



Energy, Mines and
Resources Canada

Énergie, Mines et
Ressources Canada

Earth Sciences

Sciences de la Terre

Geological Survey of Canada
601 Booth Street
Ottawa, Ontario
K1A 0E8

Commission géologique du Canada
601, rue Booth
Ottawa (Ontario)
K1A 0E8

675986
114P/7
Tsirku

Your file Votre référence

Our file Notre référence

March 11, 1985

Tom Schroeter
District Geologist
B.C. Ministry of Energy, Mines
and Petroleum Resources
Bag 5000
Smithers, B.C.
V0J 2N0

Dear Tom:

Sorry to take so long to reply to your query about Pb isotope results. I checked my files and found that we have results on specimens from you for Tulsequah Chief but the samples that we analyzed from Anyox were from Bob Sharp. Nevertheless, results for both areas are as follows:

Tulsequah – (samples from T. Schroeter)

	<u>208/204</u>	<u>207/204</u>	<u>206/204</u>
KQ-82-147	38.325	15.628	18.641
KQ-82-147A	38.251	15.608	18.621
(repeat)	38.270	15.612	18.624
KQ-82-147B	38.302	15.623	18.634
(py-rich)			

Anyox – (samples from R. Sharp)

KQ-82-149	38.267	15.562	18.691
(#6 Zone - gn)			
KQ-82-149	38.064	15.521	18.570
(#6 Zone - sp)			
KQ-82-150	38.389	15.592	18.795
(Bonanza - py)			

...2

As far as more samples for analyses are concerned we could probably run some over a period of time. Massive sulphides would have the highest priority but scattered new properties that no GSC mineral deposits geologists have visited would also be worth considering. Broad coverage of the Cordillera is one of our aims and occurrences outside of established districts have probably not been sampled by us.

Dave Sinclair and I have current interests in Glacier Gulch, Alice Arm Mo deposits and Quartz Hill. Unfortunately all these properties are inactive so it might be difficult to arrange visits. However, we might see you some time this summer. We will let you know our travel plans if we can arrange any visits.

Best regards,



cc. R.I. Thorpe

R.V. Kirkham

Your file Votre référence

Our file Notre référence

Dr. R.I. Thorpe
Geological Survey of Canada
601 Booth Street
Ottawa, Ontario K1A 0E8

Dear Ralph:

Enclosed are specimens for Pb and S isotope analyses from the Mt. Henry Clay-Tsirku Glacier discovery area of Stryker Resources, located on the Tatshenshini Map Sheet (114P/8) about 40 miles SE of WINDY CRAGGY. The objective is to compare Pb isotopic abundances with WINDY CRAGGY specimens analyzed earlier to establish correspondence, and to compare with published Pb isotopes from the Glacier Creek stratiform barite-Pb-Zn-Ag deposit adjacent to this locality in Alaska. Field studies are planned for this area in 1985. Specimen descriptions follow, along with location map.

- DY 3040: No. 2 ('Low Jarvis') on location map. 10 km N of Mt. Henry Clay on BC-Alaska border. Float on talus. Crudely laminated barite-pyrite-sphalerite-galena. Analyze galena for Pb isotopes, make barite separate, forward to Gwendy Hall for S isotopes.
- DY 3040A: barite separate from DY 3040 for S isotopes.
- DY 3041: No. 1 ('Low Jarvis') on location map. Outcrop W of Herbert Glacier. Gossan 100 m thick. Interbedded MS and green pillow basalt. Trenches trace mineralization 500 m in NS trend. DISS. chalcopryrite-calcite-galena-pyrite in lensoid mineralization in 'talc-sericite schist'. Trench assays 0.34 oz/t Ag, 0.01 oz/t Au over 17 m; Zn up to 2%, Co erratic. No visible galena, trace sphalerite in specimen. Make ZnS concentrate, run Pb isotopes on galena if present.
- DY 3042: No. 7 ('Grizzly Heights') on location map. 2 km NW of jct. Tsirku and Herbert glaciers. Float on talus. Vertical gossan may extend 6 km to W. 1 1/2" wide barite vein or bed in quartz-biotite schist, diss. pyrite, sphalerite and galena on vein margins. 20 cm wide vein assays 0.344 oz/t Au, 0.42 oz/t Ag plus Cu ~ 1% Co .016% in boulders. Run PbS for Pb isotopes.
- DY 3042A: Coarse crystalline barite from locality of DY 3042, with minor sulphides. Run barite for S isotopes.

