

MAR 19910002: HIGH DIVIDE RIDGE

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ID 19910002

FOX GEOLOGICAL CONSULTANTS LTD.

**ASSESSMENT REPORT ON
METALLIC MINERAL EXPLORATION
PERMITS 6889090002 AND 6889090003
HIGH DIVIDE RIDGE AREA, ALBERTA**

by

P. E. Fox, Ph.D., P. Eng.

**FOX GEOLOGICAL CONSULTANTS LTD.
1409 - 409 Granville Street
Vancouver, B.C. V6C 1T8**

**Agent for
Placer Dome Inc.
15th Floor - 1055 Dunsmuir Street
Vancouver, B.C. V7X 1P1**

February 17, 1991

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SUMMARY

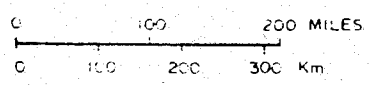
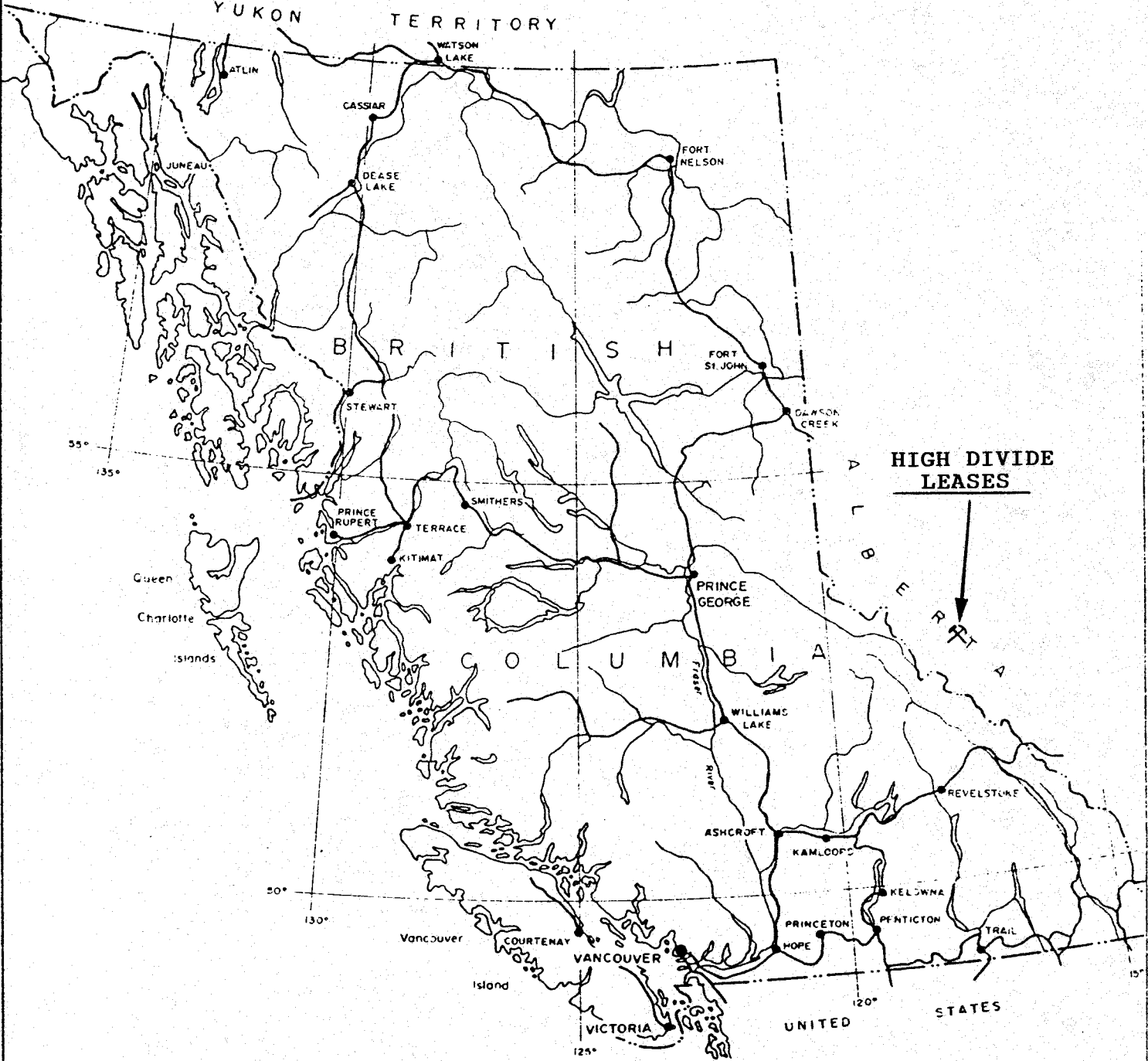
A regional prospecting program of the Front Ranges of Alberta was undertaken in the summer of 1988. Nine samples in the High Divide Ridge area returned anomalous concentrations of gold. Exploration permits were applied for August 1, 1989 and in October, 1989 detailed stream sediment sampling of the Anderson Creek drainage and a small drainage at the southeast end of High Divide Ridge was initiated. Of the 30 silt samples collected, 21 returned concentrations of greater than 20 ppb gold, a majority of them collected consecutively from Anderson Creek. Six bulk stream sediment samples were collected and submitted to the Saskatchewan Research Council for separation and examination of gold grains. In September, 1990, a two-day visit by a four-person crew was conducted to soil sample the ridge top of High Divide Ridge and to prospect for outcrop. Fourteen soil samples were collected, two of which returned anomalous concentrations of gold.

