

**Schroeter, Tom EM:EX**

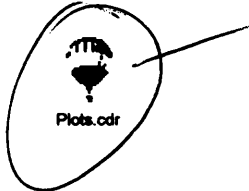
885175

TGS → LUSTDUST

**From:** Ray, Gerry EM:EX  
**Sent:** Thursday, August 24, 2000 6:19 PM  
**To:** 'pmegaw@imdex.com'  
**Cc:** Brown, Derek EM:EX; Lane, Bob EM:EX; Schroeter, Tom EM:EX; 'alpha-gold@home.com'  
**Subject:** RE: Lustdust assay and whole0rock results

↑ Alpha Gold  
(George Whately)

24th Aug 2000  
Wells, BC



need to download?

Hi Peter (and George)

I have had the assay and whole rock results back from Chemex. They are attached in two excel files. The mineral assay results are exciting. They confirm Peter's ideas of metal zoning. I was surprized by the No 1 Zone Takla Silver having such a high Au value (6.8 g/t). Was gold ever mined from the Takla Silver??.

Also attached is a correl cdr file showing plots of the intrusive whole rock data. Sample 30 is definitely alkalic while sample 27 and 29 are borderline. Looks like there could be an alkalic porphyry involved in the Lust dust system.

Take care,

Gerry

PS. George, I have tried to e-mail you several times but seem to have problems getting through. Hope this



reaches you.

Lustdust intrusive s	1989	907	909	901	904	910	2540	2891	2067	2898	2973	2978	2974
SAMPLE	MnO	Na2O	P2O5	SiO2	TiO2	LOI	TOTAL	Ba	Rb	Sr	Nb	Zr	Y
DESCRIPTION	% XRF	% XRF	% XRF	% XRF	% XRF	%	%	ppm	ppm	ppm	ppm	ppm	ppm
GR00-27	0.13	4.14	0.46	57.09	0.85	0.19	98.59	2130	66	948	18	162	24
GR00-28	0.04	4.31	0.09	70.39	0.21	2.22	98.82	1070	52	220	6	90	10
GR00-29	0.07	4.53	0.27	62.58	0.58	2.13	99.08	2270	88	814	26	210	26
GR00-30	0.07	3.44	0.29	61.94	0.56	1.41	98.7	2440	180	600	26	204	30

**Lustdust intrusive samples**

Collected by G.E. Ray

SAMPLE				902	906	2590	903	908	905
DESCRIPTION	UTM	UTM		Al <sub>2</sub> O <sub>3</sub>	CaO	Cr <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	K <sub>2</sub> O	MgO
				% XRF	% XRF	% XRF	% XRF	% XRF	% XRF
GR00-27	347003	6162467	Dk grey diorite w 8% Bte-Hbe phenos. Pyrite on fractur	17.09	5.98	<0.01	6.69	2.76	3.21
GR00-28	347056	6160723	Lt grey feldspathic ?diorite	14.59	2.61	<0.01	1.84	1.84	0.68
GR00-29	H 20-25@	575 feet	Wk altered crowded feld porph ?monzonite	16.41	5.37	<0.01	1.38	4.4	1.36
GR00-30	H 20-05@	415 feet	Megacrystic crowded feld ?monzonite. Mod bleaching	16.02	4.43	<0.01	1.62	7.55	1.37

A0025613 - CE  
DATE RECEIV  
CHEMEX 9339  
SAMPLE Zn  
DESCRIPTION ppm

Lustdust  
GR00-42 3030  
GR00-43 >10000  
GR00-44 >10000  
GR00-45 980

A0025813 - CE

DATE RECEIV

CHEMEX	9322	9323	9324	9325	9326	9327	9328	9329	9330	9331	9332	9333	9334	9335	9336	9337	9338
SAMPLE	Ni	Nb	P	K	Rb	Ag	Na	Sr	Ta	Te	Tl	Th	Ti	W	U	V	Y
DESCRIPTION	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm

**Lustdust**

GR00-42	3	Minrlzd	50	0.01	Minrlzd	>100.0	<0.01	11	Minrlzd	Minrlzd	Minrlzd	Minrlzd	<0.01	30	Minrlzd	1	Minrlzd
GR00-43	11	Minrlzd	410	0.01	Minrlzd	13.4	<0.01	<1.0	Minrlzd	Minrlzd	Minrlzd	Minrlzd	<0.01	80	Minrlzd	7	Minrlzd
GR00-44	<1.0	Minrlzd	70	<0.01	Minrlzd	>100.0	<0.01	<1.0	Minrlzd	Minrlzd	Minrlzd	Minrlzd	<0.01	<10.0	Minrlzd	<1	Minrlzd
GR00-45	42	Minrlzd	Intf*	0.04	Minrlzd	63.4	<0.01	21	Minrlzd	Minrlzd	Minrlzd	Minrlzd	0.04	160	Minrlzd	17	Minrlzd

**A0025813 - CE**

**DATE RECEIV**

CHEMEX	9304	9305	9306	9307	9308	9309	9310	9311	9312	9313	9315	9316	9317	9318	9319	9320	9321
SAMPLE	Bi	Cd	Ca	Ce	Cs	Cr	Co	Cu	Ga	Ge	Fe	La	Pb	Li	Mg	Mn	Mo
DESCRIPTION	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm

**Lustdust**

GR00-42	<2.00	58.5	0.02	Minrlzd	Minrlzd	130	7	1095	Minrlzd	Minrlzd	11.35	Minrlzd	>10000	Minrlzd	<0.01	365	2
GR00-43	56	>500	0.53	Minrlzd	Minrlzd	27	32	759	Minrlzd	Minrlzd	15.3	Minrlzd	444	Minrlzd	0.23	2380	<1.0
GR00-44	330	>500	0.04	Minrlzd	Minrlzd	111	7	272	Minrlzd	Minrlzd	>25.0	Minrlzd	>10000	Minrlzd	0.02	930	<1.0
GR00-45	Intf*	7.5	18.4	Minrlzd	Minrlzd	156	12	>10000	Minrlzd	Minrlzd	18.3	Minrlzd	240	Minrlzd	0.46	1935	3

