

MAP NO.: ASSESSMENT REPORT X
115 0 10 PROSPECTUS
CONFIDENTIAL X
OPEN FILE

DOCUMENT NO: 092789
MINING DISTRICT: Dawson
TYPE OF WORK: Geochemistry

REPORT FILED UNDER: Keran Daunt, Dan Hermanutz

DATE PERFORMED: August 1988-August 1989

DATE FILED: September 11, 1989

LOCATION: LAT.: 63° 37'N

AREA: Eureka Creek

LONG.: 138° 49'W

VALUE \$: 2850.00

CLAIM NAME & NO.: BUFF 1-24 YB 17654-659, YB 23146-23147, YB 23150-23159, YB 23537-23540

WORK DONE BY: K. Daunt

WORK DONE FOR: K. Daunt, D. Hermanutz

DATE TO GOOD STANDING:

REMARKS: #141 BUFF Disseminated pyrite occurs with quartz stringers and graphite in an east-west trending clay altered, gossanous shear zone. The host rock consists of quartz-sericite and quartz-biotite schist. Assays of the veins are sporadic but visible gold can be panned from crushed samples.



BUFF MINERAL CLAIMS

--A Geological Report--

Location 138^o 49' Longitude
63^o 37' latitude

Quartz Map 115-0-10

KIERAN DAUNT
August 1988 - August 1989



Report has been examined by
Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 2850.00.

for W. R. B. Bagnall
Regional Manager, Exploration and
Geological Services for Commission
of Yukon Territory.

TABLE OF CONTENTS

Page 1	Claim Numbers Claim Holders
Page 2	Introduction
Page 3	Geological Formations
Page 6	Maps
Page 9	Samples
Page 10	Assays
Page 14	Map Information
Page 17	Interpretation and Conclusion
Page 19	Statement of Costs

CLAIMS

=====

GRANT NUMBER

=====

Buff 1	YB 17654
Buff 2	YB 17655
Buff 3	YB 17656
Buff 6	YB 17657
Buff 5	YB 17658
Buff 6	YB 17659
Buff 7	YB 23146
Buff 8	YB 23147
Buff 9	YB 23148
Buff 10	YB 23149
Buff 11	YB 23150
Buff 12	YB 23151
Buff 13	YB 23152
Buff 14	YB 23153
Buff 15	YB 23154
Buff 16	YB 23155
Buff 17	YB 23156
Buff 18	YB 23157
Buff 19	YB 23158
Buff 20	YB 23159
Buff 21	YB 23537
Buff 22	YB 23538
Buff 23	YB 23539
Buff 24	YB 23540

CLAIM HOLDERS

Kieran Daunt (50% Interest)	Dan Hermanutz (50% Interest)
P. O. Box 95	P. O. Box 1031
Dawson City, Yukon	Dawson City, Yukon
YOB 1G0	YOB 1G0

INTRODUCTION

In July of 1988 Dan Hermanutz was employed by Edgewater Resources as an operator of heavy equipment and also as a sampler. While sampling bedrock placer, Dan noticed blue clay areas different to what he was familiar with. Intrigued by the change in bedrock, he approached Edgewater to see if they were interested in hardrock. When they declined, Dan came to Dawson City where he approached me, a Placer Miner from Bonanza Creek, to have a look at this showing from the air. A 200' wide rusty red gossan was very obvious so a decision to stake six claims was initiated. After staking, inspection of the bedrock drain revealed a series of shears varying in width from inches to several feet over the red gossan zone. Clay gouge material of blue white and red shears of orange gray and black also occurred.

The placer operators (Edgewater Exploration) were excavating a pit upstream from the bedrock drain where many ancient buffalo horns were found. Since I had read an article in National Geographic describing the death of old bison in Hotsprings of Yellowstone National Park, it was decided to call the claims Buff which was short for Buffalo Springs. Additional claims were staked when more shear zones appeared in the upstream excavations and when another flight over the area revealed vegetation change ups that might indicate a fault line traveling east approximately a mile.