INTRODUCTION

This report summarizes field work and observations on two exploration permit areas in the High Divide Ridge area, south of Hinton, Alberta. The two permits were applied for after regional reconnaissance outlined anomalous gold concentrations in drainages originating on High Divide Ridge.

LOCATION AND ACCESS

High Divide Ridge is located approximately 15 kilometres southeast of Hinton, Alberta in the Front Range of the Rocky Mountains (Figure 1). Access is provided to the lower reaches of the drainages by the Robb Forest Service Road. A network of branch logging roads and seismic lines provide four-wheel drive and foot access to a most of the High Divide Ridge area. Approximately 60% of the permit areas have been logged with the remainder covered by lodge pole pine and fir. Outcrop in the area is sparse and is restricted to deeply incised creek and river beds.



Fox Geological Consultants Ltd.

PROPERTY LOCATION PLAN

HIGH DIVIDE LEASES

FOX GEOLOGICAL CONSULTANTS LTD.

DATE	NTS	Dwg No.
2-17-91		1

PROPERTY TITLE INFORMATION

Two Metallic Mineral Exploration Permits were applied for August 1, 1989 and issued November 29, 1989. Information regarding location, area and permit number are given in Table I and property outlines provided in Figure 2.

Table I
Property Title Information

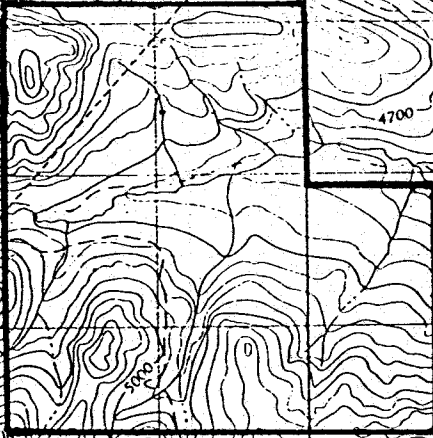
Permit #	Meridian	Range	Township	Section	Part	Area
6889090002	5	24	050	8	NE, L6-L8, L11, L14	688 ha
				9	N, L5-L8	
				16	W, L1, L2	
				17	E, L3, L6, L11, L14	
6889090003	5	24	049	25	L13-L16	224 ha
				36	W, L1, L2	

SAMPLE PROCEDURE

Silt samples were collected from stream beds and screened to -8 mesh on site with approximately 1 kg. of material retained in Kraft sample bags for submission to the laboratory. Rock samples were grabs of either float material in stream beds or outcrop. Soil samples were taken at 500-metre intervals from the "B" horizon where possible. All samples were submitted to Acme Analytical Laboratories in Vancouver, B.C. and analyzed for 30 elements by ICP techniques and for gold by geochemical fire assay and atomic absorption (Appendix I). Original sample density was one silt sample per creek with follow-up samples taken at 500-metre intervals up anomalous creek beds. Additionally, a 2.5 kg. (of -8 mesh) bulk sample was collected from Anderson Creek on Lease 6889090003 and submitted to the Saskatchewan Research Council for separation and photomicroscopy of gold grains (Appendix II). Sample location plans for both leases are given in Figures 3 and 4.