A0025613 - CERTIFIED  
 DATE RECEIVED : 09-AUG-2000

CHEMEX

SAMPLE

DESCRIPTION

Au = FAA; other elements ICP

3583	997	13	20	9301	9341	9302	9303
Au	Au	As	Hg	Al	Sb	Ba	Be
ppb	g/tonne	ppm	ppb	%	ppm	ppm	ppm

Ag W

**Lustdust**

GR00-42	349647	6159929	Sphal-sulfosalt, No. 1 Tackia Silver	6820	----	>10000	16310	0.1	Minrlzd	<10	<0.50
GR00-43	437096	6161459	Massive shal-pyrite. 4B Zone	210	----	583	730	0.08	Minrlzd	10	<0.50
GR00-44	437096	6161459	Massive shal-pyrite. More pyrite. 4B Zone	1510	----	450	280	<0.01	Minrlzd	<10	<0.50
GR00-45	346991	6162139	Gt-chalco-pyrite skarn. N. Canyon Zone	1265	----	211	<10	1.1	Minrlzd	20	<0.50

>1000 80

YOS → Lusta  
- COG

**Schroeter, Tom EM:EX**

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**From:** Ray, Gerry EM:EX  
**Sent:** Friday, June 09, 2000 11:17 AM  
**To:** Brown, Derek EM:EX  
**Cc:** Webster, Ian EM:EX; Lane, Bob EM:EX; Schroeter, Tom EM:EX; Smyth, Ron EM:EX; Ferri, Fil EM:EX; Alldrick, Dani EM:EX; Lefebure, Dave EM:EX; Ash, Chris EM:EX  
**Subject:** Filed season 2000 - Barkerville (Lustdust)

CONFIDENTIAL

10th June 2000

Hi Derek,

Yesterday morning I attended a meeting with Tom Schroeter and Bob Lane in Vancouver to discuss the upcoming summer field program. George Whatley of Alpha Gold (Tel 939 4083) attended for the first two hour; he described his company's plan for drilling the Lustdust property this summer. After he had left, Rick Conte of Mineral Tiltles attended to discuss the latest regarding the Barkerville staking rush.

Points covered in the meeting included:

**LUSTDUST (Alpha Gold)**

- The property is located 210 NW of Prince George. It represents a classical zoned skarn-manto system with proximal Cu-Au skarn adjacent to a pluton and more distal Zn-Pb-Ag +/- Cu, Au mantos. Exploration has been focused on the mantos but there is an untested potential for proximal Cu-Au skarns and Cu porphyry mineralization.
- The company plan to drill 25 000 feet this summer.
- They have employed Dr. Peter Megaw to consult. He is a well known and respected expert on mantos who has done a lot of work on these deposits worldwide (particularly Mexico) as well as written numerous papers on them. We were given copies of Peter's reports and recommendation.
- He is highly excited about the potential of the Lustdust (as he is also about Silvertip-Midway). This is a high recommendation for BC's manto potential given his wide expertise.
- It was suggested that sometime in mid ~~July~~ (c. 13th ~~July~~), Tom, Bob, Ian and myself should visit the property while Peter Magaw is on site and drill core is available. George Whatley is pleased to have any GSB input.

**BARKERVILLE**

- A number of GSB staff plan to visit the Barkerville camp this summer (myself, Ian, Tom, Bob, Filippo, Chris Ash, Derek, Dave Lefebure and Ron). Ian and myself plan to arrive in the camp towards the end of July (after completing Heffley Lake) and will be there all of August with a short time out to see Lustdust.
- Wayside Minerals have employed David Rhys and Kika Ross to work on the property. I have tried to contact them without success (they may be up on the property). I have left a message requesting they phone me.
- The meeting stressed that we (Ian and myself) should not duplicate the work that others are doing at Barkerville. Instead we should compliment what the company and others plan to do. Bob Lane has sampled some of the core and is looking at the alteration lithochemistry.
- One suggestion at the meeting was that Ian and I should spend our first week in the area looking at the geology, chemistry and wallrock alteration of the Wayside mineralization (both vein and replacement "Ledge"-type. We should then see whether that data can be used as an exploration pathfinder on other properties in the belt (e.g Yanks Peak, Prosepine, Antler and Grouse placer drainages etc.). This could involve alteration mapping at selected locations. Besides possibly coming up with pathfinders, it will avoid the impression that we are unfairly concentrating or helping one property owner.
- I have a contract to use the UBC microprobe lab. Samples from the Wayside and other Barkerville properties could be examined by microprobe (we need to know whether or not David and Kika plan this type



of work).

- Katherine Dunne has a small contract with my program to do FI studies on 10 samples. We need to find out from Wayside whether they will have any confidentiality problems with this.
- Rick Conte gave us copies of the latest claim maps for the belt. It was agreed that if it wasn't for the Barkerville rush, exploration in BC would be dismal.
- Wayside have done a re-interpretation of an airbourne geophysical program that is plotted on a 1:20 000 TRIM map.

If anyone has any further suggestions on what Ian and I should do at Barkerville, we would appreciate hearing from you.

#### **FORTHCOMING WORKSHOP**

- Tom is organizing an MEG Workshop on Fe-oxide-Cu-Au type deposits to be held in Vancouver in November.
- Hopefully, Pat Williams of JCU, Australia will be the keynote speaker.
- I hope to give a 30 minute talk on the potential for these deposits in BC based on the work Ian and I did last summer (for this I would need travel permission and some help from Mike for slide preparation).

Gerry

TOS → RG  
- Pr. Ge

**Schroeter, Tom EM:EX**

**From:** Lane, Bob EM:EX  
**Sent:** Tuesday, August 22, 2000 4:55 PM  
**To:** Brian McBride; Brian McGrath; David Morgan; David Pow; Ed Beswick; Ed Pittman; Ken MacDonald; Romona Blackwell; Jacques Houle; Mike Cathro; Paul Wilton; Paul Wojdak; Dave Lefebure; Derek Brown; Gib McArthur; Larry Jones; Robert Pinsent; Ron Smyth; Tom Schroeter  
**Subject:** Lane Weekly

Lane Weekly Report for August 14 - 22, 2000

**Exploration Activity in the Northeast-Central Region**

not VMS  
(no volcs.?)  
→ shale

**Carruthers.** Phelps Dodge has completed a 6-hole, 950-metre diamond drill program on their Carruthers VMS property near Johanson Lake. Drilling targeted the projection of a narrow polymetallic horizon, that was exposed in cliffs near the ridge crest. Host rocks are (tuffaceous?) graphitic mudstones, siltstones and fine-grained sandstones of the Triassic Dewar Formation (Takla Group).