GEOLOGICAL FORMATIONS

Sulphide Mineralization in the form of disseminated pyrites occur across a width of approximately 1,000'. A series of shears dipping vertically and striking east-west parallel each other. A major cross shear 8' in width crosses the main strike at 55. Stockwork quartz, graphite, biotite and foliated schists all with varying amounts of sulphides make up the material between shears. Quartz gangue also occurs between shears. Mylonitic quartz appears in gouge material and foliated schists. Cementation materials in stockwork is quartz, barite and carbonate. The fissure veins vary in width from millimeters to several feet. Fault gouge, fault breccia and tumbled boulders with striated sides to highly polished edges make up fault material. Clays contain a large amount of pyrites as do the tumbled boulders which also contain lots of graphite. Klondike series schists occur at the mouth of Eureka Creek (according to R. G. McDonnell in 1903) and is replaced by the slates, quartzites and dark and green schists of the Nasina Series. "The Nasina Series consists essentially of ancient siliceous and argillaceous sediments now altered into quartzites and quartz mica schists. These are associated in places with bands of green chlorite and actinolite schists and bands of crystalline limestone. The green schists represent, in most cases, basic irruptive rocks, principally diabases and diorites intruded along the bedding planes of the older formation, and subsequently sheared and altered the limestone beds formed part of the original deposit." "In the Klondike District, the rocks of the Nasina Series are exposed along the Yukon River from a point 2 miles below Eusley Creek up to the Indian River, and for some distance beyond. They were traced from the Yukon in a south-easterly direction up Indian River to Ruby Creek where they disappear beneath tertiary sandstone and conglomerates. They come to surface again west of Eureka Creek and continue to the boundary of the district." The material in quotes was from R. G. McDonnell in 1903.

Klondike Series consist of chloritic or sericitic schists and occur often in alternating white and green bands.

The buff showing seems to be a contact between these two major series of metamorphic rocks. The dark mylonitic fault boulders suggest a major tectonic type fault zone.

Pyritization varies from disseminated individual crystals to bands of less than 1 millimeter to bands up to 3 centimeters in width.

Gold can be smashed and panned out of the pyritized rocks over the entire width of the structure in varying amounts. However 4 fine particles per 1 ounce troy rock sample is average. One sample yielded in excess of 50 fine particles. Several coarse pieces have been extracted in the same manner.

This property seems to be similar to the Jualin Gold Property near Juneau, Alaska, which Placer Dome, Pecos Resources and International Curator Resources are actively exploring.

"Exploration activity has focused on the Jualin Shear Zone which extends for some 10,000 feet along strike, is 400-600 feet wide, and consists of at least six distinct shears hosting numerous gold bearing quartz veins. These veins range in thickness from 5 - 20 feet with stockwork zones locally exceeding 40 feet." (From the Northern Miner July 17, 1989.)