PERMIT #6889090002



PERMIT #6889090003

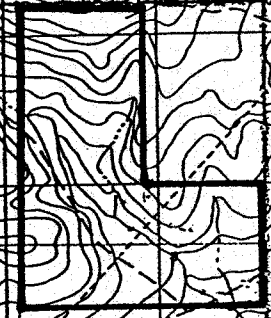


Fig 2

Project 138 Hinton
PERMIT LOCATION MAP
HINTON, ALBERTA

11730'67 468000m. E. 69 70 R24 72 25' 73 74

1:50000 NTS 83F6

PERMIT #6889090002

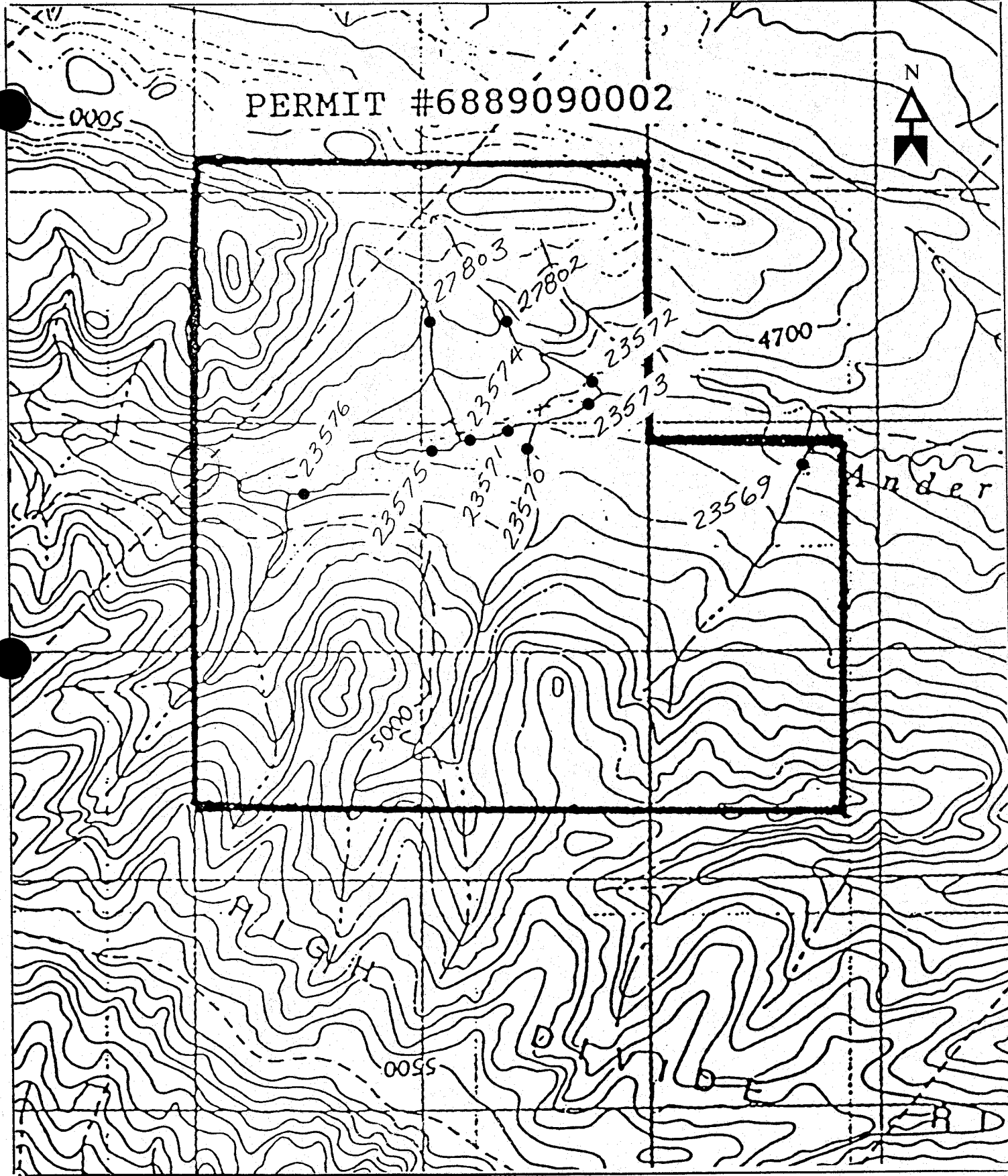


Figure 3 - Sample Location Plan for Permit 6889090002 1:20,000

PERMIT #6889090003

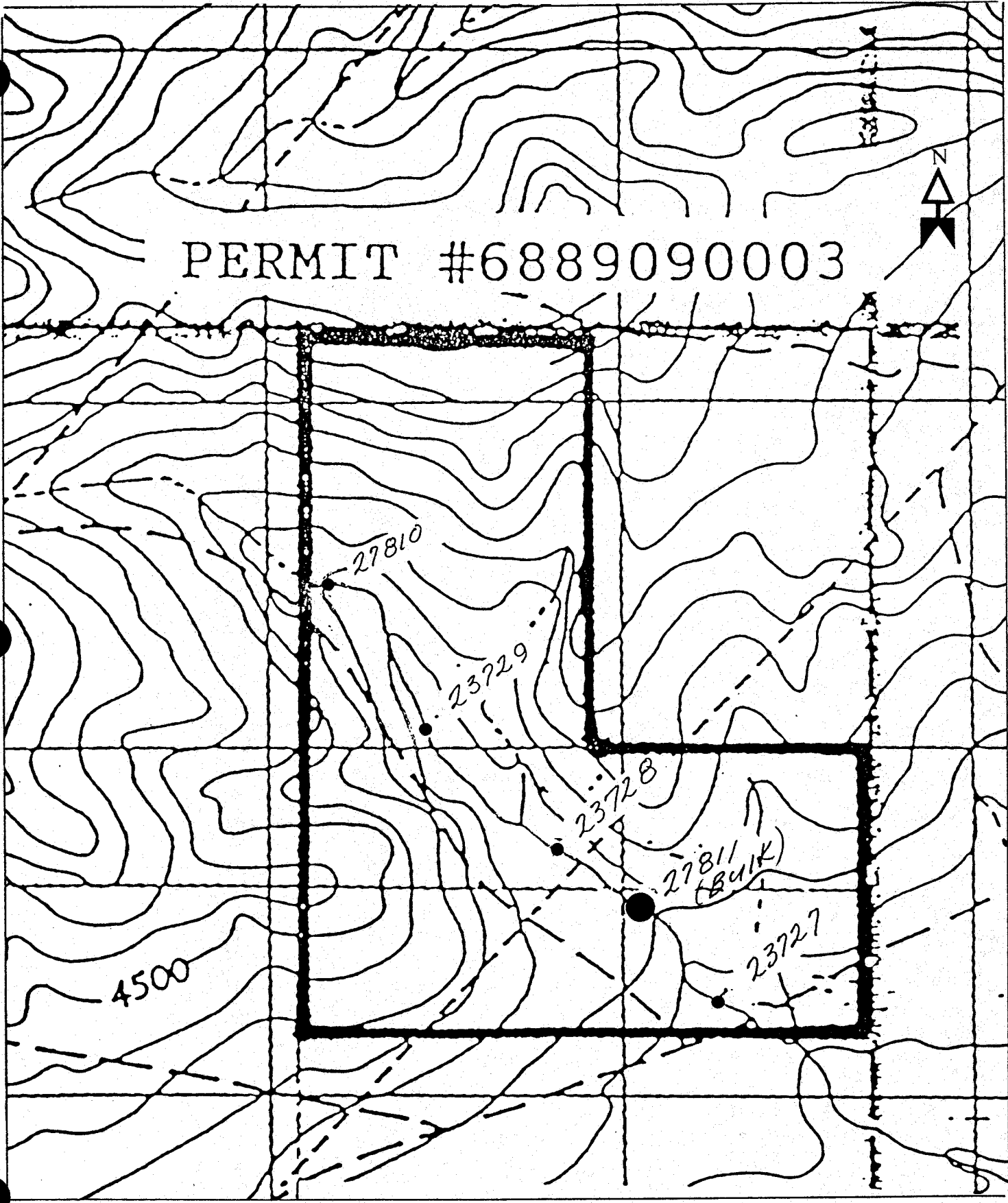


Figure 4 - Sample Location Plan for Permit 688909003 1:15,000

WORK PROGRAM AND RESULTS

A regional reconnaissance program of the Front Ranges of Alberta was undertaken in the summer of 1988. During this time a total of 186 silt samples and 118 rock samples were collected. Of those samples collected in the High Divide Ridge area, nine returned anomalous concentrations of gold. Exploration permits were applied for August 1, 1989 and in October, 1989 thorough prospecting of the permit areas together with stream sediment sampling of Anderson Creek and a small creek at the southeast end of High Divide Ridge was initiated. Of the 30 silt samples taken in the region, 21 returned concentrations of greater than 20 