1979 GEOLOGICAL, GEOCHEMICAL

and GEOPHYSICAL REPORT on the

M.U.T. (1-6) Group of Mineral Claims

situated in the NELSON MINING DIVISION

N.T.S. 82F/3

49° 05' North Latitude; 117° 13' West Longitude

March 31, 1980

by

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1. SUMMARY AND CONCLUSIONS

During the period from May 8 to July 19, 1979, 4 men conducted geological mapping, soil sampling, radiometric, ground magnetometer and E.M.-16 surveys, on 54 km of established grid, over M.U.T. claims 1 to 6.

Analysis of geological, geochemical and geophysical data included in this report, has led to the following conclusions:-

1. The presence of an intrusion at depth beneath M.U.T. Hill, in the area north and west of the 1978 drill camp, is evidenced by: a large, annular geochemical zonation pattern, by a coincident magnetic-radiometric high and by a central zone of erratic and variable hydrothermal alteration, polymetallic vein mineralization, tungsten skarns and iron enrichment.

2. Secondary structures in the argillites, which strike north-easterly and dip southeastward at angles greater than 55^{o}, provided conduits for ascending hydrothermal solutions and may ultimately have controlled emplacement of the buried intrusion.

3. Evidence is not conclusive as to the type of intrusion present; whether or not, for example; it is a porphyry molybdenum system separate to the Lost Creek stock, or an extension of the stock south and west beneath M.U.T. Hill. The character of intrusion and mineralization (if any) beneath aplite drilled in holes 78-2 and 77-1, is of interest in this regard and a drill hole is recommended to redrill the aplite to a maximum depth of 250m.

4. The remarkably high values in zinc-silver and displaced lead-fluorine geochemical anomalies on M.U.T. claims 5 and 6, suggest the possibility of stratabound, replacement lead-zinc-silver deposits. The linear nature of the anomalies suggests structural rather than strictly lithological control. In this regard, commonly recessive, massive sphalerite veins are found well above the anomalous areas. Such veins were not noticed during mapping of the anomaly zones. Intensive prospecting, trenching, continuous chip sampling of bed-rock and a drill hole near 491E, 500.5N, are recommended to locate a local source for the various geochemical anomalies.

5. The study has downgraded the prospect of economic skarn tungsten deposits in the bulk of the non calcareous argillites. The skarn tungsten target may exist in structural traps within the lower calcareous units, contacting an intrusion beneath M.U.T. Hill. The abundance of carbon and sand in the calcareous rocks is thought to hamper formation of economic scheelite deposits.

2. INTRODUCTION

i) ECONOMIC INTEREST, OBJECTIVE AND APPROACH

The BP work program in 1979 was designed to establish surface evidence of a buried "porphyry" molybdenum system, which was suspected to underly the M.U.T. 5 and 6 claims. The presence of such a system was suggested by:

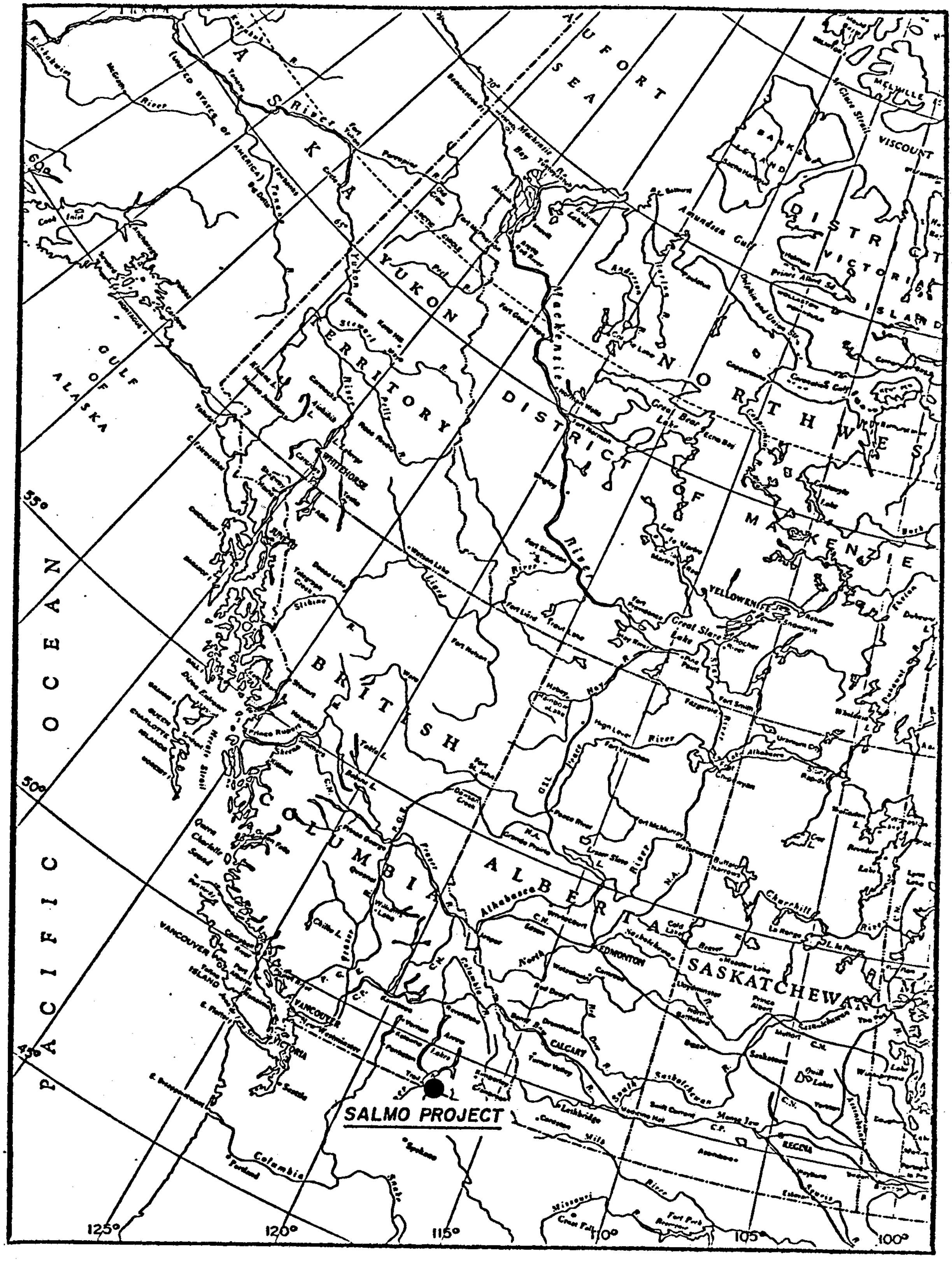
1. The discovery of an aplitic intrusion, intersected in diamond drill holes 77-1 and 78-2, which carries fine grained molybdenite mineralization and crosscutting quartz stringers with secondary biotite and sericite alteration.

2. Crosscutting quartz veins in drill core selected from argillite and limestone units above the intrusion which contain anomalous trace element values of 300 ppm Mo, 500 ppm Cu, 2.65% Zn, 4.1 ppm Ag, 3,250 ppm Mn, 2,280 ppm Bi, 5,880 ppm F, 80 ppm Sn and 500 ppm W.

3. The presence of nearby lead-zinc-silver and molybdenum-tungsten producers and prospects.

4. The local presence of biotite hornfels, wollastonite quartz-actinolite and garnet-pyroxene skarn zones, indicating, hydrothermal alteration, as mapped by Poloni and Ramalingaswamy.

The exploration approach on the M.U.T. claims was to geologically map and geochemically sample the claims area. Intrusive features such as dykes, veins and hornfelsing, together with porphyry pathfinders elements would be used to define a central mineralized zone for drill testing.



SCALE 1:15,840,000 OR ONE INCH TO 250 MILES

MILES 100 50 0 100 200 300 400 500 MILES

KILOMETRES 100 0 100 200 300 400 500 600 700 800 KILOMETRES

Federal Capital ....● Provincial Capital ....●
Railways ....

BP Minerals Limited

LOCATION MAP SALMO PROJECT MUT CLAIMS, B.C.

SCALE		NTS 82 F3	FIG. 1
DWG. No. 80-39	DATE FEB. 1980	PROJ. 517	
To accompany report: BPVR 79-34			

A target size for the mineralizer stock, using the Trout Lake example, was thought to be on the order of 125 m x 300 m, grading 0.3% to 0.5% molybdenum. A grid with line spacing of 150 m and a sample spacing of 50 m was deemed adequate to delineate such a "porphyry" centre, if present, on the M.U.T. claims.

ii) LOCATION AND ACCESS (See Figure 1 and 2)

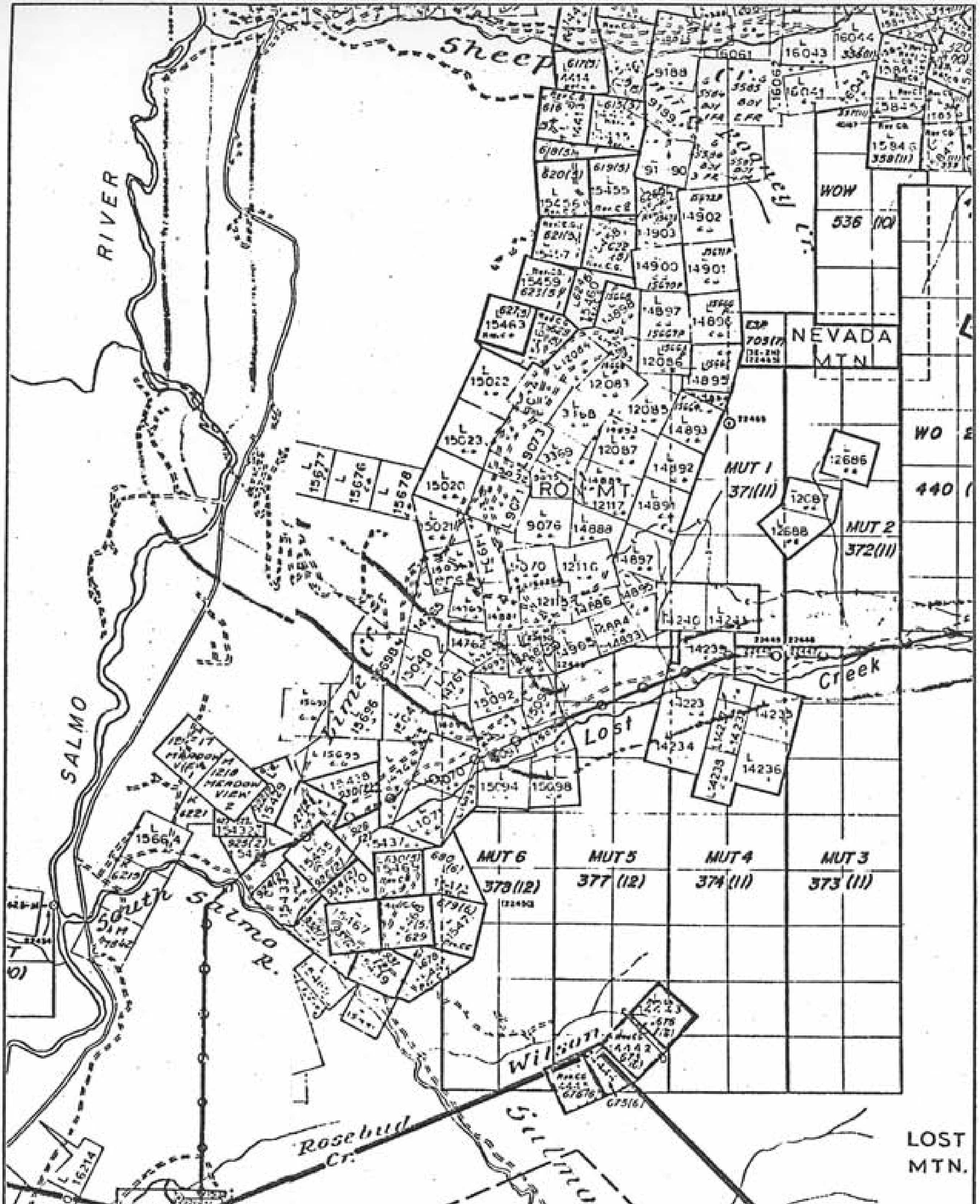
The M.U.T. claims are located in southeastern B.C. in the Nelson Mining Division (N.T.S. 82F/3 at 49° 05' North Latitude and 117° 12' West Longitude). The claims lie north and south of the Lost Creek Valley road, approximately 38.4 air kilometres east of Trail and 14 air kilometres east-southeast of Salmo, B.C.

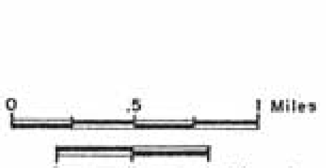
The drill camp on "M.U.T. Hill", between Wilson Creek and Lost Creek, and much of M.U.T. claims 5 and 6 are accessible by a good 4 wheel drive road, which runs 6.5 kilometres north from Highway 3, at a point 2.2 kilmetres east of Highway 6 (Salmo Nelway).

M.U.T. claims 1 and 2 are accessible by a poor quality 4 wheel drive road, which follows the 1,250 metre elevation contour, on the northside of Lost Creek eastward from the Jersey Mine. Access to Nevada Mountain is by helicopter from Trail; 40 air kilometres to the west, or Castlegar; 42 kilometres to the northwest.

iii) CLAIMS OWNERSHIP, STATUS AND APPLICATION OF ASSESSMENT WORK (See Figure 2)

The M.U.T. claims are owned by Mr. John M. Mirko and Mr. Ian G Sutherland and held by Benson Mines Ltd., under an option





BP Minerals Limited

M.U.T. CLAIMS LOCATION MAP

SCALE 1:50000		NTS 82 F/3	FIG. 2
DWG No. 80-40	DATE FEB. 1980	PROJ. 517	
To accompany report: BPVR 79-34			

agreement. An option agreement for further exploration between Benson Mines Ltd. and BP Minerals Limited was finalized on June 5, 1979.

The M.U.T. mineral claims comprise 3 groups as follows:-

Group	Claims	Units	Record No.	Anniversary
M.U.T. Group A	M.U.T. 1	10	371 (11)	Nov. 30/80
	M.U.T. 4	16	374 (11)	Nov. 30/80
M.U.T. Group B	M.U.T. 2	10	372 (11)	Nov. 30/79
	M.U.T. 3	16	373 (11)	Nov. 30/79
M.U.T. Group C	M.U.T. 5	16	377 (12)	Dec. 7/80
	M.U.T. 6	16	378 (12)	Dec. 7/80

1979 assessment work credits are applied as follows:-

Group	Claims	Units	Credits Applied	New Expiry Date
M.U.T. A	M.U.T. 1	10	4 years	Nov. 30/84
	M.U.T. 4	16	4 "	Nov. 30/84
M.U.T. B	M.U.T. 2	10	3 years	Nov. 30/82
	M.U.T. 3	16	3 "	Nov. 30/82
M.U.T. C	M.U.T. 5	16	5 years	Dec. 7/85
	M.U.T. 6	16	5 "	Dec. 7/85

iv) HISTORY (See Figure 14 A).

The M.U.T. claims were staked in November and December of 1976 by J. Mirko and I. Sutherland to secure ground adjacent to the Molly and Jumbo claims, suspected to contain economic concentrations of molybdenum and tungsten.

The general area has been extensively prospected since 1895, when the Southern Belle group (including the United Verde claims) were staked over silver-lead-zinc-gold mineralized quartz veins, south of Wilson Creek. Replacement lead-zinc-pyrite deposits in carbonate rocks were mined at the H.B., Jersey, Reeves-McDonald, and Hunter V properties from 1902 until 1957. Skarn tungsten deposits were mined at the Emerald, Feeney and Dodger properties during the 1950's. The Molly Mine, owned by Cominco, was operated from 1914-1917 and produced 25,000 pounds of molybdenite concentrate. Tungsten as scheelite, in association with molybdenite, was discovered in 1952 by J. Gallo. Trenching was initiated over a wide area of the Molly claims and on what is now the M.U.T. claims.

In 1977, Westwind Mines; under option agreement with Mirko and Sutherland, conducted geological mapping, selective sampling of showings, grid establishment, road repair and 156.5 metres of AQ diameter diamond drilling in hole 77-1. Supervision and reporting on the 1977 project was by J. Montgomery, P.Eng., and G. Von Rosen, P.Eng. An Assessment Report (#6667) by V.M. Ramalingaswamy indicates an aplitic intrusion was intersected in hole 77-1 from 149.5m - 156.5 m. The target for the drilling was skarn tungsten- molybdenite mineralization at an hypothesized granite-limestone band contact.

In 1978, Benson Mines Ltd., drilled 454 metres of AQ core in diamond drill holes 78-1, 78-2, 78-3. Hole 78-1 penetrated 116.7m of argillite and minor limy argillite before termination in broken ground. Hole 78-2, inclined 70^{o} bearing northwest, cored 226.52 m of argillite to intersect aplite and terminated at 236.28 m in siliceous aplite. Hole 78-3 was collared 5 m south of the M.U.T. Adit on Lost Creek, and drilled at 90^0 for a total of 101.8 metres. The hole intersected granite and interbedded argillite, siliceous sediments, skarn and argillite. Narrow intersections of skarn assayed from .18% to 1.6% Wo_3 with accessory Mo S_2 from 0.02% to 0.30%. Additional mapping, road and drill site construction and sampling of the M.U.T. Adit, United Verde and 1% showing were also completed in this summer.

In 1978 Cominco completed a substantial diamond drilling program in the limestone - Lost Creek granite contact area of the Molly claims. The extent and results of this program are not known to the author.

This report covers the 1979 exploration program on the M.U.T. claims, conducted by BP Minerals Limited.

v) TOPOGRAPHY, CLIMATE AND VEGETATION

The M.U.T. claims lie within the Cassiar-Columbia Physiographic Region; in the Selkirk Mountain system, at the southern end of the Nelson (Quartzite) Range.

Local elevations range from 762 m in Lost Creek to 1,884 m on Nevada Mountain. The claims lie between two heights of land; M.U.T. 1 and 2 are on the southern slope of Nevada Mountain and M.U.T. 3-6 are on the northwestern slopes of Lost Mountain. The northwestern slopes of "M.U.T. Hill" and the valley of Wilson Creek are rugged and steep. The area of M.U.T. 3 and 4 has generally recessive topography rising moderately southeastward to Lost Mountain.

The local climate is cool temperate with a mean annual precipation of from 100-125 cm. The period of greatest precipation is during midwinter with very minor precipation during midsummer. The mean annual snowfall on "M.U.T. Hill" (elevation 1,521 metres a.s.l.) would be approximately 1.8 metres. At the end of spring run off in late April to mid May, the only assured water supply on the M.U.T. claims is Lost Creek and North and South Tributary of Wilson Creek. A small creek at 490^E, on the main access road to "M.U.T. Hill", provided a low volume water source until mid July.

Vegetation cover includes subalpine Engelman Spruce, subalpine Fir and some Interior Western Hemlock. Forest fires have destroyed much of the timber, particularly in Wilson Creek Valley, where a succession forest of perennials and tamarack now grows. The entire area from line 512^E to 518^E is choked with a dense growth of alder and scrub spruce. M.U.T. Hill from line 498.5^E to 494^E supports little tree growth and is carpeted by coarse grasses.

3. SUMMARY OF WORK - 1979

During the period of May 8 to July 19, 1979, 4 men - 2 geologists and 2 assistants, conducted geological mapping, geochemical sampling, geophysical surveys, camp construction, grid preparation and rock chip sampling on the M.U.T. claims 3-6. An additional two days of helicopter assisted mapping and sampling was completed on M.U.T. 1 and 2. This report summarizes the extent, scope and results of the summer's field work.

i) PHYSICAL WORK

a) Bulldozer: A Komatzue bulldozer was contracted from Pinetree Logging

Co. Ltd., of Salmo, B.C., in early May to clear snow from the "M.U.T. Hill" access road and drill camp. The snow averaged 0.6 metres on the road along line 492.5^{E} and approximately 1.2 metres deep at camp.

b) Grid Preparation: (See Figure 3)

Amex Exploration Services of Kamloops, B.C., was contracted to provide 43.4 line km of compass, slope-chained grid, on M.U.T. claims 3-6. The contract rate for this work was $313.66/line km. Transit survey of east-west oriented, 3.3 km long baseline (line 500^{N}), was subcontracted by R. Strothers and Associates (B.C. L.S.) of Kamloops, B.C. The survey was initiated at ON OE on the Benson Grid and tied into elevation point 4,989' (1,521 m), on M.U.T. Hill. Elevations were carried for all hubs on the baseline. The survey required 2 surveyors, working 5 days, to complete.

The BP grid was designed to run true north-south with an east-west trending cut tie line, at 480^{N} in the south of the claims area. Tie-in of the northern lines was by compass topofil lines running east-west. Most cut lines and topo-fil extensions to the tie line 480^{N} suffered deviations due to dense bush and steep topograph. The lines were compassed off the baseline at intervals of 150 m except from 503^{E} to 518^{E} where line spacing is 300 m and 600 m due to cost considerations in cutting very dense bush. The station interval on all lines is 50 m, marked by flourescent flagging and black felt pen on plastic tie-vac tags, tied to tree branches.

ii) GEOLOGICAL MAPPING

Two geologists (Mike Bradley and Bill Clark) spent approximately 6 weeks mapping the M.U.T. claims. Outcrop mapping was conducted on the BP control grid, the Benson Mines northeast-southwest trending baseline and along the M.U.T. - Molly Claims access road. An examination of the Jumbo, United Verde and M.U.T. Adit spoil heaps and of the M.U.T. trenches was completed in the course of routine mapping.

Field information was transferred to the slope corrected grid, superimposed on a topographic base map, at a scale of 1:5,000. The topographic base was reconstructed from a controlled contour map; "Salmo - Sheep Creek" Sheet 82F/3b S1/2, Special Project number E.P.9 (at an original scale of (1:12,000) contour interval of 50 feet (15.24 m)) available from the Surveys and Mapping Branch in Victoria.

A preliminary examination and "grab" sampling of crosscutting vein material from diamond drill holes 77-1, 78-1 and 78-2 was made to check for anomalous concentrations of elements known to be pathfinders in molybdenum porphyry systems. The results are summarized in Table 1 and 2, and indicate the presence of highly anomalous concentrations of Mo, Zn, Ag, Bi, F and W. Silicified and hornfelsed argillite and skarned limestone-limy argillite bands occur throughout hole 77-1. Pyrrhotite, pyrite, sphalerite, molybdenite and scheelite are noted in quartz (± calcite) veins and fractures, in the lower 60 metres of hole 77-1. Crosscutting quartz veinlets with narrow sericite selvedges containing minor disseminated fine-grained molybdenite, were noted in fine-grained granite and aplite in holes 77-1 and 78-2.

During a one day cursory examination of the property by the author and J. Mirko, several rock types were collected for thin

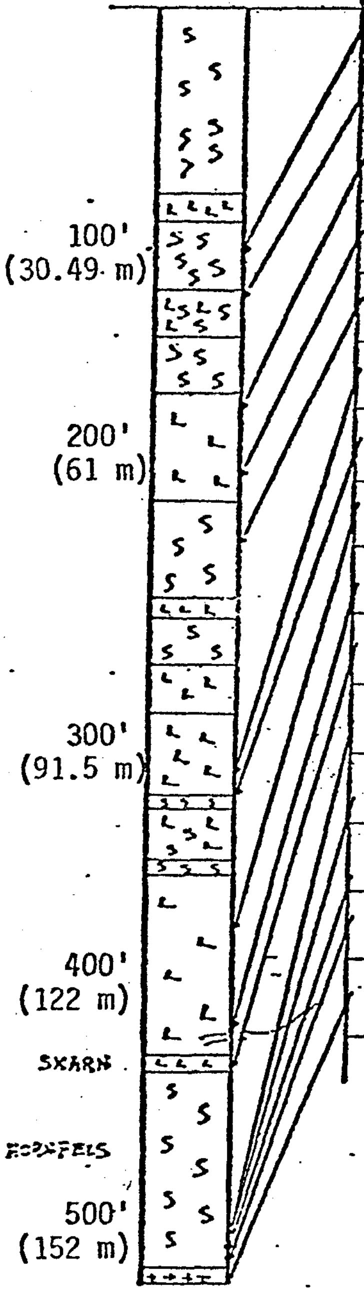
TABLE 1 ORIENTATION GEOCHEMISTRY ON THE MUT CLAIMS - PROJECT 517

SAMPLE #	HOLE #	FOOTAGE	MO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	AU PPB	W PPM	SN PPM	F PPM	ROCK TYPE
120006	78-2	753'	19	5	8	226	1.4	20	10		1230	Ser. contact gr. & arg.; mo + py
07	78-2	761'	75	2	10	6	0.5	30	40		270	Mo on Fr. in granite
08	78-2	763.5'	24	33	8	205	0.5	20	80		1520	Sericitized granite To., Mo, Py
09	78-2	744'	125	2	10	12	0.4	10	40		220	Mo in veins in Sil. arg. or granite
10	78-2	779'	60	2	15	11	0.2	20	80		335	Granite
11	78-2	751'	55	11	67	33	0.7	10	10		700	Altered granite with MoS_2
12	78-1	297'	7	2	40	36	1.3	nd	nd		330	Dead arg.
13	78-1	298-298.4'	6	51	8	24	0.8	nd	nd		105	Arg. cut by quartz vein
14	78-1	363'	55	16	8	2350	1.1	10	20		560	In Arg. fault zone; vein sulphide
15	78-1	374'	120	57	53	65	2.2	40	5		630	Arg. with diss. py & small qtz veins (shear zone?)
16	78-1	375'	100	8	5	810	1.9	10	30		770	HornFelsed Arg. cut by qtz. calcite vei carrying sulphide
17	77-1	194'	20	80	65	1120	0.8	nd	80		270	Arg. with small qtz. veins (with minor po & sp
18	77-1	2945'	29	57	15	356	1.0	nd	40		18000	Hornfels and skarn with minor diss po
19	77-1	175'	20	388	20	1800	1.2	nd	30		1200	Arg. with 2 cm qtz-po+ minor cpy vein
20	77-1	484.5'	45	71	13	126	0.8	nd	30		1150	Hornfels and cherty skarn 1cm qtz. (minor sulphide vein
21	77-1	248'	18	20	20	161	2.5	nd	30		860	bx. Arg. Frag. with py(fault) healed wi qtz. veins
22	77-1	211'	21	106	15	520	1.0	10	100		1150	silicified Arg. with diss po and .3 cm qtz-py(po, cpy?)vein
23	77-1	509	50	6	10	21	0.2	10	30		400	cherty aplite? 1 cm qtz & minor Mo vein with 2 cm sericite env.
24	77-1	508'	600	3	10	6	0.1	nd	30		250	f.g. granite?porph?;.5cmqtz-po-Mo vein
25	77-1	506'	70	6	13	31	0.3	nd	30		570	Fine grained granite? aplite; qtz veins ± Mo & ser. en
26	77-1	323'	28	126	18	670	1.0	nd	40		2000	Arg. with 2cm po rich vein in skarn zon
27	77-1	164'	17	85	5	2450	0.7	20	600		13500	Silicified hornfels-cherty sed. cut by very thin Mo zon
28	UV 78 E. Ext.		2	2	30	210	0.8	nd	nd		600	Qtz. vein in skarn, feld, py, biot, dar gray reaction zone around feldspar
29	77-1	Open pit	19	87	15	1560	1.2	70	nd		11000	Hornfelsed cherty gray sed with diss py sph vein
30	Felted ser?		13	70	25	156	1.0	10	nd		5900	Talc? material, veins, boxwork
31	Qtz.	4 cm.	10	26	5	62	0.3	120	5		9200	Feld.(ser)vein-vug; limonite, Mo?
32			4	5	8	15	0.2	10	40		380	weathered medium grainte granite~2% Bi
33	qtz. vein 5 cm.		11	100	40	670	1.9	170	500		8500	Kaol, alt. Feld on sides, boxwork, vug. Fer. Molybdenite? Sericite

TABLE 2

Analytical Results -A-77-1 Diamond Drill Hole (PPM) - M.U.T. CLAIMS

77-1



Mo	Cu	Pb	Zn	Ag	Mn	Bi	F	Sn	W
30	14	11	110	1.0	630	16	5880	5	5
15	26	11	1120	1.0	180	ND	920	10	500
14	830	10	5000	2.2	310	112	3440	5	60
38	130	8	4500	1.0	720	116	5200	10	70
42	86	9	162	1.0	420	20	1930	10	50
6	63	12	350	2.0	520	692	4240	10	10
28	42	12	310	1.1	350	16	5000	25	60
5	7	6	163	0.4	100	20	330	10	50
300	500	13	20500	4.1	3250	2280	2400	10	ND
34	33	13	1800	1.4	470	96	1100	5	5
21	60	14	880	1.5	550	44	4640	5	50
3	8	8	105	0.3	200	4	350	5	50
18	126	8	26500	1.0	260	4	1490	70	40
21	54	9	460	0.8	90	ND	1480	5	80
25	4	7	29	0.2	450	ND	100	80	60

SSS Black Argillite
LLL Black Limestone, Limy Argilllite
++ Aplite

sectioning and density determination. The densities were desired to indicate if enough contrast existed between alterd and unaltered sediments and the Lost Creek stock to warrant a gravity survey in search of a gravity low "porphyry" or gravity high ore zones. The denisty results are presented in Table 3. The density contrast between sediments and granite was thought to be too low and the topographic relief too steep, to justify a gravity survey.

Outcrop exposure south of line 500^N would average approximately 5% and southeast of Black Bluff Fault, perhaps 2%. North of line 500^N outcrop exposure would average 20%-30% in rather steep topography. This area has been mapped mainly along lines, as dense bush, steep terrain, friable rock and in some cases wet moss on outcrop hampers progress in an northeast-southwest direction.

The main objective of mapping was to discover surface manifestations of subsurface intrusive activity, which signs, together with geophysical and geochemical input would target a "central" zone for later drilling. Such features as alteration type and intensity, rock type and facies changes, economic minerals and showings, veins, dykes, breccias, lime content and structure were routinely noted. A determined effort <u>was not</u> made in the field, to delineate the inherent structure and stratigraphy of the local sedimentary formations. The local structure is very complex and there are very few continuous and easily recognizable marker horizons exposed in the column. Continuity and section traverses down rdiges and creek cuts were made in the area of line 495.5^E and east of line 500^E 514^N. 180 rock chip samples of background units, vein material and economic mineralization features such as skarns and showings were

TABLE 3

Representative Rock Samples
from the M.U.T. Property
For Density Determinations

Sample #	Bulk Density	Description
2	2.63	Aplite almost aphanitic with 2.5 cm qtz veins 509' 77-1
3	2.60	fine grained granite less than 1% mafics 455' 77-1
14	2.60	fine grained granite with strange thin large oriented biotite crystals 763.5' 78-2
10	2.58	medium to coarse grained granite ~10% biotite weathered
8	2.60	medium to coarse grained granite alt. plag → ser. + qtz. + kaol? 761' 78-2
7	2.58	medium grained granite weathered
1	2.74	argillite with minor po and qtz veins 195' 77-1
4	2.73	hornfels & cherty skarn 450' 77-1
9	2.59	hornfels weathered (limonite)
5	2.60	cherty silicified hornfels? with minor qtz veins 490.3' 77-1
11	2.88	silicified limestone 2/3 of surface weathered
12	2.55	siliceous limestone weathered carbonate leached out
13	2.80	bedded siliceous limey skarn
15	2.79	silicified limestone
6	3.26	garnet - px - qtz skarn + po?

made to complement the geochemical survey.

A report on the geology of the M.U.T. claims follows in Section 4.

iii) GEOCHEMICAL SURVEYS:

Two men collected approximately 1,175 soil/talus samples and 36 stream sediments during the period May 15 to July 15, 1979. The soil samples were collected every 50 m on 51.4 km of cut and topofil grid lines spaced 150-600 m apart and oriented north-south. Most samples were collected from the BF horizon at a depth of 6-12 cm.

