	GERM	105 E 8W
26	PENG	104 M 15W	57	SBS	105 E 10E
27	TSHIK	104 M 15W	58	HOOT	105 E 11E
28	ANNIG	104 M 16W	59	RANKL	105 E 11W
29	UNDAS	104 M 16E	60	KIRK	115 H 9E
30	SAYEH	105 C 6W			
31	ATHES	105 D 2E,W			



DUPONT EXPLORATION
CANADA

KULTA PROJECT
MAYBE CLAIMS
CLAIM MAP
CARCROSS AREA, YUKON TERRITORY

SCALE
ft. 3000 2000 1000 0 3000 ft.
1 INCH = 1/2 MILE

DATA BY: J.T.N.	REVISED:	N.T.S. No.: 105 E 8E
DATE:		ACCT No.: 351-05
DRAWN BY: C.L.S.		DRWG. No.: KL81-258
DATE: 82.05.		

GEOLOGY

Regional Geology

The property lies immediately east of the Teslin Suture which separates the Intermontane Belt (Whitehorse Trough) from the Teslin Suture Zone. Most of the Kulta properties lie within the Intermontane Belt which consists mainly of sedimentary and volcanic rocks. The belt averages 150 km in width and trends northwest. The Teslin Suture Zone consists mainly of allochthonous assemblages of schist, quartzite and amphibolite intruded by gabbro, peridotite and pyroxenite.

Physiographically, the region is part of the Yukon Plateau. This area is characterized by rounded mountains under 2000 metres in elevation, wide valleys and meandering creeks.

According to O.F. 578 (Templeman-Kluit, 1978), the property is underlain by "resistant, dark grey weathering, dark green fine-grained amphibolite (grading to granodiorite gneiss) and less metamorphosed 'greenstone' and altered basalt". The rocks strike northwest and dip steeply to the southeast.

The Kulta Project area contains Palaeozoic metamorphic rocks (schists and gneiss) Pennsylvanian (?) and Permian volcanic and meta-volcanic rocks (Taku Group) Lower and Middle Jurassic sediments (Laberge Group) and Upper Cretaceous volcanic rocks (Hutshi Group). See Table of Formations (Table I) and Dwg. KU.81-2b (Kulta Project Regional Geology).

Economic mineralization is not present in the immediate vicinity of the claim in the Teslin Suture Zone.

Local Geology

The property is primarily underlain by Carboniferous and/or Permian schist and gneiss of the Anvil Allochthonous Assemblage. Outcrop is sparse on the property, being exposed only along the top and edges of the west ridge. Glacial and alluvial deposits obscure the bedrock in the valleys.

The following is a brief description of the main lithologic units observed thus far on the property (Dwg. KU.81-226).

a. Gneiss - Unit 1a

This unit is generally known to grey on weathered surfaces. Fractures across the foliation bare the mineralogical banding of chlorite, muscovite and quartz. This unit contains thicker foliated lenses of quartz-muscovite schist.

TABLE I

Table of Formations

Miocene to Pleistocene (TQW)

Wrangell-Garibaldi: Basic to intermediate volcanics.

Upper Cretaceous-Oligocene (KTo)

Ootsa Lake - Kamloops (Hutshi Group): Intermediate to acidic volcanic flows, tuff; non-marine.

Late Cretaceous and Early Tertiary

Nisling Range Alaskite, Nanika (KTq): Granite, quartz monzonite lesser granodiorite.

Babine (KTg): Granodiorite, quartz diorite, quartz monzonite, lesser quartz monzonite, diorite, monzonite.

Lower and Middle Jurassic (JL)

Laberge-Quesnel (Stuhini Fmn): Greywacke, argillite, conglomerate; marine.

Late Triassic - Early Jurassic

Hogem Granodiorite (EJg): Quartz diorite, granodiorite, lesser diorite, quartz monzonite.

Iron Mask (Ejd): Diorite, monzonite, syenite, quartz, diorite, minor pyroxenite, granodiorite.

Upper Triassic - Lower Jurassic (TJT)