ppb gold, a majority of them from Anderson Creek. Six bulk stream sediment samples along with one (27811) on Lease 6889090003 were collected and submitted to the Saskatchewan Research Council for separation and examination of gold grains. In September, 1990, a two-day visit by a four-person crew was conducted to soil sample ridge tops and to continue prospecting for outcrops. Fourteen soil samples were collected at the head of Anderson Creek, two of which returned anomalous concentrations of gold. All sample locations, showing sample number, gold concentrations in ppb and arsenic concentration in ppm, are shown in Figures 3 and 4. Field data along with elements of interest are provided in Appendix I. Bulk sample 27811 from Lease 6889090003 returned typical concentrations of placer gold. Grains are rough-edged and flattened typical of "milling" during stream transport. Adhered rock fragments are absent (photo, Appendix II).

DISBURSEMENTS

	<u>Lease</u> <u>#6889090002</u>	<u>Lease</u> <u>#6889090003</u>	
<u>Accommodation, Board</u> 20 man days @ \$60.00/day	\$ 960.00	\$ 240.00	1200
<u>Assays, Geochemistry</u> 15 stream sediment samples @ \$12.25	17.25	122.50	139.75
<u>Project Salaries:</u>			
██████████ - Geologist - 11 days @ \$300	2,400.00	90.00	
██████████ - Sampler - 5 days @ \$250	750.00	500.00	4950
██████████ Sampler - 5 days @ \$250	1,250.00		
<u>Equipment Rentals</u> 3 Radios @ \$25/day	600.00	225.00	825
<u>Field Supplies</u>	100.00	50.00	150
<u>Lease Vehicles</u> 11 days @ \$50.00/day	400.00	150.00	550
<u>Travel Expense</u>	800.00	300.00	1100
<u>Report Preparation</u>	100.00	50.00	150
Total Disbursements	<u>\$ 7,377.25</u>	<u>\$ 2,537.50</u>	

Prepared by:

FOX GEOLOGICAL CONSULTANTS LTD.

██████████
P. E. Fox, Ph.D., P. Eng.
February 17, 1991

CERTIFICATE

I, Peter Edward Fox, certify to the following:

1. I am a consulting geologist residing at [REDACTED] Vancouver, B.C.
2. I am a Professional Engineer registered in the Association of Professional Engineers in British Columbia.
3. My academic qualifications are:

B.Sc. and M.Sc., Queens University, Kingston, Ontario
Ph.D., Carleton University, Ottawa, Ontario
4. I have been engaged in geological work since graduation in 1966.

[REDACTED]

