Energy, Mines and Resources Canada
Geological Survey of Canada
100 West Pender, Vancouver
V6B 1R8

Énergie, Mines et Ressources Canada
Commission géologique du Canada
100, ouest, rue Pender, Vancouver
V6B 1R8

675985
114P/7
Tsirku Gp.

Your file Votre référence

Our file Notre référence

May 31/85

Mr. W.G. Clark
Freeport Resources Inc.
3578 West 47th Ave.
Vancouver BC V6N 3P1

Dear Mr Clark:

I have recently received Pb isotope data from massive sulphide specimens from your Law Jarvis, Grizzly Heights and Mt Henry Clay showings. The analyses are written on an enclosed copy of the covering letter for the specimens submission.

An enclosed $Pb^{207}/_{204}$ vs $Pb^{206}/_{204}$ plot includes, for comparison, data from Windy Craggy, Duncan, Tulsequah and Granduc. The flat, linear trend of your data combined with Windy Craggy data indicates that the deposits may be similar in age and origin. More Pb analyses and comparable dating (ie fossils, K-Ar, etc), however, is needed before we can be sure.

Canada

Anyox appears to be quite similar to the Stryker-Windy Craggy groups, but possibly slightly older.

Tulsequah appears to have a more upper crustal signature and older age, in accord with its late Paleozoic volcanic-sedimentary host rocks.

Granitic data points are too widely separated to establish a trend.

On the enclosed Windy Craggy 207 vs 206 and 208 vs 206 plots, Stryker data, although not plotted, would be close to Windy Craggy. These plots show the apparent Windy Craggy lead had much lead from oceanic tholeiitic basalt and deep-sea sediments. Obviously, your deposits also reflect that trend.

Recent communication with Stan Church of the USGS indicates that his Pb isotopic data on SE Alaskan massive sulphides shows a pronounced signature of primitive oceanic crust. Our data support that trend. Ralph Thorpe and I plan to exchange data with Church and Tom Skell.

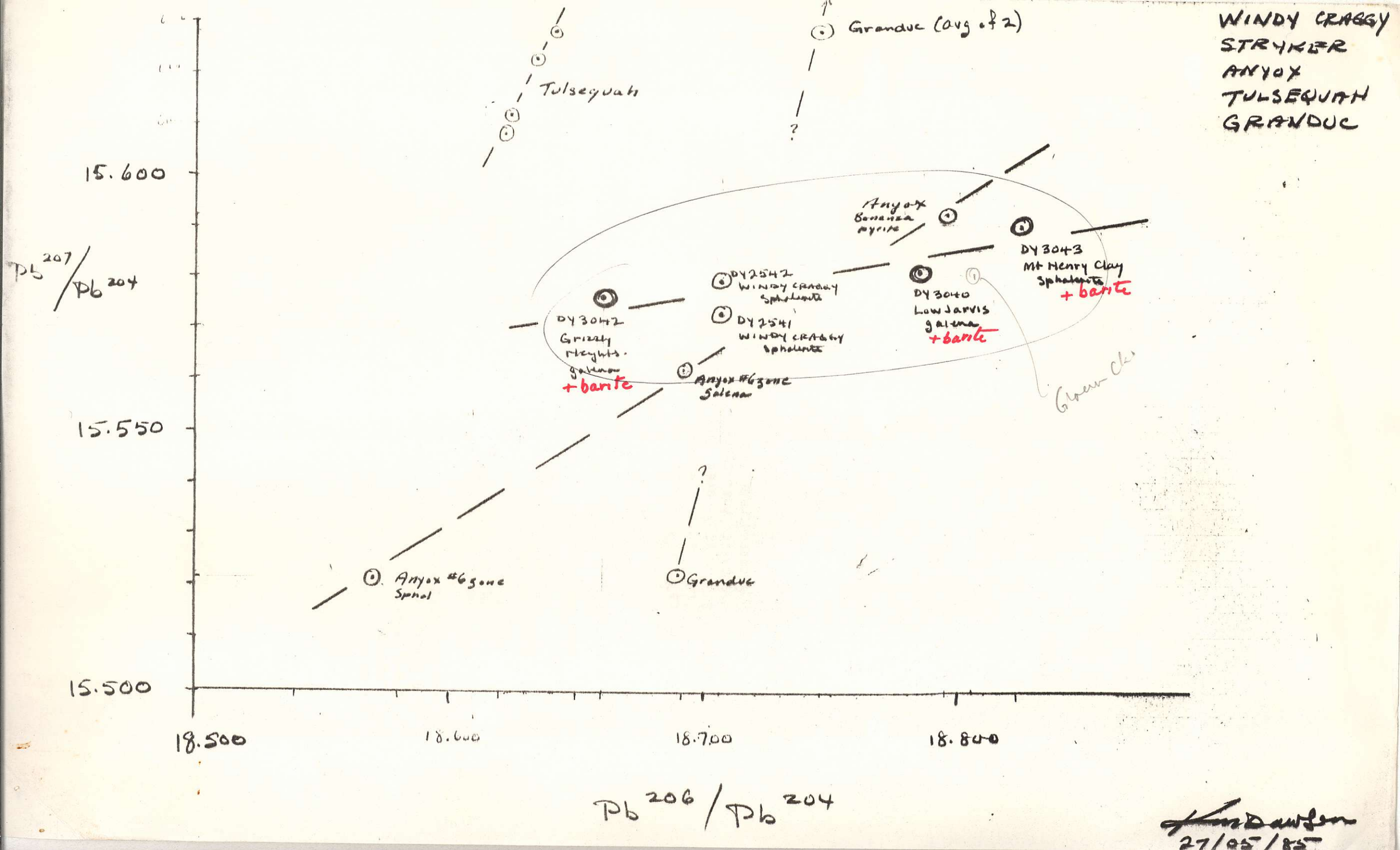
I am looking forward to visiting your properties on July 21 with Dr. Richard B. Campbell, and spending several days doing recce geology in the area. If convenient to you, we would like to obtain accomodation in your camp on a room and board basis for which we would reimburse your company.