**Kemess.** Kemess Mines Inc. has completed a 7-hole, 1700-metre diamond drill program on its Kemess North deposit, 6-7 kilometres north of the Kemess south deposit. A visit to the property is planned for early September with Schroeter.

**Lustdust.** A total of 28 holes (>3000 metres) were drilled on Alpha Gold's skarn-manto prospect, located north of Tsayta Lake. Drilling focused mainly on extending some of the known copper-gold skarn zones that occur within Cache Creek Group limy tuffs and argillites, including some limited areas north of Canyon Creek. Assay results are eagerly awaited for this project.

**Sustut Copper.** Visited Doublestar Resources staff with Paul Wojdak on August 16-18, examined diamond drill core and briefly toured the North and Southeast zones. Project geologist Nils von Fersen, Doublestar President Alan Savage and a number of consultants were at the site during our visit. The company has completed its program of 22 infill diamond drill holes, totaling about 1900 metres, on the Southeast zone of the Sustut Copper deposit, located about 370 kilometres northwest of Prince George (45 km south of the Kemess gold-copper mine). This year's drilling, together with past drilling by Falconbridge, will provide data for the zone on approximately 50 metre centres. The company will be trying to upgrade the existing reserve for the zone with the intent of developing a starter pit there if economics prove favourable. Although at an early stage, Doublestar is reviewing development options for the property. Mineralization consists mainly of disseminated chalcocite, bornite, chalcopyrite and native copper within tabular zones parallel to bedding. Host rocks are dominantly green volcanic conglomerates, grits and sandstones of the Upper Triassic Moosevale Formation of the Takla Group. Permeability of these rocks played a significant role in formation of the stratabound zones. Three zones, Southeast, Southwest and North, drilled by Falconbridge in the early 1970s, comprise the property's total resource of 54.4 million tonnes grading 1.25% Cu.

**Tsacha.** Randy Farmer (Teck) has confirmed that drilling will not proceed this year on the Tsacha gold vein prospect, near the Blackwater River, southern Nechako Plateau. Junior company Corona Gold had been earning an interest in the property by funding the exploration conducted in 1997 and 1998.

**Dominion Creek.** Gold City Industries has begun a 3-4 week prospecting, geochemical sampling and geophysical surveying program on its gold-silver prospect along the Isaac Lake fault, north of Bowron Lake Park.

**Schroeter, Tom EM:EX**

TOE → RG  
— Pr. Geol.

**From:** Lane, Bob EM:EX  
**Sent:** Tuesday, July 25, 2000 4:25 PM  
**To:** Brian McBride; Brian McGrath; David Morgan; David Pow; Ed Beswick; Ed Pittman; Ken MacDonald; Romona Blackwell; Jacques Houle; Mike Cathro; Paul Wilton; Paul Wojdak; Dave Lefebure; Derek Brown; Gib McArthur; Larry Jones; Robert Pinsent; Ron Smyth; Tom Schroeter  
**Subject:** Lane weekly

Lane Weekly Report for July 17 - 25, 2000.

### Exploration Activity in the Northeast-Central Region

**Kemess:** Visited July 24-25, 2000. Met with Chief Mine Geologist, Mike Hibbitts, staff geologists Miles Gao and Mike Seib, and contract geologist Brett LaPeare [note: there are now 7 geologists onsite, including those on cross-shifts]. Four NQ holes, totaling 1015 meters were drilled on the Kemess Centre porphyry Cu-Au target located less than 2 km N-NW of the Kemess South deposit. Holes KC01 to KC03 tested an east-trending coincident radiometric - IP chargeability anomaly. Hole KC04 tested the eastern flank of a "bulls-eye" radiometric anomaly approx. 500 metres to the north. Each hole encountered some mineralization associated with qtz monzonite to diorite intrusions. Assays are pending.

The exploration team is about to begin a 5-8 hole program of infill/confirmation drilling on the Kemess North deposit. These holes are intended to test for continuity of grade between existing holes or evaluate the margins of the deposit that remain open.

**QR:** There are rumours of the former gold producer being purchased by Prince George local Roger Alan. If true, he may attempt to re-energize the property. Staking and exploration for PGM and gold targets in the Maud Lake area to the west may generate some new showings.

**Lustdust:** Visited this exciting carbonate-replacement (skarn and manto) prospect, located 210 km N-NW of Prince George, on July 21. At the time of my visit owner/operator Alpha Gold had completed approximately 8000 feet of diamond drilling in 18 holes (no assays results released yet); another 12-18 holes are expected to be drilled by mid-August. Examined core from several holes as well as road cuts/trenches that expose manto and skarn mineralization. A showing (TR-05) exposed last year in a road cut on the north side of Canyon Creek consists of a 2-metre wide zone of garnet-rich skarn, mineralized with coarse-grained chalco and bornite, in contact with a QF? dyke. Disseminated and fracture-controlled chalco and py extend into the dyke and hornfelsed argillites. Sampling by the company across the zone averaged 5.7 g/t Au, 351 g/t Ag, 12% Cu and 0.3% Zn. This occurs within a 7 metre interval that averaged 5.1% Cu. This zone is one of many skarn targets being evaluated by diamond drilling this year. Lustdust will probably end up being of the top 2 or 3 exploration projects in the region this year. A follow-up visit is planned with Ray/Webster and Schroeter August 13-15.

### WELLS-BARKERVILLE AREA

**Bonanza Ledge (Cariboo Gold Quartz).** Visited July 20, 2000. Met with Richard Hall and Kika Ross. Examined holes 17-19 and reviewed hole 10; collected samples from selected intervals for geochemical analysis (+/- T.S./P.T.S. work) as part of alteration study.