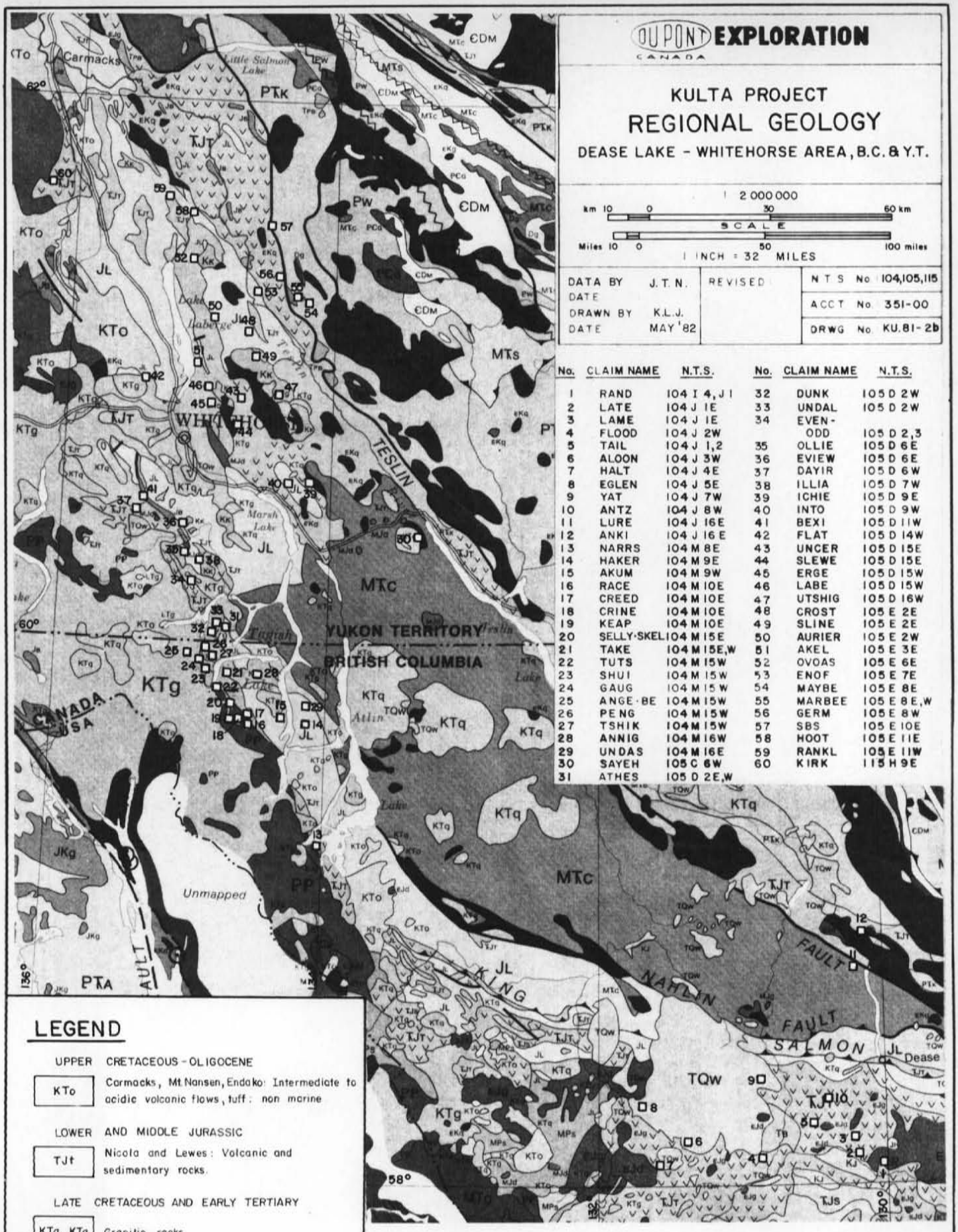
Takla-Nicola: Augite porphyry, basaltic volcanics; siltstone, shale, limestone, conglomerate.

Mississippian - Triassic (MTC)

Cache Creek - Anvil Range: Chert, argillite, carbonate, basalt, associated diabase, gabbro, alpine ultramafic; marine.

Proterozoic - Palaeozoic

Central Gneiss - Skagit: Granitoid Gneiss, migmatite schist, amphibolite, plutonic rocks.



LEGEND

UPPER CRETACEOUS - OLIGOCENE

KTo — Carmacks, Mt. Nansen, Endako: Intermediate to acidic volcanic flows, tuff: non marine

LOWER AND MIDDLE JURASSIC

TJt — Nicola and Lewes: Volcanic and sedimentary rocks.

LATE CRETACEOUS AND EARLY TERTIARY

KTq, KTg — Granitic rocks

LATE PALEOZOIC - TRIASSIC

Alpine - type ultramafics

DUPONT EXPLORATION
CANADA

KULTA PROJECT
REGIONAL GEOLOGY
DEASE LAKE - WHITEHORSE AREA, B.C. & Y.T.

1 : 2 000 000

km 10 0 30 60 km

SCALE

Miles 10 0 50 100 miles

1 INCH = 32 MILES

DATA BY	J.T.N.	REVISED	N.T.S. No. 104,105,115
DATE			ACCT No. 351-00
DRAWN BY	K.L.J.		DRWG No. KU.81-2b
DATE	MAY '82		

No.	CLAIM NAME	N.T.S.	No.	CLAIM NAME	N.T.S.
1	RAND	104 I 4, J 1	32	DUNK	105 D 2W
2	LATE	104 J 1E	33	UNDAL	105 D 2W
3	LAME	104 J 1E	34	EVEN-ODD	105 D 2,3
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24	GAUG	104 M 15W	55	MARBEE	105 E 8E,W
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26	PENG	104 M 15W	57	SBS	105 E 10E
27	TSHIK	104 M 15W	58	HOOT	105 E 11E
28	ANNIG	104 M 16W	59	RANKL	105 E 11W
29	UNDAS	104 M 16E	60	KIRK	115 H 9E
30	SAYEH	105 C 6W			
31	ATHES	105 D 2E,W			

b. Schist - Unit 1b

Predominantly dark grey on weathered surface and light grey on fresh surface. Rock contains 80% quartz and feldspar and 20% muscovite, chlorite and minor biotite.

The schist and gneiss contain numerous boudins and veins of bull quartz which parallel the foliation. A minor amphibolite lens occurs near rock sample 4752D. In places, gossans are caused by disseminated pyrite. Sample 4753D occurs near a small quartz carbonate zone which weathers orange brown.

c. Limestone - Unit 3a (?)