The samples were analyzed by Rossbacher Laboratory Ltd., of 2225 S. Springer Avenue, Burnaby, B.C., by geochemical analysis, using a total (perchloric acid) extraction. The following detection limits apply to the elements analysed:

Copper	1 ppm	*Silver	0.2 ppm
Molybdenum	1 "	Tungsten	2 "
Zinc	1 "	Fluorine	10 "
*Lead	2 "		

*Background correction applied.

Soils were routinely analyzed for pH to determine areas of excessive acidity or alkalinity which would affect the relative mobility of pathfinder elements. The field and analytical data were keypunched, then arithmetic and logarithmic histograms plotted to determine normal or lognormal-like distributions. The data listings for M.U.T. claims 1-6 are presented in Appendices 4 and 5. Logarithmic histograms (giving lognormal-like distributions), for data on M.U.T.

claims 3-6, are presented, by element, in Appendices 6 and 7. Symbol plots were prepared for 1,230 samples (being all the soil/talus fines data from M.U.T. claims 1-6) for each element, using a statistical approach. These computer-generated plots were printed on a geology-topography base and are presented in Appendix 8, Figures 10 to 10H. Each symbol corresponds to a concentration interval in ppm, arbitrarily chosen about intervals generated using; the lognormal mean, mean $\pm$ 1 standard deviation, mean $\pm$ 2 standard deviations, twice the mean plus 2 standard deviations (2 (M+2STD)). Values in ppm are indicated beside highly anomalous samples.

Isoanomaly interpretation maps, indicating moderately and highly anomalous zones for each element, were prepared by the geochemist from the raw symbol plots, before printing with the geology. The interpretation maps with geological input are presented in Figures 12 and 13.

Geological cross section E-E'(line 495.5^E) includes concentration graphs for all soil and rock chip samples on the section line. The graph was prepared to emphasize the apparent lithological control of certain geochemical anomalies.

A geochemical report is presented in Section 5.

iv) GEOPHYSICAL SURVEYS:

Two men conducted ground magnetometer and E.M.-16 surveys on 53 km of cut and topofil grid, on M.U.T. claims 3-6, during June and July, 1979. A routine ground radiometric survey was completed during geochemical sampling of the grid. The survey was designed to detect radiometric contrast reflecting changes in unit, facies or alteration (e.g., potassium) type. The instrument used was a Rand type 1597A Gamma Scintillometer, giving total count readout. This unit is unable to distinguish between potassium, uranium or thorium sources.

The V.L.F. E.M.-16 unit was rented from Geonics Limited of Mississauga, Ontario. The purpose of the survey was to detect structure, relatively shallow conductors - due to graphite or metallic ore and unit or alteration changes - indicated by areas of contrasting conductivity.

The ground magnetic survey employed a McPhar Flux-gate Magnetometer - Model M700, (rented from Phoenix Geophysics of Vancouver) which has a sensitivity of ± 10 gammas. Purpose of the survey was to locate areas of contrasting magnetics, indicating variations of content of primary or secondary magnetic minerals (magnetite, pyrrhotite). Large scale lithological changes, structures and magnetic skarns are detectable with this method.

A geophysical report summarizing instrumentation, theory, methodology and interpretation is found in Section 6.

4. GEOLOGICAL REPORT

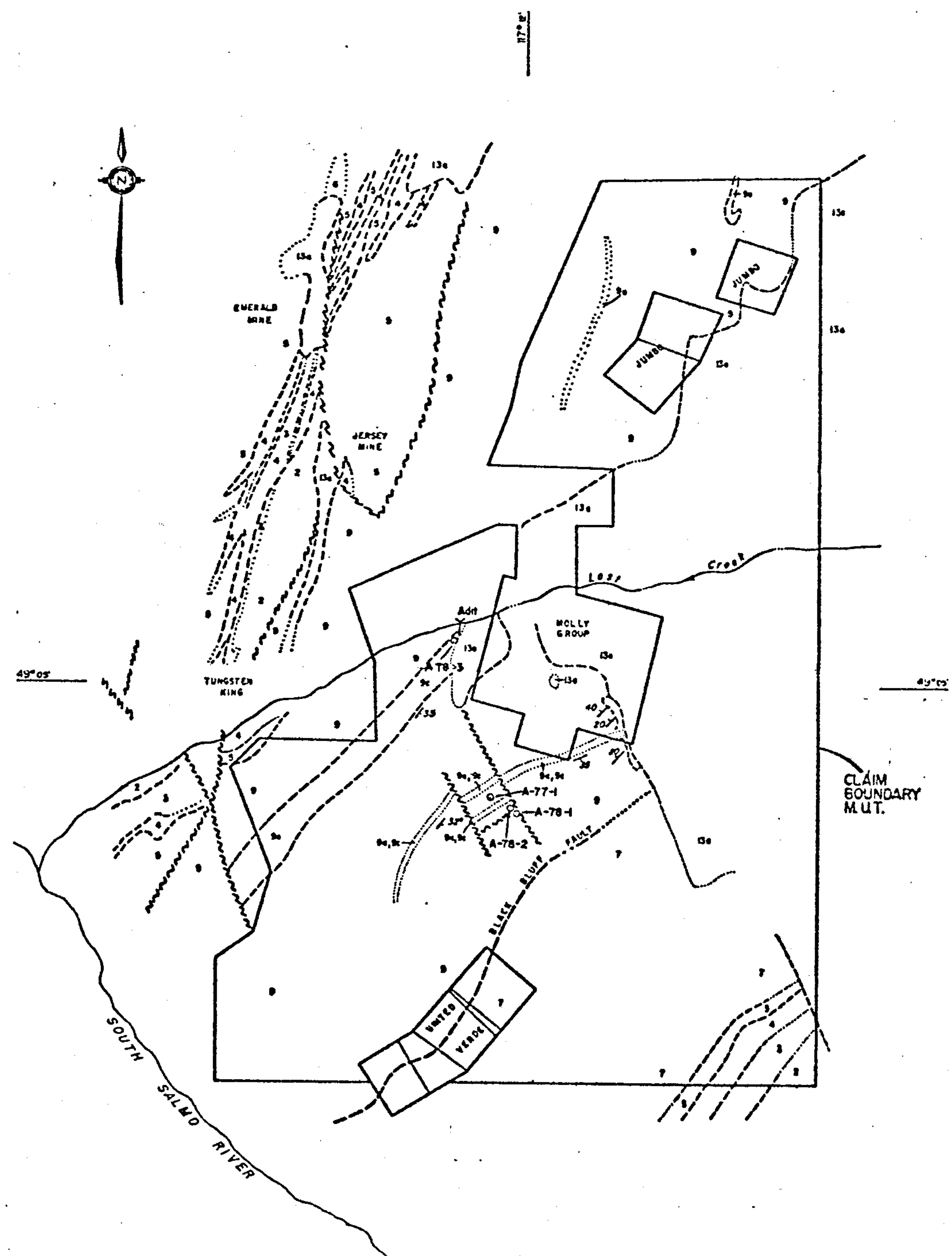
i) REGIONAL GEOLOGY: (See Figures 4, 4A, 14A)

The geology of the Salmo area has been studied by Little, H.W. (1950 and 1960) and Walker, J.F. (1934) of the Geological Survey of Canada and in greater detail by Fyles, J.T. and Hewlett, C.G. (1959) of the British Columbia Department of Mines.

The area lies near the southern end of the Kootenay arc a curvilinear structural belt of upper Proterozoic to lower Palaeozoic,miogeosynclinal metasediments. Regional metamorphic grade in the Salmo area is characterized by chlorite and biotite zone assemblages.

The Palaeozoic formations are separated by 2 south and eastward dipping regional thrust faults, into 3 northeast and north trending belts:

1) The westernmost Mine Belt is mainly comprised of rocks of the early Cambrian Laib Formation, including a 30 metre thick limestone bed - the Reeves Member (Badshot Formation), which hosts the major lead-zinc deposits of the belt.
2) The central Black Argillite Belt is separated from the Mine Belt by the Argillite (thrust) fault. The Argillite Belt contains black argillite, limy and arenaceous black argillite, minor quartzite and black limestone beds of the Ordovician Active Formation.



LEGEND

13e	GRANITE
9	ACTIVE FORMATION – BLACK ARGILLITE
9a	GREY LIMESTONE & ARGILLACEOUS LIMESTONE
9c	SILICIFIED ARGILLITE & LIMESTONE
7	PHYLLITE, SCHIST, MICACEOUS QUARTZITE, LIMESTONE
6	BLACK PHYLLITE & ARGILLITE
5	REEVES – LIMESTONE, MINOR DOLOMITE
4	TRUMAN – PHYLLITE, ARGILLITE, LIMESTONE LENSES
3	RENO – GREY, BLOCKY MICACEOUS QUARTZITE
2	NEVADA – WHITE QUARTZITE, BROWN MICACEOUS QUARTZITE