Drillers were setting up "38" to begin drilling hole BC2K-30 (at the time of my visit). The next approximately 10 holes are intended to be infill (fan) holes on 100 ft. centres (or less). It is expected that data from these holes will contribute important structural information regarding the geometry of the deposit (as well as some more high grade

TGS → Lustdust

**Schroeter, Tom EM:EX**

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**From:** Ray, Gerry EM:EX  
**Sent:** Friday, June 30, 2000 9:04 AM  
**To:** 'Peter Megaw'  
**Cc:** Schroeter, Tom EM:EX; Brown, Derek EM:EX; Lane, Bob EM:EX  
**Subject:** Lustdust property

30th June 2000

To: Peter Megaw - Imdex Inc.

Hi Peter,

Thanks for your message regarding your plans at Lustdust this summer. I have just returned from S. America - hence my delay in replying.

Yes, On the 8th of June we met with George Whatley of Alpha Gold Corp. At the meeting were Tom Schroeter and Bob Lane, our Ministry geologists based at Vancouver and Prince George respectively (who you may have met).

George gave us a copy of your April 2000 report and told us they plan to drill 25 000 feet if possible. It sounds a very promising property. We discussed making a visit there - hopefully when you are there also. George mentioned that you will be up there sometime after the 25th of June for 2 weeks - and we talked of coming up during the 1st or 2nd week of July.

Can you please let us know your plans and when it would be convenient for us to visit.

I leave for the field in 2 weeks but can be contacted via my government e-mail:  
gerry.ray@Gems9.gov.bc.ca

We look forward to seeing you and the Lustdust.

Cheers

Gerry

PS Sorry I missed you when you came to Victoria a few weeks back.

**Schroeter, Tom EM:EX**

TGS → RG  
- Pr. Geo.

**From:** Lane, Bob EM:EX  
**Sent:** Tuesday, July 24, 2001 12:21 PM  
**To:** EM MB Prince George DL; Cathro, Mike; Houle, Jacques; Terry, David; Wojdak, Paul; Brown, Derek EM:EX; Jones, Larry EM:EX; Lefebure, Dave EM:EX; McArthur, Gib EM:EX; Pinsent, Robert EM:EX; Schroeter, Tom EM:EX; Smyth, Ron EM:EX  
**Subject:** Lane Weekly

Lane Weekly Report to July 23, 2001.

Exploration Monitoring:

**Star.** Visited with claim owner Ursula Mowatt and prospector Richard Haslinger on July 21, 2001. Helicopter access only—multitasking helicopter pilot Grant Luck discovered a new showing, the GL zone. The Star property consists of five 20-unit claim blocks located on the Lay Range; the claims overlay part of an ultramafic complex (dunite, olivine pyroxenite, pyroxenite, etc), diorite, fine-grained and chemical sediments and numerous narrow felsic dykes. Target is magmatic copper-PGM+/-gold; past rock and soil geochemistry have identified a number of prospective areas on the claims; samples with elevated copper values often are elevated in Pt and Pd, locally in excess of a gram/tonne PGM. Mineralization occurs primarily in olivine pyroxenite and appears to be spatially related to narrow felsic dykes; CPY-PY occur mainly interstitially to Fe-Mg silicate minerals; sulphides are generally very fine-grained

**Lustdust.** Visited July 22 with Alpha Gold president and CEO George Whatley and project geologist Jim McGlassen. GSBers Gerry Ray and Ian Webster were south. The company is currently drilling hole DDH-01-41, the eleventh hole of this years program. Most of the previous drilling has focused on skarn and manto styles of mineralization, but most of this year's drilling will test porphyry potential of the property (incl several unexplained magnetic anomalies). Several holes in excess of 1000 feet on north side of Canyon Creek at top of hill where new drill access trails have been constructed. Bulk of intrusive material intersected so far is pyritic, weakly porphyritic monzonite; at least two phases of alteration were noted—an earlier potassic event (narrow veins of pale pink K-feldspar; lesser quartz-biotite veins and biotite-coated fracture/joint faces) and a cross-cutting chlorite-pyrite-quartz-epidote event. Monzonite is most commonly in contact with hornfelsed cherty sedimentary rocks; trace amounts to 1-2% sulphides occur locally (PY>>MO-CPY). Drilling is expected to continue for at least a few more weeks and will test the porphyry potential of the property on either side of Canyon Creek.

**Hen.** Spoke to Vic Guinette regarding his Hen claims that cover an Early Jurassic alkalic intrusive centre near Hen Ingram Lake, between Quesnel and Horsefly lakes. May see some activity later this summer.

PA Grantees:

**PAP** Robin Day has completed his 21+ day program on the Finger Lake or Iron Mountain showing (Minfile 093F 023) immediately north of Finger Lake in the Nechako Plateau. Bedrock mapping was completed over much of his claims, a grid was established over the main area of interest; 248 soil and 28 rock samples were taken and submitted for analysis.

Martin Peter has spent several days in the Clearwater area and several more on his Taspai Creek area of interest SE of Prince George (the next few days will be spent on a small soil grid); recce prospecting is planned for an area east of Tweedsmuir Park where there has been quite a lot of new logging road construction to access areas of significant 'bug kill'.

Sheran Patterson has completed a small trenching program on a precious metal vein/shear system on her Heart claim near Spanish Lake. Mapping and sampling to follow.

Other:

Placer field trip to the Wells-Barkerville area with Vic Levson, Ken MacDonald and Brian McGrath to take place July 25-26.

New truck 03912 being 'upfitted' for the field.

targets. If budgets allow there will be a phase II that would extend drilling into September.

Lustdust. Alpha Gold has begun its diamond drilling assault on the Lustdust prospect, a telescoped vein-manto-skarn-porphyry system located north of Tsayta Lake in Cache Creek Group rocks. Gerry Ray and Ian Webster (GSB) are conducting a detailed examination of the property. Early drilling has intersected several skarn and porphyry targets. No assay results have been released yet.