....2/

14 December, 1984

DY 3043: Float, US side of border, E of Mt. Henry Clay, issues from under ice cap on border. Laminated pyrite-pyrrhotite-chalcopyrite-minor sphalerite-barite-silica. Run sphalerite concentrate for Pb isotopes.

DY 3043A: Barite concentrate from DY 3043, to be run for S isotopes.

Yours sincerely,

K.M. Dawson

KMD/bv

Encl.

Geo Cummy contacted May 15/85, will call back

	206/204	207/204	208/204
DY 3040	18.784	15.581	38.267
DY 3042	18.660	15.576	38.160
DY 3043	18.822	15.590	38.300

The analyses supplied to you by telephone and verified by the final report of Geospec Consultants Ltd. dated May 31 (received June 7) are, for confirmation purposes, as follows:

		<u>206/204</u>	<u>207/204</u>	<u>208/204</u>
DY 3040	Low Jarvis, B.C.	18.784	15.581	38.267
DY 3042	Grizzly Heights, B.C.	18.660	15.576	38.160
DY 3043	E. of Mt. Henry Clay, Alaska	18.822	15.590	38.300

I have not yet written to Stan Church, U.S.G.S. in Denver, but I'll send you a copy of the letter when I do.

Sincerely,



Ralph Thorpe

Dr. R.V. Kirkham

Dr. K.M. Dawson

15 December, 1982

Two specimens for Pb-isotope analysis from Windy-Craggy Cu deposit, B.C.

Please submit the two following specimens for Pb-isotope analysis. Both are from 1982 drilling on the Windy-Craggy prospect, B.C.: 114P/13, 59°44'20"N, 137°45'W.

DY 2541 (Falconbridge No. 3421): DDH-11: 1669'-1670'

Rounded clasts of chalcopyrite and pyrite in matrix of pyrrhotite, sphalerite and ferrodolomite. From central part of massive sulphide body.

DY 2542 (Falconbridge No. 3422): DDH-11: 1691'-1691.3'

Large angular clasts of pyrite with interstitial and vein chalcopyrite, and sphalerite-ferrodolomite-pyrrhotite matrix. From central part of massive sulphide body.

Additional information pertaining to the specimens will be obtained after examining drill core and reports at the Falconbridge office in Delta, B.C. in the near future.

K.M. Dawson

KMD/bv

cc: Dr. John B. Gammon

	<i>Analyses rec'd Mar 28, 1983</i>		
	<i>206/204</i>	<i>207/204</i>	<i>208/204</i>
<i>DY 2541</i>	<i>18.703</i>	<i>15.573</i>	<i>38.285</i>
<i>DY 2542</i>	<i>18.703</i>	<i>15.579</i>	<i>38.306</i>

TSirku P6 isobutene from C1 Gaden

	206/204	207/204	208/204	206/207	
30808-001 7: GRIZ HTS	18.651	15.571	38.114	1.19782	
30808-001 "	<u>18.646</u> 18.648	<u>15.569</u> 15.570	38.101	1.19768	
30808-002 7: GRIZ HTS	18.661	15.591	38.173	1.19692	
" "	<u>18.676</u> 18.668	<u>15.599</u> 15.595	38.203	1.19731	
30 30309-001 2: Low Jarvis	18.788	15.580	38.234	1.20591	
<u>30809-002</u> 2: Low Jarvis	<u>18.777</u> 18.773	15.581	38.215	1.20520	repeat?
50204-001 4: Boulderade	18.809	15.582	38.235	1.20716	

ANYOX
TULSEQUAH
GRANDUC

Tulsequah
?

15.600

207 / Pb 204

15.550

15.500

18.500

18.600

18.700

18.800

Anyox #6 zone
Sphal

Granduc

DY 3042
Grizzly
rights.
galena
+ barite

Anyox #6 zone
Galena

DY 2542
WINDY CREEK
Sphalinite

DY 2541
WINDY CREEK
Sphalinite

Anyox
Bonanza
Pyrite

DY 3040
Low Jarvis
galena
+ barite

DY 3043
Mt Henry Clay
Sphalinite
+ barite

Pb 206 / Pb 204

Handwritten signature
27/05/85

TABLE 1. Lead Isotope Data for Mineral Deposits in the Canadian Cordillera.