— — — — MAJOR TRUST FAULT

~~~~ FAULT

— — ······ CONTACT, DEFINITE – ASSUMED

BP Minerals Limited

REGIONAL GEOLOGY
M.U.T. CLAIMS, B.C.
(after Poloni, 1978)

SCALE 1" ≈ 1220m (4000')		NTS 82 F 3	FIG. 4
DWG No. 80-38	DATE FEB. 1980	PROJ. 517	
To accompany report: BPVR 79-34			
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3) The Eastern Belt is separated from the Argillite Belt by the Black Bluff Thrust Fault. Phyllite, carbonate and quartzite members of the Cambrian Laib Formation comprise the Eastern Belt.

The belts are irregularly intruded by north-northeast and east-west trending granitic stocks and plugs,of probable early Cretaceous age and post-contemporaneous aplite and felsite dykes. The intrusions are cut by biotite rich, lamprophyre dykes.

Structure in rocks forming the Kootenay arc is very complex. While little work has been done on the Active Formation, its structural style is thought to be similar to the better known Mine and Eastern Belts.

The oldest structures - called "primary" by Fyles, consist of overturned and isoclinal folds. These were folded into "secondary" structures late in the primary deformation period. Bedding and thrust faults which are common throughout the arc, originated in this period and were active during secondary folding.

Regional thrust faults and primary fold axes follow the regional trend of the Kootenay arc. Primary fold axes plunge at shallow angles to the south and southwest and axial planes dip eastward and southward.

The M.U.T. claims are located just north of a major flexure in the Kootenay arc where the regional trend changes from northerly to northeasterly, then to eastward.

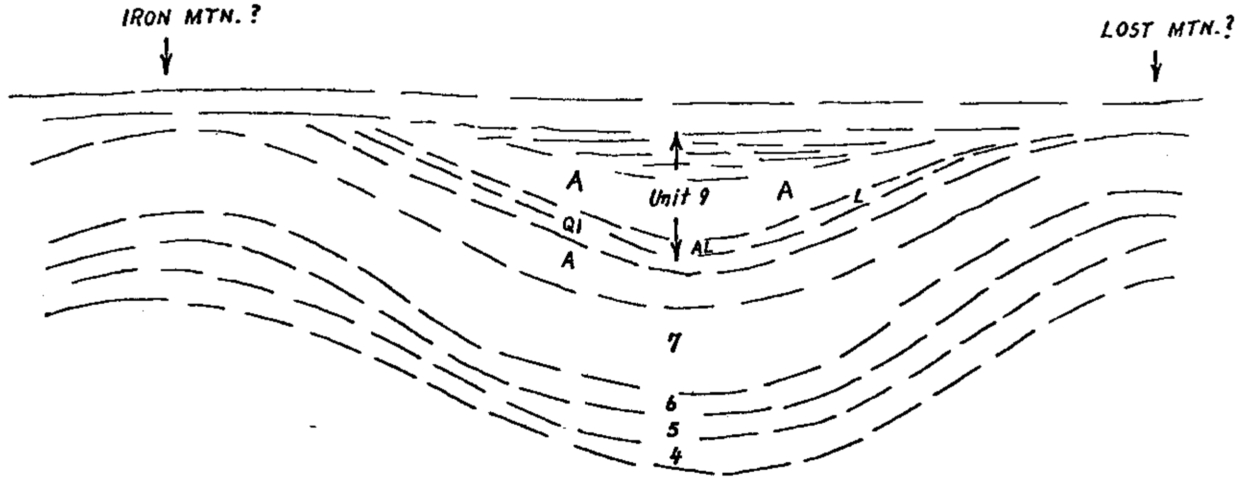
A generalized interpretation of the structural evolution of the Palaeozoic Belts is presented in Figure 4A. This cartoon indicates the mode of formation of the Argillite and Black Bluff thrust faults, as major zones of slippage between formations of contrasting competence and ductility. Dolomitized zones in Unit 5 - Reeves limestone, subadjacent to the Argillite Fault, host replacement lead-zinc mineralization. Dolomitization preceeded emplacement of granite stocks but sulphide ore may well be related to the intrusions.

ii) GENERAL GEOLOGY OF THE M.U.T. CLAIMS:

The M.U.T. claims are underlain by Palaeozoic sedimentary rocks ascribed by Fyles and Hewlett, to the "Black Argillite" and "Eastern" Belts of rocks, in the Salmo area. The Black Argillite Belt is comprised of carbonaceous argillites with relatively thin interbeds of carbonaceous limestone, lime-bearing and arenaceous argillite and quartzite, of the Ordovician Active Formation. The Active Formation underlies much of M.U.T. claims 5 and 6 and the northwestern half of M.U.T. claims 1 to 4.

The Black Bluff Thrust Fault, which trends northeastward across the southern portions of M.U.T. claims 3-6, brings rocks of the Eastern Belt in contact with limy argillite of the Active Formation. The Eastern Belt is comprised of the Laib Formation, including upper Laib phyllite and underlying, Emerald member phyllitic argillite, Reeves limestone, Truman phyllite and Reno quartzite. The Eastern Belt rocks outcrop on M.U.T. claims 3-5, southeast of Black Bluff Fault and do not appear to have economic potential.

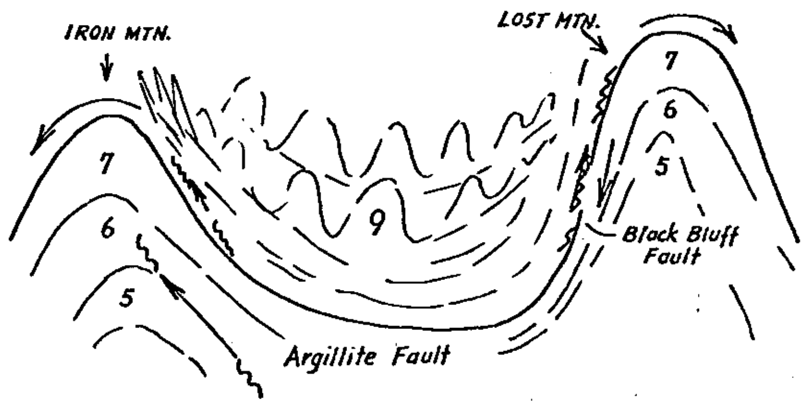
STAGE 1: Deposition of Active Formation (Unit 9 - black clastics) in Cambrian syncline.



Idealized Cross Section looking N.N.E. from the M.U.T. claims.

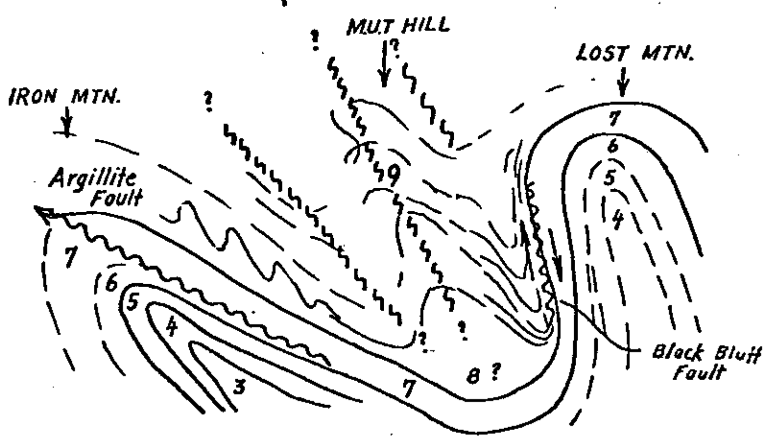
STAGE 2:

Primary Deformation - development of isoclinal and overturned folds, Argillite and Black Bluff thrust faults.



STAGE 3:

Development of Iron Mountain overturned anticline, "secondary" folds, axial plane and transverse faults.



STAGE 4:

Granitization(?) and emplacement of lower Cretaceous plutons in fold structures with fault control then glaciation to present erosion surface.

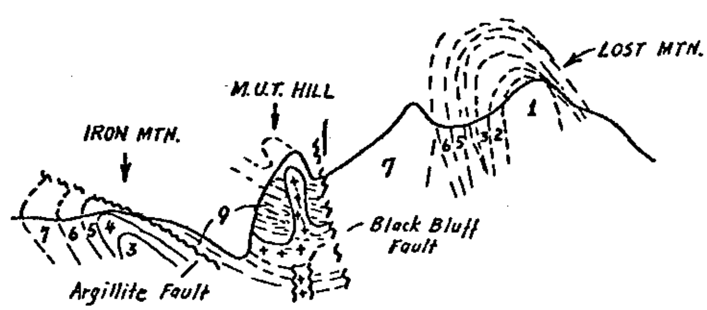
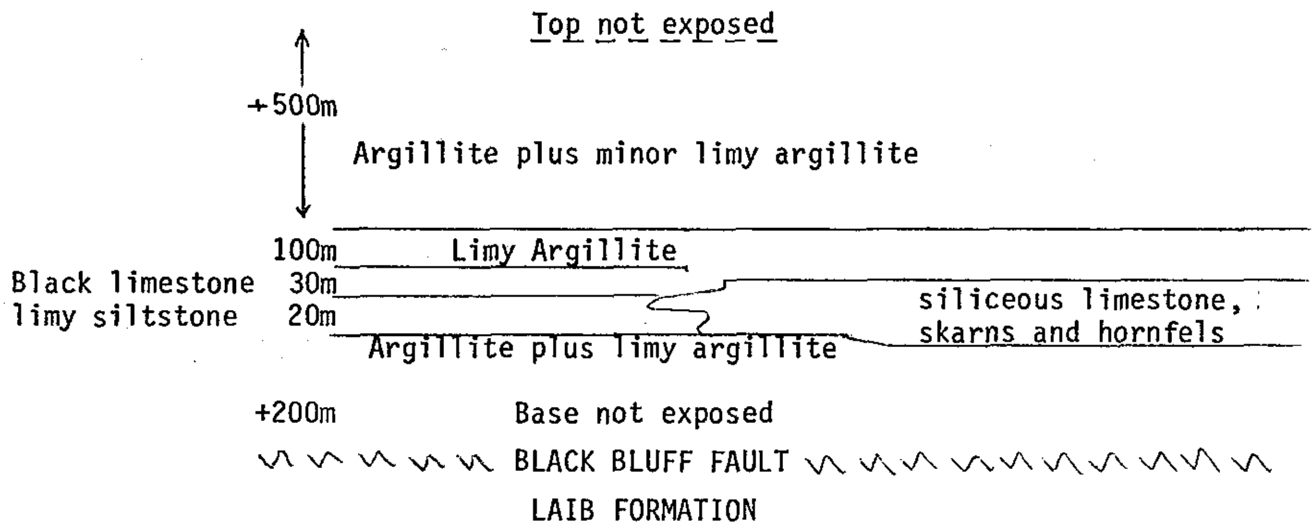


Figure 4A: An interpretation of the structural evolution of the Palaeozoic Belts in the Lost Creek Area.

DWG NO. 80-73

The structure of the Active and upper Laib formations is very complex. In the Active formation, <u>north and west</u> of M.U.T. Hill, "primary" isoclinal and drag folds strike 0^{0} to 20^{0} azimuth and plunge 5^{0} to 15^{0} to the southwest. Bedding generally strikes northeast and dips 40^{0} to 70^{0} to the southeast. Primary folds south of M.U.T. Hill trend northeast and plunge 5^{0} southwest. An interpretation of the structure of the Palaeozoic Belt rocks is indicated in Figure 4A. The stratigraphy of the Active formation is best exposed in the northwest slope of M.U.T. Hill and is thought to comprise:



The Active formation is intruded along a northeasterly zone, which cuts across M.U.T. claims 1 and 2 and terminates along an irregular southeast trending contact zone within the area of the Molly claims. Aplite intersected in diamond drill holes 77-1 and 78-2 indicates that an apophyses or "plug" of this intrusions exists under M.U.T. Hill.

At the Molly Mine (in the northern area of M.U.T. claim 4) and on the Jumbo claims (within M.U.T. 1 and 2) molybdenite mineralization occurs in a sheeted zone of fine-grained granite, beneath a thin contact aureole of aplite and hornfels. Tungsten as scheelite, with lesser amounts of fine-grained molybdenite and powellite occurs in garnet-diopside skarn, within limestone on the Molly claims and in siliceous limy quartzite at the M.U.T. adit. Scheelite is also found in quartz stockwork, in a skarn zone northwest of D.D.H. 77-1 and in small, linear actionlite-wollastonite skarn zones replacing limy argillite, with related biotite hornfels, as at the "1% Wo_3" showing. The skarns range from 1 cm to 1 metre width and generally contain very low grade tungsten. Massive sphalerite in quartz veins ocurrs in trench 3 and 4 and downhole in diamond drill hole 77-1. Massive argentiferous galena with lesser zinc, tungsten and gold values, is found in quartz veins in limy argillite, in the United Verde Adits.

The aplitic intrusion intersected by D.D.H. 77-1 and 78-2 is indicated at surface, in the area north and west of the M.U.T. Hill camp, by: erratic zones of intense biotite hornfels, scheelite bearing skarns and silicification, by a general incrase in iron oxides on fractures and by occassional outcrop containing semi-massive sphalerite and pyrrhotite fracture-fill veinlets, in hornfels.

iii) DESCRIPTION OF UNITS: (See Figures 7,8,9)

A) Palaeozoic Formations:

a) Cambrian Laib Formation: Units comprising the Laib Formation are exposed in sparse outcrop, in an area southeast of the Black Bluff Fault, on M.U.T. claims 3-5. Stratigraphic divisions are those employed by Fyles and Hewlett, 1959 and by Little, 1960.

a.i) Upper Laib Formation: The upper Laib Formation is an as yet undivided mixture of phyllite, muscovite-talc schist, phyllitic argillite, black argillite, limy argillite and grey limestone.

The predominant rock type in the formation is grey-silvery phyllite (Unit Cp), which is found throughout the area between the Black Bluff Fault and the Reeves limestone member. In a 100 metre wide zone at, and adjacent to the Black Bluff Fault, Unit Cp consists of complexly contorted muscovite-talc schist. Foliation orientations in this zone strike north to northeast and dip sub vertically to the west. Elsewhere, the unit is strongly foliated and folded with a common strike to the northeast and dips greater than 70° to the northwest and southeast. The unit is commonly fine-grained, light grey in colour, with muscovite plates on a rather crenulated foliation.

Unit CAp-grey to red phyllitic argillite is recognizably derived from argillite and occassionally preserves a relict bedding cleavage. The unit is commonly fine-grained and weakly to moderately foliated, with muscovite on partings. Red phyllitic argillite is texturally and compositionally similar to grey phyllite, with the exception of a reddish tint due to diffuse and mottling iron oxide staining. Limy argillite - CApl, is very friable, medium grey in colour and has a carbonate content of perhaps 10%. The distribution of this unit is confined to the northeastern half of the upper Laib Formation.

Black argillite - CA and limy black argillite-CAl are found in scattered outcrop on lines 498.5E and 500E at approximately 486N. The units are very friable and highly fractured, with occassional good visible bedding which strikes northeast and dips approximately 80° to the southeast. These units are not disimilar to limy argillite beds in the Active Formation, with the exception of CAl at 486N on line 580E, which contains solution breccia healed with creamycoloured calcite. An outcrop of CA at 485N on line 500E contains approximately 1% banded (bedded?) pyrite. These relatively undeformed units are tentatively assigned to the upper Laib due to their position east of Black Bluff Fault; however, they may represent an erosional remnant of Active Formation lithology.

Unit CL - grey limestone was noted in outcrop on line 518E from 488.5 to 490.5N and on line 506E from 480.8N to 481.7N and is interpreted to form an irregular band, trending northeast between these lines. This interpretation is somewhat supported by areas of limestone subcrop and float located on trend, on lines 509E and 512E. The bed is light to dark grey in colour and well fractured and healed with calcite and quartz. Minor actinolite skarns were noted near contact with subcrop of moderately hornfelsed argillite on line 518E. The beds contain poorly preserved isoclinal folds, have an apparent width of 50m and generally strike northeast, dipping 60-85^{o} southeast.

The general structure of the upper Laib records complex isoclinal folding, with numerous axial plane and bedding thrust faults. Internal structure of the upper Laib is obscured by intense and variable foliation and by poor outcrop exposure.

a.ii) Lower Laib Formation: Rocks of the lower Laib Formation occur in the extreme southeastern portion of M.U.T. claim 3. The lower Laib contains 3 member divisions, of which 2 are exposed in the claims area.

Reeves limestone (Unit RL) is found in a 40 metre wide bed on line 518E at 485N and on tie-line 480N at 513E. The limestone is medium grey in colour, weakly recrystallized, very competent, rounded in outcrop and contains less than 5% detrital quartz. The unit has been folded but these structures are only indicated by fractures healed by quartz and calcite. The bed apparently strikes northeast to north-northeast and dips 45^{o} to 55^{o} to the southeast. A weak foliation is noted, oriented $95^{o}/80^{o}$N. This unit is similar to that exposed at the Jersey Mine but locally lacks the dolomitization, fracturing and close proximity to intrusions of the Mine belt. Contacts of the Reeves member with the upper Laib and underlying Truman member are not exposed but elsewhere in the belt are found to be conformable.

The Truman member, exposed on line 518E at 484N, comprises an 80m thick bed of strongly foliated and banded phyllitic argillite. The argillite cleaves in very thin micaceous plates and varies in colour from light gret to red-brown due to iron oxide content on foliation and fracture planes. Thin bands of very light grey, cryptocrystalline quartzite are evident in the upper 30 metres of this formation. Bedding (?) foliation commonly strikes northeast and dips 80^{o} southeast. The unit is cut by numerous 0.6 to 1 metre wide "bull" - quartz veins containing minor limonite which apparently follow the main foliation. A single 1 metre wide biotite lamprophyre dyke was noted near the base of the unit, oriented on $30^{o}/80^{o}$N.W.

Truman member phyllite conformably overlies Reno Formation quartzite on the brow of Lost Mountain Ridge. The Truman member is taken as the basal unit of the Laib Formation.

The upper 10 metres of the Reno formation locally consists of rather massive to weakly foliated grey quartzite, underlain by light red-brown-grey mottled, micaceous and variably limy quartzite. Foliation in micaceous quartzite strikes 20°-40° and dips 60-80° southeast. Several 0.1-0.6 metre wide bull-quartz veins are noted on orientations of $30^{\circ}/80^{\circ}$ S.E. and $160^{\circ}/45^{\circ}$ N.E.

A bed of black, fine grained quartzite lies approximately 20 metres east of line 518E, at approximately 481N. This bed cont-tains approximately 20% fine to medium grained, semimassive magnetite. The host rock appears to be a silicified limy quartzite and the occurrence is marked as magnetite skarn on Figure 9. The skarn is exposed for approximately 50 metres in discontinuous rubble and outcrop. The band appears to be approximately 8 metres wide.

b) Ordovician Active Formation: The Active formation, local to the M.U.T. claims, has a minimum apparent thickness in excess of 680m. Neither the top nor the base of the formation is exposed in the claims area. The extent of thickening and repetition due to extensive folding and thrust faulting could not be established, due to poor stratigraphic control. Sediments of the Active formation were probably deposited in an offshore basin in the miogeosyncline, during late Cambrian to Ordovician time. Periods of uplift and subsidence are suggested by carbonate-argillite facies transitions and lithological changes from quartzite to argillite.

Complex folding is evident in the argillites in the north-west slope of M.U.T. Hill above the limy quartzite unit. Poorly preserved accordian folds and drag folds were noted at several locations. Recumbrant folds, inclined to the northwest, are evident along the axis of M.U.T. Hill. The "primary" folds strike 0^o to 20^o and plunge 5^o to 15^o south. Secondary folds are seen along M.U.T. Hill and south towards Wilson Creek. In these areas, axial planes strike 30^o to 45^o and plunge 5^o southwest. The general strike of bedding is north-northeast to northeast dipping 40^o-60^o southeast.

The general stratigraphy of the Active formation is presented in cartoon in section 4.ii. A description of lithologies follows.

Argillite (Unit A and subdivisions): The predominant lithology in the Active formation is black argillite. The unit is typically very carbonaceous and generally well fractured, folded and somewhat friable. Argillite is commonly fine grained except fine to medium grained in narrow arenaceous bands, near the top of M.U.T. Hill. The unit contains less than 1% bedded pyrite and has no inherent magnetism.

Diamond drill holes 52-10, 11, 12 in the south of M.U.T. claim 6, were drilled by Kontiki Lead and Zinc Mines Limited during local exploration for lead and zinc deposits. The holes were vertically declined from a collar elevation of approxmately 915m. They cored in excess of 335m, in Active formation black argillite and limy black argillite. The top of M.U.T. Hill has an elevation of 1540m and the bottom of the Kontiki drill holes, an elevation of 580m. Assuming an average bedding dip of 45^o and no significant faulting and folding repetition of beds (probably repetition does occur) the formation has a minimum apparent thickness of 679m.

This figure compares with a maximum apparent thickness of 1402m, to the north in the valley of Active Creek and a minimum apparent thickness of 457m, in the valley of Porcupine Creek.

The internal structure of the argillites is complex. Bedding is frequently obscured by slaty cleavage and by folding. Facies transitions from argillite to limy argillite to limestone are commonly abrupt. In zones of silicification and hornfelsing the argillite is notably more competent and forms rather "blocky" talus. Narrow bands of tremolite-actinolite skarning of limy partings in the argillite are often very friable.

A roughly concentric area centred at line 495.5E, 501N, with a radius of 500m, contains markedly greater amounts of iron oxides on fractures and cleavage. This area encompasses numerous small zones of hornfelsed and silicified argillite. Also occurring in the area, are erratic concentrations of a green flourescing, white coloured, compact and massive mineral infilling fractures, which is tentatively identified as chabazite - member of the zeolite family.

The argillite has been divided into several units on the basis of alteration, textural and lithological differences. Brief descriptions of these units follow:

Limy Argillite (Al): The limy argillite member is exposed in irregular northeast trending bands in the northwest slope of M.U.T. Hill, high on the southeastern slopeof M.U.T. Hill and along the Black Bluff Fault. The unit is everywhere highly fractured and very friable. It is defined on the basis of a carbonate content in the range from 1 to 10%. Limy argillite commonly contains more carbonaceous material than argillite but rather less than black limestone. The unit is in gradational contact with limestone and argillite along Lost Creek; however, on M.U.T. Hill contacts with argillite and hornfelsed argillite are rather sharp. Narrow, subcontinuous bands of limy argillite from 1cm to 1 metre in width, located along the axis of M.U.T. Hill, have been altered to actinolite-tremolite skarns carrying minor visible scheelite.

Black Limestone (L): The black limestone member has the same general distribution as limy argillite, with which it is commonly interbedded. On the southside of Lost Creek it has a true (?) thickness of some 30m. The unit varies in colour from dark grey to black and is distinguished from limy argillite by an estimated carbonate content in excess of 15%. Black limestone is rather recessive weathering and quite friable in outcrop. The unit contains visibly more carbonaceous trash than argillite or limy argillite and no sulphides. The internal structure of the unit is poorly preserved and it is not known to what degree it has been deformed by folding. Along Lost Creek the unit is seen to gradually "shale out" towards the northeast. In float south of D.D.H. 78-1 and in outcrop on Nevada Mountain and on the Molly Mine road, 1250m northeast of D.D.H. 78-1, black and grey limestone show recrystallization to white marble. In the Molly Mine area, limestone and marble are further altered to wollastonite, tremolite and garnet-diopside skarns, containing scheelite.

<u>Quartzite, Siliceous Argillite, Quartz-Pyroxene Hornfels</u>: (Q, Q_L, Q_1)

Rocks of this division - "Q", were identified in the field as quartzite, aplite (?), limy quartzite, pseudoquartzite and siliceous hornfels on the basis of colour, texture, hardness and stratigraphic considerations. On re-examination in thin section many rocks which superficially resembled quartzite turned out to be quartz-pyroxene hornfels. These hornfelsed "pseudo-quartzites" were probably lime cemented siltstones in their original state, with variable clay, feldspar and carbon content. In thin section the hornfels are a fine to very fine-grained mixture of 45-65% quartz (in grains and amorphous matrix), 5-15% clinopyroxene (mainly diopside), feldspar 10-20%, calcite 5-19%, chlorite 5%, tremolite-actinolite 5-15% with accessory sphene, garnet and pyrite. Diopside commonly occurs as porphyroblasts, partly oriented to define a thin foliation. Bedding is sometimes suggested by tremolite deficient laminae cut by foliation at a small angle. A strong penetrative foliation is often defined by lenticular folia of quartz and feldspar mosaic, oriented ragged prisms of tremolite-actinolite and dimensionally oriented quartz grains sandwiched between the amphiboles. The typical white to light grey colouration indicates the preponderance of quartz, feldspar and diopside. Samples with light grey to black colouration contained inclusions of tremolite-actinolite and quartz mosaic, in diopside porphyroblasts.

True quartzite - "Q_1", is found in sharply conformable contact with argillite at line 500E, 503.5N and 10m east of the "0.34% Wo_3" showing on the M.U.T. access road. The beds are 4m and 0.6m thick respectively, well bedded and pure white in colour.

Unit Q_L, resembling silicated limy quartzite or siliceous limestone, is found in several locations: along the south banks of Lost Creek, along the M.U.T. Hill axis, in the south of the Molly claims and on line 495.5E at 502.5N. The unit is resistant to weathering and breaks into jointed blocks, approximately 0.3m in diameter. The unit is well bedded and contains numerous 1cm interbeds of porous, vuggy limestone, sandy limestone and minor argillite. Beds have a distinctive grey and white banding. The white bands contain quartz veins up to 5mm thick following bedding lineations and are strongly silicified. The grey bands are a weakly silicified, moderately hornsfelsed mixture of siltstone and carbonate. The original rock type appears to have been a siltstone with thin rhythimic interbeds of limestone. In thin section the rock is a finely foliated mixture of quartz 60-70%, diopside 15%, plagioclase 5%, carbonate 5%, garnet 5%, with accessory sphene, zoisite and muscovite. At the M.U.T. adit near contact with fine-grained granite the unit is altered to garnet-pyroxene skarn.

In the area west of Black Bluff Fault, along the Northern Tributary of Wilson Creek, well bedded and banded rocks described in the field as interbedded argillite, siliceous-argillite and grey white quartzite, in thin section are revealed to be quartz-pyroxenen hornfels.

The hornfels is a fine-grained mixture of 60-80% quartz, 10 to 20% diopside, 1-5% calcite, 1-5% (?) amphibole (actinolite-tremolite) with accessory chlorite, sphene and garnet. This unit is substantially deformed in the area north of Wilson Creek, where the strike of beds changes from north-northwest to east-northeast.

Units designated AH - moderately to strongly hornfelsed argillite and AL - weakly hornfelsed argillite are found on M.U.T. Hill and in contact areas with granite. The hornfelsed rocks are commonly not lime bearing. They are light black in colour and distinguished from unaltered argillite in the field by somewhat finer grain, hardness and "clunk" (slight ringing sound when struck). In thin section rocks are a very fine grained, equigranular mixture of 85% quartz and orthoclase, 5-10% biotite, 0-5% graphite, with accessory andalusite and calcite. Rocks of this unit are mainly of the pyroxene hornfels facies, indicating contact metamorphism. At the 1% showing, hornfels are more likely to be of amphibolite facies due to the presence of muscovite.

Units designated Sk for skarns were noted throughout the area but are most conspicuous in contact areas of the Lost Creek stock. True skarns - "Skg", derived from relatively pure marbles and limestones in contact with plutonic rocks, are noted mainly on the Molly claims, where the mineral assemblage is medium to coarse grained calcite-wollastonite-diopside-grossular garnet. In this area, small pockets of high grade scheelite are noted in pure wollastonite skarn and in garnet-diopside skarns, within 8 metres of the granite contact.

Skarns designated Ska - actinolite-wollastonite $\pm$ schellite, are found in + 1cm interbeds with weakly to strongly hornfelsed argillite. These skarns could be assigned to upper amphibolite, transitional to calc-silicate hornfels metamorphic facies. The altered areas contain crowded blades of actinolite and/or tremolite with lesser biotite, quartz, epidote, wollastonite and calcite. A few small wollastonite-diopside $\pm$ garnet subcrops between D.D.H. 78-2 and the Molly claims are included in the Ska unit but are of calc-silicate hornfels grade metamorphism.

Unit Sks - calc-silicate hornfels is found in contact areas of the Lost Crrek stock, along the western and eastern contact areas of the Wilson Creek pyroxenen-hornfels zone and in a few scattered outcrop elsewhere in the Active formation. At the M.U.T. adit, the granite contact area with limy siltstone and limestone is altered to bands of diopside-garnet-pyrrhotite skarn (calc-silicate hornfels) with accessory k-feldspar, tremolite, scheelite amd molybdenite. Between these skarn bands and grading into pyroxene hornfels (QL) further west, are bands of grey-white wollastonite-tremolite $\pm$ diopside which contain trace amounts of scheelite. A similar situation is implied for the Jumbo claims area from an examination of hornfels material in adit dump piles.

Unit As - shaly textured argillite is found along the M.U.T. claims access road near line 491E at 488N. The uint is black in colour and thinly bedded with less than 1% disseminated pyrite. To the west is an area of limy shale - Als, containing upto 10% disseminated carbonate. The unit is gradational to north and south, into unit Asp - slaty textured argillite. Unit Asp is dark grey to black in colour and contains a single crenulate cleavage which commonly obliterates relict bedding. Pyrite porphyrblastic cubes, up to 2mm diameter, are found along cleavage planes but are heavily leached in most outcrop. Cleavage planes have a slight sheen due to the presence of fine-grained muscovite.

Unit Asp is found in north and northeast trending zones on M.U.T. Hill and to the west along line 491E. Slaty argillite, located along the axis of M.U.T. Hill is weakly hornfelsed throughout and is markedly iron stained in numerous irregularly shaped zones. The unit contains several northeast trending, subcontinuous skarn-amphibolite bands (Ska) from 1cm to 50cm wide and irregular zones of pyroxene hornfels (AH). In areas of higher grade thermal metamorphism, it is common to see an increase in fracturing and iron staining and the occurrence of fracture fill chabazite (?), autunite (?). Bull quartz veins, from 3cm to 60cm wide, carrying trace amounts of disseminated pyrite, are common on cleavage in the unit.

Unit Ap - phyllitic argillite was noted on line 485E near 485N and in a few outcrop along Black Bluff Fault. The unit is light orange-brown to silvery grey in colour, fine-grained and very recessive weathering. A prominent crenulated schistocity is present which strikes 20^{o}-45^{o} east and dips 50^{o} south.

B) Intrusive Rocks:

a) Nelson Granitic Rocks: The Active formation is intruded along a northeasterly trend by the Lost Creek stock. The stock has an irregular shape in plan, being crudely elliptical along an east-west to northwest axis but trending rather more northeasterly in the Black

Argillite Belt. The stock crosscuts folded beds in both the Eastern and Black Argillite Belt but does not appear to have deformed the pre-existing regional structures. The intrusion is satellite to the Nelson Batholith, 26km to the northwest, of lower Cretaceous age.

The Lost Creek stock has been examined on the Jumbo claims, at the M.U.T. Adit, along Lost Creek and at the Molly Mine. In the core area along Lost Creek and in the main creek east of the Molly Claims, the stock has the composition of a granite. It is composed of 30% quartz, 5% microcline. 10% albite, 5% biotite with accessory garnet and sericite. Granite is massive, well jointed, light grey to pink in colourand rather recessive weathering. Outcrop is frequently exfoliated and in recessive areas the granite has weathered to grus.

In contact areas of the M.U.T., Jumbo and Molly claims the stock has rather variable appearance and composition, probably related to chemical zoning. Over a space of perhaps 20 m approaching sediment contacts, the granite becomes progressively finer grained, leucocratic, and erratically quartz and plagioclase (attrite) rich. In the contact zone of the granite, overall composition though variable, would approximate that of quartz monzonite. Here biotite is altered to chlorite and muscovite and plagioclase is partially altered to sericite. On the Molly claims, one area of granite is completely sericitized.

The contact zone of the granite with Active formation sediments is of interest because of small,localized, metasomatic molybdenite - scheelite deposits, such as at the Jumbo and Molly claims. The medium grained, transitional phase (granite to quartz monzonite) is well represented only near the Molly Mine where it grades west into fine grained quartz monzonite and granite and east into coarse grained granite.

The medium grained phase is very well jointed, blocky weathering, equigranular, quartz-plagioclase enriched and rather miarolitic.

The fine grained phase is essentially an aplite which forms a highly siliceous cap rock, some 2 metres thick, at the roof of the granite intrusion. Aplite and pegmatite dykes up to 1 metre in width cut the fine and fine-medium grained phases of granite.