#### Other Activity

**Snowshoe Rocks, Likely area:** Field day (July 11) with Fil Ferri, Brian O'Brien and Dave Lefebure examining Snowshoe rocks north of Cariboo Lake between Rollie and Simlock creeks. Tried to locate the 'old' Peacock showing near Rollie (Duck) Creek, but despite a label that is suggestive of '*vibrant and colourful plumage*' the showing could not be located.

#### PA Grantee Visits and Correspondence

**Shiko Lake.** Visited PA grantee Rudy Durfeld on July 6 (with Tom Schroeter). Alkalic Cu-Au+/-PGE porphyry system located north of Horsefly. Past work includes minor amounts of diamond drilling and trenching in two areas where there have been significant, but spotty assay results. PGEs never evaluated and are a significant part of the program.

Spoke with Sheran Patterson (Spanish Creek), Robin Day (Cabin Creek) and Colin Campbell (Techentlo Lake) regarding timing of their respective projects.

**Bob Lane**  
Regional Geologist  
Mines Branch, Prince George  
British Columbia  
V2K 4H9  
Ph: 250-565-6125  
Fx: 250-565-6015  
Email: Bob.Lane@gems4.gov.bc.ca

Lane - July 13/01

TBS → Reg. Mgr  
- Pt. Geo.

**Schroeter, Tom EM:EX**

**From:** Morgan, David EM:EX  
**Sent:** Friday, August 24, 2001 2:23 PM  
**To:** Beswick, Ed EM:EX; Adams, Rick EM:EX; Anderson, Duane EM:EX; Beckett, Carla EM:EX; Bergen, Wally EM:EX; Brown, Derek EM:EX; Cheetham, Pat EM:EX; Conte, Rick EM:EX; Curtis, Ross EM:EX; Errington, John EM:EX; Finvers, Maija EM:EX; German, Gerald EM:EX; Guthrie, Shelley EM:EX; Hall, Ted EM:EX; Headley, George EM:EX; Hermann, Fred EM:EX; Jorgensen, Sharon EM:EX; Kennedy, Wesley EM:EX; Lefebure, Dave EM:EX; Lieutard, Denis EM:EX; McArthur, Gib EM:EX; McLaren, Graeme EM:EX; O'Rourke, Patrick EM:EX; Phelan, Bill EM:EX; Rennie, Lorna EM:EX; Ringstad, Norm EAO:EX; Schmitt, Rolf EM:EX; Schroeter, Tom EM:EX; Smyth, Ron EM:EX; Stewart, Linda EM:EX; Whale, Andrew EM:EX; White, Don CSE:EX; Blackwell, Romona EM:EX; Lane, Bob EM:EX; MacDonald, Ken EM:EX; McBride, Brian EM:EX; McGrath, Brian EM:EX; McIntyre, Ken EM:EX; Pittman, Ed EM:EX; Pow, David EM:EX; Rivers, Jan EM:EX; Wick, Patricia EM:EX; Wood, Nancy EM:EX; XT:EM Parady, Jamie  
**Cc:** Rosentreter, Rieva EM:EX  
**Subject:** Prince George Update to August 24/01

**Issues:** Cottonwood/Fraser: minimal placer activity; Swift River/Sovereign Creek: minimal activity; Our concern is, there is more logging activity in some of these areas than mining.

**FYI:**

**Lustdust** - Slide in Canyon Creek: Nextech of Ft. St. James completed 4 days of hoe work on slide to remediate. Work included wooden retaining wall on fillslope to prevent further debris failure, hay bales for sediment control, bucking and laying down of broken timber, water drainage structures on drill pad, and seeding. No work performed on road; water control structures and written report still outstanding.

**Pine Valley Coal:** Public Liaison and Environmental monitoring committee met August 23rd at 6:30 pm, Willow Flats Community hall, two local residents and Mayor C. Lasser, councilor T. Caton showed up for site tour. Two additional local residents attended meeting at 7:30. Environmental consultant to PVC reported on monitoring, when he pointed out a problem with the lab results he was accused by B. Ketsa, of shopping around for a lab that would give favorable results only. John Clark, Pollution Prevention, C. Lasser and T. Caton all defended the actions of PVC to verify the results with a second laboratory. PVC provided some plans of their proposed RAW coal production schedule for the next four years. The plan will see a scaling up of production over from 200,000 tonnes this coal year to 900,000 by the third year. The preparation plant would be constructed starting in two years. The residents want a definition of when "Production Commences" some of the EA Certificate conditions are triggered by "Production Commencement" We will have another meeting within a month of receiving the application to get the committee's feelings and comments.

**Teko pit,** Taylor, tender closed on Wednesday August 15th, contract awarded to Inland Contracting (Joe Berry) the preconstruction meeting is proposed for next week, MEM will attend.

**Admin:**

Prince George telephone numbers changed on Monday Aug 20th. New numbers are available electronically, Main Office (250) 561-5600 Fax is (250) 561-5622

**Schroeter, Tom EM:EX**

TGS → RG  
— Expl'n

**From:** Lane, Bob EM:EX  
**Sent:** Friday, August 02, 2002 1:52 PM  
**To:** Beswick, Ed; jamie pardy; MacDonald, Ken; McBride, Brian; McIntyre, Ken EM:EX; Morgan, David; Pittman, Ed; Cathro, Mike; Houle, Jacques; Terry, David; Wojdak, Paul; Brown, Derek; Lefebure, Dave; McArthur, Gib; Schroeter, Tom  
**Subject:** Addendum to Northeast-Central Region Exploration Update

**Northeast-Central Region Exploration Update to Aug. 2, 2002**

Exploration Activity

**3Ts (Tsacha, Tam and Taken).** Southern Rio has begun grid establishment and a ground geophysical survey on its 3Ts epithermal gold-silver project in the Nechako Plateau area south of Vanderhoof. Follow-up drilling is planned for late summer.