SAMPLE NO	DEPOSIT/SAMPLE NAME	NTS & GOVT NOS	LAT N	LONG W	HST	DT	TEC	ANL	MT	PB6/4	PB7/4	PB8/4	PB6/7	PB5/8
28 30872-001	NEEDLEPOINT SILVER D4 3089A	104/P/04/W:SW-	59.14	129.78	MAA	V	DCP	JG	GL	19.348	15.595	39.530	1.23271	0.489442
30 30873-001	BILL-CARLICK (TRENCH 1) D4 3086	104/P/03/E:SW-	59.22	129.22	C	B	DCP	JG	GL	18.257	15.620	38.276	1.16884	0.476997
30 30873-002	BILL-CARLICK (TRENCH 2) D4 3087	104/P/03/E:SW-	59.22	129.22	C	B	DCP	JG	GL	18.153	15.607	38.200	1.16314	0.475220
30873-AVG	BILL-CARLICK (N=2)	104/P/03/E:SW-	59.22	129.22	C	B	DCP	JG	GL	18.205	15.614	38.238	1.16554	0.476109
* 30874-001!	GRANITE CK (MARBLE BASIN)	104/P/05/W:SW-	59.26	129.86	C	B	DCP	JG	PY	19.218	15.786	39.288	1.21742	0.489162
31 30875-001	UPPER D (MARBLE BASIN) D4 3078	104/P/05/W:SW-	59.26	129.87	C	B	DCP	JG	GL	19.198	15.687	39.320	1.22379	0.488235
30875-001D	UPPER D (MARBLE BASIN)	104/P/05/W:SW-	59.26	129.87	C	B	DCP	JG	GL	19.196	15.683	39.306	1.22400	0.488376
30875-AVG	UPPER D (MARBLE BASIN) (N=2)	104/P/05/W:SW-	59.26	129.87	C	B	DCP	JG	GL	19.197	15.685	39.313	1.22390	0.488306
32 30876-001	SILVER KNIFE D4 3092	104/D/16/W:NE-	59.93	130.36	D	B	DCP	JG	GL	19.462	15.716	39.744	1.23832	0.489671
33 30884-001	GLACIER CREEK D4 3174	114/P/08/W:SE-	59.40	136.39	TL	=	IAX	JG	GL	18.839	15.580	38.240	1.20918	0.492658
34 30884-002	GLACIER CREEK (MAIN) D4 3179	114/P/08/W:SE-	59.40	136.39	TL	=	IAX	JG	GL	18.816	15.584	38.243	1.20739	0.492001
30884-AVG	GLACIER CREEK (N=2)	114/P/08/W:SE-	59.40	136.39	TL	=	IAX	JG	GL	18.827	15.582	38.242	1.20879	0.492330
35 30885-001	CAP D4 3184	114/P/08/W:SE-	59.38	136.39	TL	=	IAX	JG	GL	18.761	15.542	38.101	1.20711	0.492389
36 30885-001	LOW HERBERT D4 3144	114/P/07/E:SE-	59.36	136.50	TL	=	IAX	JG	GL	18.796	15.583	38.248	1.20619	0.491431
37 30887-001	FRASERGOLD D4 3185	093/A/07/S:SE-	52.18	120.57	TL	V	NON	JG	GL	18.758	15.644	36.611	1.19905	0.485811
* 30888-002!	TOOTSIE RIVER (MIDWAY AREA)	104/D/16/E:NE-	59.22	130.33		B	OFF	JG	PY	19.323	15.822	39.637	1.22127	0.487495