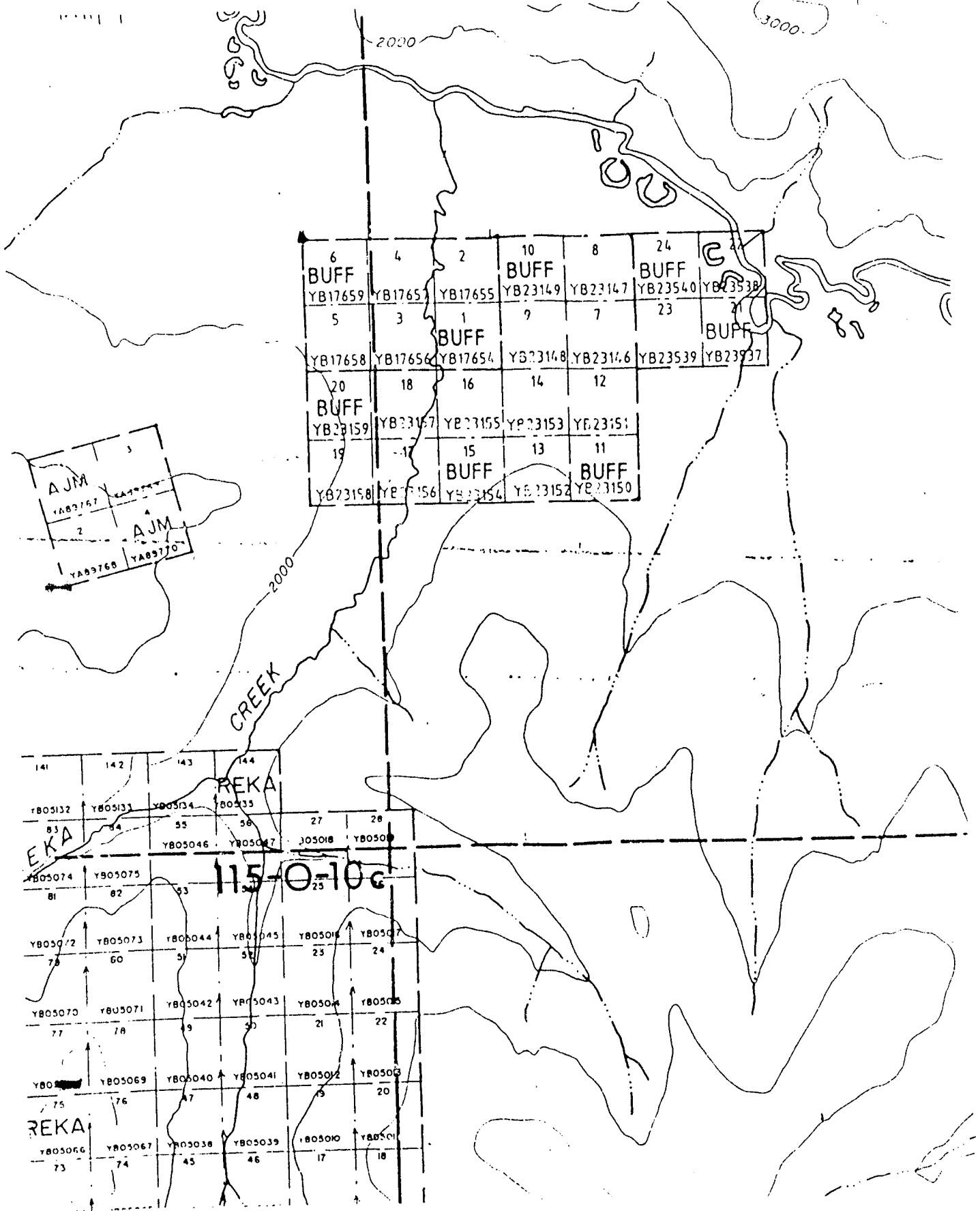
Since Placer Excavation has determined the width of the structure, only depth and length of strike has yet to be defined. A distinct change in vegetation as well as a saddle in a relatively flat gentle sloping hillside may indicate strike to be greater than one mile.

The rule of thumb for depth is that it will be half the distance of the length.

"Fissure veins may dip at any angle. All but exactly vertical veins form curved intersections with a hilly ground surface. Fissure veins range in length from a few hundred feet to several miles. Wallrocks are commonly altered by the formation of sericite, pyrite, silica, chlorite or other products of hydrothermal alteration which extend outward from a few inches to several feet. Often fault gouge or selvage, a clay like substance formed by pulverization along the fault accompanies the ore." (Handbook for the Alaskan Prospector)