One outcrop of limestone occurs on the west central side of the property. It weathers light grey and is medium-grained. The outcrop is cut by small quartz stringers.

Structure

Schistosity in the area and on the property strikes northwest and dips steeply to the southwest. The strike parallels the Teslin Suture which is located 3 km west of the property. Near sample 4754D the axis of minor drag folds strikes northwest and plunge 5D to the northwest.

Mineralization

Less than 1% galena and pyrite occur in float sample 4750D. This sample of quartz was collected from the bank of May Creek. The galena occurs as small cubic crystals in limonite.

Description of Rock Samples

Only rock samples 4750D and 4752D contained interesting amounts of economic mineralization.

Sample No.	Geochem. Values			Description
	Pb(ppm)	Ag(ppm)	Au(ppb)	
4750D	386	3.5		Vuggy limonitic quartz containing less than 1% galena and pyrite.
4751D				Milky white to light grey weakly limonitic quartz float.

(continued):

Sample No.	Geochem. Values Pb(ppm)	Ag(ppm)	Au(ppb)	Description
4752D			145	Small quartz vein and bleached zone surrounding vein.
4753D				Limonitic quartz float.
4754D				Quartz float containing abundant chlorite and 5% pyrite.
4755D				Silicified schist.

GEOCHEMISTRY

Procedure

A total of 54 soil, 6 rock and 6 stream sediment and silt samples were collected during 1981. Soil sampling was carried out at 50 metre intervals. The samples were collected from the B horizon with a mattock and placed in a Kraft paper envelope. A sample number was marked on the bag and on flagging tape which was secured at the sample site.

Stream sediment samples were collected with the use of an aluminum scoop. They were sieved to -14 and -10 mesh in the field and placed in a plastic bag with a sample tag. The sample site was marked with flagging tape bearing the sample number.

Rock samples were collected at random throughout the claim group and placed in plastic bags along with a sample tag. Each sample site was marked with a length of flagging tape.

All samples were shipped to Min-En Laboratories Ltd., North Vancouver for preparation and analysis. All samples were analyzed for Mo, Cu, Pb, Zn, Ag, Hg, As, Mn, Au and Sb. In addition, the stream sediment and silt samples were sieved to -20+80 and -180 mesh fractions and heavy mineral separation and analysis performed for Au, Ag and Cu was completed. Refer to Appendix I for detail analytical procedures.

Results

A statistical analysis of the results obtained from regional stream sediment samples was performed to determine background and anomalous values for the various elements. Details of this analysis appears in a report by Neelands (1982) titled "Geochemical Report - Kulta Regional Stream Sediment Sampling Programme in the Dease Lake and Tagish Lake Areas". Table II reproduced from that report reveals median background values obtained for the elements studied. Table III shows the results of a report titled "Kulta Follow-Up" (Neelands 1982). The two studies show a good correlation between the stream sediment (heavy mineral) samples. The anomalous values given in Table III will be applied to the results of this property.

The results of geochemical sampling on the MAYBE property are tabled on Dwg. No. KU.81-227. These results have also been tabulated according to frequency distribution of elements in soils (Table IV), stream sediments (Table V), and silts (Table VI).

The original stream sediment samples 6588D and 9533D contained (630 ppm Cu, 5.0 ppm Ag in the -20+80 mesh fraction) and (115 ppb Au in the -20+80 mesh fraction) respectively. Sampling in both stream only confirmed the latter gold anomaly which is anomalous in copper, silver and gold in the east branch draining ground northeast of the property. The anomalous sample (7094C) contains 259 ppm Cu (-20+80 mesh) 3.3 ppm Ag (-20+80 mesh) and 150 ppb Au (-20+80 mesh). Silt sample 7096C, taken above 6588D did not contain any copper or silver. Sample 7098C contained 315 ppm WO_3.

Soil samples taken along the 1524 m contour above both the anomalous stream sediment samples contained no anomalous copper, silver or gold values, but samples P-86 and -111 did contain 190 ppm WO_3.

CONCLUSIONS AND RECOMMENDATIONS

The MAYBE property which consists of 64 claims is underlain by Carboniferous and/or Permian schist and gneiss of the Anvil Allochthonous Assemblage. Sampling today has located quartz float containing less than 1% galena and pyrite and trace amounts of gold (145 ppb). The most interesting copper, silver and gold anomalous sample (7094C) drains an area to the northeast of the property.

It is recommended that succeeding surveys be completed northeast of the property in an attempt to isolate the source of the copper, silver and gold anomaly.

JTN/krl

TABLE II

Kulta Regional Stream Sediment Sampling Programme

Background and Anomalous Values

Element	No. of Samples	Mean ppm	Median Background ppm	Standard Deviation	95% Threshold ppm
Mo	625	1.8	1.0	1.39	4.0
Cu(C1)CHm	598	44.5	38.0	27.39	150.0
Cu(C2)F	621	35.9	32.0	21.15	80.0
Pb	622	16.3	15.0	7.08	30.0
Zn	598	67.0	65.0	23.77	150.0
Ag(S1)CHm	623	1.04	1.0	0.50	2.5
Ag(S2)F	628	0.71	1.0	0.32	1.6
Mn	602	589.6	570.0	232.6	1200.0
Au(G1)CHm	588	8.21	5.0	5.22	25.0
Au(G2)F	579	6.2	5.0	4.66	15.0
%HM			6.0%		