At the Jumbo claims the medium grained phase is not represented and fine-grained contact phase is present, but poorly exposed. Locally, the coarse grained stock is a light pink quartz monzonite becoming light grey to white in the contact area. Contact rocks have generally variable textures and are cut by aplite, felsite and pegmatite dykes. Fine-grained granite to aplitic dykes are common cutting argillite hornfels on the top and western flank of the ridge running south from Nevada Mountain.

b) Aplite and Felsite Dykes: Aplite and felsite dykes have a wide distribution in the region. They are typically very fine-grained to aphanitic, white to light grey weathering, resembling chert or, in some outcrop, quartzite. They are composed of quartz, plus sodic and potash feldspar. The intrusive masses commonly strike subparallel with foliations in the host rocks but dips are generally subvertical. The aphitic dykes and sills are most common in the Active formation east of Jersey and H.B. Mines.

Aplite is found on the M.U.T. claims as dykes up to 1 metre wide in and subadjacent to contact areas of the Lost Crrek stock. It is also found as a discontinuous and poorly preserved "chill zone" to the stock, at the Molly Mine and in the Jumbo adits. Fine-grained granite to aplite outcrop occurs near diamond drill hole 78-3 and as dykes in calc-silicate rock to the west. Thin sections of samples from the Molly Mine and hole 78-3 area indicate aplite is composed of 15-20% quartz, 78-80% potash feldspar and 5% plagioclase with 1% biotite (altered to muscovite) and accessory garnet.

Aplite intersected in diamond drill holes 77-1 and 78-2 is white to light grey in colour, altered and cut by two stages of veining. The first stage quartz veins contain potash feldspar and secondary biotite. The later veins are norrow quartz-pyrite veins with sericite alteration selvedges, which contain minor fine-grained molybdenite. In thin section the rock is composed of quartz 50%, 30% potash feldspar, 18% plagioclase and 1% sericite with accessory carbonate and garnet. Feldspars are weakly altered to sericite. Some micrographic and ex-solution textures were noted indicating hornfelsed material. The quartz veins contained quartz 60%, garnet 30-35%, sulphides 5% and accessory muscovite, carbonate, apatite and biotite. The bulk of argillite overlying aplite in hole 77-1 is strongly hornfelsed.

c) Lamprophyre Dykes and Sills: Lamprophyre dykes and sills are common throughout the Salmo area and cut all other intrusive rocks. Lamprophyre dykes and sills are noted in scattered outcrop over a wide area of M.U.T. claims 3-6. They are commonly very recessive and are indicated by a fine rubble of biotite. In a thin section of a sample dyke cutting quartzite near 481.5N on line 518E, the lamprphyre is seen to comprise 15% biotite as large phenocrysts and are fine-grained ground mass, 35% plagioclase, 25% chlorite (after biotite) and 25% carbonate. No sulphides were noted in the lamprophyres.

C) <u>Structural Geology</u>: (all orientations given in azimuth e.g. strike of 20^0 = N 20^0 E)

The internal structure of the Active formation is poorly represented and apparently complex. The bulk of the argillite is rather monotonous and marker horizons are rare and discontinuous. The calcareous units Al and L, exposed in beds south of Lost Creek and in a band of discontinuous outcrop along the western margin of Black Bluff Fault may be segments of the same horizon. Exposure is too poor in the Black Bluff Fault area to develop strtigraphic relationships and bed thickness.

A difficulty in studying the argillites is that they often are thinly banded and break along cleavage planes parallel to bands. In most outcrop it is not possible to establish if banding is original bedding or secondary cleavage. Certainly, in the metamorphosed rocks of pyroxene hornfels AH and Q, many bands are secondary features. Most of the observed structure discussed below was detailed in small scale folds in argillite and limy argillite.

Open isoclinal folds with a wave length of 9 m were recognized on M.U.T. Hill at 498E on line 500N. The folds are upright, strike 0 - 20^0 and plunge 5^0 south. Accordian folds are poorly exposed in a trench at 500N, 500E and on line 492.5E at 502.5N. These folds strike 45^0 and plunge 5-10^0 southwest. In the line 502.5N area the axial planes are inclined 45-50^0 northwest.

Recumbant folds with a wave length from 1 to 5 m were found at 503E, 501N; 500N, 499.5E and at 500.8N, 500E; outlined in limy argillite beds.

Drag folds are outlined by quartz veins in black limestone and limy argillite in scattered outcrop near the United Verde adits. They strike azimuth 60^{o} and are inclined 40^{o} north.

Altitudes were recorded on lineations thought to represent bedding and others representing secondary structures, over the whole of the claims area. Bedding in the argillites underlying M.U.T. claims 1 & 2 commonly strike 0 to 10^{o} and dips at a variety of attitudes reflecting somewhat contorted, tight isoclinal folds. The fold axes strike 5^{o} to 15^{o}. They plunge 5^{o} southwest of Nevada Mountain and 14^{o} north-northeast, just north of Nevada Mountain. On M.U.T. claim 3-5, bedding commonly strikes 15-20^{o} in the Lost Creek area limy argillites but moving south toward M.U.T. Hill bedding is most common at 35^{o} to 45^{o}. Bedding dips are most common at 40^{o} to 55^{o} southeast. An area between 492E and 501E at approximately 497N returned bedding orientations striking due east with highly variable dip angles. Altitudes of beds on the western margin of pyroxene hornfels "Q" above the Northern Tributary of Wilson Creek strike 170^{o} and dip 60^{o}, variably east and west. Bedding altitudes in the area of Black Bluff Fault commonly subparellel the fault trend, which varies from east-northeast to north-northeast to northeast.

Cleavage in the slaty, shaly and phyllitic textured argillites of the Active formation is variable from area to area but commonly deviates from bedding strikes by not more than 10^{o}. In the area south of the base line, cleavage dip is substantially shallower or steeper than bedding dip.

The Black Bluff Fault crosses the southern area of the M.U.T. 3 to 6 in a general northeasternly direction. The fault zone is marked by a recessive area bounded by highly fractured quartz veined and occasionally sulphide bearing limy argillite, limestone and argillite to the northwest and by muscovite-talc-schist and phyllite of the upper Laib formation, to the southeast. Altitudes of bedding in argillites and foliation in the schists suggest the fault dips 70^0 - 85^0 to the south and east.

Structure in the upper Laib is exposed in a very few outcrop scattered over a large area. Bedding orientations taken in limy beds indicate that at least part of the unit strikes 35^0 and dips 80^0 southeast. The phyllites are very contorted in small scale but cleavage commonly strikes 25^0 to 35^0 and dips 70^0 - 85^0 northwest and southeast.

Structure of the lower Laib-Reno formation is dominated by the Western Sheep Creek anticline, the core of which is centred on Lost Mountain. The anticline is slightly inclined to the northwest in the Lost Mountain area. Recumbant folds with a strike of 30^0, inclined 70^0 northwest, were noted in the Reeves and Truman members and in a single outcrop of limy quartzite in the Reno formation. The beds apparently strike 35^0 and dip subvertically southeast in the core area. To the west in the Reeves member of the Laib formation the beds strike 35^0 and dip 55^0 southeast. Cleavage and foliation in the Laib and Reno formations commonly subparallels bedding strike and dip over most of the M.U.T. claims. Orientations are most common striking 20^{0} and 35^{0}, dipping steeply northwest and southeast.

Cross sections A-A', BCD-D' and E-E' present geology exposed at surface along certain topographic sections lines. Section A-A' trends northeastward along the M.U.T. Hill axis (See Fig. 6). It shows the contact between the Lost Creek stock and argillites in the northeast and the intersection of granite in diamond drill holes 78-2 and 77-1. An hypothesized granite-argillite contact is indicated beneath M.U.T. Hill, following the general axial trend of overturned isoclinal folds. Little of the internal structure of the argillites is shown, as beds are generally dipping toward the southeast, at the observer. In Figure 7, folded section line B-C-D-D' is shown connecting diamond drill holes 78-3, 77-1 and 78-2, where information on subsurface lithology is available in the Active formation, with geology of the Eastern Belt. The complex internal structure in Section B-C is sketched to show the predominance of overturned accordian folds and bedding which strikes 30^{0} and dips $40\text{-}50^{0}$ southeast. The ultimate structural detail is very complex and is not known to the author. Section C-D is drawn looking north-northeast along azimuth 21^{0}. The depth to granite in drill holes 66-1 and 78-2 is shown and the areas of hornfelsing in each hole. The structure in the argillites on this section is dominated by recumbant folds striking 25^{0}, plunging 5^{0} southwest and inclined 40^{0} northwest. The granite may be a cupola following the fold orientations or a sill following bedding or bedding cleavage. Section line D-D' shows the distribution of lithologies either side of Black Bluff Fault. Again, structure in the argillites is hazy; however, attitudes in outcrop off-section suggests a series of contorted isoclinal folds trending northeast. Bedding and cleavage in argillites near the Black Bluff Fault dip subvertically to the southeast. Structure in the upper Laib is not known but is thought to be dominated by cleavage and foliation. A few accordian folds preserved in limy members of this formation suggest that thrusting has occurred in the unit. The cross section shows accordian folding as the dominate structure with relative movement occurring between rocks of differing ductility. Bedding and recumbant folds are indicated by sketch lines, in the Reeves and Truman members and in Reno Quartzite.

The author's conjecture on the evoloution of Palaeozoic formations in the Salmo area is presented in Figure 4A. The Active formation is thought to have been deposited in an offshore basin of the miogeosyncline during late Cambrian to Ordovician time. Collision of the Pacific and North American plates produced compression forces which folded the Cambro-Ordovician succession. Thrusting occurred on the eastern and western margins of the basin between relatively ductile rocks of the lower Active formation and upper Laib formation. Bedding faults were lubricated by fluids produced by dewatering of the formation, during compaction and compression. Active formation argillite was deformed into primary folds striking approximately 10^0. The argillite on the margins of the syncline was thrust east and west out of the basin. With continued compression, the Iron Mountain Anticline was overturned to the west and thrusting occurred above the Reeves member on the eastern limb of the anticline. This western bedding fault is known as the Argillite Thrust Fault.

During this period, possibly due to rotation of the Pacific plate, the southern end of the Kootenay arc was further compressed and warped to an east-west trend. This period of deformation superimposed secondary, northeast trending overturned and accordian folds on the primary fold pattern. The secondary deformation is best preserved on M.U.T. Hill. In the secondary phases of deformation, axial plane and transverse (east-west to southeast-northwest trending) faulting occurred in the Active formation. Stocks and plutons satellite to the Nelson Batholith were emplaced in existing structures during lower Cretaceous time. In the M.U.T. area, emplacement of the Lost Creek stock was controlled by transverse faults in the Eastern Belt and by fold structure and axial faults in the Black Argillite Belt.

iv) ECONOMIC MINERALIZATION:

Molybdenum-tungsten occurrences, of varying economic significance, are located over a wide area of the M.U.T. claims. Historic showings with underground workings are known at the Jumbo claims on Nevada Mountain, at the M.U.T. adit located just south of Lost Creek, at the Molly Mine on M.U.T. Hill southeast of M.U.T. adit and at the United Verde claims south of the south triburary of Wilson Creek. These showings are described by Fyles (1959), Vokes (1960), Poloni (1978) and Ramalingaswamy (1978). They were examined in the course of mapping.

The two principal modes of occurrence of tungsten-molybdenum mineralization are as disseminations of scheelite and molybdenite in quartz veins occurring in hornfels and in skarns and calc-silicate rocks. The vein showings are invariably polymetallic - containing minor argentiferous galena, sphalerite, chalcopyrite, pyrite or pyrrhotite. The occurrences can be ranked by the relative concentrations of molybdenum and tungsten as follows (all assays reported by Poloni):

1. W>> Mo:

a. High Temperature Skarns: Southeast of the Molly Mine, garnet-diopside skarns in marble subadjacent to the granite contact, commonly contain 0.5% WO_3 as fine-grained disseminated scheelite in 2-3m diameter zones. Occasional skarns contain up to 2% WO. Skarns adjacent to the granite contact contain rather less scheelite and some pyrite, pyrrhotite, chalcopyrite, molybdenite and trace sphalerite.

b. Lower Temperature - Hornfels:

i. 1% Showing: Quartz stringer on bedding in argillite hornfels contains trace quantities to 0.5% WO_3 as scheelite over 1m widths. Vein also contains visible pyrrhotite-pyrite.

ii. New Showing: Pyroxene hornfels zone contains 0.04 to 0.34% WO_3 as disseminated scheelite and 0.09% to 0.72% Zn as disseminated and fracture fill sphalerite.

iii. Pyroxene Hornfels in Trench 4 (see Figure 5): Disseminated fine to medium-grained scheelite in weakly developed quartz stockwork contains up to 0.28% WO_3, in 1m channel samples (BP 1979). Associated polymetallic quartz veins contain semimassive sphalerite, chalcopyrite and minor galena.

c. Low Temperature Polymetallic Veins: Large quartz veins, in the lower adit on the United Verde claims, contain semi-massive, argentiferous galena with lesser sphalerite and molybdenite.

Scheelite occurs as large disseminated grains. Molybdenite occurs as medium to fine-grained rosettes. The veins returned values of from 0.06 to 1.9% WO_3 and 0.002 to 0.007% MoS_2. A single grab sample from a separate vein contained trace Mo, 0.12% Cu, 0.36% Pb, 2.3% Zn, 20 oz/ton Ag, 0.06% Sn, 0.14% W, 0.037% F and 0.03 oz/ton Au.

2. <u>W$\gtrsim$ Mo</u>:

a. <u>High Temperature Calc-Silicate Hornfels and Skarn</u>:

i. <u>M.U.T. Adit</u>: Interbands of garnet-diopside pyrrhotite skarn and calc-silicate hornfels subadjacent to a granite contact. The skarns contain disseminated, fine to medium-grained scheelite, powellite and molybdenite. Values obtained from channel smaples across the bands assayed from 0.18 to 0.68% WO_3 and less than 0.028% MoS_2.

ii. <u>Jumbo Adits</u>: Garnet-diopside skarns adjacent and subadjacent to the granite contact contain up to 0.5% WO_3 as scheelite, minor powellite and 0.03% MoS_2, with associated pyrite. Large quartz veins in and adjacent to the skarns contain disseminated and massive pyrite and lesser disseminated galena, sphalerite and molybdenite.

iii. <u>Diamond Drill Hole 78-3</u>: The hole was drilled subadjacent to the granite contact due south of the M.U.T. Adit. Drilling intersected 26.2m of calc-silicate hornfels averaging 0.035% MoS_2 and 0.18% WO_3 including a 3.4m section grading 0.163% MoS_2 and 0.378% WO_3. The mineralized sections in "skarny" horizons of argillite and limy argillite contained disseminated fine-grained scheelite, powellite and molybdenite

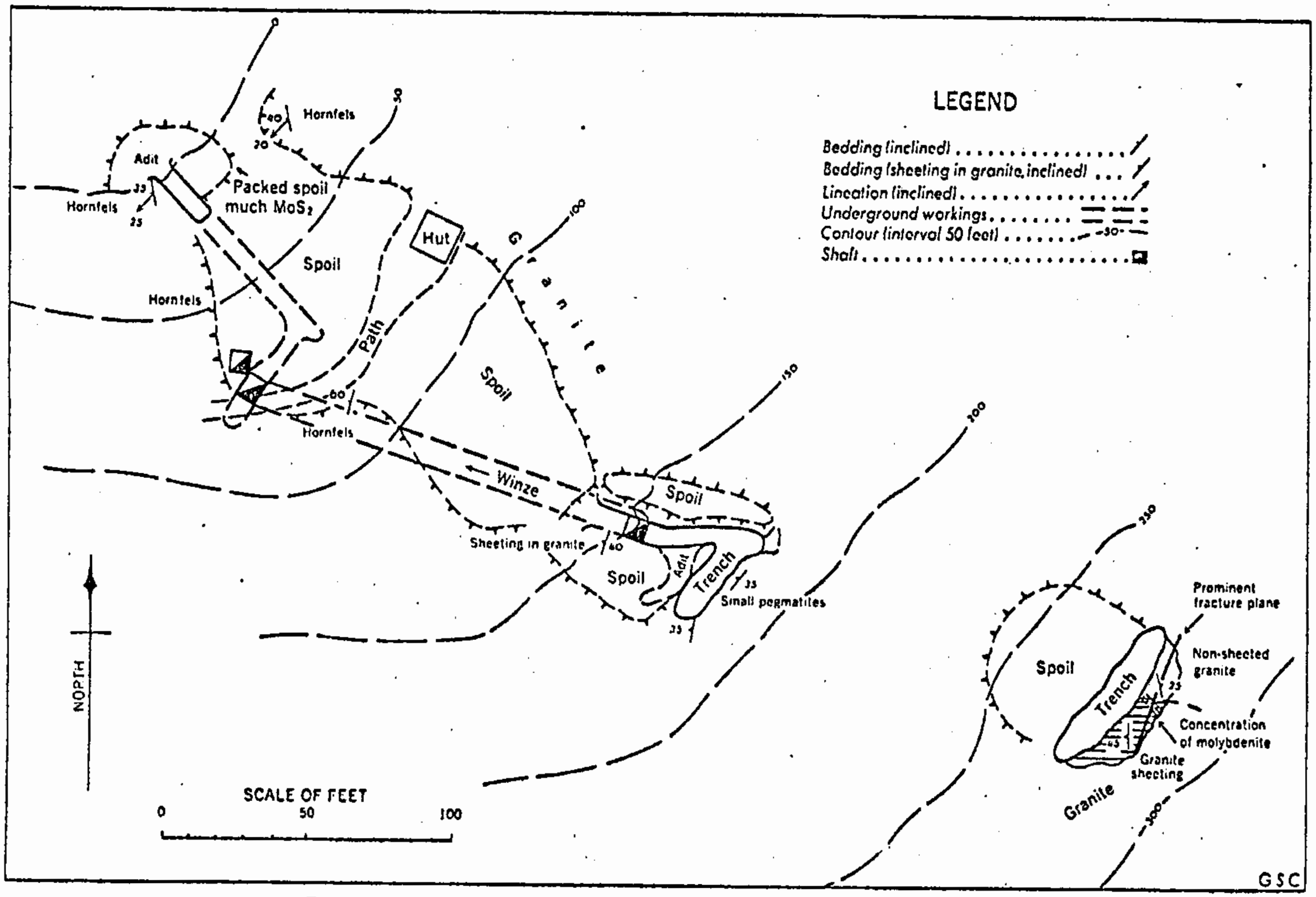


PLATE 11 *Molly mine, Salmo, British Columbia. From tape and compass survey, 1958.*

From Vokes, F.M; Molybdenum Deposits of Canada, G.S.C. Econ. Bull 20, 1963, p.292.

with disseminated pyrite and lesser pyrrhotite.

3. Mo>> W:

At the Molly Mine, a strongly sheeted zone of fine-grained granite, lying just below a 2 metre capping of aplite in contact with argillite hornfels, carries disseminated molybdenite and pyrrhotite. The aplite is irregular in thickness and contains a few disseminated, fine grains of molybdenite and numerous quartz stringers containing trace amounts of very fine-grained, molybdenite. The main zone of ore was examined in a trench above the winze. The sheeted granite is fine-grained, iron stained and rather miarolitic. It is cut by a few 0.6m wide, barren pegmatite dykes and 1cm wide quartz veins. The ore zone lies directly beneath the aplite-hornfels chill zone. Molybdenite occurs as fine-grained rosettes and massive clots along intersecting joint planes and as disseminations between the joints. The ore body forms a steeply plunging zone some 2 to 2.5m thick, of crosscutting joint planes with sheeting. The high grade ore occurred where the granite contact dipped at shallow angles, as if near the top of the intrusion. The principal sulphides are molybdenite and pyrrhotite with minor chalcopyrite and pyrite.

It is noted that the main gangue sulphide in showings on the Jumbo claims, is pyrite which occurs with ore and as massive clots in quartz veins separate from the skarns. On the M.U.T. claims the principal sulphide in surface showings is pyrrhotite; however, in diamond drill holes

77-1, 78-2 and 78-3, at depth pyrite is more common than pyrrhotite.

Numerous 1cm to 30cm actinolite-tremolite ± pyrrhotite ± sphalerite skarns are found replacing thin limy beds and partings in the argillite on M.U.T. Hill. Quartz veins in skarn bands with narrow silicified envelopes are noted in outcrop in Trench 1 and 2 (see Figure 5), following bedding and fold axies. The quartz veins carry minor fine-grained, disseminated pyrrhotite, pyrite and trace fine-grained scheelite. Scattered small outcrop of silicified argillite, as near Trench 1 (sample 47-60), on the northwest slope of M.U.T. Hill, contain approximately 3% fine-grained pyrrhotite and trace scheelite.

Mapping and prospecting, in the areas of known showings on the M.U.T. claims, failed to locate additional mineralized zones. Minor molybdenite was noted in quartz veins and disseminated in sericite altered, fine-grained granite, in contact with argillite hornfels, on line 497E at 513.5N. A talus block of granite containing MoS_2, was found below unmineralized, exfoliating granite outcrops at 498.5E, 514N. The block contained perhaps 5% disseminated, medium-grained molybdenite in a hematite stained, biotite rich matrix. The source of this singular, mineralized block, is not locally exposed and is thought to be large in extent.

v) <u>ALTERATION</u>:

Regional metamorphism, due to tight folding and shearing of the Palaeozoic sediments, is everywhere low grade. On the M.U.T. claims, thermal metamorphism related to the Lost Creek stock is superimposed on chlorite zone assemblages due to regional metamorphism. Thermally metamorphism rocks of the Active formation include: i) garnet- diopside ± pyrrhotite ± pyrite ± base metal skarns and calc-silicate hornfels in contact areas of the Lost Creek stock; ii) calc-silicate and quartz-pyroxene hornfels ± scheelite - subadjacent to granite contacts; iii) pyroxene and biotite hornfels and silicified zones - commonly in non calcareous rocks in contact with and peripheral to, intrusions of the Lost Creek stock; iv) lower temperature actinolite-tremolite-limonite "skarns" peripheral to the Lost Creek stock.

These rocks are described in greater detail in sections 4 (iii) A and B and 4 (iv).

Alteration in the granite includes intense sericitization in a few areas on the Molly claims, subadjacent to contacts with the Active formation. An increase in orthoclase feldspar and quartz in certain areas of the granite contact, may reflect the chemical influence of sedimentary units during metasomatism. Biotite and muscovite are absent in the intrusion in the contact area. An increase in sulphides and iron oxides is noted in the contact rocks.

Quartz-pyrite veins with silica-sericite alteration selvedges are erratically distributed but not uncommon in both the aplite chill zone and adjacent fine to medium-grained granite. In diamond drill hole 77-1, fracture k-spar and secondary biotite veinlets are cut by later quartz-sericite pyrite veinlets.

A concentric zone centered at 495.5E, 501N having a radius of + 500m, contains generally more fractured rock and markedly greater amounts of limonite on fractures and cleavage, than elsewhere in the argillites. This area encompasses small, erratically distributed zones of silicated and hornfels argillite and limy argillite. In the areas of alteration are found smaller zones containing considerable amounts of a compact, massive, rather soft, white mineral which fluoresces bright-green under short-wave radiation and very faint, pale yellow-green under long-wave radiation. The mineral is tentatively identified as chabazite. Much gypsum was noted on bedding in the area of Trench 1 (Figure 5).

The shear zone in Trench 5, the zone of intense hornfels in Trench 4, the skarn band in Trench 3 and the shear zone in hornfels near camp all trend northeast, following secondary structures. These structures are healed with quartz veins which contain pyrrhotite, sphalerite, pyrite and in Trench 4 much scheelite.

Quartz veins and skarns in Trenches 1 and 2 follow north to north-northeast trending folds which are thought to be "primary" structures.

Alteration and sulphide mineralization in the concentric zone (above) are thought to originate in the intrusion intersected by diamond drill holes 77-1 and 78-2. Mineralized fluids circulated through and were emplaced in secondary structures.

The zone of quartz-pyroxene hornfels, which outcrops along the North Triburary of Wilson Creek may have been altered by the intrusion intersected in diamond drill holes 77-1 and 78-3, or by a separate fault controlled heat source, related directly to the main stock.

The Laib and Reno formations are thermally altered near the Black Bluff Fault along line 500E and to the east along line 518E. The rocks in these areas are apparently altered to calc-silicate hornfels and pyroxene hornfels - observed in subcrop and a few recessive outcrop. A magnetite skarn, east of line 518E, 501.5N is visible in a north northeast trending band of talus. No sulphides were noted in the altered zones.

vi) DISCUSSION:

The 1980 geological mapping program was directed towards establishing geological evidence at surface, for a buried "porphry" molybdenum system. There is no direct evidence, such as; dykes, intrusion breccias, hornfels aureole, sizeable areas of silicic, sericitic or potassic alteration, pyrite halos, quartz stockworks, concentric fracture or vein systems, available in the rocks. Indeed, no disseminated or fracture-fill molybdenite was located outside the contact areas of the Lost Creek stock.

There is, however, direct and indirect evidence for an intrusion buried beneath M.U.T. Hill. Direct evidence includes: a) an aplitic intrusion intersected at the bottom of diamond drill holes 77-1 and 78-3 and a subsurface hornfels contact aureol which extends to surface in hole 77-1; b) quartz-sericite-pyrite veinlets carrying minor fine-grained molybdenite, crosscutting fracture-fill k-spar and secondary biotite veinlets, in aplite at the bottom of hole 77-1.

Indirect evidence includes a subconcentric zone centred west of M.U.T. Hill camp which contains: a) a few, discontinuous quartz-pyroxene hornfels and biotite hornfels bands and numerous narrow actinolite-tremolite-quartz-pyrrhotite "skarn" bands, with associated erratically high grade but commonly subeconomic scheelite occurrences, b) a few quartz-pyrrhotite-sphalerite veins, in and adjacent to hornfels zones, c) a small, weakly developed quartz stockwork zone containing significant amounts of medium-grained scheelite and associated poly-metallic quartz veins, d) generally higher concentration of fractures and barren quartz veins, e) higher concentration of limonite on fractures and cleavage, also of leached but occasionally visible pyrrhotite-pyrite veinlets.

The hornfels zone in hole 78-2 is narrow and local to the aplite contact; whereas, in hole 77-1, the hornfels zone is subcontinuous to the surface. Thus, heat flow and hydrothermal fluids from the intrusion apparently ascended along structures inclined to the north or northwest rather than to the southeast. The evidence from trenches and road cuts over known mineralized showings, indicates that the thermally altered zones and poly-metallic veins commonly follow bedding planes, fold axies and shear structures, which strike northeastward and dip southeastward at all angles greater than 55^{o}.

The Lost Creek stock in the M.U.T. claims area changes from a northwestward to a north-northeastward trend of emplacement. The suggestion is that the margin of the stock has been intruded along primary fold axies on M.U.T. claims 1 and 2 and to a lesser extent on M.U.T. claims 3 and 4.

The trend of Lost Mountain ridge axis is to the northwest. The trend of M.U.T. Hill is northeast; that is, subparallel to "secondary" structures and to the Black Bluff Fault. This suggests that the emplacement of Lost Creek stock on M.U.T. claims 4, 5 and 6 was controlled by "secondary", northeast trending structures. Following this line of reasoning it is probable that the intrusion intersected by drill holes 77-1 and 78-2 is connected, beneath M.U.T. Hill, with the Lost Creek stock exposed to the north and northeast.

The aplite intersected by drilling in holes 77-1 and 78-2 is thought to be a siliceous "chill" zone at the top of a granite-quartz monzonite cupola. Assuming the situation is similar to that exposed on the Molly claims, molybdenite ore - if present, would lie beneath the aplite in a jointed, exfoliation zone, in fine-medium grained granite. If the "chill" zone acted as a cap rock to mineralized solutions, such an ore body would probably not be detected by molybdenum geochemistry at surface. Molybdenum remains mobile in alkaline conditions and is unlikely to be deposited in areas of intruded calcareous rocks. On the Molly claims, the best MoS_2 ore is found where granite intrudes non calcareous rocks. The upper elevations of M.U.T. Hill contain only minor interbeds of calcareous rocks, thus the environment is favourable for deposition of MoS_2.

Higher grade tungsten occurrences are found in thin beds of relarively pure limestones and marbles at and subadjacent to the granite contact. Calc-silicate hornfels found both in M.U.T. adit and diamond drill hole 78-3, (in the immediate contact area of the granite) contains promising tungsten-molybdenum grades. An examination of outcrop and soil geochemistry in calcareous units to the southwest indicates that the lateral extent of the mineralized zone is limited. The best tungsten grades therefore are probably to be found in folded calcareous rocks immediately adjacent to the granite contact.

With the exception of marbles developed on the Molly claims and on Nevada Mountain, which do not appear to achieve a true thickness greater than 4m, no significant thickness of "pure limestone" is found at upper elevations on the M.U.T. claims. The carbonaceous limestone, limy argillite and hornfelsed limy argillite beds along Lost Creek do not appear to be mineralized southwest of the M.U.T. Adit. These units may be tungsten mineralized in contact with granite beneath M.U.T. Hill but there is no direct evidence for this scenario. The presence of substantial amounts of carbon as graphite, etc. in the limy units would tend to mitigate against formation of economic skarn deposits.

Scheelite in skarns and hornfels at the 1% showing, New Showing and Trench 4 showing appear to follow a northeasterly trend, parallel to "secondary" structures. The true thickness and continuity of these showings is not available due to overburden. Where exposed, grade estimates for tungsten are commonly low with small erratic areas grading up to 0.34% WO_3. Calcareous beds are commonly less than 1 metre thick at higher elevations and known showings in hornfels zones are narrow,(although potentially continuous on strike) with erratic but commonly low tungsten grades. There is therefore, little possibility of an economic skarn tungsten deposit(s) at higher elevations on the M.U.T. claims.