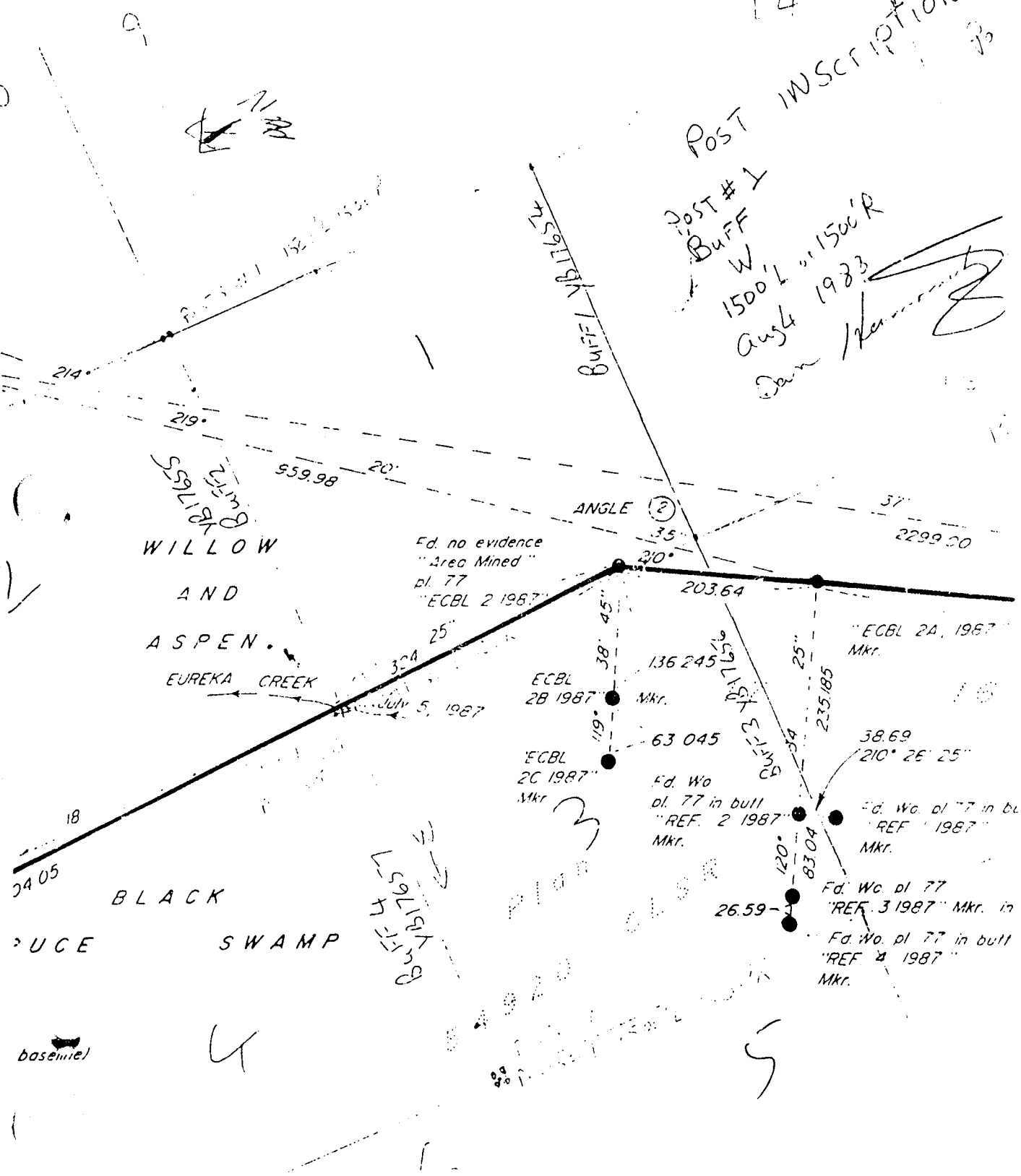
"Stockworks are masses of rock containing networks of veinlets, which individually are usually not more than an inch wide and a few feet long. The rock between veinlets may or may not be impregnated with ore minerals; in either case, the entire stockwork must be mined. Stockworks often accompany veins and replacement deposits but sometimes occur as separate bodies usually low grade but large tonnage. The fissures are formed by contraction of outer portions of intrusive rocks upon cooling, and by shearing such as produces shear zones." (Handbook for The Alaskan Prospector)

The nature of the structure indicates large tonnage. Grade of ore has yet to be determined but free milling gold puts an optimistic outlook on further exploration. High grade areas are also a distinct possibility since some samples produce significant amounts of gold.