TABLE III

Kulta Follow-Up

Background and Anomalous Values

Element	Medium					
	Heavy Mineral (227 samples)		SiH (43 Samples)		Soil (461 samples)	
	Median	Anomalous	Median	Anomalous	Median	Anomalous
MoF	1.0	3.0	1.0	2.0	4.0	15.0
CuF	30.0	90.0	70.0	160.0	40.0	250.0
CuFHM						
CuHM	50.0	180.0				
PbF	20.0	60.0	20.0	30.0	20.0	50.0
ZnF	60.0	160.0	80.0	100.0	90.0	200.0
AgF	0.8	1.5	0.9	1.2	0.8	1.7
AgFHM						
AgCHM	0.8	2.6				
HgF	25.0	50.0	40.0	80.0	35.0	160.0
AsF	10.0	50.0	15.0	45.0	15.0	120.0
MnF	500.0	1000.0	800.0	2000.0	700.0	2000.0
AuF	5.0	30.0	5.0	15.0	5.0	20.0
AuFHM						
AuCHM	5.0	50.0				
SbF	15.0	40.0	25.0	40.0	20.0	40.0
HM%						

Table IV
Soil Maybe
Frequency Distribution of Elements

Class Interval ppm/ppb	Mo F	Cu F	Cu FHM	Cu CHM	Pb F	Zn F	Ag F	Ag FHM	Ag CHM	Hg F	As F	Mn F	Au F	Au FHM	Au CHM	Sb F	H.M
0.1																	
0.2							5										
0.3							18										
0.4							12										
0.5							6										
0.6							11										
0.7							1										
0.8							1										
0.9																	
1.0	42				3						21						
1.1																	
1.2																	
1.3																	
1.4																	
1.5																	
1.6-1.7																	
1.8-1.9																	
1.9-2.0	9				2						2					2	16
2.1-2.3																	13
2.4-2.6																	
2.7-2.9																	
3.0-3.9					1						3					3	16
4.0-4.9	2	1			1						4					2	1
5.0-5.9		2			1					11						2	2
6.0-10		14			22					5	5					8	1
11 - 15		16			19	3				2	11		46			8	2
16 - 20		3			2	11				7	5		3			6	
21 - 25		7			1	4				4						11	
26 - 30		5			1	6				1	1					5	
31 - 35		2				11				2						6	
36 - 40		1				6											
41 - 45		2				6				2							
46 - 50						3				3			1				
51 - 60					1	4				3		1					
61 - 70		1				1				3		1					
71 - 80										3						1	
81 - 90										1		1					
91 -100										1							
101-120										2		1					
121-140																	
141-160												1					
161-180										1		3					
181-200										1		3					
201-250										1		6					
251-300												9					
301-350												8					
351-400																	
401-450												5					
451-500												4					
501-600												3					
601-700												2					
701-800												2					
801-900												3					
901-1000																	
1001-2000												1					
2001-3000																	
3001-4000																	
4001-5000																	
>5000																	

Table V Maybe
Heavy Mineral Stream Sediment
Frequency Distribution of Elements

Class Interval ppm/ppb	Mo	Cu			Pb	Zn	Ag			Hg	As	Mn	Au			Sb	H.
	F	F	FHM	CHM	F	F	F	FHM	CHM	F	F	F	F	FHM	CHM	F	
0.1																	
0.2																	
0.3																	
0.4																	
0.5																	
0.6								1									
0.7																	
0.8									1								
0.9																	
1.0	3																
1.1																	
1.2								1									
1.3									1								
1.4								1									
1.5									1								
1.6-1.7									1								
1.8-1.9								1									
1.9-2.0	3																
2.1-2.3																	
2.4-2.6																	
2.7-2.9								1									
3.0-3.9									1								
4.0-4.9																	
5.0-5.9										2	1						
6.0-10					1					1				1			
11 - 15		1	1		1						1						
16 - 20		2			1					1	1					3	
21 - 25										1	1					1	
26 - 30					1												
31 - 35		1			1										1		
36 - 40						2											
41 - 45						1								1			
46 - 50						2											
51 - 60		1		1							1			1			
61 - 70														1	1		
71 - 80			1	1													
81 - 90			1											1		1	
91 -100				1													
101-120				1											1		
121-140			2												1		
141-160															1		
161-180																	
181-200																	
201-250																	
251-300				1													
301-350												1					
351-400												1					
401-450												1					
451-500												1					
501-600												1					
601-700																	
701-800																	
801-900																	
901-1000																	
1001-2000																	
2001-3000																	
3001-4000																	
4001-5000																	
>5000																	

COST STATEMENT

Wages	Cost
1 Sr. Geol. Assistants, 3 manday(s) (1981 Aug. 16,18,20)	$ 219.18
1 Jr. Geol. Assistants, 3 manday(s) (1981 Aug. 16,18,20)	165.18
	$ 384.36

Room & Board

Location	Daily Rate	Date	No. of Days	
McCrory Ranch Yukon Terr.	$25.00	1981 Aug. 16,18,20	6	$ 150.00

Transportation

a. Truck Rental (Avis-Whitehorse, YT): 2 day(s) @ $35.85/day	$ 71.70
b. Helicopter in support of field work @ $432.50/hr including fuel (Flying by Viking Helicopter Ltd. of Prince George)	
Dates (1981): Aug. 16,18,20 No. of hrs: 5.2	$2,249.00
	$ 2,320.70