**Lustdust.** Alpha Gold has completed 9 diamond drill holes (approx. 3300 metres) south of Canyon Creek on its Lustdust auriferous skarn-manto prospect. Drilling is targeting deeper levels of skarn mineralization proximal to the eastern margin of the Eocene Glover monzonite stock. Copper-gold grades are highest in skarn mineralization that has developed in a calcareous mafic tuff unit that ranges from 6-20 metres thick (vs. massive monomineralic grey limestone). The roots of manto mineralization at the 4B zone to the south, and skarn mineralization north of Canyon Creek, are drill targets for later in the program (visited Aug.1/02).

**Lorraine.** Eastfield Resources has resumed drilling at its Lorraine copper-gold property. Current drilling will try to expand on the 'new Lower Main' zone (near hole 2002-62, drilled last March, that intersected 149 metres averaging 0.57% Cu and 0.39 g/t Au).

**Tas.** Navasota Resources has optioned the Tas porphyry-related gold property, 50 km NW of Fort St. James, from Derry Halleran. The Tas claims, located 6 km south of the company's Fran gold property, encompasses the Freegold and Ridge zones, which have been tested by shallow drilling and/or mini-bulk sampling in the past. Compilation of all existing data and a fall drilling program are planned.

Bob Lane  
Regional Geologist  
Prince George



## **Schroeter, Tom EM:EX**

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**From:** Schroeter, Tom EM:EX  
**Sent:** Thursday, January 16, 2003 12:45 PM  
**To:** 'oliver@sageserve.com'  
**Subject:** Bralome-Takla Mercury Mine

Jim, I just spoke briefly to Rick Conte regarding Alpha's desire to 'pick up' this property. Rick informed me that he has dealt with this issue with his boss, Gerald Germain. However, we both would be prepared to re-address/re-float the issue to MEM Executive (the ADM/DM, if necessary) during Roundup, if necessary. **BOTTOM LINE - give Rick a call next MONDAY (20th).**

### **Tom**

Tom Schroeter, P.Eng./P.Geo.  
Senior Regional Geologist  
Resource Development Division  
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Facsimile 604 775-0313  
email tom.schroeter@gems6.gov.bc.ca  
Autotel 604 662-9091

**Schroeter, Tom EM:EX**

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TGS → Lustdust

**From:** Schroeter, Tom EM:EX  
**Sent:** Thursday, January 16, 2003 12:02 PM  
**To:** 'oliver@sageserve.com'  
**Subject:** Lustdust Interest?

**Importance:** High

- 1) Barrick - Ian Cunningham-Dunlop 604-684-2345
- 2) Phelps Dodge (Van.) - Rob Cameron 604-669-2954
- 3) AngloGold (USA) Exploration Inc. - Don Birak (VP, Expl'n) [Englewood, Col.] 303-889-0700
- 4) Angloamerican (Van.) - base metals 'sector' - David Cass 604-684-1454
- 5) Wheaton River - Ian Telfer 604-684-9648 (could have changed?)
- 6) Newmont - Richard Gorton [Englewood, Col] 303-708-4174
- 7) Placer Dome
- 8) Teck Cominco
- 9) Northgate Exploration - Terry Lyons 604-669-3141

Hope this helps, Jim.

**Tom**

Tom Schroeter, P.Eng./P.Geo.  
Senior Regional Geologist  
Resource Development Division  
Ministry of Energy and Mines

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## **Schroeter, Tom EM:EX**

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**From:** Schroeter, Tom EM:EX  
**Sent:** Friday, December 27, 2002 8:31 AM  
**To:** 'geray@shaw.ca'  
**Subject:** Lustdust Pamphlet

Gerry - thanks very much for a copy of the pamphlet - looks great! All the best in the New Year! (SO sorry to hear about Jim's daughter).

### **Tom**

Tom Schroeter, P.Eng./P.Geo.  
Senior Regional Geologist  
Resource Development Division  
Ministry of Energy and Mines

Direct Telephone 604 660-2812  
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**Schroeter, Tom EM:EX**

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**From:** Lane, Bob EM:EX  
**Sent:** Friday, June 27, 2003 3:57 PM  
**To:** Cathro, Mike EM:EX; Terry, David EM:EX; Wojdak, Paul EM:EX; MacDonald, Ken EM:EX; Pittman, Ed EM:EX; Lefebure, Dave EM:EX; Anderson, Duane EM:EX; Errington, John EM:EX; Grant, Brian EM:EX; Lewis, Jim E EM:EX; Marshall, James EM:EX; Conte, Rick EM:EX; Schroeter, Tom EM:EX  
**Subject:** LANE WEEKLY REPORT FOR NE-CENTRAL REGION!

Regional Geologist's Mid-Year 'Weekly Report' for the Northeast-Central Region

Exploration Update:

**Kaza and Northstar.** Northern Hemisphere has mobilized a crew to Kaza Lake, north of Takla Lake, to begin grid based sampling on the Kaza porphyry-skarn Cu-Au prospect and on the Northstar volcanic redbed copper prospect. Drilling is anticipated for both properties later in the field season.

**Indata.** Castillian Resources Ltd., Eastfield Resources' JV partner on the Indata porphyry Cu-Au property located NW of Indata Lake in north-central BC, will conduct a phase I program of mainly IP with possible follow-up diamond drilling.

**Lustdust.** Alpha Gold has completed a first phase of drilling on its gold-enriched polymetallic skarn/replacement prospect located north of Tsayta Lake. Drilling focused on the #1 zone, the most southerly zone known on the property, where limited underground exploration was conducted by Takla Silver Mines Ltd. in the 1940's. It is comprised of narrow, but well mineralized (Ag-Pb-Zn-Au) veins and replacements with excellent strike potential. A total of 23 holes were drilled for a composite length of approximately 4300 metres. Results are pending. A second phase of drilling is expected to commence in late-July or early August and is expected to expand on work completed on the #1 zone as well as target the Canyon Creek skarn, where drilling last year produced several exceptional gold assays.

**Brenda.** Northgate Exploration Ltd. has begun a limited diamond drill program on the Brenda Au-Cu porphyry prospect, with the first drill hole planned to commence during the week of June 16.