1117 4

13
14
POST INSCRIPTIONS
Post # 1
BUFF
W
1500' L "1500'R
Aug 1983
Dan



BRISSES

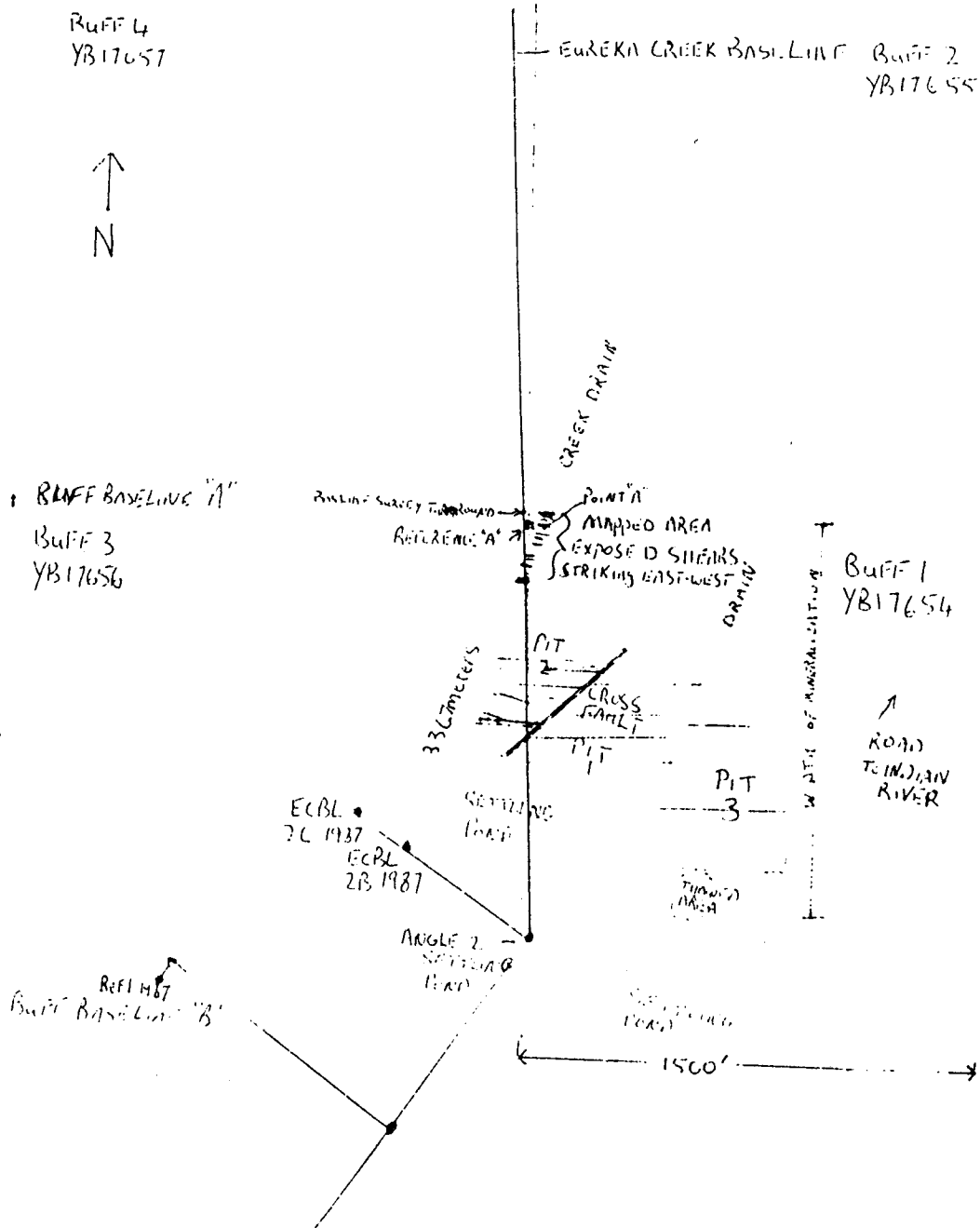
WILLOW AND ASPEN.

EUREKA CREEK

BLACK SWAMP

PLANT

basemiel



SAMPLES

SAMPLE NUMBER -----	DESCRIPTION -----	LOCATION -----
Buff 001	Blue Quartz and Blue Clay	Pit 1
Buff 002	Orange Clay	Pit 1
Buff 003	White Quartz and White Clay	Pit 1
Buff 009	Rose coloured Schistose Clay	Pit 1
Buff 010	Rose coloured Schistose Clay	Pit 1
Buff 011	Green coloured Clay	Pit 1
Buff 012	White coloured Schistose Clay	Pit 1
Buff 013	Whitish Grey Biotite Clay (Visible unidentified silver coloured mineral)	Pit 1
Buff 014	Biotite Material (visible gold)	Mapped area
Buff 015	Big Biotite Material (Larger visible gold)	Mapped area
Buff 016	Blue Quartz Rock (Visible pyrite seams)	Cross fault Pit 1 & Pit 2
Buff 017	Blue Quartz Rock in Blue Clay (Visible pyrites)	Cross fault Pit 1 & Pit 2
Buff 018	Blue and White Quartz (Visible pyrites)	Cross fault Pit 1 & Pit 2



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
 112 BRICKSBLANK AVE NORTH VANCOUVER
 BRITISH COLUMBIA CANADA V7J-1C1
 PHONE (604) 984-0211

10 MARK MANAGEMENT LIMITED

1200 - 990 W HASTINGS ST
 VANCOUVER, BC
 V6C 2W2

Project: IAWNCH
 Comments:

Page No. 117A
 Tot. Pages: 1
 Date: 21-SEP-88
 Invoice #: 1-8823312
 P.O. #: BUFF