Analytical Services

Type of Sample	No. of	Fraction Analyzed	Elements Analyzed	Unit Price	
		F FHM CHM	Mo Cu Pb Zn Ni Ag Hg As Mn Au Sb		
Heavy	5	X	X X X X X X X X X X	$17.75	$ 85.75
Mineral	5	X	X X	7.90	39.50
	5	X	X X	7.90	39.50
Soil	59	X	X X X X X X X X X X X	23.65	1,395.35
Preparation - Rock			6 @ $2.25 sample		13.50
- Heavy mineral			5 @ $20.00/sample		100.00
- Soil/Silt			59 @ $0.85/sample		50.15

Mo($0.90), Cu($0.90), Pb($0.90), Zn($0.90), Ni(0.90), Ag($0.90/$2.00), Hg($4.50), As($3.00), Mn($0.90), Au($5.00), Sb($3.75)

$1,723.75

Report Preparation		Cost
Drafting: 1 day @ $100/day		$ 100.00
Typing: 1 day @ $95.00		95.00
Map preparation 8 maps at 16¢/square foot		11.52
		$ 206.52
	GRAND TOTAL:	$4,785.33

REFERENCES

Christie, R. L.; "Geology: Bennett (104M)", G.S.C. Preliminary Series Map No. 19-1957, 1957.

Neelands, J. T.; "Geochemical Report - Kulta Regional Stream Sediment Sampling Programme in the Dease Lake and Tagish Lake Areas", B.C. Dept. of Mines Assessment Report, 1982.

Neelands, J. T.; "Kulta Follow-Up (104-J, 104-M)" Geological and Geochemical Report, B.C. Dept. of Mines Assessment Report, 1982.

Templeman-Kluit, D. Laberge; Sheet, OF 578 Compilation - from field work in 1977 and reinterpreted from Bostock and Lees (1938) 1978.

Wheeler, J. O.; "Whitehorse Map-Area, Yukon Territory (105-O)", G.S.C. Memoir 312, 1961.

QUALIFICATIONS

I, David M. Strain, do hereby certify that:

1. I am a geologist residing at #7 - 2341 West Broadway, Vancouver, British Columbia, and employed on a part time basis by Du Pont of Canada Exploration Limited.

2. I am a graduate of Cambrian College of Applied Arts and Technology (Sudbury, Ontario) with a Diploma in Geological Engineering Technology.

3. I am presently enrolled in the Geological Sciences programme at the University of British Columbia endeavoring to obtain a B.Sc. degree in geology.

4. I have practised my profession in geology for the past four years in Ontario and British Columbia.

5. Between 1981 May and 1981 August, I participated in the field programme described in this report on behalf of Du Pont of Canada Exploration Limited.

David M. Strain
1982 June

QUALIFICATIONS

I, John Thomas Neelands, do hereby certify that:

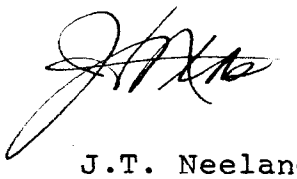
1. I am a geologist residing at 118-B W. 14th Ave, Vancouver, British Columbia and employed by Du Pont of Canada Exploration Limited.

2. I am a graduate of Carleton University (1971) in Ottawa, Canada, and hold a B.Sc., degree in Geology.

3. I am a member of the Geological Association of Canada and of the Association of Exploration Geochemists.

4. I have been practising my profession for the past ten years and have been active in the mining industry for the past sixteen years.

5. Between 1981 May and 1981 October, I supervised and participated in the field programme described in this report on behalf of Du Pont of Canada Exploration Limited.



J.T. Neelands
1982 June

APPENDIX I

Laboratory Procedure

PHONE 980-5814

APPENDIX I

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
Corner 15th Street and Bewicke
705 WEST 15th STREET
NORTH VANCOUVER, B.C.
CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURE FOR GOLD GEOCHEMICAL ANALYSIS.

Geochemical samples for Gold processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed and pulverized by ceramic plated pulverizer.

A suitable sample weight 5.0 or 10.0 grams are pre-treated with HNO_3 and $HClO_4$ mixture.

After pretreatments the samples are digested with Aqua Regia solution, and after digestion the samples are taken up with 25% HCl to suitable volume.

At this stage of the procedure copper, silver and zinc can be analysed from suitable aliquote by Atomic Absorption Spectrophotometric procedure.

Further oxidation and treatment of at least 75% of the original sample solutions are made suitable for extraction of gold with Methyl Iso-Butyl Ketone.

With a set of suitable standard solution gold is analysed by Atomic Absorption instruments. The obtained detection limit is 5. ppb.

APPENDIX I

MIN-EN Laboratories Ltd.
Specialists in Mineral Environments
Corner 15th Street and Bewicke
705 WEST 15th STREET
NORTH VANCOUVER, B.C.
CANADA

ANALYTICAL PROCEDURE REPORTS FOR ASSESSMENT WORK

PROCEDURES FOR Mo, Cu, Cd, Pb, Mn, Ni, Ag, Zn, As, F

Samples are processed by Min-En Laboratories Ltd., at 705 W. 15th St., North Vancouver Laboratory employing the following procedures.