30875-001	✓ UPPER D ZONE, NARELE BASIN	104/F/03/W:SW-	07.20	137.07	C	V	OCF	JG	GL	19.462	15.716	39.744	1.23832	0.489671		
30876-001	✓ SILVER KNIFE	104/D/16/W:NE-	59.93	130.36	D	B	OCF	JG	GL	19.462	15.716	39.744	1.23832	0.489671		
30877-001	✓ TINTINA-CONTACT	105/B/03/E:SW-	61.16	131.16	C	V	OCF	JG	SP	18.292	15.736	38.285	1.16247	0.477788		
30877-002	✓ TINTINA-CONTACT	105/B/03/E:SW-	61.16	131.16	C	V	OCF	JG	GL	19.436	15.750	39.744	1.23408	0.489029		
30878-001	✓ MEL-MAIN ZONE	095/D/06/W:SW-	60.35	127.40	C-D	B	S	JG	GL	18.700	15.693	38.714	1.19155	0.482017		
30878-001	✓ MEL-MAIN ZONE	095/D/06/W:SW	60.35	127.40	C-D	B	S	JG	GL	18.687	15.677	38.663	1.19197	0.483321		
30879-001	✓ MEL-JERI ZONE	095/D/06/W:SW-	60.37	127.32	C-D	B	S	JG	GL	22.355	16.039	42.821	1.39379	0.522060		
30879-001	✓ MEL-JERI ZONE	095/D/06/W:SW-	60.37	127.32	C-D	B	S	JG	GL	22.370	16.051	42.881	1.39368	0.521670		
30880-001	✓ IONA F2 EAST	105/F/09/E	61.53	132.20	C	V	OCF	JG	GL	19.467	15.718	39.618	1.23854	0.491373		
30880-002	✓ IONA F2 WEST	105/F/09/E:NE-	61.53	132.20	C	V	OCF	JG	GL	19.484	15.734	39.674	1.23834	0.491094		
30881-001	✓ IONA F18B	105/F/09/E:NE-	61.55	132.14	C	V	OCF	JG	GL	19.474	15.728	39.648	1.23823	0.491177		
30882-001	✓ IONA A-1	105/F/09/E:NE-	61.53	132.15	C	V	OCF	JG	GL	19.449	15.709	39.598	1.23810	0.491151		
30882-002	✓ IONA A-1	105/F/09/E:NE-	61.53	132.15	C	V	OCF	JG	GL	19.478 ^{.463}	15.735 ^{.722}	39.673	1.23781	0.490947		
30883-001	✓ OXO EAST	105/F/09/E:NE-	61.51	132.22	C	B	OCF	JG	GL	19.514	15.733	39.701	1.24030	0.491518		
30883-001	✓ OXO EAST	105/F/09/E:NE-	61.51	132.22	C	B	OCF	JG	GL	19.510 ^{(19.510}	15.722 ^{.127)}	39.663	1.24080	0.491826		
30883-003	✓ OXO VEIN	Old Drill core 9/2-py-silicite solun	61.51	132.22	C	V	OCF	JG	GL	19.426	15.660	39.468	1.24042	0.492182		
30884-001	✓ GLACIER CREEK	3174 gal-qtz-cal vein in 1st bed in pillow bs 6cm above barite	114/P/08/W:SE-	59.40	136.39	TL	=	IAX	JG	GL	18 ¹⁸	19.839	15.580	38.240	1.20918	0.492658
30884-002	✓ GLACIER CREEK-MAIN	3179 W (upper) end main lamin barite - sp-py-gal.	114/P/08/W:SE-	59.40	136.39	TL	=	IAX	JG	GL	18 ¹⁸	19.816	15.584	38.243	1.20739	0.492001
30885-001	✓ CAP	diss ga-sp-tet in barite bed in pyritized tuffite	114/P/08/W:SE-	59.38	136.39	TL	=	IAX	JG	GL	18 ¹⁸	19.761	15.542	38.101	1.20711	0.492389
30886-001	✓ LOW HERBERT		114/P/07/E:SE-	59.36	136.50	TL	=	IAX	JG	GL	18 ¹⁸	19.796	15.583	38.248	1.20619	0.491431
30887-001	✓ FRASERGOLD	Plot with Athinolite	093/A/07S:SE-	52.18	120.57	TL	V	NQN	JG	GL	18.758	15.644	38.611	1.19905	0.485811	
30888-002	✓ TOOTSIE RIVER, MIDWAY		104/D/16/E:NE-	59.22	130.33			O	JG	PY	19.323	15.822	39.637	1.22127	0.487495	

19.462 15.716 39.744

2-