The existence of a stratiform, replacement lead-zinc-silver deposit on the claims has not been negated. Extensive chip sampling on unaltered - unmineralized units and of altered, veined, skarned and mineralized outcrop indicates a widely varying metal content for all sample groups. For example, the zinc content of unaltered black argillite ranges from some tens of ppm to 500 ppm and similarly for other elements for most rock types. Despite the erratic results there is a definite suggestion that some quartz veins, skarned and hornfelsed rocks are enriched in zinc fluorine, copper and perhaps silver. All outcrop containing bedded or disseminated pyrite were chip sampled but none returned anomalous results.

Soil geochemistry shows remarkable concentrations of zinc and silver in an area of enhanced copper-molybdenum values on the northwestern slope of M.U.T. Hill and of lead and fluorine on the southeastern flank. The anomalies on the northwestern slope lie above the calcareous horizons Al, L, Ql - almost entirely in the argillites. The northeasterly trend of the anomalous zones strongly suggests structural control. Secondary structures are suggested to have controlled emplacement of granite beneath M.U.T. Hill. Hydrothermal fluids circulating in these structures may well have replaced certain beds but reactive calcareous beds are thin and discontinuous in the argillites. It is thought more likely that metalliferous solutions ascending northeastward trending structures from a granite source, deposited poly-metallic sulphides in fractures and veins. These veins and skarned structures are recessive and are exposed mainly in trenches. They could well have been passed over during field mapping.

vii) RECOMMENDATIONS:

a) Intensive prospecting is recommended in areas of the zinc-silver (molybdenum-copper) soil anomalies and of the lead-fluorine soil anomalies. The target is a strata related, replacement zinc-silver deposit. Specifically, continuous chip sampling of outcrop over 3m intervals should be completed on lines 491E and 492.5E north of the 500N baseline and on line 501.5E and 503E, south of the baseline. Trenching is recommended trending northwest, across structure, at 500.5N on line 491E in the zinc-silver anomaly and trending southeast across the lead fluorine anomaly, starting near line 503E, 500N.

The purpose of the prospecting, trenching and sampling is to define the source for anomalous zinc-silver and lead-fluorine geochemistry. In the event that trenching and continuous sampling is not possible in these areas or if the source is located in outcrop and has economic potential, further drill testing is recommended. A hole is recommended near line 491E, 500.5N inclined 70^0 northwest. This area is easily accessed from the existing property road.

b) An essentially blind molybdenite ore zone is suspected to underlie aplitic cap rock beneath M.U.T. Hill. The ore may be "porphyry" type, in which case aplite would represent the barren siliceous cap rock common to this deposit type. More likely the suspected mineralization is similar to that on the Molly claims. It would lie just beneath the aplitic cap rock in a sheeted zone, containing disseminated and fracture-fill MoS_2 and pyrrhotite. Assuming such a mineralized zone exists, it may well persist over large areas of the granite roof between M.U.T. Hill and the Molly Mine.

To test for the presence of such a target a diamond drill hole could be drilled on the road mid-way between existing holes 77-1 and 78-3. The hole would be drilled to a maximum depth of 250m, inclined 75^{o} to the northwest, to perforate the aplite intrusion.

5. GEOCHEMICAL REPORT

by

Dr. S.J. Hoffman

5.i) SAMPLE PREPARATION AND ANALYTICAL PROCEDURE:

ANALYTICAL METHODS CURRENTLY IN USE AT ROSSBACHER LABORATORY LTD.

A. SAMPLE PREPARATION.

1. Geochem. Soil and Silt: Samples are dried, and sifted to minus 100 Mesh, through stainless steel, or nylon screens.

2. Geochem. Rock : Samples are dried, crushed to minus $\frac{1}{4}$ inch, split, and pulverized to minus 100 mesh.

B. METHOD OF ANALYSIS.

1. Multi element. (Mo, Cu, Ni, Co, Mn, Fe, Ag, Zn, Pb.): 0.5 Gram sample is digested for four hours with a 15:85 mixture of Nitric-Perchloric acid.
The resulting extract is analyzed by Atomic Absorption spectroscopy, using Background Correction where appropriate.

2. Tungsten: 1.0 Gram sample is sintered with a carbonate flux, and dissolved.
The resulting extract is analyzed colorimetrically, after reduction with Stannous Chloride, by use of Potassium Thiocyanate.

3. Tin: 0.5 Gram sample is sublimated by fusion with Ammonium Iodide, and dissolved.
The resulting solution is analyzed colorimetrically by use of Gallein.

4. Fluorine: 0.5 Gram sample is fused with a Carbonate Flux, and dissolved.
The resulting solution is analyzed for Fluorine by use of an Ion Selective Electrode.

5. Gold: 10.0 Gram sample is dissolved in Aqua Regia.
The resulting solution is subjected to a Methylisobutyl Ketone extraction, which extract is analyzed for Gold using Atomic Absorption Spectroscopy.

6. pH: An aqueous suspension of soil, or silt is prepared, and its pH is measured by use of a pH meter.

ii) DESCRIPTION OF TRACE ELEMENT ANOMALIES ON M.U.T. CLAIMS 1 AND 2

a) Copper

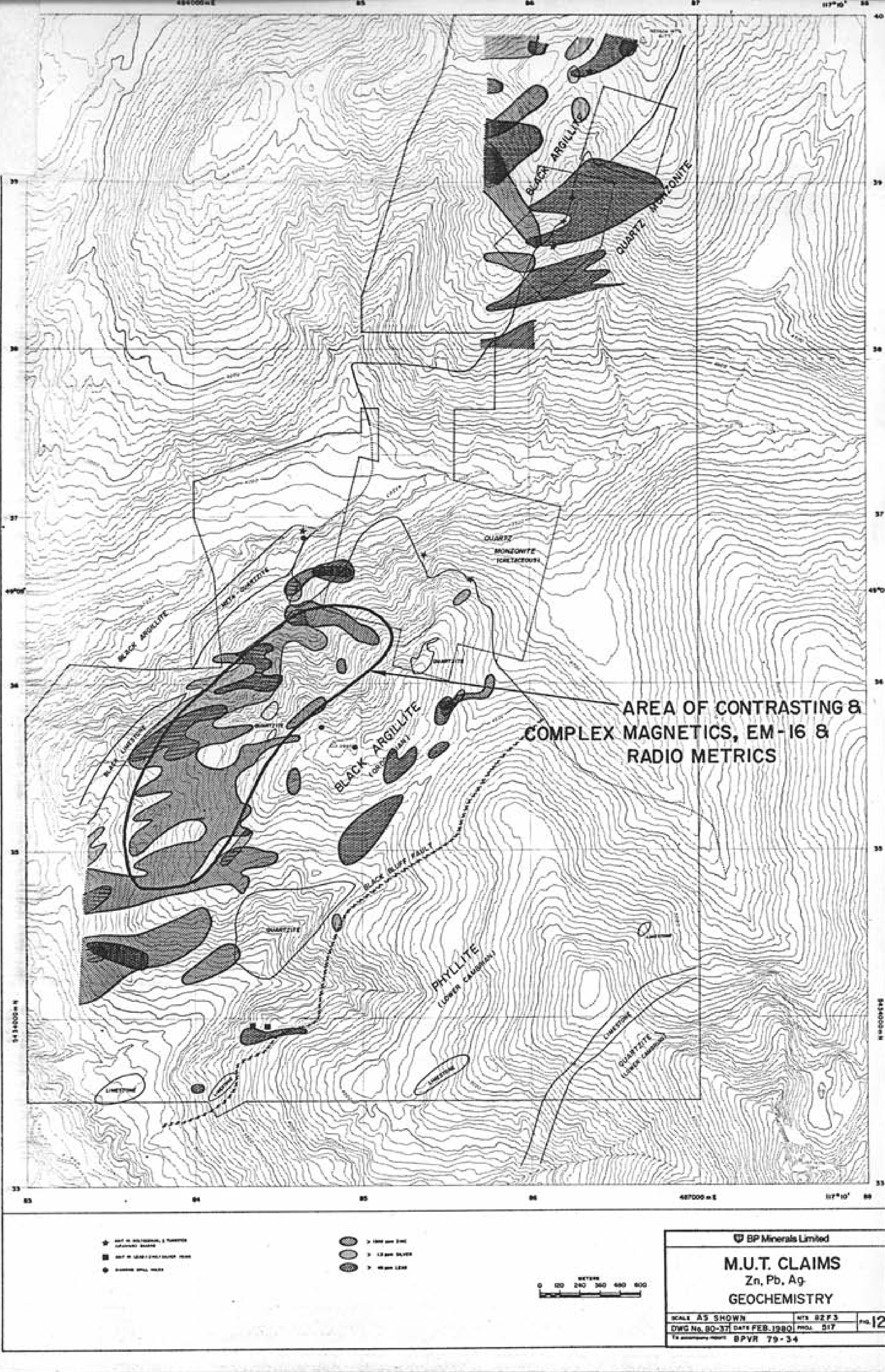
Copper backgrounds on M.U.T. 1 and 2 are higher than on M.U.T. 3-5. The fluorine-rich zones are copper anomalies, but the copper-rich zone extends to the western limit of sampling and a major anomaly lying along L10E is 1.4 km long. The eastern portion of the claims is relatively deficient in copper, particularly in areas underlain by the Lost Creek stock but also in several regions underlain by black argillite bedrock.

b) Molybdenum

Three major molybdenum anomalies can be defined, all associated with black argillite outcrop. The molybdenum anomalies are found at the margins of the fluorine-rich zones, but in areas of tungsten enrichment, in the northeast, and in the west. The third molybdenum anomaly coincides with the northwestern portion of the major copper anomaly.

c) Tungsten

The tungsten distribution defines a broad 0.5. km wide zone of erratically tungsten-rich soils which trend northeastward, parallel to the contact of the Lost Creek stock. Tungsten values range up to 185 ppm; however, only two anomalous zones are reflected by contiguous anomalous samples. These are found in areas underlain by the black argillite within the fluorine anomalies.


BLACK ARGILLITE
QUARTZ MONZONITE
QUARTZ MONZONITE (CRETACEOUS)
BLACK ARGILLITE
BLACK LIMESTONE
QUARTZITE
BLACK ARGILLITE
AREA OF CONTRASTING &
COMPLEX MAGNETICS, EM-16 &
RADIO METRICS
BLACK BLUFF FAULT
QUARTZITE
PHYLLITE
(LOWER CAMBRIAN)
LIMESTONE
QUARTZITE
LIMESTONE
LIMESTONE
487000 m E
117°10'
METERS
0 120 240 360 480 600
BP Minerals Limited
M.U.T. CLAIMS
Zn, Pb, Ag
GEOCHEMISTRY
SCALE AS SHOWN
NTS 82 F 3
FIG. 12
DWG No. 80-37
DATE FEB. 1980
PROJ. 517
BPVR 79-34

d) Fluorine

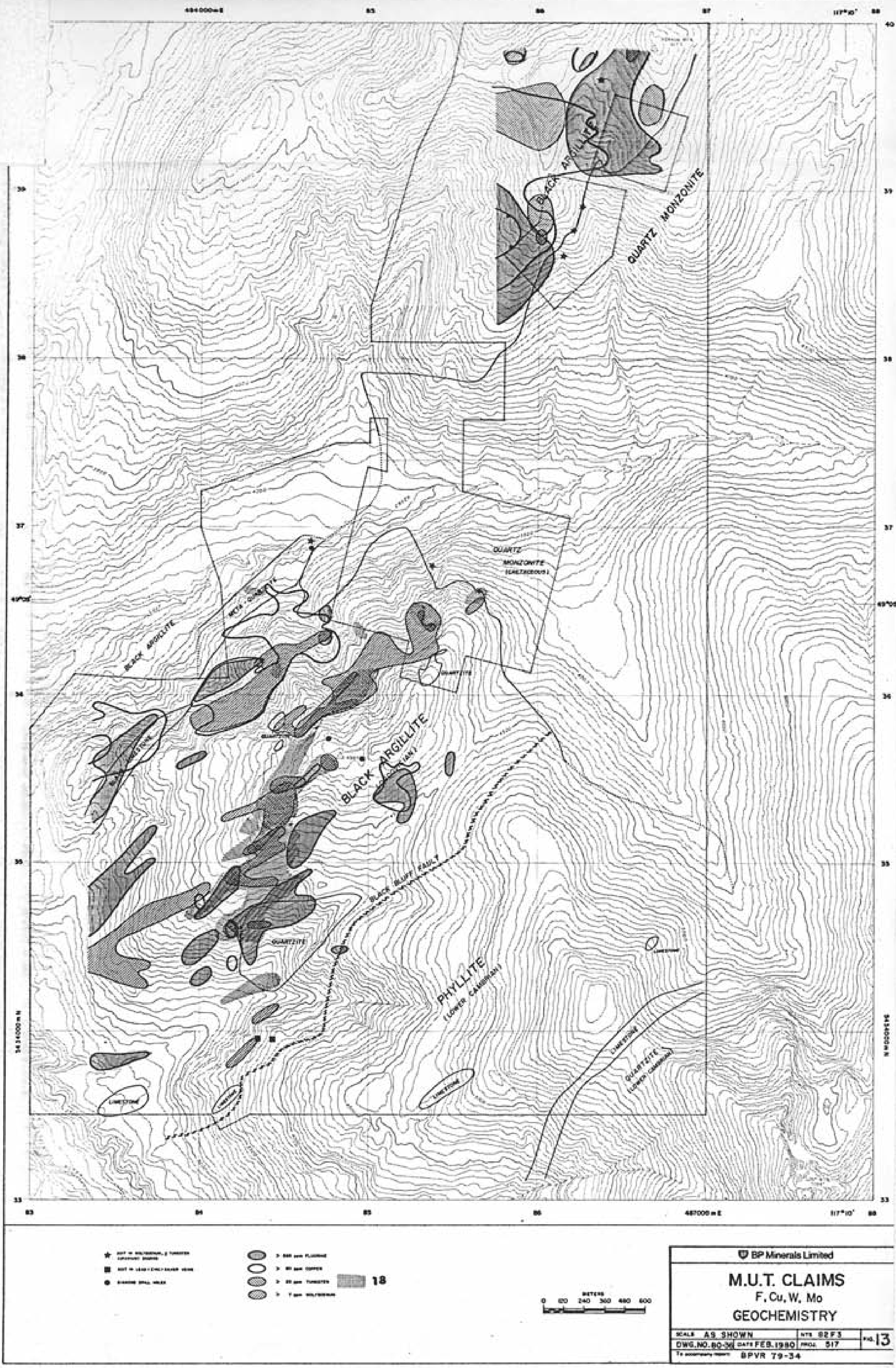
Two large fluorine anomalies can be defined, to the north and west of trenches into minor molybdenite/scheelite mineralized skarn zones. The skarns themselves are not associated with fluorine-rich soils, but this may be a reflection of limited soil sampling in proximity to the prospects. The fluorine anomalies are more homogenous than those on M.U.T. 3-5 and are well defined relative to background. Black argillite in the northwest and quartz monzonite of the Lost Creek stock are relatively poor in fluorine. Anomalies are open to the north and west.

e) Lead

The lead background levels in soils are higher than on M.U.T. 3-5. At least four major anomalous zones can be defined. The largest zone centers on the northern portion of the molybdenite/ scheelite trenches, along the granite - black argillite contact. The second prominent lead anomaly is found at the center of the main copper-rich zone along L10E. A third lead-rich zone is found in association with both intrusive and black argillite rock types at the southern end of the trenches. This anomaly apparently trends east-west, but is open to the southeast. The fourth anomaly coincides with the northern limit of the northern fluorine anomaly.

f) Zinc

Enhanced zinc levels characterize the western half of the survey area, associated with the black argillite. Zinc values are also relatively high, with numerous values exceeding 2,000 ppm.



BP Minerals Limited

M.U.T. CLAIMS

F, Cu, W, Mo

GEOCHEMISTRY

SCALE AS SHOWN		NTS 82F3	FIG. 13
DWG. NO. 80-36	DATE FEB. 1980	PROJ. 517	
To accompany report BPVR 79-34			

Zones of highest concentrations coincide with molybdenum, tungsten, copper and fluorine in the central-west anomaly, and with copper, and molybdenum in the central-northwest. Portions of both anomalies are also lead-rich. Anomalous zones are open to the west and north. A prominent anomaly cannot be defined on the eastern portion of the grid, or coincident with molybdenite/scheelite skarns.

iii) DESCRIPTION OF TRACE ELEMENT ANOMALIES ON M.U.T. CLAIMS 3,4,5,6.

a) Copper

Highest copper values are found in the northwest, associated with units of black argillite, limy black argillite, and black limestone. The northeastern limit of the copper-rich zone is marked by the intrusion of the Lost Creek stock which is notably copper-deficient.

A second zone of enhanced copper values trending in a parallel direction is found about 700 metres south. Anomalous values define three zones within the black argillite. The zones are distinct and not suggestive of lithological control. Anomaly contrast is weak.

Soils collected southeast of Black Bluff Fault are notably poor in copper and anomalous conditions cannot be outlined. The Lost Creek stock and its associated Molly Mine and other showings are not reflected by elevated copper levels.

b) Molybdenum

Two trends can be inferred from the distribution of anomalous (>7 ppm) or above average (> 5 ppm) molybdenum contents. Three major zones oriented in a northeastward direction probably reflect underlying lithologies of argillite or black argillite. Molybdenum accumulation to 40 ppm levels characterizes the black argillites in the north whereas lower values in the 10 to 20 ppm are seen in the two southernmost zones. The latter two zones are not associated with enhanced values of other elements, except lead in the west.

The center, northeastern and southwestern flanks of the tungsten anomaly are molybdenum-rich. A prominent molybdenum linear trending in a north northeastward direction can also be interpreted from the data, suggesting the possibility of a structural component to the anomaly genesis. Adits to the west of the northern end of the molybdenum anomaly and the United Verde adit in the south mark the limits of the molybdenum-rich zone.

c) Tungsten

Enhanced tungsten values ($>$ 17 ppm) define a zone 200 to 300 metres in diameter and about 2 km long trending in a north-northeastward direction, across the axes of the ridge. Contrast with background is relatively sharp and in view of the discordant relationship of the anomaly to the lithology, the anomaly would appear to have genesis consistent with structural control. The northern portion of the tungsten-rich zone trends in the same direction as the underlying bedrock units and may have a lithological component. The position of the tungsten anomaly correlates in part with the relatively numerous, albeit very minor, skarn zones in the northeast.

Tungsten values are enhanced in proximity to the Molly Mine and United Verde adit. The Lost Creek intrusion and black argillites southeast of Black Bluff Fault are tungsten-poor. The prominent copper/fluorine anomaly at the northern end of the property is tungsten-poor.

d) Fluorine

The M.U.T. claims can be divided into two parts on the basis of the soil fluorine distribution: Most high values ($>$ 860 ppm) are found on the northwestern two thirds of the claims. About a dozen anomalies are defined along northeastward trending zones which are approximately parallel to the regional strike of the underlying geology. Lithological control can be attributed to causing anomalous conditions on the northwesternmost portion of the property where a strong anomaly is found in association with black limestone bedrock.

On a larger scale, fluorine anomalies appear to define an elongated annular zone centered on 493E/497N to 498E/503N. Fluorine-rich zones are found on both sides of the axes of the hilltop ridge. Maximum dimensions are 2 km along strike and 1.5 km across strike of the argillites.

The southeastern area of the property is notably low in fluorine, In part this might be due to more extensive deposits of glacial overburden. However, areas having many outcrop exposures over portions of the region are not associated with fluorine-rich soils.

e) Silver

The silver distribution exhibits one major anomaly in the northwest which is over 350 m wide. Possible continuation of the zone can be seen in results along the westernmost grid line. The silver-rich zone coincides with the high contrast molybdenum anomaly on a portion of the large copper anomaly. Some coincidence is also evident with fluorine. The silver anomaly trends parallel to the regional geology and appears lithologically controlled.

f) Lead

Anomalous lead values define one major and three minor zones. Distribution of these zones is distinctly different from those of other elements. The largest anomaly, 200 m wide and 1.4 km long, is elongated in a northeast direction parallel to the regional geological strike. Lead levels and contrast within the anomaly are both suggestive of lithological control. Lead values reach a maximum 140 ppm near the center of the zone, conincident with a fluorine/copper anomaly.

A major lead anomaly is found in proximity of the United Verde adit. In part, contamination from old workings may be a factor. A second major anomaly is found at the north end of the baseline, along the contact of the Lost Creek pluton and black argillites. No source for the lead is known. The third anomaly is found in the extreme west, and has a lower contrast than the other anomalies. No lead source is recognized within the black argillites of the region. Several one or two point anomalies are outlined elsewhere, including south of the Black Bluff Fault. These locally enhanced lead values may be due to minor occurrences of galena in veinlets.

g) Zinc

The zinc distribution defines three major geochemical belts. Values south of Black Bluff Fault are typically less than 200 ppm. Values increase to the 275 to 1,000 ppm range in a wedged shaped zone beginning north of the United Verde adit and continuing to the Molly Mine. Isolated, relatively small anomalies can be identified within this region, particularly in proximity to the United Verde claims.

The most striking feature of the zinc distribution is the large zone of plus 1,000 ppm zinc values. The zone is over 3 km long, terminated by the Lost Creek granite in the northeast, and is open to the west. Average anomaly width is 1 km. The zone trends across the regional strike of the lithologies, suggesting structural control. Within the zone, numerous samples grade in excess of 2,000 ppm zinc. The maximum zinc content is 5,900 ppm.

An outstanding feature of the zinc distribution is the fact that the center of the anomaly is found in an area where other base metals are not enhanced to anomalous levels. The southeastern margin terminates along the tungsten/molybdenum linear. The northern margin coincides with the northernmost molybdenum anomaly and is not found in association with black limestone or black limy argillite. In view of the fact the zinc anomaly crosscuts topography and lithology, a structural origin is suspected. Moreover, bedrock chip samples analyzed thus far are not zinc-rich, indicating either that the source of the zinc has not been sampled or that possible zinc sulphides along fractures have not been recognized.

iv) DESCRIPTION OF RESULTS

Soils on the M.U.T. claims have formed as a consequence of the residual weathering of local bedrock units. Because of the predominence of steep slopes, significant downslope dispersion of metal-rich overburden is likely over restricted areas. Glacial deposits are absent except to the southeast, near the Black Bluff fault.

Soil anomalies are interpreted to be direct indicators of underlying metal-rich units, perhaps displaced downslope of their source by talus fan formation and solifluction. Residual weathering has probably promoted the extensive leaching of surficial deposits and absolute metal concentrations in soils are expected to be reduced somewhat from their original concentrations in bedrock prior to weathering. Consequently, absolute metal levels in soils are not directly comparable to metal contents of primary halos reported in the literature for porphyry molybdenum deposits. Nevertheless, the soil values represent indicators of what might lie beneath in unweathered rock. Enrichment factors in the latter environment will not become available until a drill program is concluded and data are collected.

Patterns of zoning of geochemical distributions are evident both in the Molly Mine - United Verde area (M.U.T. 3-5) and on Nevada Mountain (M.U.T. 1-2). The zonations on M.U.T. 3-5 probably have some degree of lithological control which results in the elongation of anomalies along a northeastward trend. However, geochemical anomalies are not only restricted to specific lithological units and many metal-rich zones terminate either in the northeast or the southwest, despite continuation of the regional strata. On Nevada Mountain, metal levels are enhanced primarily in association with black argillite bedrock and not with the Lost Creek stock. In both areas, the Lost Creek stock is typically metal deficient relative to the country rocks. Metal enrichments and zonations in the latter units are not obviously related to the intrusion of the now exposed portion of the stock.

Distribution of fluorine and copper on the M.U.T. 3-5 claims can be interpreted to have a roughly elongated annular shape. Fluorine accumulation is stronger in the south, whereas by contrast copper enrichment is stronger in the north. Zones are not completely continuous, but this is to be expected in areas known to be underlain by highly foliated rocks, which act as heterogeneous units to hydrothermal solutions. In order to form strong geochemical anomalies across regional lithological strikes, intense fracturing is required. The fracturing probably will not be uniform because of inherent differences in rock strengths of individual units: hence a series of discontinuous geochemical anomalies. Nevertheless, on M.U.T. 3-5 the annular copper/fluorine anomaly is relatively strong and relatively large (1.5 km x 2.0 km). Anomalous fluorine levels are in the order of 800 to 1500 ppm in the soils. An outer discontinuous halo of isolated Pb-rich soils is found outside of the copper/fluorine zone and constitutes the most distal of the metal zones. However, lead anomalies may be only lithologically controlled.

Tungsten forms a prominent linear anomalous zone cutting regional lithological strike and topographic grain across the south-central portion of the copper/fluorine anomaly. The zone is marked by numerous minor skarn zones in the north and is probably reflecting a structural control. Molybdenum enrichment coincides with the tungsten trend, but has a distribution characterized by a series of anomalies rather than a continuous metal-rich zone as was the case for tungsten. The strongest molybdenum anomaly is displaced from the tungsten linear and is associated with silver enrichment. Values are in the 20-40 ppm range. Some lithological control is inferred from the elongated shape of some of the molybdenum-silver-rich areas, possibly reflecting deposition of metals introduced along structures but dispersed along bedding planes. The molybdenum anomaly also displays a partial annular shape absent only in the west, and lies within the copper/fluorine zone. Molybdenum enrichment, however, is in the 5 to 7 ppm range and is the weakest of the metal anomalies.

The most outstanding distribution of the geochemical survey is featured by zinc where metal levels are exceptionally high, many samples exceeding 2000 ppm. Zinc enhancement characterizes the center of the fluorine/copper anomaly, overlapping it somewhat. Enrichment of other elements over the center of the zinc anomaly is notably lacking, a feature to be expected if the zinc anomalies were reflecting high backgrounds in black argillite units. The zinc anomaly is confined within relatively sharp boundaries which cut across the regional strike, parallel to the trend of the tungsten/molybdenum zone, which marks its southern boundary, but displaced to the northwest. Structural control of the anomaly is indicated, particularly in view of the absence of zinc-rich rock chips of any of the rock types sampled.

The Nevada Mountain study is more limited in scope, and anomalous conditions are not completely defined. Nevertheless, zonation of the trace element distribution is again evident, primarily within areas underlain by black argillite lying to the west of the Lost Creek Stock. Zonation patterns are slightly different from those described on M.U.T.3-5. Two prominent fluorine anomalies are associated with minor tungsten anomalies and zones of copper enrichment. Copper background levels generally are higher than M.U.T. 3-5 and the center of the copper anomaly is open to the west and north of the fluorine zone. Tungsten enhancement is not as prominent as that described on M.U.T. 3-5.

Molybdenum anomalies are also not fully outlined. They surround fluorine-rich zones. In places they coincide with zinc and/or lead anomalies, but not in a systematic fashion. Lead-rich areas are more numerous than on M.U.T. 3-5 with the largest anomaly associated with the quartz monzonite intrusion. Prominent lead anomalies are also found associated with black argillite bedrock. Zinc values are still very high on this portion of the claims, reaching 2000 ppm levels in places, though anomalies are not as large as those of M.U.T. 3-5.

The geochemical patterns in soils on the M.U.T. claims are strongly suggestive of hydrothermal remobilization caused by an intrusion at depth. The zonation pattern is characterized by a fluorine/copper coincident metal-rich zone, in turn followed by a molybdenum and finally a zinc-rich zone. The distribution of molybdenum and tungsten are also suggestive of structural control which may have resulted in the telescoping of the metal from depth onto other metal halos, such as the copper, fluorine and zinc.

The zinc enrichment is the strongest of any element with levels in the residual soils comparable to what is observed in bedrock at Climax and Henderson. The zinc levels are so high that the possibility of a zinc/lead/silver strata related deposit might be investigated if the zinc anomaly is not due to a molybdenum system. Topographically below the zinc halo is one for molybdenum. Highest molybdenum values are found in the north and are coincident with a prominent silver anomaly. Molybdenum levels are relatively low at the 10-40 ppm level, except in adit dumps where values can exceed 500 ppm. Molybdenum concentrations encountered by Benson Mines in drill holes, over narrow intervals can exceed 1500 ppm molybdenum.

Below the molybdenum halo is a zone of copper und fluorine enrichment. Possibly the two coincident halos lie along axes having different vertical slopes: the fluorine is enhanced in the south and copper enhanced in the north. Lead may form an outer halo still, although its erratic nature may be indicating minor galena veins, skarns or possible lithological control.

The preceeding description deals only with geochemical parameters. The geological map is not enlightening on the above trends. Intrusive rocks, even dikes, are unknown. Rock alteration of the type associated with a porphyry molybdenum has not been noted. The absence of standard alteration sequence might be due to the introduction of the hydrothermal solutions on a heterogeneous suite of metamorphosed sedimentary rocks rather than on granitic intrusive units. A followup program to search for explanations to the geochemical anomalies, and at the same time re-examined outcrops in anomalous areas for features such as silicification and fracturing, should be mounted to prospect and explain the anomalies. Trenching may be required to expose enough bedrock for this evaluation.

Distributions on Nevada Mountain are interesting, but insufficient sampling has been undertaken in order to appreciate the zoning patterns.

A major effort is required in this area to acquire the basic survey information. Geological prospecting along presently available lines may guide work by explaining existing zinc, fluorine, lead and other metal anomalies.

v) RECOMMENDATIONS

(1) Two additional soil traverses are required in the west, spaced at 150 metre line intervals, to run the length of the existing grid. Samples from the top of the "B" soil horizon are to be collected at a 100 metre spacing.

(2) Existing anomalies are to be ground checked by geological prospecting techniques. The source of the zinc is of particular concern. Available outcrops should be chip sampled and geologically mapped and lithotequed. The current interpretation for the zinc anomaly is that it is structurally (i.e. fracture) controlled. This should be verified by field examination.

(3) Similar prospecting techniques could be applied to the tungsten anomaly, although low levels of the element in soils (to 50 ppm) might make the undertaking difficult. Examination of the copper, molybdenum, lead and fluorine anomalies are also recommended, although the prospects for finding readily visible evidence in the field is not thought good. Collection of rock samples for thin section study is suggested.

(4) The overall geochemical zoning picture on the M.U.T. 3-5 claims suggests the possibility of a buried porphyry molybdenum system underlying the center of the property. Geological features to be expected under these conditions include the presence of a siliceous core (perhaps reflected by prominent skarns as the quartz in solution reacts with the limestone,

perhaps near the copper-radiometric anomaly). Radial fracturing is also to be expected to explain the annular anomalies. Both these features should be ground checked. The existence of intrusive dikes, which is also to be expected, was not recorded during the initial property evaluation.

(5) Poor outcrop exposure suggests that the questions posed by recommendations (2) to (4) will not be answered fully without trenching. The trenches should be oriented to crosscut the copper/fluorine and tungsten and zinc anomalies at at least two or three positions, along north-south lines.

(6) Two or three orientation SP lines should be run in proximity to proposed trenches to determine if significant sulphides are present within 50 metres of surface. A positive response would promote the recommendation for a full IP survey.

(7) Studies on Nevada Mountain require continued grid soil sampling at a 100 metre interval along lines no further apart than 150 metres. Prospecting near anomalies along existing lines may help further mapping by highlighting mineral controls causing already defined anomalies.

(8) The silver soil anomaly exhibits great continuity and size. Its source in bedrock is unknown. If leaching during formation of the residual soils is a significant factor, silver values, perhaps of ore grade, might be locatable in underlying bedrock. A continuous channel chip sampling program at 3 metre intervals across areas of good bedrock exposure is recommended to test the silver anomaly.

(9) A diamond drill hole can be positioned to test coincident geochemical anomaly halos along the proposed trend of the heat source for the

metal halos. The target zone is large, and drill site position can be determined by logistical as well as geochemical features.

vi) SUMMARY

A grid soil sampling program was completed as part of the evaluation of the molybdenum potential of the M.U.T. claims. Significant geochemical anomalies were defined on the basis of that work, the more outstanding of which were for zinc and silver. The preponderance of residual overburden in the area of interest suggests that the soil anomalies are direct reflections of metal-rich zones in bedrock. The amount of concentration or depletion of metal levels in soils, however, relative to bedrock is unknown at this time.

The zinc anomaly appears central to an annular distribution of enhanced fluorine, copper and perhaps molybdenum and lead concentrations. The zonation patterns suggest a degree of complexity which is not evident in the geological map but is reflected in the magnetic and VLF-EM data. Components of the molybdenum distribution and tungsten anomaly appear controlled by a fault which bounds the other geochemical anomalies in the southeast. Highest levels of molybdenum, silver and copper coincide with a total count radiometric anomaly within the zone of complexity.