After drying the samples at 95°C soil and stream sediment samples are screened by 80 mesh sieve to obtain the minus 80 mesh fraction for analysis. The rock samples are crushed by a jaw crusher and pulverized by ceramic plated pulverizer.

1.0 gram of the samples are digested for 6 hours with HNO_3 and $HClO_4$ mixture.

After cooling samples are diluted to standard volume. The solutions are analyzed by Atomic Absorption Spectrophotometers.

Copper, Lead, Zinc, Silver, Cadmium, Cobalt, Nickel and Manganese are analysed using the CH_2H_2-Air flame combination but the Molybdenum determination is carried out by C_2H_2-N_2O gas mixture directly or indirectly (depending on the sensitivity and detection limit required) on these sample solutions.

For Arsenic analysis a suitable aliquote is taken from the above 1 gram sample solution and the test is carried out by Gutzit method using Ag $CS_2N(C_2H_5)_2$ as a reagent. The detection limit obtained is 1. ppm.

Fluorine analysis is carried out on a 200 milligram sample. After fusion and suitable dilutions the fluoride ion concentration in rocks or soil samples are measured quantitatively by using fluorine specific ion electrode. Detection limit of this test is

134° 15'

61° 18'

N

Creek

Rubble

Rubble

Rubble

Moy

1677 m

1524 m

1372 m

1219 m

1067 m

SOUTH BIG SALMON RIVER

4750 D
4751 D
4752 D
4753 D
4754 D
4755 D

lab

3a

50 49 34 33 18 17 2 1
52 51 36 35 20 19 4 3
54 53 38 37 22 21 6 5
56 55 40 39 24 23 8 7
58 57 42 41 26 25 10 9
60 59 44 43 28 27 12 11
62 61 46 45 30 29 14 13
64 63 48 47 32 31 16 15

LEGEND

TERTIARY

MIOCENE

CARMACKS GROUP

12 — Grey weathering massive hornblende andesine porphyry

EOCENE

MT. NANSEN GROUP

11 — 11a) Andesite 11b) Basalt

10 — 10a) Quartz monzonite 10b) Granodiorite

CRETACEOUS

COAST INTRUSIONS

9 — 9a) Quartz monzonite 9b) Granodiorite 9c) Felsic dyke 9d) Mafic dyke

HUTSHI GROUP

8 — 8a) Rhyolite 8b) Dacite 8c) Andesite 8d) Basalt 8e) Tuff 8f) Volcanic conglomerate

7 — 7a) Peridotite 7b) Serpentinite

UPPER JURASSIC and/or LOWER CRETACEOUS

TANTALUS FORMATION

6 — 6a) Shale 6b) Schist 6c) Quartz sericite schist

UPPER TRIASSIC and LOWER JURASSIC

LABERGE GROUP

5 — 5a) Siltstone 5b) Limestone 5c) Shale 5d) Quartzite 5e) Conglomerate 5f) Hornfels

4 — 4a) Dacite 4b) Andesite 4c) Basalt 4d) Volcaniclastics (conglomerate, breccia) 4c) Tuff

LEWES RIVER GROUP

3 — 3a) Limestone 3b) Argillite 3c) Siltstone 3d) Arkose 3e) Greywacke 3f) Quartzite

2 — 2a) Rhyolite 2b) Dacite 2c) Andesite 2d) Basalt 2e) Volcanic breccia, conglomerate

CARBONIFEROUS and/or PERMIAN

ANVIL ALLOCHTHONOUS ASSEMBLAGE

1 — 1a) Gneiss 1b) Schist 1c) Quartzite 1d) Phyllite 1e) Breccia

SYMBOLS

OUTCROP

CONTACT

x 4753 D — ROCK SAMPLE LOCATION and NUMBER

CLAIM LINE

ROCK GEOCHEMICAL RESULTS

-80 Mesh F

Sample	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Ag ppm	Hg ppb	As ppm	Au ppb	Sb ppm	WO_3 ppm
4750 D	1	3	386	7	3	3.5	5	88	5	55	4
4751 D	1	2	2	3	1	0.1	5	61	25	22	3
4752 D	1	9	11	21	8	0.6	35	<1	145	64	18
4753 D	1	46	4	26	12	0.4	10	13	5	70	13
4754 D	1	41	13	76	117	1.3	25	<1	5	120	4
4755 D	1	8	3	29	72	0.7	5	<1	5	60	2