CERTIFICATE OF ANALYSIS A8823312

Page 10

SAMPLE DESCRIPTION	PREP CODE	Au oz/T	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
BLTY 001	208 238	<< 0.002	0.27	< 0.2	< 5	470	0.5	< 2	2.99	< 0.5	4	62	9	1.37	< 10	< 1	0.23	< 10	0.29	714
BLTY 002	208 238	<< 0.001	0.30	< 0.2	55	340	0.5	< 2	0.66	< 0.5	7	68	23	2.28	< 10	< 1	0.13	10	0.42	533
BLTY 003	208 238	<< 0.002	0.32	0.2	5	1170	0.5	< 2	0.06	< 0.5	1	18	2	0.64	< 10	< 1	0.21	10	0.03	98

ASSAYS

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS

CERTIFICATION

B. Coughlin



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

111 BROOKSBANK AVE. NORTH VANCOUVER
BRITISH COLUMBIA, CANADA V7J-1C1

PHONE (604) 284-0221

TO MARK MANAGEMENT LIMITED

1800 - 400 W HASTINGS ST
VANCOUVER, BC
V6C 2W2

Project : LAWSON

Comments :

Page No. 1-B

Tot. Pages 1

Date 21-SEP-88

Invoice # 1-8823312

P.O. # : BUFF

CERTIFICATE OF ANALYSIS A8823312

Page 11

ASSAYS Cont'd

SAMPLE DESCRIPTION	PREP CODE	Mn ppm	Ni %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm
BUFF 001	208 238	< 1	< 0.01	1	400	16	< 5	2	107	< 0.01	< 10	< 10	3	5	45
BUFF 002	208 238	2	< 0.01	21	280	6	< 5	3	27	< 0.01	< 10	< 10	9	< 5	49
BUFF 003	208 238	1	0.01	< 1	50	10	< 5	< 1	19	< 0.01	< 10	< 10	1	< 5	17

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS

CERTIFICATION



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers

111 BRUNNENBANK AVE. NORTH VANCOUVER
BRITISH COLUMBIA, CANADA V7J-1C1

PHONE (604) 984-0221

TO: MARK MANAGEMENT LIMITED

1800 - 999 W. HASTINGS ST
VANCOUVER, BC
V6C 2W2

Project: LAWSON

Comments: ATTN: ART TROUP

Page No. 1/2

Total Pages: 1

Date: 18-OCT-88

Invoice #: 1-8825338

P.O. #: AOR BUFF

CERTIFICATE OF ANALYSIS A8825338

Page 13

ASSAYS Cont'd

SAMPLE DESCRIPTION	PREP CODE	As oz/T	Al %	Ag ppm	Au ppm	Ba ppm	Bc ppm	Bi ppm	Ca %	Cd ppm	Cc ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
BUFF 009	207 238	< 0.002	0.89 < 0.2	5	100	1.0	< 2	1.60 < 0.5	37	25	53	5.06 < 10	< 1	0.41	20	1.23	2260			
BUFF 010	207 238	< 0.002	0.52 < 0.2	20	300	0.5	< 2	0.17 < 0.5	23	21	23	5.29 < 10	< 1	0.22	10	0.39	1210			
BUFF 011	207 238	< 0.002	0.85 < 0.2	10	100	2.5	< 2	5.62 < 0.5	32	323	< 1	5.97 < 10	2	0.31	< 10	4.19	1560			
BUFF 012	207 238	< 0.002	0.70 < 0.2	85	170	1.5	< 2	0.84 < 0.5	10	17	29	4.29 < 10	2	0.34	20	0.87	1465			
BUFF 013	207 238	< 0.002	1.80 < 0.2	15	130	2.5	< 2	0.47 < 0.5	32	125	94	4.53 < 10	< 1	1.10	20	1.35	1525			
LFF 014	207 238	< 0.002	3.16 < 0.2	20	450	< 0.5	< 2	2.60 < 0.5	40	231	22	6.20 < 10	1	2.20	20	3.69	1841			
LFF 015	207 238	< 0.002	2.39 < 0.2	15	330	< 0.5	< 2	0.37 < 0.5	16	81	60	3.84 < 10	1	1.55	30	1.65	584			
BUFF 016	207 238	< 0.002	0.67 0.4	10	60	< 0.5	< 2	0.22 < 0.5	5	25	44	2.89 < 10	1	0.17	10	0.30	359			
BUFF 017	207 238	< 0.002	0.35 0.4	35	70	< 0.5	< 2	0.15 < 0.5	12	25	38	2.42 < 10	< 1	0.26	10	0.29	577			
BUFF 018	207 238	< 0.002	0.54 0.4	10	70	< 0.5	< 2	0.15 < 0.5	15	22	17	6.50 < 10	< 1	0.17	< 10	0.24	362			