Trace element distributions in soils are suggestive of a redistribution of metals in bedrock caused by a heat source at depth. Although evidence for explosive activity initiated by this heat source and normally associated with porphyry molybdenum deposits has not been documented, extensive soil development may be an important factor concealing such evidence. The geochemical anomalies are very large, in excess of 1 km in diameter, and suggest the potential target is also large. Therefore one deep diamond drill hole is recommended to test the anomalous conditions. It is expected that the cause of the metal zonation patterns will become apparent approaching the source at depth. Further work is contingent of results of the first hole.

6. GEOPHYSICAL REPORT (See Figures 14-17)

i) INSTRUMENT SPECIFICATIONS:

a) Magnetometer: The magnetometer used to complete the M.U.T. claims 3-6 survey, was a direct reading, McPhar M700, flux-gate magnetometer, serial number 6931. This instrument measures variations in the vertical component of the earth's magnetic field to a resolution of ± 10 gammas, on the most sensitive scale. The magnetometer has a graduated meter-dial readout with a 5 scale selection from 100 to 100,000 gammas. Levelling of the unit is by a "bulls-eye" bubble located below the readout meter. The McPhar 700 weighs approximately 5 kg and has dimensions of 22 x 10 x 26 cm. The instrument was rented from Phoenix Geophysics, 885 Dunsmuir Street, Vancouver, B.C.

b) V.L.F. E.M.-16 Unit: The receiver unit in the E.M.-16 method measures the "in phase" and "quad phase" (out phase) components of vertical magnetic field, as a percentage of horizontal primary field. The instument has a sensitivity of ± 150% on the in phase and ± 40% on the quad phase readout, to a resolution of ± 1%. Operational frequency is in the 15-25 kHz V.L.F. radio band and station selection is accomplished with plug in crystals. Signal output is an audible tone and in phase - quad phase components are determined by selective nullings of the tone. The in phase readout is from a mechanical inclinometer while quad phase is read from a graduated dial. The unit has a weight of 1.6 kg and dimensions of 42 x 14 x 9 cm.

The E.M.-16 unit is manufactured and leased by Geonics Limited, 1745 Meyerside Drive, Unit 8, Mississauga, Ontario, Canada, L5T 1C5.

c) Gamma Scintillation Ratemeter: The ratemeter employed in the survey was a Rand-Type 1597A, serial number 645 manufactured by Elliot Process Instruments Ltd. The instrument measures total incident gamma radiation by means of scintillation detector. A meter-dial provides direct readout, with a sensitivity of 3,000 uR/Hr (micro Roentgens per hour) and a resolution of ± 2 uR/Hr on the most sensitive scale. Three scales of sensitivity are provided - 30, 300 and 3,000 uR/Hr. An attached speaker provides audio monitoring of scintillation rates. The unit weighs 2 kg and has dimensions of 5.5 x 22 x 14 cm.

ii) SURVEY SPECIFICATIONS & METHODOLOGY:

The ground magnetometer, E.M.-16 and radiometric surveys were carried out on 53 km of compass-chain, slope-corrected grid lines, on M.U.T. claims 3-6. The grid comprises 43.4 km of cut line and 9.6 km of topofil line. The lines trend due north-south and are spaced 150 m apart from line 485^E to 503^E then every 300 m to 512E and 600 m to 518^E. The station interval on all lines, including transited base line 500^N and tie line 480^N, is 50 m.

a) Ground Magnetometer Survey: A base station was established near 500^N 500^E on the grid. After a brief orientation survey, the base was assigned an arbitrary value of 0 gammas. The instrument was "rezeroed" each day at the base station before beginning traverses. Survey traverses were conducted in loop configurations and check readings were made at previously established, temporary base stations at approximately 3 hour intervals. Corrections for diurnal variations of the earth's magnetic field were made to the data knowing the check readings on tying-in temporary base stations. Diurnal variations were found to be on the order of 0-5 gammas each 3 hour interval.

Measurements were made at each station with the operator and magnetometer facing north and the instrument levelled.

b) E.M.-16 Survey: The receiver was tuned to the V.L.F. transmitter located in Seattle, Washington - station NLK at 121^{o} 55' West Longitude, 48^{o} 12' North Latitude which broadcasts at 18.6 k Hz with radiated power of 300 kilowatts. All lines were surveyed using this station except lines 498.5^{E} and 500^{E} from 480^{N} to 514^{N}, which were tuned to Cutler, Maine-Station NAA at 67^{o} 17' West Longitude and 44^{o} 39' North Latitude, broadcasting at 17.8 kHz with a radiated power of 1,000 kilo watts. The choice of Seattle as the transmitter station was dictated by the local strike of geological structure, which subparallels the direction to the transmitter from the M.U.T. claims. The object of this exercise is to have the magnetic field from the station, (at right angles to the direction of the station) at approximately right angles to the main strike of the ore bodies or geological structure of the survey area.

All readings were made with the operator facing north along the north-south survey lines. To take a reading at each survey station, the operator first assured that the receiver was tuned to station NLK, faced north on the lines and adjusted the volume control for comfortable listening. To take the in-phase readings, the instrument was swung back and forth in the vertical plane to a position of minimum sound intensity At this position, the quadrature dial was adjusted to further minimize or "null" the sound. When minimum signal strength was achieved on both adjustments, the inclinometer (in phase) and quadrature (out of phase) readings were recorded.

The instrument is calibrated so that, when approaching the conductor, the inclinometer angles are positive, in the in-phase component.

c) Gamma Scintillation Ratemeter: The scintillometer survey was conducted by assistants during routine geochemical sampling. After a soil sample hole of 12 to 24 cms depth had been excavated the ratemeter was held level at the top of the sample hole and an average reading recorded. An erratic background count of 10 u R/Hr variable to 14 u R/Hr was recorded on the southern portion of the claims area. The erratic motion of the meter needle was noted and a "mean" value arbitrarily selected for the station reading.

iii) GEOPHYSICAL THEORY:

a) Magnetometer Survey: The magnetism of all rocks is controlled by their content of ferromagnetic materials; that is, substances possessing a relatively high susceptibility and capable of acquiring permanent magnetization. Intrusions often have associated hydrothermal alteration zones in which ferromagnetic minerals, predominantly magnitite, may be redistributed in such a way that the altered zone is characterized by a distinctive magnetic signature. Variations in magnetic contrast may also be due to changes in lithology, topographic thinning or thickening of homogeneous lithology, changes in basement lithologies, magnetic skarns, structure, ore, etc. Highly sheared or fractured zones (faults) generally have a high porosity for groundwater movement, resulting in leaching of ferromagnetic minerals and therefore, a "low" generally linear, magnetic signature.

b) E.M.-16 Survey: The V.L.F. E.M.-16 is a passive method of measuring secondary fields generated by conducting bodies in the ground, when subjected to a primary electromagnetic (E.M.) signal. In the E.M.-16 system, the primary E.M. signal is generated by powerful military transmitters (shore to submarine), broadcasting in the 15 to 25 kHz radio band, from fixed locations on the earth.

The E.M.-16 field unit is a receiver which picks up the vertical magnetic component of the transmitted E.M. signal. The magnetic signal component carries the bulk of signal energy beneath the ground surface and is distorted by attenuation (weakening of signal strength = $\alpha = .29\sqrt{\sigma}$ nepers/metre) and phase shift ($\phi = -.29\sqrt{\sigma}$ radians/metre). The conductivity of a rock medium is equal to 10^{-3} mho/metre in relatively nonconductive rock. Attenuation cannot be overcome and is a limiting factor in the use of the V.L.F. method in conductive country rock or overburden. Secondary fields, generated by buried conductors are further attenuated in their vertical passage to the receiver.

Transmitter stations have vertical antennae, thus antennae current is vertical, creating a concentric, horizontal magnetic field around them. This field travelling through the ground, will encounter conductive areas which generate and radiate secondary fields.

A vertically and a horizontally oriented receiver coil are built into the E.M.-16 receiver. Signal input from the vertical (signal) coil is minimized by tilting the instrument; the angle of tilt is calibrated in percentage. Remaining signal from the vertical coil is balanced by a measured percentage of signal from the horizontal (reference) coil (after a 90^{0} phase shift) which is parallel to the primary field.

Where secondary signals are small compared to the primary horizontal field, the angle of tilt of the instrument is an accurate measurement of the vertical real-component. The compensating 90^{0} shifted signal from the horizontal coil, is a measure of the quadrature vertical signal.

A more complete explanation of E.M. theory is outlined in the following reference paper: Patterson, N.R. and Ronka, V.; 1971: Five Years of Surveying with the V.L.F. E.M. Method; Geoexplanation, v.9, pp. 7-26.

iv) INTERPRETATION

1

a) Interpretation of Ground Magnetic and E.M.-16 Data: (See Figure 16).

DISCUSSION OF RESULTS

The ground magnetic intensity trends and EM-16 indicated conductors have been presented on a composite interpretation map.

The magnetic data located a series of small, pronounced dipole magnetic highs which appear to form a "C" shaped anomaly around an area of low magnetic intensities in the southeastern area of the survey grid. The sharp dipole anomalies would suggest the presence of pyrrhotite mineralization. The EM-16 inphase and quadrature profiles were carefully studied and the resulting conductor trends drawn on the interpretation map. The EM-16 is sensitive to small changes in conductivity. Thus, only the variations considered significant were plotted. The intensity of the EM-16 data would suggest a sedimentary environment bearing graphite. The conductors show definite trends which likely reflect the structure of the lithology. Both the magnetic and electromagnetic data suggest a large fold structure. The magnetic data is only of moderate intensity and is not suggestive of a skarn environment. (The exception is the very strong response in the extreme southeast corner of the grid.) Thus, the weak magnetic patterns likely reflect chemical changes in the ferrous minerals during compression and folding. This would suggest that this zone, even though it may appear similar superficially, may be chemically different.

The EM-16 conductors are of varying intensities and would appear to relate to near surface features. Thus, these trends can readily be evaluated by correlation with any geochemical data.

Respectfully submitted,

Glen E. White, B.Sc., P. Eng.
Consulting Geophysicist

b) Radiometric Survey Data: (See Figure 17) Radiometric survey data ranged from a low of 8 uR/Hr to a high of 45 uR/Hr over the whole of the M.U.T. claims area. Check readings over unaltered argillite and phyllite bedrock indicate erratic values in the order of 12-17 uR/Hr. Low but variable readings over much of the area southeast of M.U.T. Hill are probably indicating significant overburden cover.

Outcrop of medium-grained granite on the M.U.T., Molly and Jumbo claims indicate erratic high readings from 25 to 35 uR/Hr. In certain contact skarns and adjacent fine-grained granite outcrop, readings up to 75 uR/Hr were obtained. These higher values probably reflect higher concentrations of potassium (^{40}K-potassium isotope) in the contact zones.

Using the above objective data to evaluate the radiometric survey, some conclusions can be drawn from the data base:-

1) The zones of markedly higher radiometric values on the northwest slope of M.U.T. Hill, on the Jumbo claims and Molly claims in part reflect a relative paucity of mantling overburden and the effect of instrument levelling error which tend to produce somewhat higher readings over steep terrain.

2) Readings are substantially higher in close proximity to known outcrop of granite intrusion.

3) The main zone of high readings on the northwest slope of M.U.T. Hill, centred on line 495.5^{E}, 495.5^{N} and on the M.U.T. 1 and 2 and Molly claims occurs in areas of altered and unaltered argillite, quartzite and limy argillite. The higher readings apparently reflect relative proximity to an underlying granitic body and most definitely, areas of potassic

alteration, where exposed in narrow skarn zones.

4) The erratic high readings in the order of 20-25 uR/Hr, in the southern half of M.U.T. claims 5 and 6, may reflect narrow zones of potassic alteration such as those exposed at the 1% Wo_3 showing.

5) Assuming that anomalous radiometric values are caused by radioactive minerals such as ^{40}K originating in the granite, then there is a strong suggestion that the Lost Creek stock or a satellite plug, underlies the area of M.U.T. Hill. The intrusion intersected in diamond drill holes 77-1 and 78-2 therefore may well connect with granite at the M.U.T. Adit and Molly Mine.

7. SUMMARY CONCLUSIONS:

The 1979 program of geological mapping, geochemical sampling and geophysical survey has produced additional evidence of an intrusion buried beneath M.U.T. Hill. A major, new area of interest is indicated west and north of the 1978 drill camp.

The area of geological interest is centered near line 495.5E, 501N. It is sub-concentric in shape, with a radius of 500 to 600 m and includes a few northeastward trending, quartz-pyroxene, biotite and calc-silicate hornfels zones. Three of the hornfels zones contain small, "high grade" scheelite occurrences, with associated polymetallic quartz veins. The area contains numerous narrow quartz-actinolite-tremolite $\pm$ scheelite skarn bands, a visibly higher density of fracturing and prominent limonite and jarosite on fractures, cleavage and shears. Thermal alteration and associated mineral occurrences follow northeast striking "secondary" structures which dip at angles greater 55^{o} to the southeast.

The area encompasses much of a radiometric anomaly which trends northeastward from line 488E, 500N, into the granite on Lost Creek. It is also near the center of a "C" shaped, ground magnetic high which overlies the northwestern brow of M.U.T. Hill.

Perpheral to this area but overlapping on the west and northwest boundary is a large annular shaped zone, containing soils markedly enriched in zinc, flourine, copper and less obviously molybdenum and lead (see Figures 12 and 13). Anomalous zinc values delineate the center of the geochemical zonation pattern.

The highest levels of molybdenum, silver and copper coincide with a total count radiometric anomaly in the area of complexity. The radiometric anomaly is thought to reflect secondary potassium in the rocks, introduced by hydrothermal solutions. The distribution of trace elements in soils suggests redistribution of metals in bedrock due to a heat source at depth. A strong linear component in the anomaly shape is due to known structural control.

The zinc and silver geochemistry returned values so high that they suggest the possibility of a stratabound or replacement lead-zinc-silver deposit in the anomaly area. Further work is recommended to define the source of the anomalies.

The evidence seems well established that a heat pump lies at depth beneath M.U.T. Hill. The question remains whether the heat pump is a separate, productive molybdenum porphyry system, or a continuation of the Lost Creek stock under M.U.T. Hill. The lack of geological signatures of porphyry molybdenum mineralization, such as; multiple intrusions, dyking, breccias, porphyry alteration and quartz-MoS_2 mineralization should be telling here. The author presents a case, built on indirect evidence, for the latter scenario and suggests that Molly Mine - type mineralization may underlie aplitic cap rock intersected in drill holes 77-1 and 78-3. Drilling beneath the aplite is suggested to indicate if the intrusion is: a) merely a local dyke, b) the top of a cupola to the Lost Creek stock, c) the barren siliceous core cap of a "porphyry" molybdenum system or d) barren cap rock concealing Molly Mine type mineralization.

The author concludes that skarn tungsten is not an economic target in the bulk of the argillites on the M.U.T. claims. The target may occur in the calcareous units along Lost Creek where they form structural traps, in contact with the intrusion beneath M.U.T. Hill.

8. RECOMMENDATIONS:

a) Geological prospecting including continuous chip sampling of outcrop over 3m interbeds is recommeded for prominent geochemical anomalies. The source of zinc and silver anomalies is of particular interest as they may target stratabound lead-zinc-silver mineralization. Trenching is recommended in the area of 491E, 501N to explore zinc-silver-copper-fluorine anomalies and along line 501.5E south of the baseline, to open up an area of lead-fluorine enhanced soils.

b) Geological prospecting of narrow, linear magnetic highs, in areas with geochemical support, is recommended to assess potential pyrrhotite (magnetite) skarn mineralization.

c) Addition geochemical sampling is recommended for Nevada Mountain. Sampling should continue at an interval of 100m on lines spaced 150m apart. Further geological mapping is needed and prospecting of known anomalies is recommended to define mineralizing controls. Ground magnetometer and radiometric surveys should be continued. The target here would be stratabound, replacement lead-zinc-silver mineralization.

d) Two additional soil traverses are required on lines 482E and 483.5E from 480N to 506N at a spacing 100m, to ensure that the geochemical anomalis closed to the west.

e) Four lines of orientation SP should be run in the areas of proposed trenching to determine if significant sulphides are present within 50 metres of the surface. Contingent on positive results in this survey, and of prospecting and trenching, an I.P survey would be recommended.

f) A 250m drill hole is recommended in the area of 491E, 501N to test coincident geochemical anomaly halos. The hole is contingent on results of prospecting and trenching of the anomaly. The site is close to the existing property access road.

g) A drill hole is recommended between existing drill holes 77-1 and 78-3 at approximately 500E, 501N inclined 75^{o} northwest. The hole is sited to redrill the aplite intersected in previous drilling, to investigate the nature of the underlying intrusion and molybdenite mineralization - if any. This hole is drilled on the basis of geological indications of possible porphyry or Molly Mine type mineralization and has no geochemical support at surface. The site has an advantage of easy access and nearby accommodation in the 1978 drill camp.

APPENDIX 1

References

REFERENCES

1. Fyles, J.T. and Hewlett; C.G. 1959.

"Stratigraphy and Structure of the Salmo - Lead Zinc Area", British Columbia Department of Mines, Bulletin No. 41.

2. Little, H.W.; 1950.

"Salmo Map Area , British Columbia", Geological Survey of Canada, Economic Geology Series No. 17.

3. Little, H.W.; 1959.

"Tungsten Deposits of Canada", Geological Survey of Canada, Economic Geology Series No. 17.

4. Poloni, J.R.; 1978

"Summary Report on the Exploration Activities, 1978, M.U.T. (1-16) Group of Minerals Claims" for Benson Mines Ltd.

5. Ramalingaswamy, V.M.; 1978

"Report on Geological Physical and Drilling Work, M.U.T. Claims Group, Salmo, B.C.".

6. Vokes, F.M.; 1963.

"Molybdenum Deposits of Canada", Geological Survey of Canada, Economic Geology Report No. 20.

APPENDIX 2

Statement of Certification

STATEMENT OF QUALIFICATIONS

I, Michael D. Bradley of #1007-1111 West Hastings Street, in Vancouver, in the Province of British Columbia, Do Hereby State:

1. That I am a graduate of the University of British Columbia, Vancouver, B.C., where I obtained a B.Sc. degree in Physics-Geology in 1973.
2. That I obtained an M.Sc. degree in 1975 from Scripps Institute of Oceanography, La Jolla, California.
3. That I am a member in good standing of The Canadian Institute of Mining and Metallurgy and the Prospectors and Developers Association.
4. That I have been active in mineral exploration since 1968.
5. That I have practiced my profession continuously as a staff geologist for BP Minerals Limited, since 1975

August 28, 1979
Vancouver, B.C.

Michael D. Bradley
BP Geologist

List of Qualifications - S.J. Hoffman

BSc 1969 - McGill University (Hons Geology and Chemistry)

MSc 1972 - The University of British Columbia (Geochemistry)

PhD 1976 - The University of British Columbia (Geochemistry)

List of Publications

1. Hoffman, S.J., 1972

   Geochemical dispersion in bedrock and glacial overburden around a copper property in south central British Columbia.
   MSc thesis, unpublished, U.B.C., 209 pp.

2. Hoffman, S.J. and Fletcher, W.K., 1972

   Distribution of copper at the Dansey-Rayfield River property, south central British Columbia.
   J. Geoch. Expl. 1, 163-180.

3. Hoffman, S.J. and Waskett-Myers, M.J., 1974

   Determination of molybdenum in soils and sediments with a modified zinc dithiol procedure.
   J. Geoch. Expl. 3, 61-66.

4. Hoffman, S.J., 1974

   Pebble Cards - A record of the coarse fraction of stream sediments for geochemical exploration.
   J. Geoch. Expl. 3, 387-388.

5. Hoffman, S.J. and Fletcher, W.K., 1976

   Reconnaissance lake sediment geochemistry over the Nechako Plateau, B.C.
   In press, J. Geoch. Expl.

6. Hoffman, S.J., 1977

   Talus fine sampling as a regional geochemical exploration technique in mountainous regions.
   J. Geoch. Expl. 1, 349-360.

7. Hoffman, S.J., Arnold, P.M. and Zink, E.W., 1976

   Rapid field determination of copper by anodic stripping voltammetry (ASV).
   In press, Encyclopedia of Earth Sciences

8. Hoffman, S.J., 1976

Lake sediment geochemistry.
In press, Encyclopedia of Earth Sciences.

9. Hoffman, S.J. and Fletcher, W.K., 1976

Detailed lake sediment sampling of anomalous lakes on the Nechako Plateau, central British Columbia - Comparison of trace metal distributions in Capoose and Fish Lakes.
In preparation.

10. Hoffman, S.J. and Fletcher, W.K., 1976

Sequential extraction of copper, zinc, iron, manganese and molybdenum from lake sediments.
In preparation.

APPENDIX 3

Statement of Costs

APPORTIONED COSTS TO MUT CLAIMS 1 & 4 (GROUP A)

1) LABOUR COSTS:

			Total Cost	Apportioned Cost
M. Bradley (Proj. Geol.)	May 1-12,14-16,22-31; June 1-30; July 1-13, 15-19	= 73 days @ $110/day	$ 8,030.00	
W. Clark (Geol.):	May 1-31; June 1-30; July 1-19	= 80 days @ $95/day	7,600.00	
A. Fyfe (Asst.):	May 9-14,25,26	= 8 days @ $60/day	480.00	
J. Gravel (Asst.):	May 12-26; Sept. 12,13	= 17 days @ $78/day	1,343.00	
S. Hoffman (Geochemist):	May 24-26,	= 3 days @ $135/day	405.00	
N. Humphrey (Geol.):	May 25,26; Sept. 12,13	= 4 days @ $85/day	340.00	
J. Lemay (Asst.):	May 8-31; June 1-30; July 1-19; Aug. 14	= 74 days @ $55/day	4,070.00	
N. McGary (Asst.):	May 7-31; June 1-30, July 1-19	= 74 days @ $55/day	4,070.00	
C. Macrae (Asst.):	May 25,26	= 2 days @ $65/day	130.00	
R. Wong (Geol.):	May 25,26; Sept. 12,13,	= 4 days @ $105/day	420.00	
			$26,888.00	
	Apportioned Cost = $26,888.00 x 19.6 line km/60.57 line km =			8,701.00

2) CONTRACTORS:

			Total Cost	Apportioned Cost
a) Line Cutting	(AMEX EXPLORATION SERVICES):	11.3 km x $313.66/line km.		3,544.00
b) Baseline Survey	(R. STROTHERS & ASSOCIATES):	1.0 km x $3,241.90/3.3 km.		982.00
c) Bulldozer	(PINETREE LOGGING CO. LTD.):	KOMATZUE DOZER: 6.75 hrs. x $53.50/hr. =	178.75	
		Mob. & Demob.	361.14	
			539.89	
	Apportioned Cost $539.89 x 26 units / 84 units =			167.00
d) Drafting	(L. GLASER):	Production of base maps 102 hrs. x $9/hr.	918.00	
	Apportioned Costs: $918.00 x 26 units/84 units			284.00
e) Geophysical Consulting	(V. RONKA):	$150.00 x 26 units/84 units		46.00

				Total Cost	Apportioned Cost
f)	Property Consultant	(I. SUTHERLAND) 1.5 days x $125.00/day	=	$ 187.00	
		Apportioned Costs: $187.00 x 26 units/84 units			$ 58.00
3)	TRANSPORTATION & TRAVEL				
a)	REDHAWK RENTALS	(3/4 ton 4 x 4 truck): $762.00/mo. including 4% sales tax, $60.00/mo. insurance.			
		Rental period - May 7 to June 8; July 16-19 = 37 days x $762/30 days	=	940.00	
b)	BOW MAC TRUCK RENTALS	(Jimmy 4 x 4): $767.00/mo. including 4% sales tax, $65.00/mo. insurance.			
		Rental period: June 12 - July 18 = 37 days x $767/30 days	=	945.00	
		2 Tires		156.00	
c)	TRUCK FUEL	Distance travelled - 6,980 km, average consumption $\frac{4.55 \text{ litres}}{16 \text{ km}}$			
		Fuel cost: $0.21/litre x 6,980 km x 4.55 litres/16 km	=	417.00	
d)	JET AIRCRAFT	(Vancouver - Castlegar - Vancouver)		457.00	
e)	BUS-CAR-TAXI	(Vancouver & Castlegar)		218.00	
f)	ACCOMODATION	(Salmo Area)		653.00	
g)	FREIGHT	(Vancouver - Salmo - Vancouver)		440.00	
			Subtotal	$4,227.00	
		Assessment Total 20% x $4,227.00		845.00	
		Apportioned Cost $845.00 x 26 units/84 units	=		262.00
4)	MATERIALS & SUPPLIES (CONSUMABLES)				
a)	Office and Field Equipment			1,352.00	
b)	Lumber			849.00	
c)	Camp Fuel			250.00	

4) MATERIALS & SUPPLIES (CONSUMABLES) cont.	Total Costs	Apportioned Cost
d) Photography-Reproduction of Base Maps	$ 655.00	
e) Food and Meals	3,048.00	
	$ 6,154.00	
Apportioned Costs: $6,154.00 x 26 units/84 units =		$ 1,905.00

5) EQUIPMENT RENTALS

a) Magnetometer (Phoenix Geophysics): 2 mo. @ $330.00/mo. = $660.00	1,404.00	
b) E.M.- 16 (Geonics Limited): 2 mo. @ $372.00/mo. = $744.00		
Apportioned Costs: $1,404.00 x $10.25 km/40.0 line km		360.00

6) ANALYTICAL COSTS

a) Geochemical Assay (Rossbacher Labs.): Analysis of 1272 soils and 179 rock and drill core samples for 7 elements; including copper, molybdenum, lead, zinc, silver, @ $2.50/sample; W/F @ $5.25/sample and background correction for silver/lead @ $0.15/sample and $0.20/soil sample preparation and soil pH @ $0.50/sample plus rock preparation @ $1.00/sample and selected geochemical assay of rocks for Au @ $2.50/sample and Sn @ $2.00/sample.

Total Soils:	1,272 samples	x $8.60/sample	10,939.00	
Rocks:	179 "	x $8.90/sample	1,593.00	
Au:	59 "	x $2.50/sample	147.00	
Sn:	9 "	x $2.00/sample	18.00	
			12,697.00	
Apportioned costs $12,697.00 x 421 samples/1451 samples				3,684.00

		Total Costs	Apportioned Cost
7) REPORT PREPARATION			
a) Text:			
M. Bradley (Proj. Geol):	Aug. 23; Oct. 11,12,15-19; Nov. 7-9,21-23,26-30; Dec. 5-7, 10-14, 17-21: 32 days @ $110/day	$ 3,520.00	
W. Clark (Geol.):	Oct. 12: 1 day @ $ 95/day	95.00	
S. Hoffman (Geochemist):	Aug. 11,13,23,24,29,30; Sept. 1,4; Oct. 15; Nov. 15,16; Dec. 13-15: 14 days @ $135/day	1,890.00	
b) Typing	5 days @ $41/day	205.00	
c) Computer Processing		846.00	
d) Keypunching		715.00	
e) Digitizing & Machine Plotting (Geophysics)			
E.M. - 16 data:	$11.25/line km x 40 line km	450.00	
Magnetic data:	$11.25/line km x 40 line km	450.00	
f) Drafting	(L. GLASER) 77 hours x $9.00/hr.	693.00	
g) Reproduction		300.00	
	Total	$ 9,164.00	
	Apportioned Cost: $9,164.00 x 26 units/84 units		$ 2,836.00
	Total Assessment Work Applied to MUT GROUP A		$22,829.00
	Total Assessment Credits on MUT A,B,C,		$75,437.00

APPORTIONED COSTS TO MUT CLAIMS 2 & 3 (GROUP B)

1) LABOUR COSTS

		Total Costs	Apportioned Cost
M. Bradley (Proj. Geol.):	May 1-12,14-16,22-31; June 1-30; July 1-13,15-19 = 73 days @ $110/day	$ 8,030.00	
W. Clark (Geol.):	May 1-31; June 1-30; July 1-19 = 80 days @ $95/day	7,600.00	
A. Fyfe (Asst.):	May 9-14,25,26 = 8 days @ $60/day	480.00	
J. Gravel (Asst.):	May 12-26; Sept. 12,13 = 17 days @ $78/day	1,343.00	
S. Hoffman (Geochemist):	May 24-26 = 3 days @ $135/day	405.00	
N. Humphries (Geol.):	May 25,26; Sept. 12,13= 4 days @ $85/day	340.00	
J. Lemay (Asst.)	May 8-31; June 1-30; July 1-19; Aug. 14 = 74 days @ $55/day	4,070.00	
N. McGary (Asst.):	May 7-31; June 1-30; July 1-19 = 74 days @ $55/day	4,070.00	
C. Macrae (Asst.)	May 25,26 = 2 days @ $65/day	130.00	
R. Wong (Geol.):	May 25,26; Sept. 12,13= 4 days @ $105/day	420.00	
		$26,888.00	
	Apportioned Cost = $26,888.00 x 12.01 line km/60.57 line km =		$ 5,331.00

2) CONTRACTORS

			Total Costs	Apportioned Cost