DU PONT EXPLORATION CANADA

KULTA PROJECT
MAYBE CLAIMS
GEOLOGY 091042

WHITEHORSE AREA, YUKON TERRITORY

m 300 200 100 0 300 600 m

1 : 10 000

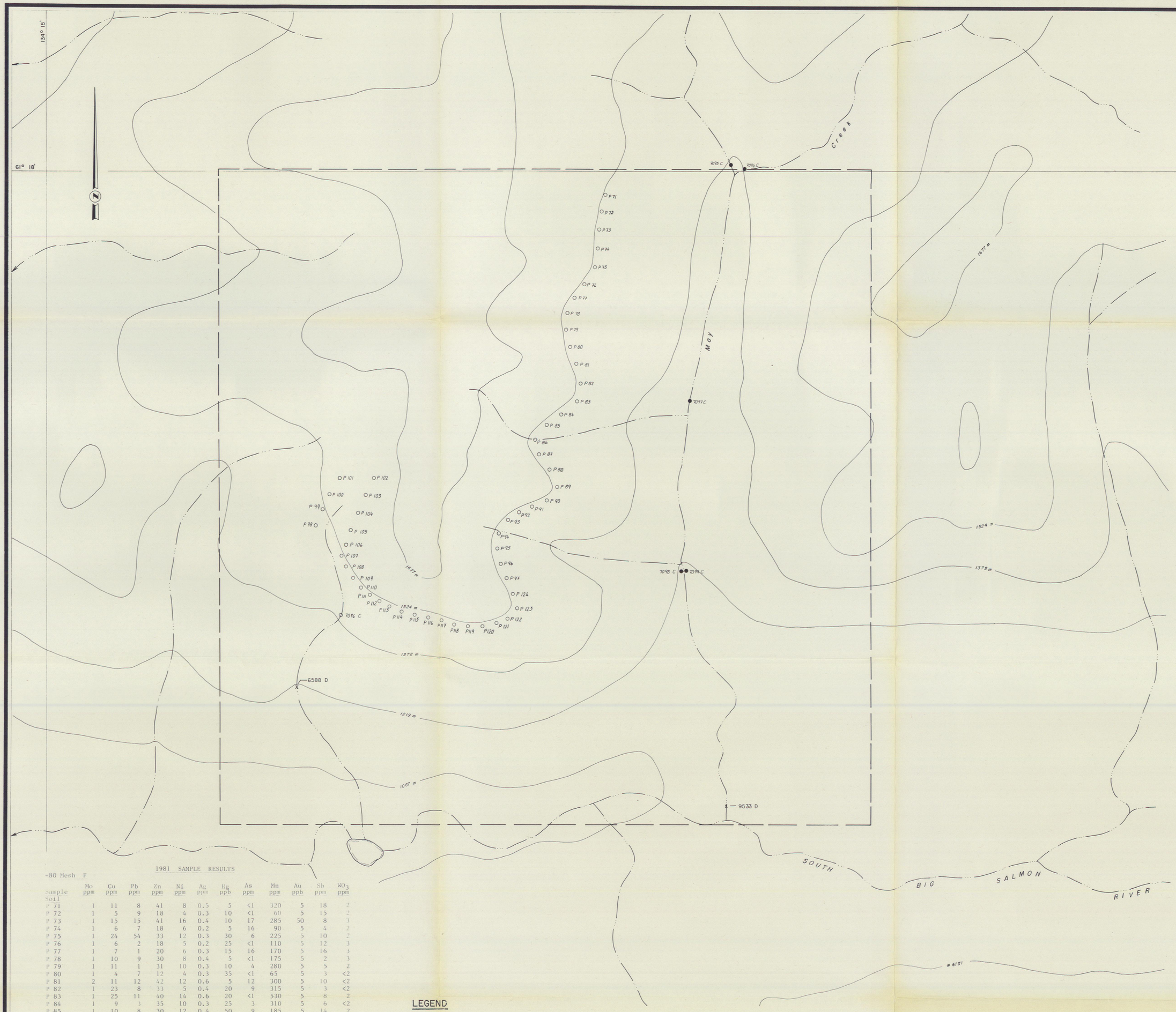
SCALE

0

1 INCH = 833 FEET

MAPPED BY : J.T.N., D.M.S.	REVISED :		N.T.S. No. : 105 E 8
DATE : 81 08 20			ACCT No. : 351 - 05
DRAWN BY : C.H.K.			DRWG. No. : KU. 81-226
DATE : 81 05 07			