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS

CERTIFICATION: P. Coughlin



Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Assayers
 117 BARKERSBANK AVE. NORTH VANCOUVER
 BRITISH COLUMBIA, CANADA V7J-1C1
 PHONE (604) 944-8221

TO: MARK MANAGEMENT LIMITED

1800 - 999 W. HASTINGS ST.
 VANCOUVER, BC
 V6C 2W2

Project: DAWSON

Comments: ATTN: ART TRUMP

Page No 1-B

Tot. Pages 1

Date 18-OCT-88

Invoice # I-8825338

P.O. # ACR BUFF

CERTIFICATE OF ANALYSIS A8825338

Page 12

ASSAYS Cont'd

SAMPLE DESCRIPTION	PREP CODE	Mb ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
BUFF 009	207 238	< 1	0.01	76	310	4	< 5	7	22	0.01	< 10	< 10	23	10	131
BUFF 010	207 238	< 1	0.01	51	300	6	5	7	21	< 0.01	< 10	< 10	13	5	81
BUFF 011	207 238	< 1	0.01	93	880	< 2	5	25	93	< 0.01	< 10	< 10	65	20	103
BUFF 012	207 238	< 1	0.01	18	210	10	5	7	28	< 0.01	< 10	< 10	11	5	65
BUFF 013	207 238	< 1	0.02	58	1260	8	5	13	10	0.06	< 10	< 10	87	5	95
BUFF 014	207 238	< 1	0.02	96	1230	< 2	5	19	95	0.17	< 10	< 10	143	5	123
BUFF 015	207 238	< 1	0.03	28	1170	18	5	6	10	0.17	< 10	< 10	67	< 5	81
BUFF 016	207 238	< 1	< 0.01	31	540	8	5	2	5	< 0.01	< 10	< 10	21	< 5	39
BUFF 017	207 238	< 1	< 0.01	42	390	8	5	3	12	< 0.01	< 10	< 10	20	< 5	68
BUFF 018	207 238	< 1	< 0.01	76	340	8	5	2	13	< 0.01	< 10	< 10	18	< 5	48

ALL ASSAY DETERMINATIONS ARE PERFORMED OR SUPERVISED BY BC CERTIFIED ASSAYERS

CERTIFICATION:

B. C. J.

MAP INFORMATION

- Posts number 2 of Buff 1 (YB 17654) and Buff 2 (YB 17655) and Posts Number 1 of Buff 3(YB 17656) and Buff 4(YB 17657) form reference "A."
- Marker ECBL 2B1987 is 336.7 meters SSW of reference "A" (approximately 200°).
- Samples Buff 001 - Buff 003, Buff 005 (Pan concentrates) and Buff 007 (Pan concentrates) come from Pit 1 approximately 150 meters south from reference "A".
- Biotite vein 39.0 meters south along creek drainage from a point "A) 15 meters E of reference "A".
- Sample Buff 018 is 270 meters south (200°) along drainage ditch and 55.2 meters east.
- Reference "A" is 12 feet south and 7 feet east of an Eureka Creek baseline survey turnaround pin.
- Eureka Creek Drain is 10-20 meters east of reference "A".
- Buff baseline "A" runs east-west and intersects reference "A".
- Buff baseline "B" parallels baseline "A" 3,000 feet south.

Most shear zones are almost verticle and strike east west drainage ditch north from point "A"

LOCATION DISTANCE

- 1M - 2M - Faulted orange stained quartz - 4 cm wide clay gouge
- 3.5M - Rusty gossan 6 cm wide
- 7.0M - Green orange coloured quartz
- 8.8M - Breccia
- 18.9M - Breccia
- 24.8M - Spring flowing in from the west
- 26.2 - 27.4M - Orange and white clay gouge shear zone
- 37.8 - 39.8M - Orange and white clay gouge shear zone
- 50M - Zone disappears under gravel

DRAINAGE DITCH SOUTH FROM POINT "A"