a) Line Cutting	(AMEX EXPLORATION SERVICES):	5.37 km x $313.66/line km		1,684.00
b) Baseline Survey	(R. STROTHERS & ASSOCIATES):	0.685 km x $3,241.90/3.3 km		673.00
c) Bulldozer	(PINETREE LOGGING CO. LTD.):	KOMATZUE DOZER: 6.75 hrs. x $53.50/hr. =	178.75	
		Mob. & Demob.	361.14	
			539.89	
		Apportioned Cost $539.89 x 26 units/84 units =		167.00
d) Drafting	(L. GLASER):	Production of base maps 102 hours x $9/hour	918.00	
		Apportioned Cost $918.00 x 26 units/84 units		284.00
e) Geophysical Consulting	(V. RONKA):	$150.00 x 26 units/84 units		46.00

			Total Costs	Apportioned Cost
f) Property Consultant	(I. SUTHERLAND): 1.5 days x $125.00/day	=	$ 187.00	
	Apportioned Costs $187.00 x 26 units/84 units			$ 58.00

3) TRANSPORTATION & TRAVEL

			Total Costs	Apportioned Cost
a) Redhawk Rentals	(3/4 ton 4 x 4 truck): $762.00/mo. including 4% sales tax, $60.00/mo. insurance. Rental Period - May 7 to June 8; July 16-19 = 37 days x $762/30 days		940.00	
b) Bow Mac Truck Rentals	(Jimmy 4 x 4) $767.00/mo. including 4% sales tax, $65.00/mo. insurance. Rental Period - June 12 to July 18 = 37 days x $767.00/30 days		945.00	
	2 Tires		156.00	
c) Truck Fuel:	Distance travelled - 6,980 km, average consumption $\frac{4.55 \text{ litres}}{16 \text{ km}}$			
	Fuel cost: $0.21/litre x 6,980 km x 4.55 litres/16 km	=	417.00	
d) Jet Aircraft:	(Vancouver - Castlegar - Vancouver)		457.00	
e) Bus-Car-Taxi:	(Vancouver-Castlegar)		218.00	
f) Accomodation:	(Salmo Area)		653.00	
g) Freight:	(Vancouver-Salmo-Vancouver)		440.00	
		Subtotal	$4,227.00	
	Assessment Total - 20% x $4,227.00		845.00	
	Apportioned Cost - $845.00 x 26 units/84 units	=		262.00
h) Helicopter	(Highland Helicopter): 0.8 hour x $315/hour + $17.82 fuel	=	269.82	
	Assessment Valuation - 50% x $269.82	=		135.00

	Total Costs	Apportioned Cost
4) MATERIALS & SUPPLIES (CONSUMABLES)		
a) Office & Field Equipment	$ 1,352.00	
b) Lumber	849.00	
c) Camp Fuel	250.00	
d) Photography-Reproduction of Base Maps	655.00	
e) Food and Meals	3,048.00	
	$ 6,154.00	
Apportioned Costs: $6,154.00 x 26 units/84 units =		$ 1,905.00
5) EQUIPMENT RENTALS		
a) Magnetometer (Phoenix Geophysics): 2 mo. @ $330.00/mo. = $660.00		
b) E.M. -16 (Geonics Limited): 2 mo. @ $372.00/mo. = $744.00	1,404.00	
Apportioned Costs: $1,404.00 x 5.37 km/40.0 line km =		188.00

6) ANALYTICAL COSTS

a) Geochemical Assay (Rossbacher Labs): Analysis of 1,272 soils and 179 rock and drill core samples for 7 elements; including Cu/Mo/Pb/Zn/Ag @ $2.50/sample; W/F @ $5.25/sample and background correction for Ag/Pb @ $0.15/sample and $0.20/soil sample preparation and soil pH @ $0.50/sample plus rock preparation @ $1.00/sample and selected geochemical assay of rocks for Au @ $2.50/sample and Sn @ $2.00/sample.

				Total Costs	Apportioned Cost
Total Costs: Soils:	1,272	samples	x $8.60/sample	10,939.00	
Rocks:	179	"	x $8.90/ "	1,593.00	
Au:	59	"	x $2.50/ "	147.00	
Sn:	9	"	x $2.00/ "	18.00	
				$12,697.00	
Apportioned Costs: $12,697.00 x 274 samples/145 samples					2,398.00

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		Total Costs	Apportioned Cost
7) REPORT PREPARATION			
a) Text:			
M. Bradley (Proj. Geol.):	Aug. 23; Oct. 11,12,15-19, Nov. 7-9,21-23,26-30; Dec. 5-7,10-14,17-21: 32 days @ $110/day	$ 3,520.00	
W. Clark (Geol.):	Oct. 12: 1 day @ $ 95/day	95.00	
S. Hoffman (Geochemist):	Aug. 11,13,23,24,29,30; Sept.1,4; Oct. 15; Nov. 15,16; Dec. 13-15: 14 days @ $135/day	1,890.00	
b) Typing: 5 days @ $41/day		205.00	
c) Computer Processing:		846.00	
d) Keypunching:		715.00	
e) Digitizing & Machine Plotting (Geophysics):			
E.M. - 16 data:	$11.25/line km x 40 line km	450.00	
Magnetic data:	$11.25/line km x 40 line km	450.00	
f) Drafting: (L. GLASER) 77 hours x $9/hour.		693.00	
g) Reproduction:		300.00	
	Total:	$ 9,164.00	
Apportioned Cost: $9,164.00 x 26 units/84 units			$ 2,836.00
Total Assessment Work Applied to MUT GROUP B			$15,967.00
Total Assessment Credits on MUT A,B,C,			$75,437.00

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APPORTIONED COSTS TO MUT CLAIMS 5 & 6 (GROUP C)

1) LABOUR COSTS

			Total Costs	Apportioned Cost
M. Bradley (Proj. Geol):	May 1-12, 14-16,22-31; June 1-30; July 1-13, 15-19	= 73 days @ $110/day	$ 8,030.00	
W. Clark (Geol.):	May 1-31; June 1-30; July 1-19	= 80 days @ $ 95/day	7,600.00	
A. Fyfe (Asst.):	May 9-1425,26;	= 8 days @ $ 60/day	480.00	
J. Gravel (Asst.):	May 12-26; Sept. 12,13;	= 17 days @ $ 78/day	1,343.00	
S. Hoffman (Geochemist):	May 24-26;	= 3 days @ $135/day	405.00	
N. Humphrey (Geol.):	May 25,26; Sept. 12,13;	= 4 days @ $ 85/day	340.00	
J. Lemay (Asst.):	May 8-31; June 1-30; July 1-19; Aug. 14	= 74 days @ $ 55/day	4,070.00	
N. McGary (Asst.):	May 7-31; June 1-30; July 1-19;	= 74 days @ $ 55/day	4,070.00	
C. Macrae (Asst.):	May 25, 26;	= 2 days @ $ 65/day	130.00	
R. Wong (Geol.):	May 25,26; Sept. 12,13;	= 4 days @ $105/day	420.00	
			$26,888.00	
	Apportioned Cost = $26,888.00 x 28.96 line km/60.57 line km	=		$12,856.00

2) CONTRACTORS

			Total Costs	Apportioned Cost
a) Line Cutting	(AMEX EXPLORATION SERVICES):	24.53 km x $313.66/line km		7,694.00
b) Baseline Survey	(R. STROTHERS & ASSOCIATES):	1.615 km x $3,241.90/3.3 km		1,587.00
c) Bulldozer	(PINETREE LOGGING CO. LTD.):	KOMATZUE DOZER: 6.75 Hrs. x $53.50/Hr.=	178.75	
		Mob. & Demob.	361.14	
			539.89	
	Apportioned Cost: $539.89 x 32 units/84 units	=		206.00
d) Drafting	(L. GLASER):	Production of base maps: 102 hrs. x $9/hr.	918.00	
	Apportioned Cost: $918.00 x 32 units/84 units	=		350.00
e) Geophysical Consulting	(V. RONKA):	$150.00 x 32 units/84 units		57.00

APPORTIONED COSTS TO MUT CLAIMS 5 & 6 (GROUP C)

1) LABOUR COSTS

			Total Costs	Apportioned Cost
M. Bradley (Proj. Geol):	May 1-12, 14-16,22-31; June 1-30; July 1-13, 15-19	= 73 days @ $110/day	$ 8,030.00	
W. Clark (Geol.):	May 1-31; June 1-30; July 1-19	= 80 days @ $ 95/day	7,600.00	
A. Fyfe (Asst.):	May 9-1425,26;	= 8 days @ $ 60/day	480.00	
J. Gravel (Asst.):	May 12-26; Sept. 12,13;	= 17 days @ $ 78/day	1,343.00	
S. Hoffman (Geochemist):	May 24-26;	= 3 days @ $135/day	405.00	
N. Humphrey (Geol.):	May 25,26; Sept. 12,13;	= 4 days @ $ 85/day	340.00	
J. Lemay (Asst.):	May 8-31; June 1-30; July 1-19; Aug. 14	= 74 days @ $ 55/day	4,070.00	
N. McGary (Asst.):	May 7-31; June 1-30; July 1-19;	= 74 days @ $ 55/day	4,070.00	
C. Macrae (Asst.):	May 25, 26;	= 2 days @ $ 65/day	130.00	
R. Wong (Geol.):	May 25,26; Sept. 12,13;	= 4 days @ $105/day	420.00	
			$26,888.00	
	Apportioned Cost = $26,888.00 x 28.96 line km/60.57 line km	=		$12,856.00

2) CONTRACTORS

			Total Costs	Apportioned Cost
a) Line Cutting	(AMEX EXPLORATION SERVICES):	24.53 km x $313.66/line km		7,694.00
b) Baseline Survey	(R. STROTHERS & ASSOCIATES):	1.615 km x $3,241.90/3.3 km		1,587.00
c) Bulldozer	(PINETREE LOGGING CO. LTD.):	KOMATZUE DOZER: 6.75 Hrs. x $53.50/Hr.=	178.75	
		Mob. & Demob.	361.14	
			539.89	
	Apportioned Cost: $539.89 x 32 units/84 units	=		206.00
d) Drafting	(L. GLASER):	Production of base maps: 102 hrs. x $9/hr.	918.00	
	Apportioned Cost: $918.00 x 32 units/84 units	=		350.00
e) Geophysical Consulting	(V. RONKA):	$150.00 x 32 units/84 units		57.00

			Total Costs	Apportioned Cost
f) Property Consultant	(I. SUTHERLAND) 1.5 days x $125.00/day	=	$ 187.00	
	Apportioned Costs: $187.00 x 32 units/84 units			$ 71.00
) TRANSPORTATION & TRAVEL				
a) Redhawk Rentals	(3/4 ton 4 x 4 truck): $762.00/mo. including 4% sales tax, $60.00/mo. insurance. Rental Period - May 7 to June 8; July 16-19: = 37 days x $762/30 days		940.00	
b) Bow Mac Rentals	(Jimmy 4 x 4): $767.00/mo including 4% sales tax, $65.00/mo. insurance Rental Period - June 12-July 18: = 37 days x $767.00/30 days		945.00	
	2 Tires		156.00	
c) Truck Fuel:	Distance travelled 6,980 km, average consumption $\frac{4.55 \text{ litres}}{16 \text{ km}}$			
	Fuel Cost: $0.21/litre x 6980 km x 4.55 litres/16 km	=	417.00	
d) Jet Aircraft	(Vancouver - Castlegar - Vancouver)		457.00	
e) Bus-Car-Taxi	(Vancouver & Castlegar)		218.00	
f) Accomodation	(Salmo Area)		653.00	
g) Freight	(Vancouver - Salmo - Vancouver)		440.00	
		Subtotal	$4,227.00	
	Assessment Total 20% x $4,227.00		845.00	
	Apportioned Cost: $845.00 x 32 units/84 units	=		322.00

4) MATERIALS & SUPPLIES (CONSUMABLES)		Total Costs	Apportioned Cost
a) Office & Field Equipment		$ 1,352.00	
b) Lumber		849.00	
c) Camp Fuel		250.00	
d) Photography-Reproduction of Base Maps		655.00	
e) Food & Meals		3,048.00	
		$ 6,154.00	
Apportioned Costs: $6,154.00 x 32 units/84 units	=		$ 2,344.00

5) EQUIPMENT RENTALS

a) Magnetometer (Phoenix Geophysics): 2 mo. @ $330.00/mo. = $660.00 b) E.M. - 16 (Geonics Limited): 2 mo. @ $372.00/mo. = $744.00	1,404.00	
Apportioned Costs: $1,404.00 x 24.38 km/40.0 line km		855.00

6) ANALYTICAL COSTS:

a) Geochemical Assay: (Rossbacher Labs):

Analysis of 1,272 soils and 179 rock and drill core samples for 7 elements; including Cu/Mo/Pb/Zn/Ag @ $2.50/sample; W/F @ $5.25/sample and background correction for Ag/Pb @ $0.15/sample and $0.20/soil sample preparation and soil pH @ $0.50/sample plus rock preparation @ $1.00/sample and selected geochemical assay of rocks for Au @ $2.50/sample and Sn @ $2.00/sample.

Total Costs:	Soils:	1,272 samples	x $8.60/sample		$10,939.00	
	Rocks:	179 "	x $8.90/sample		1,593.00	
	Au:	59 "	x $2.50/sample		147.00	
	Sn:	9 "	x $2.00/sample		18.00	
					$12,697.00	
Apportioned Cost: $12,697.00 x 756 samples/1,451 samples						6,615.00

b) Petrographic (Coots Petrographic)

20 Thin sections @ $5.50	110.00
9 k-feldspar stains @ $0.75	7.00

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	Total Costs	Apportioned Cost
c) Specific Gravity (Chemex Labs.)		
$5/sample x 15 rock samples.		$ 75.00

7) REPORT PREPARATION

		Total Costs	Apportioned Cost
a) Text:			
M. Bradley (Proj. Geol.):	Aug. 23; Oct. 11,12,15-19; Nov. 7-9,21-23,26-30; Dec. 5-7;10-14,17-21: 32 days @ $110/day	$ 3,520.00	
W. Clark (Geol.):	Oct. 12: 1 day @ $ 95/day	95.00	
S. Hoffman (Geochemist):	Aug. 11,13,23,24,29,30; Sept. 1,4; Oct. 15; Dec. 13-15: 14 days @ $135/day	1,890.00	
b) Typing 5 days @ $41/day		205.00	
c) Computer Processing		846.00	
d) Keypunching		715.00	
e) Digitizing & Machine Plotting (Geophysics)			
E.M. - 16 data:	$11.25/line km x 40 line km	450.00	
Magnetic data:	$11.25/line km x 40 line km	450.00	
f) Drafting (L. GLASER) 77 hours x $9/hour		693.00	
g) Reproduction		300.00	
	Total	$ 9,164.00	
Apportioned Cost: $9,164.00 x 32 units/84 units			3,491.00
Total Assessment Work Applied to MUT GROUP C			$36,641.00
Total Assessment Credits on MUT A,B,C,			$75,437.00

APPENDIX 4

Trace Element Data for Soil,
Talus Fine and Stream Sediment
Samples.

M.U.T. CLAIMS 1979

TRACE ELEMENT DATA FOR SOIL, TALUS FINE

and STREAM SEDIMENT SAMPLES

(LISTED BY SAMPLE TYPE AND SAMPLER NUMBER)

	SAMPLE TYPE	YEAR	PROJECT NO.	SAMPLE NUMBER	SAMPLE COORD EAST	SAMPLE COORD NORTH	NTS		Mo	Cu	Pb	Zn	Ag	W	F
									TRACE ELEMENT ANALYSIS (PPM)						
1	10	79	517	410008	YY485215	5436170	82F03	4 L 9P 6.7 21.0 1 75A3 16 4 NE	2	480	64	5000	2.7	2	530
2	10	79	517	420017	YY485680	5435813	82F03	3 E 9 6.8 010 80 4 322 3 15NE	1	144	46	3600	2.4	0	450
3	10	79	517	460018	YY485480	5435860	82F03	371L 80 5.9 415 30BMB LBR 10A2 9 24SE	2	30	268	1394	1.0	10	560
4	10	79	517	460021	YY485612	5435692	82F03	4 L 9P 6.7 21. 0 24 1 11 3 16 4NE	2	800	106	4150	3.6	0	580
5	10	79	513	460038	YY484915	5434817	82F03	6 L 9 7.0 21. 5125 31 2 9 15SW	2	28	24	680	0.2	0	560
6	10	79	517	460077	YY485982	5434352	82F03	1 L 9 6.7 20.710 5R 32 2	1	16	16	86	0.2	0	510
7	10	79	517	460082	YY485119	5434170	82F03	2 L 90 7.0 20.5 105 32	1	24	24	100	0.2	0	580
8	10	79	517	460147	YY486680	5435220	82F03	4 L 9 6.8 20 2 6 JL 12 10NE	1	20	26	124	0.2	0	470
9	10	79	517	460270	YY485263	5434165	82F03	1 L 9 6.9 20.510 5 12 2 12 20NW	1	30	28	112	0.4	0	660
10	10	79	517	460299	YY485222	5434819	82F03	2 L 9P 7.5 20. 155 22 2 8 8 W	1	22	22	96	0.2	0	700
11	10	79	517	460306	YY485200	5435180	82F03	2 L 9P 6.2 20.5 105R 12 2 6 4SW	1	208	38	2230	1.6	0	740
12	10	79	517	460329	YY484620	5434200	82F03	1 L 9P 7.0 20.4 105 12 2 12 11SW	1	34	62	390	0.4	0	850
13	10	79	517	460431	YY484855	5434175	82F03	2 L 9P 7.0 20.4 1KKL 12 2 12 14 W	2	20	22	136	0.2	0	600
14	10	79	517	460433	YY484856	5434148	82F03	4 L 90 6.9 20.2 1/J 12 2 10 26NW	1	24	26	126	0.2	0	640
15	10	79	517	470032	YY486704	5435583	82F02	2 L 2 7.54 410/J 111 11 10NW	1	20	18	96	0.2	0	540
16	10	79	517	490021	YY485761	5435919	82F03	3 M 4 6.92 .5 54 1 23 20N	1	48	36	702	1.6	0	590
17	10	79	517	490136	YY484735	5436490	82F03	3 U 48 6.40 3 33 111 21 24N	12	248	90	2974	2.4	2	640
18	10	79	517	490157	YY486682	5434952	82F03	3 L 4 7.40 5 74 23 22E	1	16	26	156	0.2	0	740
19	10	79	517	490198	YY485766	5435977	82F03	2 L 4 6.30 2 43 23 10N	1	46	12	650	1.4	0	660
20	10	79	517	490280	YY485510	5434120	82F03	4 L 4 7.30 4 J0 23 2 11 10W	1	30	34	148	0.2	0	580
21	10	79	517	490293	YY485500	5434710	82F03	4 L 4 6.10 3 44 43 16W	1	20	22	72	0.2	0	720
22	10	79	517	490312	YY484827	5434729	82F03	4 L 4 7.20 6 84 43 14W	2	46	32	722	0.6	2	620
23	10	79	517	490346	YY484616	5434579	82F03	4 L 4 6.80 6 84 43 2 12 19SW	2	48	70	750	0.2	0	640
24	10	79	517	490349	YY484527	5434528	82F03	4 L 4 7.10 3 44 43 2 12 12S	4	60	24	1000	0.6	15	810
25	10	79	517	490427	YY484310	5434260	82F03	5 L 4 6.80 6 44 43 2 14 12SW	2	44	26	546	0.4	15	820
26	10	79	517	490428	YY484310	5434218	82F03	6 L 4 7.20 4 43R 43 2 12 10SW	2	40	62	520	0.4	10	840
27	10	79	517	490481	YY484000	5434086	82F03	3 M 4 7.00 6 34 43 2 14 12SW	2	44	58	550	0.4	30	780
28	10	79	517	490509	YY483397	5433776	82F03	5 L 4 7.10 6 74 43 2 10 8SW	2	40	30	416	0.2	35	820
29	10	79	517	490526	YY483698	5435278	82F03	4 M 48 6.43 2 33 322 43 2 12 20NW	6	66	18	2462	0.6	35	920
30	10	79	517	490541	YY483703	5433876	82F03	6 L 4 7.03 6 54 43 2 12 10SW	4	42	30	520	0.4	40	700
31	10	79	517	490544	YY484428	5434422	82F03	2 L 4 7.20 6 33 43 2 8 10SW	2	50	26	678	0.6	20	620
32	10	79	517	490549	YY484430	5434227	82F03	2 L 4 7.30 6 34 41 10SW	2	38	64	554	0.4	10	710
33	10	79	517	490574	YY484176	5434115	82F03	6 L 4 6.33 6 3 41 2 10	2	26	16	812	0.2	0	660
34	10	79	517	490641	YY486412	5438567	82F03	6 L 4P 6.60 4 34 481 43 2 21 10SE	2	108	106	1900	1.2	15	1100
35	20	79	517	430016	YY485812	5436082	82F03	472L 6 6.74 1 5 J DBR 1 5NE	4	152	44	1940	2.6	10	660
36	20	79	517	470033	YY486691	5435589	82F03	8 L 2 7.54 .10033L 11 30NE	1	19	12	76	0.2	0	600
37	20	79	517	*490060	YY485025	5435980	82F03	371L 6 5.34 12 248MB MBR 10A 31N	1	88	26	1290	0.6	12	420
38	20	79	517	*490061	YY485021	5436078	82F03	3 L 9 7.04 1930 4 23 24N	4	112	40	2204	0.6	0	620
[illegible]	20	79	517	[illegible]	[illegible]	[illegible]	[illegible]	[illegible] 23 2 14 12S	2	392	70	2050	2.0	0	630

40	5079517	410001	YY485330	5436040	82F03	271L	9P	6.14	5	30BMB	DOLBR	10A2	11	14 E	2	56	10	562	0.2	0	770
41	5079517	*410002	YY485390	5435965	82F02	371L	9B	6.04	10	30BMB322	MOLBR	50A2	11*	28 E	1	36	10	310	0.2	0	740
42	5079517	*410003	YY485390	5435965	82F03	371L	9R	6.14	10	25BMB322	MOLBR	40A2		28 E	1	36	10	350	0.2	2	710
43	5079517	410004	YY485457	5435890	82F03	271L	9P	6.14	20	40BMB	MOLBR	20A2	11	19 E	1	64	8	290	0.3	0	590
44	5079517	410005	YY485520	5435810	82F03	271L	9P	5.94	10	25BMB	DOLBR	2	9	9 N	1	32	50	890	0.4	2	600
45	5079517	410006	YY48558[illegible]	5435737	82F03	271L	9P	5.84	10	30BMB315	MOLBR	20A2	11	15 SE	1	36	46	590	0.8	0	620
46	5079517	410007	YY485620	5435690	82F03	371L	9B	5.24	10	25BMB315	MOLBR	50A2	11	28 NW	1	32	44	754	0.4	2	880
47	5079517	410009	YY485170	5436225	82F03	271L	9B	5.74	5	20BMB315	MOLBR	10A2	11	4 NW	2	32	10	560	0.4	30	520
48	5079517	410010	YY485159	5436250	82F03	3E1L	8R	6.04	0	15TFR315	DBR	30A2	15	45 N	12	48	30	754	0.2	10	560
49	5079517	420002	YY485563	5436481	82F03	371L	9R	5.94	12	22BMB322	MB	70A		35 NE	4	20	14	840	1.8	5	450
50	5079517	420003	YY485590	5436508	82F03	371L	9D	6.04	25	40BMB	LB	70A		37 NE	4	28	14	830	2.4	30	440
51	5079517	420004	YY485620	5436530	82F03	391L	9P	5.74	20	3[illegible]MB	MB	50A		33 NE	6	44	34	860	1.8	600	[illegible]
52	5079517	420005	YY485653	5436558	82F03	371L	9R	5.[illegible]4	20	30BFP111	MOB	20S		25 NE	4	24	20	650	1.2	40	560
53	5079517	420006	YY485390	5436170	82F03	271L	9R	5.54	15	27BMB315	DB	15A		12 NW	2	24	14	624	1.6	0	560
54	5079517	420007	YY485410	5436130	82F03	271L	9P	5.56	15	25BMB315	DB	05A		7 NW	4	32	12	652	2.4	0	560
55	5079517	420008	YY485440	5436100	82F03	271L	9R	5.76	40	50BMB315	DB	40S		12 NW	2	44	14	640	2.0	0	600
56	5079517	420009	YY4[illegible]462	5436072	82F03	291L	9R	6.04	40	50BMB315	MB	60S		19 SE	2	40	8	390	1.8	0	700
57	5079517	420010	YY485498	5436034	82F03	391L	9R	6.1	10	20CIR311	DG	50A		28 SE	2	60	8	794	2.2	10	700
58	5079517	420011	YY485531	5435991	82F03	371L	9P	6.14	25	35BMB322	MB	70A		27 SE	1	76	8	350	2.0	10	710
59	5079517	420012	YY485558	5435960	82F03	391L	9P	5.94	30	40BMB322	MB	30A		30 SE	1	40	14	480	1.4	0	580
60	5079517	420013	YY485585	5435922	82F03	371L	9P	6.86	20	30BMB315	DB	50A		20 SE	1	132	149	4300	3.2	0	580

61	5079517	420014	YY485618	5435890	82F03	271L	9P	6.3	415	25BMB	MB	05S		20SE	1	40	24	618	1.6	0	620
62	5079517	420015	YY485638	5435864	82F03	271L	9P	5.5	515	25BMB	DB	10S		20SE	1	40	20	850	1.8	0	640
63	5079517	420016	YY485660	5435834	82F03	271L	9	5.9	420	30BMB	MB	05S		17SE	1	56	18	540	1.8	2	670
64	5079517	420018	YY485683	5435801	82F03	371U	9	5.9	435	45BMB322	MB	20S		25NE	1	28	12	630	1.6	0	610
65	5079517	430001	YY485887	5436279	82F03	371L	9	5.7	410	20BMB322	MBR	10S		20NW	2	20	16	760	0.6	15	490
66	5079517	430002	YY485910	5436300	82F03	371L	9	5.9	410	20BMB322	MBR	10S		20NW	1	20	16	760	0.8	10	460
67	5079517	430003	YY485940	5436325	82F03	371L	9	5.6	4 5	25BMB322	MBR	10S		20NW	2	12	18	560	0.9	10	540
68	5079517	430004	YY485959	5436361	82F03	271L	9	5.3	410	30BMB322	MBR	10S		14SE	2	16	24	646	0.7	2	520
69	5079517	430005	YY485999	5436371	82F03	271L	9	5.5	410	30BMB322	MBR	10S		14SE	2	22	16	562	1.0	2	550
70	5079517	430006	YY486028	5436400	82F03	271L	9	5.7	4 10	30BM 315	LBR	10S		14SE	2	20	18	330	0.8	2	480
71	5079517	430007	YY485619	5436294	82F03	371L	9	6.1	410	15BMB	MBR	20S2	17	35 E	2	20	12	756	1.0	2	560
72	5079517	430008	YY485642	5436265	82F03	371L	6	6.3	415	15BMB	MBR	15S2	15	20 E	1	18	10	752	1.3	2	560
73	5079517	430009	YY485665	5436232	82F03	371L	6	6.2	6 5	15BMB	MBR	10S2	18	20 E	1	16	16	780	1.0	0	400
74	5079517	430010	YY485590	5436205	82F03	271L	6	6.1	610	20BMB	MBR	40S2	20	18 E	2	18	10	700	0.8	2	500
75	5079517	430011	YY485715	5436178	82F03	271L	6	6.2	610	20BMB	DBR	50S2	20	20 E	2	28	20	880	0.7	10	560
76	5079517	430012	YY485738	5436148	82F03	271L	6	6.0	410	20BMB	MBR	30S2	20	18 E	2	20	20	750	0.6	10	470
77	5079517	430013	YY485760	5436120	82F03	271L	6	5.8	610	20BMB	MBR	35S2	18	18 E	1	20	16	830	0.9	5	400
78	5079517	430014	YY485783	5436090	82F03	271L	6	5.8	10	15BM	MBR	35S2	19	18NE	2	28	18	622	0.9	2	410
79	5079517	430015	YY485810	5436059	82F03	472L	6	6.0	730	35BTL	DBR	15S2	19	10NE	4	108	28	1100	1.9	12	510
80	5079517	430017	YY485830	5436030	82F03	272L	6	6.3	410	15BM	DBR	15S2	15	10NE	2	28	18	600	0.8	10	580
81	5079517	430018	YY485592	5436318	82F03	271L	6	6.2	410	30BMB	MBR	20S2	19	12NE	4	20	18	710	0.9	8	480
82	5079517	420019	YY485569	5436350	82F03	271L	6P	5.9	410	25BMB322	DBR	40S2	20	15 E	4	42	12	660	0.5	5	520
83	5079517	430020	YY485544	5436384	82F03	371L	9P	5.5	4 5	25BMB322	DBR	40 2	20	30NW	6	28	12	748	0.5	10	470
84	5079517	430021	YY485521	5436412	82F03	271L	9P	5.8	410	30BMB	MBR	20S2	23	20NW	4	24	10	968	1.3	2	420
85	5079517	430022	YY485495	5436439	82F03	371L	9P	5.6	4 5	25BMB	DBR	30S2	21	22NW	4	36	10	1250	0.7	2	550
86	5079517	430023	YY485470	5436470	82F03	371L	9	5.5	4 5	30BMB	DBR	30S2	25	26NW	6	28	14	870	0.7	5	550
87	5079517	430024	YY485449	5436500	82F03	371L	9	5.5	6 5	25BMB	MBR	20S2	28	22NW	6	28	10	800	0.7	5	450
88	5079517	430025	YY485425	5436529	82F03	371L	9B	5.3	6 5	20BM	LBB	30S2	23	36NW	6	36	12	666	0.6	10	560
89	5079517	430026	YY485399	5436556	82F03	371L	9B	5.4	6 5	20BF	MBR	70S2	45*	40NW	10	28	20	716	0.6	10	600
90	5079517	460001	YY485672	5436478	82F03	371L	1	5.9	410	20BFP	DBR	P40A2	16	30NE	4	24	18	920	0.4	10	500
91	5079517	460002	YY485725	5436510	82F03	371L	6P	6.3	415	25BFP	LBR	P10A		31NE	4	32	20	842	0.4	5	530
92	5079517	460003	YY485760	5436540	82F03	391L	6P	6.2	420	30BFP111	ORBR	P03A		30NE	4	24	18	944	0.4	0	360
93	5079517	460004	YY485800	5436570	82F03	371L	9	5.9	415	25BFP	LBR	P05A		25NE	2	22	12	712	0.6	5	410
94	5079517	460005	YY485840	5436602	82F03	391L	9	5.6	418	25BFP	LBR	P04A		25NE	4	22	16	1016	0.4	10	530
95	5079517	460006	YY485880	5436630	82F03	391L	9	6.3	418	25BFP	ORBR	P04		28NE	2	22	14	[illegible]	0.4	10	480
96	5079517	460007	YY485920	5436670	82F03	491L	9	5.8	518	25BFP	LBR	P05A		20NE	1	16	16	548	0.6	2	420
97	5079517	460008	YY485952	5436700	82F03	491L	9	5.7	418	25BFP	ORBR	P05S		15NE	2	16	18	544	0.2	10	580
98	5079517	460009	YY485990	5436729	82F03	291L	9	5.6	418	25BFP	ORBR	P05B		10N	2	22	24	500	0.4	15	580
99	5079517	460010	YY486020	5436760	82F03	291L	9	5.5	418	25BFP	ORBR	P05K		15N	1	16	18	428	0.4	10	460
100	5079517	460011	YY486068	5436795	82F03	592L	9	5.7	518	25BMB	LBR	P10K		10N	2	20	20	584	0.4	15	560
101	5079517	460012	YY486097	5436823	82F03	591U	2	5.5	418	25BFP	LBR	P06S		10N	2	16	18	280	0.4	5	460
102	5079517	460013	YY485260	5436710	82F03	271L	9P	6.0	415	30BMB	MOLBR	8S2	9	15NW	2	36	10	332	0.2	2	630
103	5079517	*460014	YY485300	5436070	82F03	271L	9D	5.8	415	30BMB	OLBR	8S2	9	8NW	3	38	8	482	0.2	5	610
104	5079517	*460015	YY485300	5436070	82F03	271L	9D	5.8	412	25BMB	DBR	15S2	9	8NW	4	48	10	530	0.4	10	730
105	5079517	460016	YY485366	5436000	82F03	271L	9P	6.2	415	30BMB	LOLBF	P 3A2	10	15NW	2	32	12	426	0.4	2	620
106	5079517	460017	YY485426	5435926	82F03	371L	69	5.9	415	30BBB	MBR	10A2	10	21SE	1	36	10	386	0.2	2	630
107	5079517	460019	YY435550	5435780	82F03	371L	9P	5.9	415	30BFP	CRBR	8A2	11	30SE	2	80	46	388	0.4	0	740
108	5079517	460020	YY435600	5435720	82F03	471L	8P	5.8	415	30BFB315	ORBR	15A2	10	12SE	2	30	16	346	0.4	0	520
109	5079517	460022	YY485170	5436240	82F03	371L	8B	5.4	428	40BMB	MBR	70A1	11	43NW	8	48	6	1136	0.6	10	1000
110	5079517	460023	YY484890	5435532	82F03	371L	6P	5.9	418	30BMB	MBR	P 5A2	11	33SE	6	56	10	882	0.4	10	660
111	5079517	460024	YY484890	5435482	82F03	371L	9	6.2	420	35BMB	OLBR	5A2	10	21SE	4	42	12	732	0.6	10	600
112	5079517	460025	YY484891	5435432	82F03	371L	9	6.2	425	35BMB	LOLBR	6A2	12	21SE	4	48	26	702	0.6	15	610
113	5079517	460026	YY484892	5435382	82F03	371L	6	6.1	425	35BMB	LOLBR	P 7A2	9	20 S	4	40	14	844	0.6	10	620
114	5079517	460027	YY484893	5435332	82F03	371L	9	6.1	422	33BMB	MBR	10A2	11	20 S	4	28	14	1016	0.6	10	700
115	5079517	460028	YY484899	5435285	82F03	371L	9	6.1	520	30BMB	DBP	8A2	11	20 S	4	40	16	902	0.8	15	630
116	5079517	460029	YY484899	5435233	82F03	291L	9	5.9	425	35BMB	GRBR	P15A2	11	15 S	4	32	12	912	0.4	15	600
117	5079517	460030	YY484900	5435185	82F03	291L	9	6.2	425	35BMB	GRBR	9A2	9	19 S	4	40	16	796	0.2	10	750
118	5079517	460031	YY484900	5435[illegible]	82F03	291L	9	5.9	425	35BMB	MBR	9A	11	13SE	4	44	30	674	0.2	2	780
119	5079517	460032	YY484903	5435031	82F03	291L	9	6.0	420	37BMB	MB	15A2	10	19 S	4	44	94	834	0.4	0	620
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	9A2	10	19 S	4	32	60	854	0.4	5	590

122.

121	5079517	460034	YY484910	5434990	82F03	291L	9	5.9	425	35BMB	MBR	20A2	11	17SW	4	32	60	666	0.2	10	540
122	5079517	460035	YY484910	5434938	82F03	271L	9	5.4	425	35BH -	L	13A2	10	10SW	2	78	74	798	1.8	10	670
123	5079517	460036	YY484911	5434892	82F03	271L	9	5.6	425	35BMB	MBR	9A2	10	12SW	3	44	46	446	0.4	5	700
124	5079517	460037	YY484915	5434841	82F03	471L	9	6.0	425	35BFP	LORBR	5A2	9	8SW	2	24	32	620	0.4	2	560
125	5079517	460039	YY484916	5434792	82F03	491L	9	6.2	425	35BMB	MBR	8A2	10	10NW	2	30	16	416	0.2	10	710
126	5079517	460040	YY484918	5434740	82F03	391L	9P	6.2	425	35BFP	LORBR	8A2	11	20NW	2	30	20	310	0.2	2	570
127	5079517	460041	YY484920	5434691	82F03	391L	9	6.4	425	35BFP	ORBR	10A2	10	26NW	4	32	12	186	0.6	2	490
128	5079517	460042	YY484921	5434642	82F03	371L	9P	6.3	425	35BFP	L RBR	6A2	10	24NW	3	28	14	202	0.4	2	510
129	5079517	460043	YY484922	5434922	82F03	291L	9D	6.3	425	35BFP	LORBR	9S2	9	19NW	2	30	10	216	0.6	5	510
130	5079517	460044	YY484925	5434542	82F03	191L	9D	6.0	425	35BFP	LRBR	10A2	11	10 W	4	32	18	290	0.6	5	490
131	5079517	460045	YY484925	5434492	82F03	391L	9	6.3	425	35BF 63	BR	9A2	10	21SW	2	22	10	198	0.4	0	540
132	5079517	460046	YY484098	5434543	82F03	271L	9	6.2	425	35BFP	ORBR	5A2	8	10 W	2	22	10	112	0.6	0	460
133	5079517	460047	YY484093	5434592	82F03	271L	9	6.2	425	35BFP	ORBR	12A2	11	7NW	2	20	12	144	0.4	5	450
134	5079517	460048	YY485090	5434639	82F03	271L	9	6.6	425	35BFP	LRBR	9A2	10	9NW	2	24	8	136	0.4	2	440
135	5079517	460049	YY485089	5434689	82F03	271L	9D	6.2	425	35BFP	LORBR	9S2	9	16NW	1	20	12	164	0.6	0	530
136	5079517	460050	YY485089	5434738	82F03	371L	9P	6.1	422	30BFP	LORBR	10A2	9	21NW	2	32	12	182	0.2	0	480
137	5079517	460051	YY485089	5434787	82F03	271L	9	6.0	425	35BMB	MBR	15S2	11	17NW	4	28	12	330	0.6	15	640
138	5079517	*460052	YY485089	5434839	82F03	471L	9	6.4	425	35BMB	MBR	11A2	10	5NW	2	24	12	240	0.6	2	460
139	5079517	*460053	YY485089	5434839	82F03	471L	9	6.5	425	35BMB	OLBR	10A2	8	4NW	1	32	16	172	0.4	2	500
140	5079517	460054	YY485032	5435631	82F03	371L	6P	6.2	425	35BMB	MBR	8S		20SW	2	70	16	488	0.6	10	550
141	5079517	460055	YY485030	5435730	82F03	171L	9P	6.2	425	35BFP	LRBR	8A		10NW	2	32	12	282	0.4	5	430
142	5079517	460056	YY485030	5435831	82F03	371L	9P	6.2	420	30BMB	MBR	8A		22NW	2	52	10	590	0.4	2	560
143	5079517	460057	YY485027	5435993	82F03	371L	8P	5.7	430	40BMB	MBR	20A		32NW	4	36	10	776	0.8	10	510
144	5079517	460058	YY485023	5436027	82F03	391L	9P	5.4	30	40BMB	DBR	35A		35 W	8	64	14	926	0.8	5	600
145	5079517	460059	YY485020	5436127	82F03	371L	8P	6.6	430	40BFP	LRBR	35A		38 W	6	44	10	1080	0.8	20	540
146	5079517	460060	YY485020	5436226	82F03	371L	6P	5.7	425	35BMB	MBR	25A		34NW	10	36	14	900	0.8	15	640
147	5079517	460061	YY485019	5436325	82F03	371L	9P	6.2	425	35BFP	ORBR	32A		38NW	8	52	10	1684	0.8	0	680
148	5079517	460062	YY484885	5436365	82F03	371L	8X	6.0	420	30BMB	MBR	30A		34NW	6	80	50	3046	0.8	20	470
149	5079517	460063	YY484888	5436470	82F03	391L	9P	5.8	420	30BMB	MBR	25A		24NW	1	16	24	1008	1.0	0	430
150	5079517	460064	YY484888	5436570	82F03	371L	9	5.8	420	30BFP	LRBR	15A		21NW	1	38	22	1112	1.0	0	450
151	5079517	460065	YY484888	5436670	82F03	371L	9	5.9	420	30BFP	LRBR	10A		29NW	2	44	66	1434	0.6	10	510
152	5079517	460066	YY484888	5436770	82F03	371L	93	5.6	420	30BFP	LPBR			25 N	2	22	26	954	0.6	0	430
153	5079517	460067	YY484888	5436870	82F03	271L	9P	6.0	420	30BFP	ORBR			20NW	2	24	20	768	0.2	0	480
154	5079517	460068	YY484889	5436968	82F03	371L	9P	5.7	420	30BFP	LRBR	15A		25NW	2	24	20	642	0.2	0	470
155	5079517	460069	YY484989	5435582	82F03	271L	9P	5.6	425	35BMB	MBR	P 8A2	10	11SE	2	58	16	390	0.2	2	730
156	5079517	460070	YY485039	5435530	82F03	271L	9	5.8	425	35BMB	DBR	10A		15 S	2	44	22	560	0.4	2	680
157	5079517	460071	YY485040	5435430	82F03	291L	9	6.2	425	35BMB	DBR	10A		19 S	2	42	16	904	0.2	2	640
158	5079517	460072	YY485050	5435330	82F03	291L	9	6.3	422	32BMB	DBR	15S2	11	20 S	4	40	20	734	0.2	5	720
159	5079517	460073	YY485065	5435230	82F03	291L	6P	5.6	420	30BMB	MBR	20S2	11	20 S	4	44	62	766	0.6	5	810
160	5079517	460074	YY485069	5435135	82F03	391L	9P	6.1	422	32BMB	MBR	15A2	9	22SE	4	52	50	508	0.4	5	720
161	5079517	460075	YY485078	5435035	82F03	471L	9P	5.7	420	30BFP	RBR		13	9 S	2	20	18	442	0.2	20	470
162	5079517	460076	YY485088	5434032	82F03	371L	9	6.0	425	35BMB	DBR	9A2	14	22SE	4	76	32	880	0.6	0	650
163	5079517	460078	YY485100	5434449	82F03	391L	9	6.5	425	35BFP	ORBR	10A		28SW	1	20	10	162	0.2	0	460
164	5079517	460079	YY485190	5434352	82F03	381L	9	6.0	425	35BMB	MBR	10A		30SW	1	16	10	94	0.2	2	570
165	5079517	460080	YY485120	5434270	82F03	381L	9P	6.4	425	35BFP	ORBR	10A		34SW	1	26	16	110	0.2	2	570
166	5079517	460081	YY485119	5434160	82F03	371L	9D	6.3	430	40BFP	ORBR	10A		38NW	2	12	12	52	0.2	0	720
167	5079517	460083	YY485120	5434070	82F03	291L	9	5.9	425	35BMB	MBR	7A2		17 N	2	40	18	330	0.2	0	650
168	5079517	460084	YY485129	5433978	82F03	371L	9	6.2	425	35BMB	MBR	9A		25 W	2	20	16	290	0.2	2	620
169	5079517	460085	YY485130	5433900	82F03	371L	9	6.2	425	35BMB	OLBR	9A		22NW	2	24	24	274	0.2	0	580
170	5079517	460086	YY485135	5433800	82F03	371L	9	5.7	425	35BMB	OLBR	9S		20 N	2	32	16	310	0.2	12	600
171	5079517	460087	YY485140	5433706	82F03	191L	9P	5.9	425	35BFP	ORBR	.9A		4 S	1	20	8	80	0.2	0	460
172	5079517	460088	YY485150	5433602	82F03	171L	9P	5.3	425	35BFP	ORBR	10		4 N	1	26	12	128	0.2	0	560
173	5079517	460089	YY485196	5433590	82F03	191L	9P	5.7	425	35BFP	ORBR	10A		4NW	1	18	10	168	0.2	0	490
174	5079517	460090	YY485300	5433590	82F03	271L	9D	5.4	425	35BFP	ORBR	7A		10NW	1	30	18	120	0.2	0	560
175	5079517	460091	YY484839	5435570	82F03	271L	9P	5.7	425	35BMB	OLBR	10A		10SW	4	40	10	780	0.2	5	730
176	5079517	460092	YY484790	5435570	82F03	171L	9P	6.0	420	30BMB	MBR	20A		8SW	7	44	14	870	0.2	25	640
177	5079517	460093	YY484733	5435570	82F03	171L	9P	6.0	425	35BMB	MBR	10A		12SW	6	68	22	900	0.2	40	760
178	5079517	460094	YY484690	5435570	82F03	[illegible]	8B	6.1	425	35BMB	DBR	P15A		32SW	7	86	36	780	0.2	20	950