**Croy.** Northgate Exploration has submitted a plan for exploration in this Au-Cu target in the Johanson Lake area.

**Kemess North.** Drilling is well underway rapidly with feasibility work on Kemess N. condemnation drilling. Exploration is also moving ahead with road development and

*July 22/03  
Alpha Gold successful  
in obtaining (\$24k)  
CG over historic  
Bralorne-Takla Hg mine.*

**Motherlode.** Preliminary work has begun on the series of claim blocks that comprise the Motherlode project of private company Richfield Resources. Most of the claims cover several prospective areas immediately west or on the Eureka and Spanish thrust faults.

**McDougall River/McLeod River.** Mountain Boy Minerals is planning both placer testing and mineral prospecting on their claims north of Carp Lake. Area has a history of placer platinum production.

**Cariboo Gold Quartz.** International Wayside Gold Mines completed the drilling of a series of closely-spaced vertical core holes through the central part of the Bonanza Ledge zone in order to test the zone for grade and

## **Schroeter, Tom EM:EX**

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**From:** Lane, Bob EM:EX  
**Sent:** Friday, September 26, 2003 4:25 PM  
**To:** Cathro, Mike EM:EX; Terry, David EM:EX; Wojdak, Paul EM:EX; MacDonald, Ken EM:EX; Pittman, Ed EM:EX; Lefebure, Dave EM:EX; Anderson, Duane EM:EX; Errington, John EM:EX; Grant, Brian EM:EX; Lewis, Jim E EM:EX; Marshall, James EM:EX; Conte, Rick EM:EX; Schroeter, Tom EM:EX; Guthrie, Shelley EM:EX  
**Subject:** Lane "Weekly" Exploration Update for Northeast-Central BC to September 26, 2003

Exploration Update for Northeast-Central BC to September 26, 2003

**Kemess North.** Exploration drilling has been completed for the year, but a few more holes are being drilled within the Kemess North pit design to provide information for block modeling. Pre-feasibility studies completed indicate a "minable resource" of 369 million tonnes with an average grade of 0.34 gpt Au & 0.18% Cu. The deposit as designed contains approx 4 million ounces of gold and 1400 million pounds of copper. The commissioning of Kemess North would extend the overall life of the Kemess project to 2019. Capital cost is estimated at \$126 million. Based on the pre-feasibility study, the Kemess project would produce an average of 250,000 ounces of gold per year for 16 years at a cash cost of \$150 per ounce. A full feasibility study is underway.

**Pine.** Stealth Minerals Ltd. has wound down its exploration camp and, with the exception of a few small grids, is finished for the year. Numerous new porphyry and high & low sulphidation vein systems were discovered with perhaps the most promising showings being the Grizzly (Sickle) epithermal vein and Pine North porphyry gold-copper.

**Shasta.** Approximately 1550 tons of Shasta (JM zone) vein material has been processed by Sable Resources at their Baker mill. Additional exploration drilling at Shasta is planned for this season.

**Al.** Bishop Resources has released more drill assays from its 10-hole program at the Al property north of the Toodoggone River. Impressive assays include: 6.8m grading 23.2 gpt Au in hole A03-06. The company has announced

**Manson Creek area placer** (including Slate Creek). Angel Jade Mining has completed placer mining on one of its leases on the Manson River and has moved part of its floating trommel brigade to the Slate group of claims on the other side of town. Slate Creek Mining is well underway on its project of diverting Slate Creek and mining the old creek bed. Remarkably well preserved timbers uncovered during the excavation are clear evidence that previous attempts were made to mine the channel (and that some of the booty could be long gone!).

**QCM.** Keewatin Consultants have reportedly optioned this bulk tonnage gold prospect near Germansen Landing to a Vancouver-based junior exploration company. A \$50,000 exploration program is about to begin.

**Lustdust.** Alpha Gold continues to drill, but has moved north along trend to further evaluate the high grade gold potential of the Canyon Creek skarn. Late season work will include the establishment of grids further north along strike from the Canyon Creek skarn zone as well as over the Takla-Bralorne crown grants purchased by the company this summer. Additional drilling is not out of the question.

**Mount Polley.** Imperial Metals has reported additional encouraging trench assays on the newly discovered Northeast zone including 54 m averaging 1.03% Cu and 0.42 gpt Au in Trench 6. The zone has minimum surface dimensions of approx. 170m by 100m. Diamond drilling of the zone is well underway with six holes

that is partially exposed/mined), and the Midwest zone underground rehabilitation. The three zones together would provide an estimated 30 months of mill feed and would generate cash flow for exploration and potential development of the underground North zone.

**Lustdust.** Alpha Gold Corp. has released partial assay results from its drill program on the #1 zone, a north-trending sub vertical structure with a strike length of 700m and down dip extension of 200m. The polymetallic massive sulphide vein ranges from 1.5 to 4 metres in thickness. Realgar and orpiment noted in magnesium and ferroan dolomite-altered limestone wallrock. Pale green porphyritic dyke cuts vein nearby. Assays from this phase of drilling on the #1 zone include: 5.0 metres averaging 13.1 gpt Au, 899 gpt Ag, 1.1% Pb and 5.7% Zn.

Evaluation of #3 zone, a NNW-trending zone of mantos, encountered sub vertical structure ranges from 1-3m wide of intensely oxidized mineralization; remnant sulphides (pyrite-sphalerite) increase with depth, but core recovery is poor. Near surface expression of manto zone includes decalcification and corrosion of limestone host rock and presence magnesium and ferroan dolomite alteration. Current drilling is targeting the down-dip extension of the Canyon Creek Au-Cu skarn zone where last years drilling intersected high-grade gold mineralization.

Alpha is also proceeding with a grid-based soil geochemical sampling program over the Bralorne-Takla Hg property and is reviewing historic data in order to determine drill targets.

**Manson Cr. Area**  
**Slate Creek.** Slate Creek Placer is progressing with a major stream diversion program that will allow the company to mine the streambed of Slate Creek west of the village of Manson Creek. An estimated 60,000 to 100,000 m<sup>3</sup> of pay-dirt will be processed over the 3-year life of the project. Impressive wash plant operates at 120 m<sup>3</sup>/hr.