My field address, after June 5, will be Geological Survey of Canada, General Delivery, Watson Lake YT Y0A 1C0. Phone messages can be left at the Message Point, Mile 717 Alaska Hwy (403) 851 6451

Best regards

Ken Dawson

Kenneth M. Dawson


WINDY CRAGGY
STRYKER
ANYOX
TULSEQUAH
GRANDUC
Grandue (avg of 2)
Tulsequah
15.600
15.550
15.500
Pb207/Pb204
Anyox Bonanza myrite
DY 3043
Mt Henry Clay
Sphalerite
+barite
DY 2542
WINDY CRAGGY
Sphalerite
DY 3040
Low Jarvis
galena
+barite
DY 3042
Grizzly
Heights.
galena
+barite
DY 2541
WINDY CRAGGY
Sphalerite
Anyox #6 zone
Galena
Anyox #6 zone
Spnal
Grandue
18.500
18.600
18.700
18.800
Pb206/Pb204
27/05/85

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14 December, 1984

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~~ Herbert') 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. chalcopyrite-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.

No Pb reported.

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/

Canada

Dr. R.I. Thorpe
Geological Survey of Canada

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,

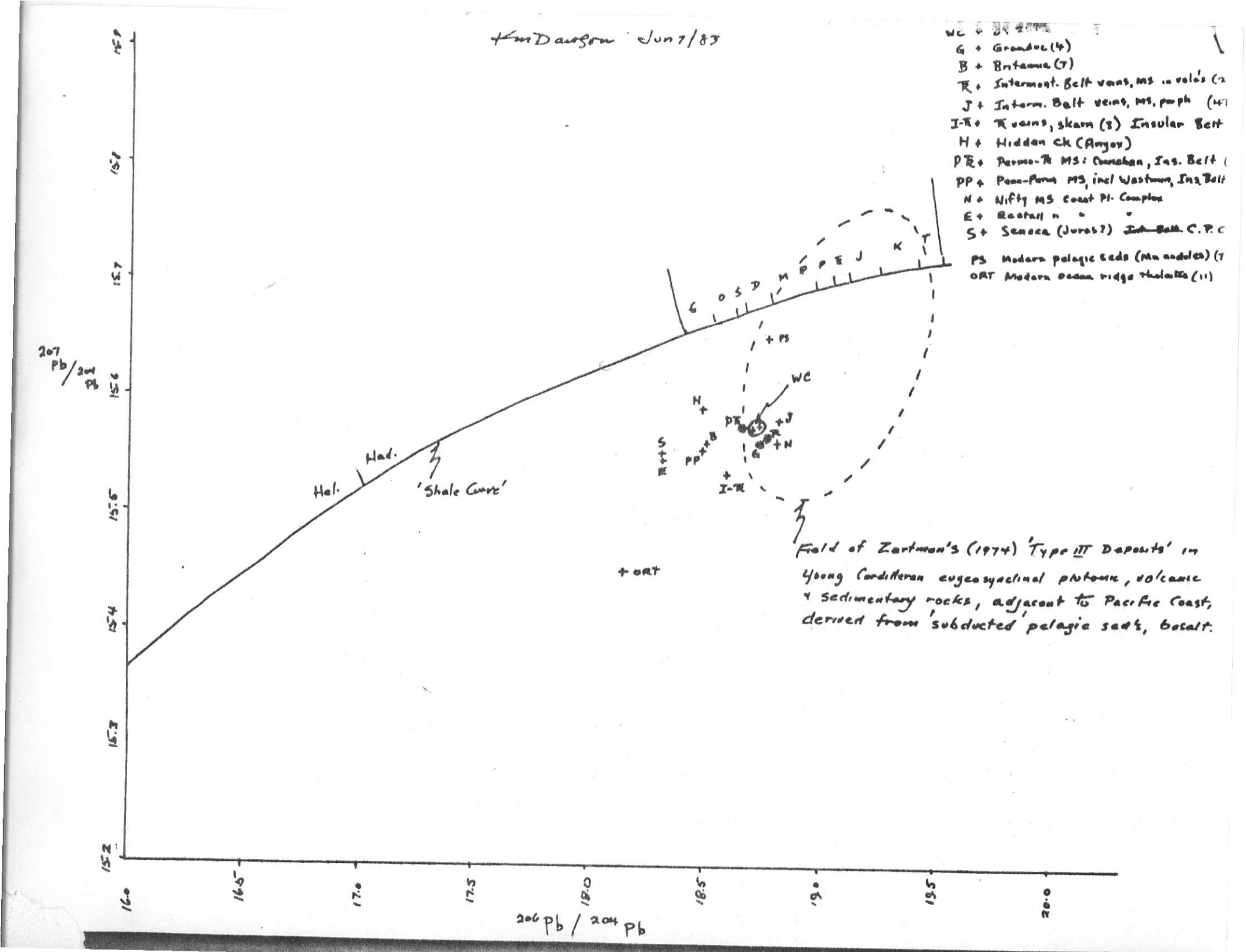
K.M. Dawson

KMD/bv