Peter E. Fox, Ph.D., P. Eng.
Vancouver, B.C.
February 17, 1991

APPENDIX I

Geochemistry

Project 138
Hinton Property
1989 Geochemical Results

Sample	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ca (%)	Ni (ppm)	Co (ppm)	Fe (%)	As (ppm)	Au (ppb)	Sample Type	Remarks
27801											PAN	ANDERSON CREEK HINTON HM SAMPLE
27811											PAN	HINTON HM SAMPLE
27813											PAN	NEAT CREEK HINTON HM SAMPLE
27815											PAN	EUNICE CREEK HINTON BULK SAMPLE
27818											PAN	DEERLICK CREEK HINTON HM SAMPLE
27819											PAN	WAMPUS CREEK HINTON HM SAMPLE
27802	10	10	42	0.1	0.54	12	4	1.17	2	3	SILT	ANDERSON CREEK TRIBUTARY HINTON
27803	12	13	53	0.2	0.54	20	7	2.20	2	3	SILT	ANDERSON CREEK TRIBUTARY HINTON
27804	35	12	69	0.1	0.66	18	7	2.26	2	350	SILT	ANDERSON CREEK TRIBUTARY HINTON
27805	10	11	42	0.1	0.29	14	5	1.78	3	1510	SILT	ANDERSON CREEK TRIBUTARY HINTON
27806	29	7	55	0.1	0.69	16	5	1.90	2	205	SILT	HINTON
27807	15	15	51	0.1	0.36	18	6	1.75	2	3	SILT	HINTON
27808	21	12	51	0.1	0.62	19	6	1.90	3	2	SILT	HINTON
27809	23	12	65	0.2	0.66	19	6	2.02	4	14	SILT	HINTON
27810	15	8	42	0.1	0.48	14	4	1.56	2	125	SILT	HINTON
27812	35	15	50	0.1	1.20	18	5	1.95	2	5	SILT	HINTON
27814	17	12	63	0.1	0.59	21	8	1.82	3	4	SILT	ANTLER CREEK HINTON
27816	31	20	100	0.1	0.63	37	13	3.10	7	143	SILT	EUNICE CREEK TRIBUTARY HINTON
27817	13	14	64	0.1	0.48	23	9	1.93	4	3	SILT	EUNICE CREEK HINTON
27820	15	15	67	0.1	0.61	21	7	1.97	2	2	SILT	HINTON
27821	14	9	47	0.1	0.48	21	6	1.97	2	5	SILT	HINTON
27825	21	15	51	0.1	0.50	16	5	1.50	4	4	SILT	ANDERSON CREEK HINTON 500M FROM ROAD
27826	6	6	29	0.1	0.28	12	4	1.22	3	32	SILT	ANDERSON CREEK HINTON 1100M UP CREEK
27827	8	5	29	0.1	0.27	11	4	1.11	2	1	SILT	1500M UP ANDERSON CREEK HINTON
27828	9	7	31	0.1	0.36	13	4	1.25	2	3	SILT	2000M UP ANDERSON CREEK HINTON
27829	11	10	58	0.1	0.56	13	4	2.68	13	6	SILT	ANDERSON CREEK TRIB 2500m HINTON
27830	11	10	32	0.1	0.41	13	4	1.28	2	2	SILT	2600M UP ANDERSON CREEK HINTON

Project 138
Hinton Property
1990 Geochemical Results

Sample	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ca (%)	N1 (ppm)	Co (ppm)	Fe (%)	As (ppm)	Au (ppb)	Sample Type	Remarks
30701	4	12	46	0.4	0.32	13	6	1.69	2	4	SOIL	CONTOUR SAMPLING-#1 SAMPLE.
30702	4	9	28	0.1	0.28	12	4	1.56	2	2	SOIL	450M WEST FROM #30701
30703	6	9	28	0.1	0.39	13	4	1.48	2	4	SOIL	900M WEST FROM #30701
30704	4	10	30	0.1	0.30	13	4	1.70	3	2	SOIL	1300M FROM # 30701
30705	3	8	31	0.1	0.36	12	4	1.49	2	29	SOIL	200M FROM SEISMIC LINE, 1700M-#30701
30706	3	9	34	0.1	0.27	13	4	1.51	2	1	SOIL	2100M FROM #30701
30707	4	10	30	0.2	0.32	11	4	1.44	4	2	SOIL	2600M FROM #30701, END OF RIDGE
30708	3	11	34	0.1	0.29	14	4	1.87	3	2	SOIL	450M SOUTH OF #30707, TOP OF RIDGE
30709	5	11	42	0.1	0.48	14	4	1.61	9	3	SOIL	500M SOUTH-EAST OF #30708
30710	12	12	46	0.3	0.45	16	6	2.04	3	1	SOIL	NEXT TO CREEK, 1000M FROM #30708
30711	4	8	37	0.1	0.23	13	5	1.71	4	1	SOIL	1500M EAST FROM #30708
30712	5	10	43	0.1	0.19	14	5	1.78	7	78	SOIL	2000M FROM #30708
30713	4	10	42	0.1	0.27	12	4	1.64	3	2	SOIL	2450M E. FROM #30708, NEXT TO CREEK
30714	5	10	40	0.1	0.24	15	4	1.80	3	2	SOIL	2780M FROM #30708