HCT-228



1981 SAMPLE RESULTS

-80 Mesh F

Sample	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ni ppm	Ag ppm	Hg ppb	As ppm	Mn ppm	Au ppb	Sb ppm	WO_3 ppm
Soil												
P 71	1	11	8	41	8	0.5	5	<1	320	5	18	2
P 72	1	5	9	18	4	0.3	10	<1	60	5	15	2
P 73	1	15	15	41	16	0.4	10	17	285	50	8	3
P 74	1	6	7	18	6	0.2	5	16	90	5	4	2
P 75	1	24	54	33	12	0.3	30	6	225	5	10	2
P 76	1	6	2	18	5	0.2	25	<1	110	5	12	3
P 77	1	7	1	20	6	0.3	15	16	170	5	16	3
P 78	1	10	9	30	8	0.4	5	<1	175	5	2	3
P 79	1	11	1	31	10	0.3	10	4	280	5	5	2
P 80	1	4	7	12	4	0.3	35	<1	65	5	3	<2
P 81	2	11	12	42	12	0.6	5	12	300	5	10	<2
P 82	1	23	8	33	5	0.4	20	9	315	5	3	<2
P 83	1	25	11	40	14	0.6	20	<1	530	5	8	2
P 84	1	9	3	35	10	0.3	25	3	310	5	6	<2
P 85	1	10	8	30	12	0.4	50	9	185	5	14	2
P 86	1	9	8	22	6	0.3	45	<1	160	5	2	190
P 87	2	20	10	38	9	0.6	20	12	320	5	12	<2
P 88	1	15	15	30	8	0.6	5	<1	220	10	8	3
P 89	1	15	10	31	10	0.5	25	16	260	5	12	5
P 90	1	21	15	40	12	0.5	20	2	330	5	14	13
P 91	2	22	10	51	11	0.6	25	<1	470	5	18	3
P 92	1	32	6	45	15	0.6	5	14	440	5	15	3
P 93	1	7	1	14	4	0.3	15	9	215	5	4	<2
P 94	1	7	15	20	2	0.2	20	<1	540	5	3	3
P 95	1	15	10	35	8	0.7	10	<1	295	5	5	<2
P 96	1	13	2	28	10	0.3	5	<1	190	5	6	<2
P 97	1	24	11	49	13	0.6	5	<1	535	5	8	<2
P 98	1	28	14	57	8	0.4	20	<1	640	5	24	3
P 99	1	14	6	19	4	0.2	25	<1	185	5	22	2
P 100	1	30	12	46	14	0.2	45	4	460	5	30	2
P 101	2	33	15	52	24	0.6	50	11	455	5	35	3
P 102	1	14	7	21	8	0.3	5	14	210	5	24	3
P 103	2	18	15	32	12	0.4	10	4	295	10	35	3
P 104	3	14	9	20	6	0.3	35	14	225	5	30	2
P 105	1	27	12	31	10	0.3	60	29	420	5	25	<2
P 106	4	38	13	19	10	0.4	75	15	280	5	28	<2
P 107	1	13	11	20	5	0.3	90	3	340	10	20	<2
P 108	1	29	30	67	30	0.5	185	11	670	5	32	2
P 109	1	12	14	29	11	0.3	5	20	310	10	74	<2
P 110	2	20	18	58	18	0.6	70	2	720	5	22	2
P 111	4	43	23	47	32	0.8	25	11	1530	5	25	190
P 112	1	41	12	23	21	0.3	50	6	900	5	15	<2
P 113	1	61	16	41	24	0.6	170	4	500	5	32	3
P 114	2	30	15	27	18	0.4	60	<1	180	5	35	5
P 115	2	13	10	16	6	0.3	110	<1	440	10	22	13
P 116	1	21	13	31	14	0.4	100	3	295	5	16	3
P 117	1	11	8	35	10	0.4	70	5	340	10	24	3
P 118	1	9	8	24	11	0.4	80	11	440	5	22	<2
P 119	1	13	12	37	12	0.6	120	<1	830	5	28	3
P 120	1	10	10	43	12	0.5	65	205	720	5	34	<2
P 121	1	9	9	37	13	0.5	5	14	295	5	16	9
P 122	1	6	8	31	8	0.4	60	<1	340	10	24	3
P 123	2	5	4	12	7	0.3	20	<1	440	5	22	4
P 124	1	6	5	19	6	0.3	75	<1	830	5	28	2

LEGEND

○ P 102 — SILT or SOIL SAMPLE LOCATION and NUMBER

● 7099 C — SIEVED HEAVY MINERAL SAMPLE LOCATION and NUMBER

X — 6588 D — ORIGINAL SIEVED HEAVY MINERAL SAMPLE LOCATION (1981) and NUMBER

Sample	Type	Mo ppm	Cu ppm			Pb ppm	Zn ppm	Ni ppm	Ag ppm			Hg ppb	As ppm	Mn ppm	Au ppb			Sb ppm	WO_3 ppm	H.M. wt. F/C gm	H.M. % F/C	Orig. wt. gm
		-80 F	-80 F	-80 FHM	-20 +80 CHM	-80 F	-80 F	-80 F	-80 F	-80 FHM	-20 +80 CHM	-80 F	-80 F	-80 F	-80 F	-80 FHM	-20 +80 CHM	-80 F	-80			
6588 D	-10 sieve	3	42		630	20	60		0.4		5.0			600	5		5					
7094 C	-14 sieve	2	54	132	259	30	49	44		2.7	3.3	20	59	480		65	150	82		4.10/14.19	23.16/ 8.20	17.7
7095 C		2	15	12	55	10	50	16		0.6	0.8	25	17	320		10	35	16		2.10/ 8.55	4.94/ 5.28	42.5
7096 C	silt	1	27			6	75	28	0.4			20	19	560	5			42	4			
7097 C	-14 sieve	1	35	135	118	32	50	45		1.9	1.6	5	24	600		90	105	22	nes	28.55/12.54	15.86/ 6.27	180.0
7098 C		1	19	74	76	16	38	30		1.2	1.3	10	5	400		45	140	18	315	26.63/18.70	13.32/ 9.35	200.0
7099 C		2	20	85	92	15	39	36		1.4	1.5	5	13	440		60	65	16	12	23.48/20.00	11.74/10.00	200.0
9533 D	-10 sieve	1	22		56	20	32		0.6		1.0			310	5		115					

nes - not enough sample

DU PONT CANADA **EXPLORATION**

KULTA PROJECT
MAYBE CLAIMS 091042
GEOCHEMISTRY
Au, Ag, As, Cu, Hg, Mn, Mo, Ni, Pb, Sb, WO_3, Zn, HM
WHITEHORSE AREA, YUKON TERRITORY

m 300 200 100 0 300 600 m
1:10 000
SCALE
0
1 INCH = 833 FEET

MAPPED BY : J.T.N., D.M.S.	REVISED :	N.T.S. No.: 105 E 8	
DATE : 81 08 20		ACCT No.: 351 - 05	
DRAWN BY : C.H.K.		DRWG. No.: KU. 81-227	
DATE : 81 05 07			

WCI-228