LOCATION DISTANCE

- 5.2 M - 6.3M --Shattered white quartz shearzone
- 8.8M - 1cm Wide --Breccia shear white colour
- 9.1M - 10.9M - 1cm Wide --Alternating shears white colour
- 10.9 - 12.0M --Blue-white clay gouge shearzone
- 24.8M - 4cm Wide --Round gravel shear zone
- 26.5M - 3cm Wide --Blue white quartz and clay shearzone
- 33.0M - Breccia
- 35.7M - 10cm Wide --Grey biotite (visible pyrites)
- 36.1M - --Lighter grey biotite material over 15cm
- 36.6M - 10cm Wide --Black biotite shear (buff sample 015 visible gold)

- 36.9M - Same as above
- 37.2M - Stringers of biotite shear 1 - 2 cm wide
- 37.2M - 40.4M --Foliated schist with biotite veins
- 40.4 - 41.6M --Blue white quartz clay shearzone
- 49.1M --Quartz gangue
- 52.2M --Orange clay gouge
- 53.9 - 55.2M --Alternating biotite quartz shearzone
- 55.5 - 61M --Foliated schist with thin biotite veinlets
- 61.8 - 62.8M --Grey-white clay gouge
- 63.8 - 64.4M --Yellow clay gouge
- 64.4 - 65.2M --Blue clay gouge
- 70FM and beyond bedrock is hidden under gravel

Mapping was done by Kieran Daunt

Sampling was done by Dan Hermanutz and Kieran Daunt

Kieran Daunt is a Placer Miner from Big Skookum Gulch on Bonanza Creek and has been involved in Gold Mining since 1976.

Dan Hermanutz is a miner/pro prospector and has been in the Dawson area for five years.

INTERPRETATION

As a result of poor assays, it was decided to smash various samples and pan them down for visual gold content. Pulverization was accomplished in the following manner. A simple two pound hammer was used to crunch samples against a heavy steel plate. This is an inefficient system because only about one-half the rock is pulverized enough to go through an 18 mesh screen. Rock samples averaged 20 DWT troy but ranged from 10-30 DWT. Most rocks yielded 3-4 colours or fine particles of gold (circa 75 mesh). Some particles were greater than 40 mesh. Some fine stockwork samples yielded as high as 50 fine particles of gold out of 2 pounds of rock. A weighable amount of gold was recovered in this manner. The result was 0.5 grains of gold which works out to a little more than one ounce of gold per ton. As the rock samples came from all over this could be considered an average amount of free milling gold.

Concentrates consist of pyrites of which when treated with nitric acid yield more particles of gold. Grade of sulphides has yet to be determined and a metallurgical problem probably exists because of poor assay results. Assay method was gold + silver + 30 element I.C.P. screened to -150 mesh. It is possible the gold was screened off. Tellurides such as sylvanite (Au,Ag) Te₂, AuAgte, and Calaverite AuTe₂ are possible in this type of hydrothermal. Porpezite and rhodite should also be checked for.

Further development of the Buff Mineral Claims should revolve around a trenching program for the purpose of mapping professionally the width of the mineralized zone and then bulk sampling the structure to establish ore grades. A drill program to find depth and possible grade at depth should also be initiated. One hole should be drilled at a 45° angle through the strike to intersect all the shears plus determine grade. One hole should be drilled vertical to find the depth of the structure as well as a possible leaching zone.

CONCLUSION

The potential for this structure to host an economical ore body is fairly obvious. Exploration is a must although a significant amount of capital is required. If a mine is developed the location is perfect for a mill site with decent road access. A huge unused settling facility is also sitting there. As the placer operators uncover more of the structure, more exciting samples may appear. Of course, if the placer operators were bought out, placer mining could pay for hardrock exploration as well as provide a camp and equipment.

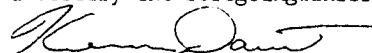


Kieran Daunt
August 1989

STATEMENT OF COSTS

Sampling (Dan Hermanutz)	15 days x \$100/day	\$1,500.00
Sampling (Kieran Daunt)	10 days x \$100/day	1,000.00
Mapping (Kieran Daunt)	3 days x \$100/day	300.00
Research (Kieran Daunt)	3 days x \$100/day	300.00
Research (Dan Hermanutz)	2 days x \$100/day	200.00
Aerial Reconnaissance	1 hour	235.00
Transportation (to and from Eureka Creek)	10 trips x \$30/trip	300.00
Report Preparation (Kieran Daunt)	3 days x \$100	300.00
Report Typing and Printing Costs		150.00
TOTAL		<u>\$4,285.00</u>

I certify the foregoing information to be true


Kieran Daunt