**Pine.** Stealth Minerals is conducting a multifaceted exploration program that includes: use of 5 prospectors to cover the large tenure package that straddles the Finlay River in the Toadoggone area; focus has been on identifying epithermal gold showings (of which there appear to be many including new BG and 10K zones); trenching and drilling of several priority areas including the VIP skarn zone (12 holes) and Wrich Hill epithermal zone (7 holes). Assays have not been reported. PIMA has been used extensively to determine clay mineralogy of low and high sulphidation epithermal systems. The program is expected to continue well into the fall.

**Shasta.** Sable Resources has recovered an estimated 1,500 short tons from the JM zone at Shasta with an average head grade of approx. 0.32 opt Au and 6.5 gpt Ag. Mill was processing ore at the time of visit and a 200 ton block of multi-ounce Au-Ag ore was about to be drilled and blasted from the upper bench.

**Pil.** Finlay Minerals has drilled four holes on its Pil South property located north of the Kemess mine. The drilling tested a prospective alkalic porphyry copper-gold deposit that was outlined by a coincident Au-Cu geochemical anomaly and IP chargeability anomaly. Drilling was hampered by broken ground and only one of the four holes reached its intended depth. Line cutting, soil geochemical sampling and an IP survey are underway.

**Kemess.** Northgate Exploration has completed approx. 12,000 metres of exploration drilling to date focusing mainly on the area immediately west of the Kemess North deposit. Several holes were also drilled to evaluate skarn showings on Duncan Ridge and on porphyry gold-copper targets at Kemess Centre and 'Valley of the Dolls' (between Duncan and Kemess lakes). A program of condemnation drilling along the proposed road route to Kemess North from the mill is well underway and a 6-7 hole oriented core drilling program in the proposed Kemess North pit has also begun. Northgate has also conducted a brief field program on the Croy property, but a proposed drilling program may not proceed. Northgate has extended its option arrangement with Canasil

BL - Aug. 29/03<sup>2</sup>

Schroeter, Tom EM:EX

TGS → RG  
- Pr. Gen

**From:** Lane, Bob EM:EX  
**Sent:** Friday, December 19, 2003 4:15 PM  
**To:** Cathro, Mike EM:EX; Terry, David EM:EX; Wojdak, Paul EM:EX; MacDonald, Ken EM:EX; Pittman, Ed EM:EX; Hermann, Fred EM:EX; Lefebure, Dave EM:EX; Errington, John EM:EX; Anderson, Duane EM:EX; Grant, Brian EM:EX; Lewis, Jim E EM:EX; Marshall, James EM:EX; Conte, Rick EM:EX; Schroeter, Tom EM:EX; Wuschke, Steven EM:EX; Ryan, Barry EM:EX  
**Subject:** Northeast-Central BC Exploration 'Weekly' to December 19, 2003

METALS

**Mount Polley.** Imperial Metals has suspended exploration at Mount Polley until the new year. The company completed 4 deep holes on the Springer zone and an additional 5 holes, plus trenching, on the Wishbone zone. Assay results from holes 2 and 3 on Springer will be released later today or on Monday. Exploration is scheduled to resume on January 12 with two drills testing Wishbone and 1 testing Springer. *Northwest zone*

**QR.** Cross Lake Minerals has completed a 2<sup>nd</sup> phase of diamond drilling at the QR mine property focusing. Both the near surface potential & deeper projections of the Midwest zone were targeted with the intent of identifying additional reserves. In addition, the company completed 6 holes on the adjacent Cariboo (Most Likely) epithermal gold prospect and 2 holes on the Cantin Creek epithermal gold prospect. No results have been released to date.

**3Ts.** Southern Rio Resources has completed an 8-hole infill drilling program on the Ted vein at its 3Ts epithermal gold prospect south of Vanderhoof. Drilling is expected to resume early in the new year. All new data will contribute to the calculation of a resource estimate for the Ted vein.

**Bonanza Ledge.** The 150-metre decline being developed to access a high-grade portion of the Bonanza Ledge zone has reached a highly deformed & sheared argillite that locally forms the structural footwall of the zone. The zone requires heavy use of timbering. Mining of the bulk sample is expected to begin after Christmas or early in the new year.

**Lustdust.** Alpha Gold's attempt to drill a series of targets near the former Bralorne-Takla mercury mine was terminated after encountering technical difficulties.

**Sustut Copper.** Doublestar is reassessing its feasibility study completed earlier this year which included the development of two tunnels and a long ore pass to access the flat-lying copper ore body. Use of an aerial tramway is being evaluated.

COAL PATCH

*Wolverine*

**Perry Creek.** Western Canadian Coal drilled 3 RC holes at Perry Creek metallurgical coal property between Bullmoose and Quintette. The company will initiate a 6-10 hole coal seam coring program asap on seams E through J (Gates Fm). Core will be submitted to a facility in Calgary for a coke test. An expanded coring program is anticipated for early in the new year. Company representatives and consultants met earlier this week in PG with provincial and federal agencies to review the status of the project, the revised mine plan and to discuss water management strategy, issues and information requirements. Company is undertaking a \$6 million program of extensive environmental and baseline studies. Estimated capital cost of the 1.6 Mtonne per year mining project is \$115 million.

Of note is that Koch Energy is presently developing a CBM drill site smack in the middle of the proposed Perry Creek open pit development in order to test the potential of deeper Gething Fm coal seams (well beneath floor of the proposed pit).

**Trend.** NEMI Northern Energy and Mining Inc. completed a 37-hole, 3500-metre RC and coring program on its Trend metallurgical coal property southeast of Quintette. Coal quality testing is proceeding and pre-feasibility studies are moving forward.

**Lustdust** Alpha Gold has returned to its Lustdust property to conduct a 10-hole drill program, 8 holes of which are on/near the former Bralorne-Takla mercury mine (on Crown-granted claims that Alpha purchased in auction this past summer).

**Trend.** Northern Energy and Mining is presently mobbing to the Trend property to begin large diameter coring of coal seams.

**Burnt River and Perry Creek.** Wolverine Western Canadian Coal will also begin a coal seam coring program on its two active coal projects following on the heels of the Trend work.

Bob

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Prince George, BC V2N 2X4  
tel: 250-561-5606  
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BL - Nov. 7