A P P E N D I X II

**Report on Bulk Sample 27811, Lease 6889090003
Saskatchewan Research Council
November 23, 1990**

REPORT

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M643 GOODALL FOX GEOLOGICAL NOV. 23/89 (8) PG. 1147 [2.0 GM REG. DIG.]
 1 Pb HNO3/HCL AA
 2 Ag HNO3/HCL AA
 3 Au HNO3/HCL AA
 4 Hg HNO3/HCL AA
 5 Se HNO3/HCL AA HYDRIDE
 6 Sb HNO3/HCL AA HYDRIDE
 7
 8
 9

	PB	AG	AU	HG	SE	SB
LS3	15.6	0.1		0.3	0.4	0.2
27682	1.7	0.2	22.	0.3	0.2	0.2
27801	2.8	0.1	85.	0.3	0.2	0.2
27811	2.9	0.1	45.	0.3	0.2	0.2
27813	3.4	0.1	534.	0.3	0.2	0.2
27815	4.1	0.1	220.	0.3	0.2	0.2
27818	4.1	0.1	355.	0.3	0.2	0.2
27819	5.4	0.1	113.	0.3	0.2	0.2

ICP Analytical Report

Report for File Name M643 Data Collected on 11-24-1989 time 09:48:34

M643 GOODALL FOX GEOLOGICAL NOV. 23/89 (8) PG. 1147 [2.0 GM REG. DIG.]

1	Cu	HNO3/HCL	ICP
2	Zn	HNO3/HCL	ICP
3	Bi	HNO3/HCL	ICP
4	Te	HNO3/HCL	ICP
5	Mo	HNO3/HCL	ICP
6	W	HNO3/HCL	ICP
7	As	HNO3/HCL	ICP
8	Ni	HNO3/HCL	ICP
9	Co	HNO3/HCL	ICP

	Cu	Zn	Bi	Te	Mo	W	As	Ni	Co
LS3	49.2	195.2	1.	1.	16.0	1.	5.	43.2	36.4
27682	11.1	40.6	1.	1.	0.5	1.	1.	14.3	5.1
27801	6.0	20.7	1.	1.	0.5	1.	1.	8.1	2.9
27811	13.8	21.3	1.	1.	0.5	1.	1.	7.7	3.0
27813	7.5	30.2	1.	1.	0.5	2.	4.	10.8	4.3
27815	7.6	33.4	1.	1.	1.1	1.	4.	12.2	4.8
27818	7.4	41.4	1.	1.	0.5	1.	5.	13.2	5.4
27819	10.7	38.4	2.	1.	0.5	1.	7.	13.2	4.9

REPORT

11-23-1989

M642 GOODALL FOX GEOLOGICAL NOV. 23/89 (7) [HEAVY MINERALS]

- 1 SAMPLE WEIGHT IN KG
- 2 %GRANULES IN +10 MESH (<4MM)
- 3 %PEBBLES IN +10 MESH (4-64MM)
- 4 %COBBLES IN +10 MESH (65-256MM)
- 5 +10 MESH WEIGHT IN KG
- 6 -10 MESH WEIGHT IN KG (TABLE FEED)
- 7 MATRIX %SAND ESTIMATE
- 8 MATRIX %SILT ESTIMATE
- 9 MATRIX %CLAY ESTIMATE

	S.WT	%GRAN	%PEB	%COB	+10	-10	%SAND	%SILT	%CLAY
682	6.20	100			0.10	6.10			
801	4.80				00	4.80			
811	4.20				00	4.20			
813	5.00				00	5.00			
815	3.85				00	3.85			
818	3.55				00	3.55			
819	4.40				00	4.40			

REPORT

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M642 GOODALL FOX GEOLOGICAL NOV. 23/89 (7) [HEAVY MINERALS]

- 1 OVERBURDEN-CLASSIFICATION TILL(T), GRAVEL(G), SAND(S), SILT(ST), CLAY(C)
- 2 HEAVY MINERALS MAGNETICS IN GRAMS
- 3 HEAVY MINERALS NONMAGNETICS IN GRAMS
- 4 HEAVY MINERALS TOTAL IN GRAMS (MAG+NONMAG)
- 5 TABLE CONCENTRATE LIGHT FRACTION IN GRAMS (TABLE CONCENTRATE LESS HM)
- 6 TABLE CONCENTRATE IN GRAMS
- 7 VISIBLE GOLD GRAIN COUNT