Encl.

Data Room George Cumming May 27/85

	Pb 206/204	Pb 207/204	Pb 208/204
DY 3040 Low Jarvis, No 2. Barite-pyrite sphal-galena	18.784	15.581	38.267
DY 3042 Grizzly Heights, No.7 barite vein with PbS, ZnS, FeS_2	18.660	15.576	38.160
DY 3043 Mt Henry Clay lamin. py-po-cpy-sp-ba-qtz	18.822	15.590	38.300


Ken Dawson Jun 7/83
WC + [illegible]
G + Granduc (4)
B + Britannia (7)
T + Intermont. Belt veins, MS in vole's (2
J + Intern. Belt veins, MS, porph (47
I-T + T veins, skarn (3) Insular Belt
H + Hidden Ck (Anyox)
PT + Permo-T MS: Cowichan, Ins. Belt (
PP + Penn-Perm MS, incl Westmin, Ins Belt
N + Nifty MS Coast Pl. Complex
E + Bastall n " "
S + Seneca (Jura?) Ins Belt C.P.C
PS Modern pelagic seds (Mn nodules) (7
ORT Modern ocean ridge thalattic (11)
207 Pb / 204 Pb
206 Pb / 204 Pb
15.9
15.8
15.7
15.6
15.5
15.4
15.3
15.2
16.0
16.5
17.0
17.5
18.0
18.5
19.0
19.5
20.0
G O S D M P E J K T
+ PS
WC
H +
PT
+J
+N
S
T
PP
B
I-T
Hal.
Had.
'Shale Curve'
+ ORT
Field of Zartman's (1974) 'Type III Deposits' in Young Cordilleran eugeosynclinal plutonic, volcanic & sedimentary rocks, adjacent to Pacific Coast, derived from 'subducted' pelagic seds, basalt.