8

9

	CLASS	MAG	NONMAG	H.M.	T.LITE	T.CONC	V.G.
682		1.61	64.66	66.27	116.30	182.57	3
801		0.52	65.56	66.08	27.43	93.51	2
811		1.77	58.72	60.49	15.83	76.32	11
813		1.22	62.77	63.99	68.18	132.17	7
815		0.19	60.68	60.87	27.67	88.54	3
818		0.28	56.22	56.50	8.89	65.39	0
819		1.61	45.13	46.74	5.98	52.72	2

REPORT

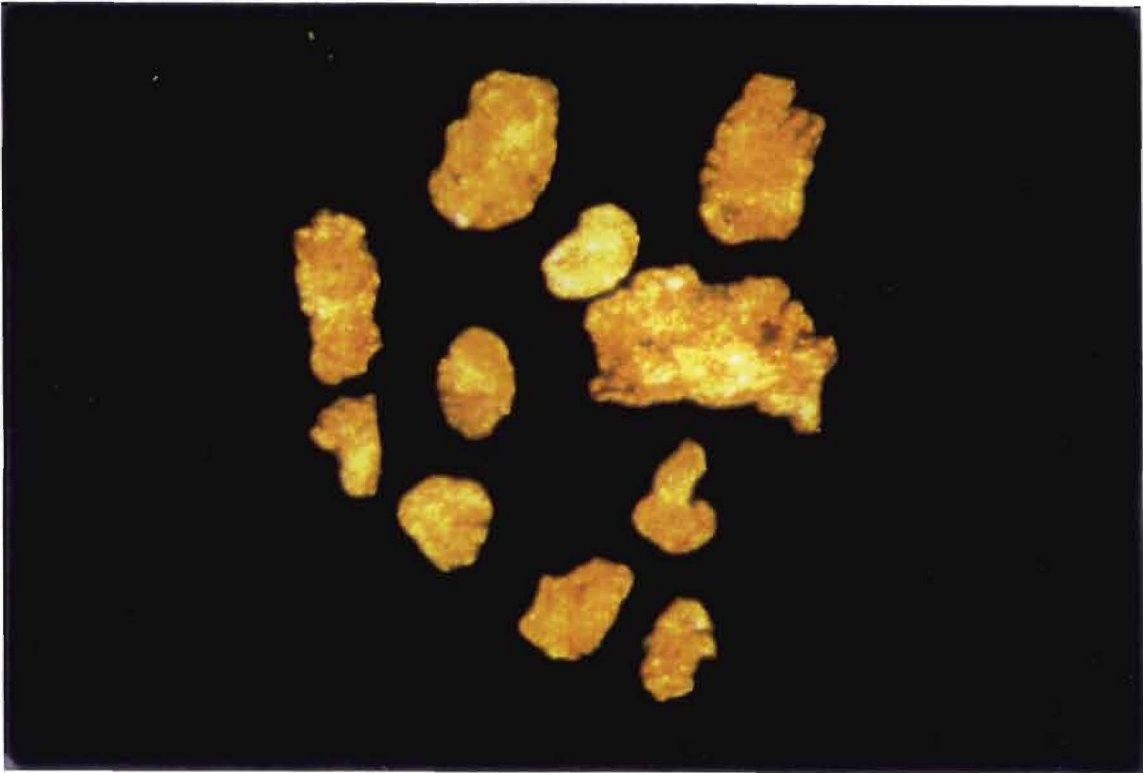
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406.66= ESTIMATED WEIGHT OF AU IN MICROGRAMS

M642 GOODALL FOX GEOLOGICAL NOV. 23/89 (7) [GOLD GRAIN COUNT] (11) 811

- 1 GOLD GRAIN WIDTH IN MICRONS
- 2 GOLD GRAIN LENGTH IN MICRONS
- 3 GOLD GRAIN DESCRIPTION
- 4 GOLD GRAIN WIDTH IN MICRONS
- 5 GOLD GRAIN LENGTH IN MICRONS
- 6 GOLD GRAIN DESCRIPTION
- 7 GOLD GRAIN WIDTH IN MICRONS
- 8 GOLD GRAIN LENGTH IN MICRONS
- 9 GOLD GRAIN DESCRIPTION

W	L	D
180	260	A/I
180	260	A
180	240	I
200	280	A/I
200	260	A
220	300	I
220	220	A
280	420	I/A
280	420	A/I
340	620	I/A
420	220	I/A



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