179	5079517	460095	YY484640	5435570	82F03	271L	9P	6.1	420	30BMB	MBR	15A		20SE	2	48	22	850	0.2	10	740
180	5079517	460096	YY484592	5435570	82F03	341L	9B	5.4	425	35BMB	MBR	10A		22NW	5	66	18	690	0.2	20	750

181	5079517	460097	YY484541	5435570	82F03	371L	9P	5.8	420	308MB	DBR	9A	20NW	4	62	20	930	0.2	25	830
182	5079517	460098	YY484491	5435570	82F03	371L	9P	5.9	420	308FP	LORBR	10A	20NW	2	26	6	1200	0.2	12	335
183	5079517	460099	YY484442	5435570	82F03	371L	9B	5.9	427	398[illegible]	DBR	20A	24NW	6	40	20	910	0.2	12	660
184	5079517	460100	YY484394	5435570	82F03	271L	9P	5.8	425	358MB	MBR	10A	16NW	4	34	10	930	0.4	5	720
185	5079517	460101	YY484345	5435570	82F03	371L	9B	5.5	425	358FP	LORBR	15A	32NW	5	48	14	2100	0.2	10	630
186	5079517	460102	YY484297	5435570	82F03	271L	9P	5.8	425	358FP	ORBR	8A	14NW	3	26	23	1980	0.4	8	580
187	5079517	460103	YY484248	5435570	82F03	271L	9	6.2	425	358MB	OLBR	9A	11NW	4	34	16	1200	0.2	10	620
188	5079517	460104	YY484195	5435570	82F03	371L	8B	6.0	425	358FP	LORBR	20A	28NW	8	32	26	1450	0.4	2	540
189	5079517	460105	YY484140	5435570	82F03	271L	9P	6.1	425	358FP	LORBR	10A	19NW	2	28	24	950	0.2	0	570
190	5079517	460106	YY484595	5435630	82F03	371L	9P	5.8	420	308FP	LRB	10A	21NW	2	20	10	710	0.4	0	400
191	5079517	460107	YY484595	5435676	82F03	271L	9D	6.2	425	358MB	MBR	8A	15 W	6	86	26	3120	0.2	20	640
192	5079517	460108	YY484593	5435721	82F03	371L	9B	5.7	420	308MB	LBR	15A	26NW	4	52	30	1080	0.2	20	650
193	5079517	460109	YY484591	5435765	82F03	371L	8P	6.0	427	358FP	LORBR	20A	35NW	9	56	26	1390	0.2	35	720
194	5079517	460110	YY484590	5435816	82F03	391L	9P	6.2	420	308FP	ORBR	5A	32NW	5	32	8	950	0.2	40	660
195	5079517	460111	YY484589	5435858	82F03	391L	6P	5.8	430	408FP	ORBR	10A	32NW	7	18	8	1140	0.4	18	620
196	5079517	460112	YY484589	5435905	82F03	371L	9	6.0	425	358FP	ORBR	10A	21 W	9	36	10	880	0.2	15	660
197	5079517	460113	YY484589	5435951	82F03	281L	9	5.8	425	358FP	ORBR	20A	30NW	4	20	8	820	0.2	12	490
198	5079517	460114	YY484589	5436000	82F03	171L	9B	5.5	420	308MB	MBR	15A	10NW	4	44	26	940	0.2	2	480
199	5079517	460115	YY484589	5436039	82F03	371L	9B	5.2	25	358FP	RB	20A	32 N	6	36	12	830	0.2	0	530
200	5079517	460116	YY484589	5436089	82F03	371L	6P	5.9	425	358MB	LBR	15A	35NE	2	28	18	1100	0.2	0	480
201	5079517	460117	YY484589	5436131	82F03	371L	9P	5.4	425	358FP	ORBR	15A	30NE	5	40	14	940	1.2	5	500
202	5079517	460118	YY484587	5436181	82F03	371L	9P	6.7	425	358MB	LBR	8A	28NE	4	40	16	910	0.2	5	500
203	5079517	460119	YY484586	5436222	82F03	371L	9P	5.5	430	408MB	LBR	20A	30NE	6	36	22	890	1.0	10	580
204	5079517	460120	YY484585	5436274	82F03	371L	9P	5.6	430	408MB	MBR	15A	25 N	12	92	22	1000	4.6	2	560
205	5079517	460121	YY484584	5436329	82F03	371L	9	5.7	425	358MB	LBR	20S	22 N	4	70	22	1230	5.6	0	550
206	5079517	460122	YY484583	5436369	82F03	371L	9	5.2	425	358MB	MBR	12A	24 N	6	232	30	2780	12.0	5	720
207	5079517	460123	YY484583	5436411	82F03	371L	9P	5.4	430	408MB	LBR	10A	27NE	7	84	20	1070	2.7	10	500
208	5079517	460124	YY484582	5436462	82F03	371L	9B	5.5	425	358MB	MBR	12A	30NW	8	96	18	1950	0.9	15	730
209	5079517	460125	YY484580	5436501	82F03	371L	9P	5.9	425	358FP	ORBR	10A	25 N	2	48	18	1040	2.4	5	520
210	5079517	460126	YY484580	5436551	82F03	371L	9P	5.8	425	358MB	MBR	10A	24NW	5	232	24	2460	2.6	0	650
211	5079517	460127	YY484580	5436598	82F03	391L	9P	5.9	430	408MB	DBR	50A	20 N	18	344	32	1820	4.0	0	740
212	5079517	460128	YY484588	5436590	82F03	2HIL	9	6.2	420	308MB	MBR	P15A		4	104	22	3590	0.8	20	530
213	5079517	460129	YY484580	5436690	92F03	271L	9	5.8	425	358MB	MBR	P10A	15NE	3	48	24	1020	0.6	2	450
214	5079517	460130	YY484680	5436490	82F03	291L	9B	5.6	425	358MB	MBR	10A	15 W	5	72	30	1610	0.4	2	670
215	5079517	460131	YY486713	5433547	82F03	371L	9B	5.2	425	358FP	RB	6A	22SW	1	18	24	110	0.2	0	410
216	5079517	460132	YY486710	5433650	82F03	371L	9B	4.7	425	358FP	ORBR	10S	21SW	1	20	30	96	0.2	0	510
217	5079517	460133	YY486710	5433750	82F03	371L	9B	4.6	430	408FP	ORBR	10A	24NW	1	24	32	80	0.2	0	560
218	5079517	460134	YY486710	5433850	82F03	171L	9P	5.1	425	358FP	ORBR	10A	25NE	1	20	20	106	0.2	0	430
219	5079517	460135	YY486709	5433949	82F03	371L	9P	5.4	420	308FP	ORBR	8A		1	26	22	103	0.2	0	490
220	5079517	460136	YY486700	5434050	82F03	371L	9B	5.6	425	358FP	ORBR	10S	21SE	1	18	14	86	0.2	0	440
221	5079517	460137	YY486710	5434159	82F03	271L	9P	5.3	420	308FP	ORBR	10A	15	1	16	20	116	0.2	0	480
222	5079517	460138	YY486690	5434270	82F03	371L	9B	5.7	425	358FP	ORBR	10A	30NE	1	26	22	120	0.2	0	540
223	5079517	460139	YY486698	5434368	82F03	371L	9P	5.7	425	358FP	ORBR	9A	33NE	1	16	10	116	0.4	0	440
224	5079517	460140	YY486695	5434470	82F03	371L	9	5.1	425	358FP	ORBR	10	21NE	1	12	18	170	0.2	0	420
225	5079517	460141	YY486691	5434575	82F03	371L	9	5.4	425	358FP	RB	8	22NE	2	16	18	162	0.2	0	640
226	5079517	460142	YY486689	5434680	82F03	271L	9	5.4	425	358FP	RB	10A	17NE	2	12	16	220	0.3	0	470
227	5079517	460143	YY486687	5434739	82F03	271L	9	5.2	425	358FP	RB	11A	17NE	1	12	14	160	0.3	2	450
228	5079517	460144	YY486685	5434798	82F03	371L	9	5.4	425	358FP	ORBR	10A	21NW	1	16	10	186	0.3	0	470
229	5079517	460145	YY486680	5434870	82F03	271L	9	5.7	425	358FP	RB		17NE	1	20	10	200	0.2	0	520
230	5079517	460146	YY486682	5435019	82F03	271L	9	5.6	425	358FP	ORBR	5A	12NE	2	20	10	168	0.2	0	490
231	5079517	460148	YY486679	5435332	82F03	371L	9	5.6	425	358FP	ORBR	8A	21NE	1	14	14	176	0.2	0	490
232	5079517	460149	YY486679	5435439	82F03	271L	9	5.4	425	358FP	ORBR	8A	15NE	1	16	24	316	0.2	0	510
233	5079517	460150	YY486672	5435532	82F03	271L	9	5.9	425	358FP	ORBR	8A	12NE	1	14	10	214	0.2	0	375
234	5079517	460151	YY486611	5435580	82F03	271L	9	5.3	425	358FP	LORBR	10A	16NE	1	12	14	220	0.2	0	480
235	5079517	460152	YY486515	5435590	82F03	371L	9	5.8	425	358FP	MORBR	7A	30NE	2	20	12	198	0.2	0	560
236	5079517	460153	YY486415	5435530	82F03	371L	9	6.0	425	358MB	LBR	11A	26NE	1	16	10	196	0.2	0	490
237	5079517	460154	YY486315	5435580	82F03	271L	9	6.8	425	358MB	MBR	7	15NE	1	16	12	136	0.2	0	620
238	5079517	460155	YY486220	5435530	82F03	371L	9	5.7	425	358FP	RB	10	24NE	1	14	10	290	0.2	0	420
239	5079517	460156	YY486675	5433596	82F03	371L	9B	5.0	420	308MB	DBR	10S	25SW	1	16	50	98	0.2	0	520
240	5079517	460157	YY486575	5433596	82F03	271L	9P	6.9	425	358FP	RB	5A	12SE	2	20	22	74	0.4	0	630

241	5079517	460158	YY486475	5433596	82F03	271L	9P	5.3425	35BFP	ORBR	5A	16SW	1	22	16	86	0.4	0	660
242	5079517	460159	YY486375	5433596	82F03	371L	9	5.5425	35[illegible]	RB	5A	25SW	1	12	16	72	0.2	0	540
243	5079517	460160	YY486275	5433596	82F03	271L	9	5.7425	35BFP	ORBR	5A	15SW	2	14	16	90	0.2	0	530
244	5079517	460161	YY486175	5433[illegible]	82F03	371L	9P	5.5420	30BFP	RB	10A	24SW	1	10	46	108	0.2	0	500
245	5079517	460163	YY486140	5433700	82F03	371L	9P	5.5425	35BFP	RB	12A	33SW	2	24	16	136	0.4	0	560
246	5079517	460164	YY486139	5433800	82F03	371L	9P	5.2425	35BFP	ORBR	20A	35 S	1	22	24	106	0.2	0	550
247	5079517	460165	YY486140	5433910	82F03	171L	9B	5.7420	30BFP	RB	15	14SW	1	24	48	90	0.4	0	460
248	5079517	460166	YY486135	5434015	82F03	371L	9P	5.1425	35BFP	ORBR	9A	25 W	1	24	24	104	0.2	0	510
249	5079517	460167	YY486130	5434125	82F03	371L	9	5.4425	35BFP	RB	8A	28 W	1	26	34	80	0.4	0	440
250	5079517	460168	YY486130	5434225	82F03	371L	9	5.3425	35BFP	RB	10A	25 W	2	16	20	96	0.4	0	500
251	5079517	460169	YY486125	5434329	82F03	371L	9P	5.0425	35BFP	RB	6A	22NW	1	12	18	108	0.2	0	260
252	5079517	*460170	YY486120	5434430	82F03	371L	9/	5.1425	35BFP	ORBR	8A	26NW	1	24	28	94	0.2	0	600
253	5079517	*460171	YY486120	5434430	82F03	371L	9D	5.0425	35BFP	ORBR	8A	26NW	2	22	26	102	0.2	0	620
254	5079517	460172	YY486113	5434539	82F03	771L	9P	5.3425	35BFP	RB	8A	0	1	20	10	98	0.2	0	560
255	5079517	460173	YY486113	5434636	82F03	271L	9D	5.4420	30BFP	RB	12A	15NW	1	12	14	106	0.2	0	480
256	5079517	460174	YY486111	5434740	82F03	271L	9P	5.5425	35BFP	ORBR	9A	12 N	1	12	10	94	0.2	0	500
257	5079517	460175	YY486105	5434843	82F03	271L	9	5.5420	30BFP	ORBR	10A	10 N	1	14	10	108	0.2	0	500
258	5079517	460176	YY486100	5434940	82F03	771L	9	5.9420	30BFP	LRB	9A		1	20	8	140	0.2	0	540
259	5079517	460177	YY486099	5435038	82F03	271L	9	5.8425	35BFP	RB	5A	10NW	2	18	6	108	0.2	0	480
260	5079517	460178	YY486095	5435148	82F03	271L	9	5.8425	35BFP	RB	8	18NE	2	12	8	110	0.2	0	420
261	5079517	460179	YY486090	5435234	82F03	371L	9	5.3425	35BMB	CLBR	9A	24NE	3	18	10	118	0.2	0	590
262	5079517	460180	YY486088	5435335	82F03	391L	9	5.7425	35BMB	MBR	8A	22NE	1	20	10	134	0.2	0	550
263	5079517	460181	YY486084	5435430	82F03	371L	9	5.3425	35BMB	MBR	8A	24NE	1	16	22	190	0.4	0	450
264	5079517	460182	YY486080	5435530	82F03	371L	9	5.5425	35BFP	RB	15A	28NE	1	16	12	146	0.2	0	520
265	5079517	460183	YY485783	5435625	82F03	371L	9	4.9430	40BMB	MBR	5A	25 N	2	18	20	216	0.2	0	470
266	5079517	460184	YY485780	5435729	82F03	371L	9	5.2425	35BMB	DBR	5A	20NW	1	18	18	236	0.2	2	500
267	5079517	460185	YY485775	5435827	82F03	271L	9	5.1425	35BMB	DBR	6A	9NW	2	16	14	304	0.2	0	430
268	5079517	460186	YY485770	5435927	82F03	271L	9	5.7420	30BMB	MBR	16A	18NW	2	36	16	670	1.2	2	620
269	5079517	460187	YY485765	5436022	82F03	271L	9	5.4425	35BM 7		5A	12NE	2	40	32	1810	0.8	0	550
270	5079517	460188	YY486086	5433593	82F03	371L	9P	5.5420	30BFP	RB	10A	26SW	1	18	24	150	0.2	0	480
271	5079517	460189	YY485988	5433593	82F03	371L	9B	5.8420	30BFP	ORBR	10A	24SW	1	20	20	110	0.2	0	520
272	5079517	460190	YY485890	5433593	82F03	371L	9P	5.6420	30BFP	RB	8A	25SW	1	16	16	138	0.2	2	500
273	5079517	460191	YY485855	5433800	82F03	171L	9B	5.4420	30BFP	LRB	15A	12SW	1	24	34	200	0.2	0	500
274	5079517	460192	YY485855	5433850	82F03	271L	9P	5.7425	35BFP	RB	10A	10NW	2	20	8	100	0.2	0	440
275	5079517	460193	YY485854	5433945	82F03	271L	9	5.3420	30BFP	RB	15A	12NW	1	16	18	166	0.2	0	350
276	5079517	460194	YY485850	5434043	82F03	371L	9	5.3425	35BFP	RB	12A	24NW	1	16	20	104	0.4	0	440
277	5079517	460195	YY485845	5434140	82F03	371L	9	5.8425	35BFP	RB	10A	30 W	1	18	14	126	0.4	0	540
278	5079517	460196	YY485830	5434240	82F03	371L	9P	5.1425	35BFP	ORBR	8A	30NW	1	16	18	126	0.2	0	420
279	5079517	*460197	YY485839	5434340	82F03	271L	9	5.7425	35BFP	RB	8A	18 W	1	12	16	118	0.2	0	470
280	5079517	*460198	YY485854	5433945	82F03	271L	9	5.7425	35BFP	RB	3A	18 W	1	12	16	118	0.2	0	460
281	5079517	460199	YY485834	5434444	82F03	271L	9	5.1425	35BFP	ORBR	8A	7NW	1	16	16	154	0.2	0	370
282	5079517	460200	YY485830	5434543	82F03	291L	9	5.5425	35BFP	ORBR	8A	15NW	1	20	12	154	0.2	0	360
283	5079517	460201	YY485825	5434640	82F03	371L	9P	5.3425	35BFP	LRB	7A	22NW	1	24	12	148	0.2	0	430
284	5079517	460202	YY434451	5435612	82F03	371L	9P	5.1425	35BMB	LBR	6A	22NW	6	40	16	996	0.2	15	680
285	5079517	460203	YY484450	5435653	82F03	271L	9P	5.8425	35BMB	LBR	3S	14NW	4	50	26	1410	0.2	5	640
286	5079517	460204	YY484450	5435699	82F03	371L	9P	5.7425	35BFP	ORBR	12A	24NW	6	16	10	916	0.2	2	460
287	5079517	460205	YY484450	5435735	82F03	381L	9	5.4425	35BFP	LRB	5A	25NW	6	36	14	1130	0.2	10	540
288	5079517	460206	YY484450	5435735	82F03	381L	9P	6.1420	30BMB	LBR	10A	33 W	10	52	18	786	0.2	20	810
289	5079517	460207	YY484450	5435829	82F03	391L	9B	5.6420	30BFP	LORBR	15A	42NW	2	18	18	708	0.2	2	440
290	5079517	460208	YY484450	5435929	82F03	391L	9B	5.5420	30BMB	MBR	10A	40NE	4	48	20	1290	2.6	2	600
291	5079517	460210	YY484444	5436029	82F03	391L	6P	5.9430	40BMB	LBR	30A	42NW	6	68	26	1710	2.4	2	620
292	5079517	460213	YY484440	5436174	82F03	391L	8B	5.7420	30BMB	MBR	10A	42SW	8	136	24	1134	3.4	18	600
293	5079517	460214	YY484440	5436220	82F03	391L	9P	6.2425	35BMB	MBR	15A	38NW	6	60	36	1540	1.6	0	520
294	5079517	460215	YY484439	5436272	82F03	391L	9P	6.0425	35BMB	LBR	20A	40NW	10	200	16	1204	3.0	5	400
295	5079517	460216	YY484439	5436312	82F03	371L	9P	5.7432	40BMB	MBR	12A	42NW	2	90	40	940	1.0	0	640
296	5079517	460217	YY484438	5436364	82F03	391L	9P	6.4430	40BMB	LBR	15A	38NW	4	104	18	600	0.6	12	600
297	5079517	460218	YY484436	5436400	82F03	391L	9P	5.9425	35BMB	MBR	10A	38NW	2	70	18	306	0.2	8	760
298	5079517	460219	YY484435	5436453	82F03	371L	9B	6.1425	35BMB	MBR	15A	35NW	2	86	20	476	0.2	8	620
299	5079517	460220	YY484434	5436499	82F03	371L	9P	5.9425	35BMB	MBR	10A	35NW	2	80	16	520	0.2	10	620
300	5079517	460221	YY484433	5436545	82F03	371L	9P	6.1425	35BFP	ORBR	8A	27NW	2	50	12	508	0.2	8	480

301	5079517	460222	YY484432	5436586	82F03	391L	9	6.0425	35BMB	MBR	5A		22NW	2	90	16	388	0.2	5	600
302	5079517	460223	YY484432	5436629	82F03	371L	9	5.8425	35BFP	OPBR	P10A		26NW	2	60	18	340	0.2	2	580
303	5079517	460224	YY484431	5436677	82F03	371L	9	5.7425	35BFP	LORBR	P 8A		20NW	2	60	16	330	0.2	12	600
304	5079517	460225	YY484390	5436630	82F03	371L	9D	6.2425	35BMB	MBR	P 5A		38NW	2	98	28	284	0.2	10	600
305	5079517	*460226	YY484505	5436630	82F03	371L	9	5.9425	35BFP	ORBR	10A		24NW	2	32	16	472	0.2	0	610
306	5079517	*460227	YY484505	5436630	82F03	371L	9	6.0425	35BFP	OPBR	10A		24NW	2	32	20	446	0.2	2	480
307	5079517	460228	YY485820	5434735	82F03	371L	9	5.5425	35BFP	ORBR	8A		24 W	1	28	14	140	0.2	0	520
308	5079517	460229	YY485820	5434785	82F03	371L	9	5.2425	35BFP	OPBR	10A		32 W	1	20	14	134	0.2	0	460
309	5079517	460230	YY485817	5434836	82F03	371L	9	5.5425	35BFP	ORBR	9A		23NW	1	24	18	172	0.2	0	580
310	5079517	460231	YY485815	5434888	82F03	371L	9	6.0425	35BFP	LPB	5A		22SW	1	24	16	98	0.2	0	590
311	5079517	460232	YY485815	5434934	82F03	271L	9	6.1425	35BMB	MBR	5A		18SW	1	24	12	108	0.2	0	570
312	5079517	460233	YY485810	5434984	82F03	271L	9	5.8425	35BFP	ORBR	4A		15SW	1	24	12	122	0.2	0	540
313	5079517	460234	YY485813	5435035	82F03	271L	9	5.7425	35BFP	CPBR	4A		16SW	1	22	14	104	0.2	0	610
314	5079517	460235	YY485810	5435084	82F03	271L	9	5.7425	35BFP	LORBR	4A		21SW	1	22	18	142	0.2	0	750
315	5079517	460236	YY485134	5435134	82F03	271L	9	5.8425	35BFP	ORBR	5A		10SW	1	28	16	110	0.2	0	600
316	5079517	460237	YY485805	5435184	82F03	271L	9	6.1425	35BFP	CPBR	5A		12 W	1	24	12	122	0.2	0	450
317	5079517	460238	YY485805	5435233	82F03	371L	9	6.1425	35BFP	DRB	10A		20NW	1	24	12	138	0.2	0	640
318	5079517	460239	YY485802	5435283	82F03	271L	9	5.4425	35BFP	ORBR	5A		15NW	2	20	12	108	0.2	0	500
319	5079517	460240	YY485800	5435333	82F03	371L	9	5.8425	35BMB	MBR	20A		24NW	1	16	16	120	0.2	0	520
320	5079517	460241	YY485799	5435383	82F03	271L	9	5.7425	35BMB	MBR	8A		14NW	2	20	12	120	0.2	0	510
321	5079517	460242	YY485799	5435433	82F03	371L	9	6.0425	35BMB	MBR	9A		25NW	2	28	14	192	0.2	0	600
322	5079517	460243	YY485794	5435675	82F03	371L	9	5.4425	35BFP	LORBR	7A		25NW	2	26	10	168	0.2	0	540
323	5079517	460244	YY485790	5435530	82F03	271L	9	5.1425	35BFP	LORBR	8A		17NW	2	24	14	236	0.2	0	520
324	5079517	460245	YY485485	5435623	82F03	371L	9P	5.8425	35BMB	DBR	8A		20SE	2	94	94	364	0.4	0	900
325	5079517	460246	YY485488	5435675	82F03	271L	9/	6.2425	35BMB	MBR	10A		23SE	2	44	32	550	1.0	2	660
326	5079517	460247	YY485485	5435723	82F03	271L	9	6.0425	35BMB	OLBR	10A		12SE	2	28	30	420	0.4	0	480
327	5079517	460248	YY485475	5435777	82F03	271L	9D	5.9425	35BMB	LOLBR	8A		14SE	2	40	74	620	0.2	0	640
328	5079517	460249	YY485488	5435823	82F03	371L	9P	6.2425	35BMB	DBR	7A		20 E	1	22	340	1120	1.8	0	520
329	5079517	460250	YY485488	5435875	82F03	271L	9B	5.9425	35BMB	DBR	10A		12NE	1	26	78	1500	1.0	2	500
330	5079517	460251	YY485485	5435923	82F03	371L	9B	6.1425	35BMB	MBR	12A		27NE	1	56	12	550	0.2	0	520
331	5079517	460252	YY485485	5435973	82F03	371L	9D	6.5425	35BMB	LBR	12A		25 E	2	40	10	500	0.2	0	690
332	5079517	460253	YY485488	5436020	82F03	371L	9B	5.7428	40BMB	LBR	20A		22NE	2	38	10	760	0.2	0	700
333	5079517	460254	YY485488	5436070	82F03	371L	9	5.6425	35BMB	MBR			34 E	4	38	10	566	0.2	0	830
334	5079517	460255	YY485488	5436119	82F03	371L	9B	5.5425	35BMB	LBR	12A		32SE	4	42	16	816	0.2	0	800
335	5079517	460256	YY485483	5433595	82F03	271L	9P	5.1425	35BFP	OPBR	2S	13	14NW	1	18	20	96	0.2	0	560
336	5079517	460257	YY485433	5433595	82F03	271L	9B	6.0425	35BFP	ORBR	12A	13	19NW	1	18	16	132	0.2	0	560
337	5079517	460258	YY485383	5433595	82F03	571L	P	6.0425	35BFP	ORBR	6A	13	6SW	1	16	16	134	0.2	0	550
338	5079517	460259	YY485233	5433595	82F03	371L	9D	6.3425	35BFP	LPB		20	30SE	1	20	24	82	0.2	0	580
339	5079517	460260	YY485292	5433643	82F03	291L	9	6.0425	35BFP	ORBR	5A	11	4NW	1	16	10	204	0.2	0	580
340	5079517	460261	YY485289	5433699	82F03	291L	9	5.9425	35BFP	CRBR	6A2	11	5NW	1	16	10	188	0.2	0	500
341	5079517	460262	YY485288	5433749	82F03	291L	9	6.1425	35BMB	LBR	6A2	12	5NW	1	22	12	146	0.2	0	640
342	5079517	460263	YY485282	5433849	82F03	291L	9	6.0425	35BFP	ORBR	6A2	11	4NW	1	20	10	144	0.2	0	480
343	5079517	460264	YY485279	5433899	82F03	271L	9	6.1425	35BFP	LORBR	8A2	13	4NW	1	20	14	240	0.4	0	640
344	5079517	460265	YY485277	5433949	82F03	371L	9	6.4425	35BFP	LORBR	6A2	15	25NW	2	24	18	458	0.4	0	630
345	5079517	460266	YY485274	5433999	82F03	371L	9	6.2425	35BMB	DBR	10S2	15	28NW	1	52	26	570	0.6	12	810
346	5079517	460267	YY485270	5434043	82F03	371L	9	5.8425	35BMB	MBR	9A2	14	25NW	1	28	16	272	0.4	2	730
347	5079517	460268	YY485267	5434093	82F03	371L	9	5.0425	35BFP	ORBR	6A2	11	22NW	2	20	12	274	0.2	0	680
348	5079517	460269	YY485264	5434143	82F03	371L	9	5.9425	35BFP	CRBR	6A2	15	34NW	1	20	12	124	0.2	0	670
349	5079517	460271	YY485260	5434193	82F03	391L	9	6.5425	35BFP	ORBR	8A2	11	25SW	1	22	10	110	0.2	0	650
350	5079517	460272	YY485260	5434243	82F03	381L	9	6.6425	35BMB	MBR	8A2	12	30SW	1	26	14	122	0.2	0	790
351	5079517	460273	YY485255	5434293	82F03	391L	9	6.1425	35BMB	LBR	6A2	14	24SW	1	22	8	98	0.2	0	730
352	5079517	460274	YY485250	5434393	82F03	281L	9	6.3425	35BFP	LORBR	7A2	11	15SW	1	18	8	122	0.2	0	720
353	5079517	460275	YY485246	5434443	82F03	271L	9	5.7425	35BMB	OLBR	8A2	11	18NW	1	24	12	98	0.2	0	800
354	5079517	460276	YY485243	5434493	82F03	271L	9	6.2425	35BFP	RB	6A2	12	11 W	1	12	16	166	0.2	0	680
355	5079517	460277	YY485240	5434543	82F03	271L	9	6.4425	35BFP	DORBR	10A2	13	17 W	1	24	14	114	0.2	0	600
356	5079517	*460278	YY485239	[illegible]	82F03	271L	9	6.4425	35BMB	MBR	7A2	11	14 W	1	20	12	130	0.2	0	590
357	5079517	*460279	YY485236	[illegible]	82F03	271L	9	6.5425	35BMB	MBR	7A2	11	14 W	1	20	8	124	0.2	0	560
358	5079517	460280	YY485479	5435528	82F03	371L	9D	6.0425	35BMB	DDR	5A2	10	30NW	2	44	22	506	0.2	0	1400
359	5079517	460281	YY485480	5435479	82F03	271L	9	5.3425	35BFP	ORBR	6A2	12	19NW	1	20	14	366	0.2	0	620
360	5079517	460282	YY485480	5435427	82F03	371L	9	6.2425	[illegible]	DBBR	6A2	13	21NW	1	18	14	350	0.2	0	[illegible]

361	5079517	460283	YY485376	5435481	82F03	371L	9	6.2425	35BFP	ORBR	6A2	12	22NW	1	20	12	164	0.2	0	640
362	5079517	460284	YY485328	5435483	82F03	271L	9	6.1425	35BFP	ORBR	5A2	12	17NW	1	20	14	138	0.2	0	650
363	5079517	460285	YY485481	5435275	82F03	271L	9	6.0425	35BFP	ORBR	6A2	13	17 W	1	22	14	136	0.2	0	490
364	5079517	460286	YY485483	5435225	82F03	371L	9	6.4425	35BFP	LORBR	10A2	9	22 W	1	22	12	110	0.2	0	640
365	5079517	460287	YY485486	5435176	82F03	271L	9P	6.2425	35BFP	ORBR	7A2	11	15 W	1	18	12	100	0.2	0	640
366	5079517	460288	YY485488	5435126	82F03	271L	9	6.6425	35BMB	LBR	7A2	10	5SW	1	22	10	100	0.2	0	580
367	5079517	460289	YY485489	5435077	82F03	271L	9	6.4425	35BPP	LRB	6A2	12	11SW	1	24	12	124	0.2	0	570
368	5079517	460290	YY485490	5435274	82F03	371L	9	6.1425	35BFP	LORBR	6A2	9	22SW	1	22	16	138	0.2	0	740
369	5079517	460291	YY485490	5434975	82F03	371L	9	4.9425	35BFP	ORBR	5A2	14	21SW	1	18	12	134	0.2	0	590
370	5079517	460292	YY485490	5434923	82F03	371L	9	6.4425	35BFP	ORBR	5A2	11	21SW	1	14	10	138	0.2	0	520
371	5079517	460293	YY485491	5434876	82F03	271L	9	6.0425	35BFP	ORBR	6A2	10	5SW	1	18	10	128	0.2	0	530
372	5079517	460294	YY485492	5434818	82F03	271 L	9	6.5425	35BMB	MBR	6A2	9	10SW	1	16	12	94	0.2	0	660
373	5079517	460295	YY485229	5434642	82F03	271L	9	5.9425	35BFP	ORBR	5A2	12	14NW	1	20	12	150	0.2	0	700
374	5079517	460296	YY485227	5434695	82F03	371L	9	6.9425	35BFP	ORBR	9A2	12	21NW	1	22	14	144	0.2	0	730
375	5079517	460297	YY485225	5434748	82F03	271L	9	6.1425	35BFP	ORBR	6A	11	16NW	1	28	12	148	0.2	0	740
376	5079517	460298	YY485221	5434781	82F03	271L	9	6.0425	35BFP	ORBR	7A2	11	15NW	1	16	14	150	0.2	0	700
377	5079517	460300	YY485219	5434890	82F03	291L	9	6.5425	35BFP	ORBR	7S2	12	SW	1	24	14	222	0.2	0	670
378	5079517	460301	YY485215	5434890	82F03	371L	9	6.4425	35BFP	ORBR	9A	15	22 W	1	24	16	252	0.2	0	670
379	5079517	460302	YY485210	5434990	82F03	371L	9	6.3425	35BMB	MBR	6A2	15	24 W	1	32	20	236	0.2	0	740
380	5079517	460303	YY485210	5435038	82F03	371L	9	6.3425	35BMB	OLBR	7A2	12	25 W	1	40	20	234	0.2	0	860
381	5079517	460304	YY485205	5435090	82F03	371L	9	6.4425	35BMB	OLBR	6A2	11	27 W	1	36	20	316	0.2	5	780
382	5079517	460305	YY485202	5435138	82F03	571L	9	6.4425	35BFP	ORBR	5A2	11	4 W	1	34	12	820	0.2	0	680
383	5079517	460307	YY485200	5435206	82F03	271L	9D	6.5425	35BFP	ORBR	7A2	11	SE S	2	80	20	1116	1.0	2	710
384	5079517	460308	YY485199	5435240	82F03	371L	9	6.0425	35BMB36	F	7A2	15	28	2	48	26	522	0.2	2	1050
385	5079517	460309	YY485195	5435280	82F03	291L	9	6.8425	35BMB	MBR	8A2	14	5SE	2	76	52	2948	0.6	0	970
386	5079517	460310	YY485191	5435322	82F03	271L	9	6.4425	35BFP	FB	15A2	12	15SE	2	92	20	438	1.0	0	760
387	5079517	460311	YY485190	5435380	82F03	371L	9P	6.5425	35BMB	DBR	15A2	14	35SE	2	104	42	448	0.6	0	1250
388	5079517	460312	YY485186	5435432	82F03	371L	9D	6.5425	35BMB	DBR	10A2	12	32SE	2	92	140	590	0.4	0	1100
389	5079517	460313	YY485183	5435478	82F03	371L	9P	6.5425	35BMB	MBR	10A2	12	28SE	2	58	106	830	0.4	0	870
390	5079517	460314	YY485180	5435530	82F03	371L	9D	6.6425	35BMB	MBR	9A2	12	32SE	2	90	20	768	0.2	10	1000
391	5079517	460315	YY485180	5435629	82F03	271L	9D	6.8425	35BMB	LBR	8A2	11	6SE	2	80	12	608	0.2	5	880
392	5079517	460316	YY485180	5435630	82F03	271L	9P	6.1425	35BFP	LBR	9A2	12	12SE	2	76	16	440	0.2	0	820
393	5079517	460317	YY485180	5435779	82F03	171L	9P	5.5425	35BMB	LBR	10A2	14	4SE	2	60	20	372	0.2	10	830
394	5079517	460318	YY485181	5435827	82F03	271L	9P	6.1425	35BFP3	F	7A2	10	14NW	1	30	8	210	0.2	0	820
395	5079517	460319	YY485180	5435880	82F03	371L	9	6.1425	35BMB	MBR	6A2	11	25NW	1	34	10	288	0.2	2	900
396	5079517	460320	YY485180	5435930	82F03	371L	9	5.7425	35BMB	MBR	8A2	17	32NW	2	44	12	608	0.2	10	810
397	5079517	460321	YY485180	5435980	82F03	371L	9	5.1425	35BMB	OLBR	7A2	12	22NW	2	38	10	556	0.2	15	860
398	5079517	460322	YY485180	5436030	82F03	271L	9	5.7425	35BMB	DBR	8A2	12	9 W	4	36	12	650	0.2	12	880
399	5079517	460323	YY484615	5434475	82F03	371L	8P	5.8425	35BFP	ORBR	20A2	11	39NW	1	34	14	156	0.4	0	620
400	5079517	460324	YY484618	5434425	82F03	371L	9P	6.1425	35BFP	LORBR	10A2	12	35 W	1	36	22	210	0.2	10	810
401	5079517	460325	YY484619	5434375	82F03	371L	8P	6.2425	35BMB	LBR	15A2	13	35SW	1	38	22	164	0.2	12	630
402	5079517	460326	YY484619	5434323	82F03	371L	8P	6.8425	35BMB	LBR	10A2	11	34SW	1	32	16	386	0.4	0	760
403	5079517	460327	YY484619	5434271	82F03	371L	8P	6.4425	35BMB	LBR	20A2	12	32SW	1	20	8	192	0.4	0	570
404	5079517	460328	YY484620	5434223	82F03	371L	9P	6.7425	35BFP	ORBR	P17A2	13	32SW	1	36	12	168	0.6	0	620
405	5079517	460330	YY484620	5434175	82F03	371L	9D	5.7425	35BMB	MBR	6A2	13	28NW	1	32	30	268	0.4	0	830
406	5079517	460331	YY484621	5434125	82F03	371L	9	6.0425	35BMB	GRBR	20A2	12	38NE	2	76	30	480	0.6	0	1350
407	5079517	460332	YY484622	5434075	82F03	371L	9	5.5425	35BMB	OLBR	5A2	12	25NE	1	28	18	566	0.6	0	700
408	5079517	460333	YY484623	5434025	82F03	381L	9	6.0425	35BMB	MBR	5B2	11	30NW	1	32	26	456	0.4	0	820
409	5079517	460334	YY484622	5433977	82F03	381L	9	5.8425	35BMB	MBR	5A2	11	22NW	1	34	20	308	0.4	2	810
410	5079517	460335	YY484625	5433927	82F03	281L	9D	6.1425	35BMB	MBR	7A2	11	23NW	1	22	76	356	0.2	0	690
411	5079517	460336	YY484625	5433877	82F03	381L	9D	5.7425	35BMB	MBR	5A2	10	21 N	1	28	36	374	0.2	10	780
412	5079517	460337	YY484628	5433827	82F03	391L	9	5.8425	35BMB	MBR	6A2	10	21NW	1	20	32	218	0.4	2	600
413	5079517	460338	YY484629	5433779	82F03	391L	9	6.2425	35BFP	ORBR	7A2	10	25NW	1	18	18	128	0.4	0	540
414	5079517	460339	YY484630	5433727	82F03	291L	9	5.7425	35BFP	ORBR	5A2	10	15NW	1	14	14	98	0.2	0	560
415	5079517	460340	YY484630	5433677	82F03	281L	9	6.2425	35BFP	ORBR	5A2	11	18NW	1	28	16	120	0.2	0	570
416	5079517	460341	YY484631	5433627	82F03	281L	9	6.1425	35BFP	LORBR	5A2	12	12 W	2	24	24	150	0.2	2	660
417	5079517	460342	YY484631	5433577	82F03	391L	9D	6.1425	35BFP	PB	5A2	12	22 W	1	20	18	130	0.2	2	510
418	5079517	460343	YY485050	5433500	82F03	271L	9	5.6425	35BFP	ORBR	5A2	11	10NW	1	34	54	100	0.2	0	710
419	5079517	460344	YY484996	5433550	82F03	271L	9	5.9425	35BFP	ORBR	4A2	11	5NW	1	22	16	126	0.2	0	820
420	5079517	460345	YY484388	5433590	82F03	271L	9	6.0425	35BFP	ORBR	4A2	10	8NW	1	14	16	150	0.2	0	560

421	5079517	460346	YY484835	5433590	82F03	271L	9	5.8	425	35BFP	ORBR	5A2	12	15NW	1	22	24	118	0.2	0	710
422	5079517	460347	YY484795	5433590	82F03	271L	9	5.6	425	35BFP	LORBR	7A2	15	19NW	1	18	16	90	0.2	0	630
423	5079517	460348	YY484750	5433590	82F03	271L	9P	5.9	425	35BFP	LORBR	6A2	12	11 W	1	22	18	148	0.2	0	640
424	5079517	460349	YY484690	5433590	82F03	291L	9	6.0	425	35BFP	LORBR	7A2	12	19NW	1	16	20	118	0.2	0	660
425	5079517	460350	YY484540	5433590	82F03	291L	9	6.0	425	35BFP	ORBR	4A2	10	15SW	1	28	20	134	0.2	2	800
426	5079517	460351	YY484499	5433590	82F03	291L	9P	5.6	425	35BFP	ORBR	5A2	14	15SW	1	22	14	140	0.2	0	670
427	5079517	460352	YY484445	5433590	82F03	291L	9	6.1	425	35BFP	ORBR	5A2	14	12SW	1	22	18	204	0.2	0	570
428	5079517	*460353	YY484390	5433590	82F03	291L	9	6.1	425	35BFP	RB	5A2	15	18SW	1	26	20	154	0.2	0	720
429	5079517	*460354	YY484390	5433590	82F03	291L	9	6.0	425	35BFP	RB	5A2	15	18SW	1	24	20	152	0.2	0	700
430	5079517	460355	YY484340	5433590	82F03	291L	9	6.4	425	35BFP	LORBR	7A2	11	19 W	1	20	16	172	0.2	0	560
431	5079517	460356	YY483395	5435540	82F03	281L	9P	6.4	425	35BMB	LBR	4A2	12	4SE	1	92	16	298	0.6	0	860
432	5079517	460357	YY483395	5435480	82F03	281L	9P	6.3	425	35BMB	LBR	4A2	14	18SE	1	50	14	308	0.8	0	770
433	5079517	460358	YY483395	5435382	82F03	281L	9	5.9	425	35BMB	GRBR	8A2	10	11SE	4	64	20	120	0.2	0	1490
434	5079517	460359	YY483395	5435331	82F03	281L	9D	5.8	425	35BMB	MBR	5A2	10	15SW	2	60	18	330	0.2	0	1820
435	5079517	460360	YY483395	5435281	82F03	281L	9D	6.3	425	35BMR	MBR	4A2	10	18SE	2	94	18	360	0.4	0	1160
436	5079517	460361	YY483395	5435281	82F03	281L	9	6.2	425	35BMR	MBR	5A2	12	18NW	1	40	22	588	0.8	10	850
437	5079517	460362	YY483395	5435231	82F03	381L	9	6.3	425	35BMB	LBR	5A2	13	23 W	1	66	18	536	0.8	10	810
438	5079517	460363	YY483395	5435081	82F03	281L	9	5.0	425	35BMB	LBR	4A2	15	15 W	2	88	20	650	1.4	0	810
439	5079517	460364	YY483395	5435031	82F03	291L	9P	6.3	425	35BMB	LBR	7A2	11	10SW	1	42	18	918	0.8	0	540
440	5079517	460365	YY483395	5434985	82F03	281L	9P	6.4	425	35BMB	LBR	4A2	14	16SW	2	34	18	620	1.4	0	550
441	5079517	460366	YY483395	5434935	82F03	281L	9P	6.5	425	35BMB	LBR	5A2	16	18SW	10	62	16	920	6.6	0	590
442	5079517	460367	YY483395	5434885	82F03	381L	9	6.1	425	35BMB	LBR	7A2	17	22SW	6	82	20	2040	1.2	0	940
443	5079517	460368	YY483395	5434835	82F03	281L	9P	6.0	425	35BMB	LBR	5A2	16	17SW	2	50	28	1800	2.0	0	1000
444	5079517	460369	YY483395	5434785	82F03	381L	9P	6.2	425	35BMB	LBR	6A2	14	20SW	2	48	26	1368	1.0	0	720
445	5079517	460370	YY483395	5434735	82F03	381L	9	6.4	425	35BMB	MBR	5A2	15	26 W	28	76	12	1600	3.6	0	940
446	5079517	460371	YY483395	5434685	82F03	281L	9D	6.5	425	35BMB	LBR	6A2	15	12 W	1	70	20	1860	3.6	0	1060
447	5079517	460372	YY483395	5434660	82F03	1 L	9	7.0	20.3	104		12 2	10	4SW	4	134	30	4200	2.8	0	500
448	5079517	460373	YY483395	5434635	82F03	281L	9	6.0	425	35BMB	GRBR	8A2	12	9 W	8	54	72	988	0.6	0	830
449	5079517	460374	YY483395	5434585	82F03	381L	9	6.3	425	35BMB	GRBR	6A2	12	28NW	2	38	16	960	0.2	0	800
450	5079517	460375	YY483395	5434535	82F03	381L	9	6.5	425	35BMB	MBR	5A2	12	25NW	2	44	16	990	0.4	0	720
451	5079517	460376	YY483395	5434487	82F03	381L	9	5.2	425	35BFP	MBR	8A2	15	23 W	10	36	24	1580	1.2	0	580
452	5079517	460380	YY483395	5434285	82F03	281L	9P	6.3	425	35BMB	MBR	10A2	16	17SW	6	54	28	1760	0.8	0	720
453	5079517	460381	YY483395	5434235	82F03	281L	9	6.4	425	35BMB	LBR	P 5A2	15	4SW	4	32	28	2800	0.8	0	620
454	5079517	460382	YY483395	5434191	82F03	281L	9	6.6	425	35BMB	MBR	5A2	10	4SW	4	42	16	1660	0.6	0	630
455	5079517	460383	YY483395	5434140	82F03	281L	9	6.3	425	35BMB	MBR	5A2	11	5SW	2	42	16	1500	1.0	0	660
456	5079517	460384	YY483395	5434090	82F03	281L	9	6.0	425	35BMB	MBR	5A2	15	12SW	2	28	18	720	0.8	0	700
457	5079517	460385	YY483395	5434040	82F03	281L	9	6.0	425	35BMB	LBR	5A2	12	12SW	2	32	20	740	0.4	0	690
458	5079517	460386	YY484080	5435580	82F03	271L	9	5.2	425	35BMB	DBR	5A2	17	12SW	4	40	22	604	0.6	0	680
459	5079517	460387	YY484030	5435580	82F03	271L	9B	6.1	425	35BMB	LBR	P 5A2	17	6SW	1	34	20	1120	0.4	0	600
460	5079517	460388	YY483937	5435580	82F03	371L	9B	6.2	425	35BMB	DBR	5A2	16	22NW	2	58	20	1500	1.4	0	670
461	5079517	460389	YY483887	5435580	82F03	341L	9P	6.4	425	35BMB	DBR	5A2	20	23 W	1	76	16	1380	1.2	0	1220
462	5079517	460390	YY483840	5435580	82F03	271L	9P	6.0	425	35BMB	DBR	5A2	19	5 W	1	42	16	1390	1.4	0	770
463	5079517	460391	YY483789	5435580	82F03	271L	9B	5.7	425	35BMB	LBR	11A2	19	7 W	6	64	26	1720	1.0	12	860
464	5079517	460392	YY483739	5435580	82F03	291L	9P	6.2	425	35BMB	MBR	5A2	16	12SW	2	58	16	1030	1.4	0	600
465	5079517	460393	YY483689	5435580	82F03	281L	9B	5.7	425	35BMB	LBR	8A2	16	12SW	6	68	20	1200	1.6	0	820
466	5079517	460394	YY483639	5435580	82F03	381L	8P	6.4	425	35BMB	DBR	30A2	19	30NW	4	50	34	2000	1.8	0	640
467	5079517	460395	YY483541	5435580	82F03	381L	9B	5.9	420	30BMB	DBR	10A2	10	32SW	2	158	26	342	0.6	0	1200
468	5079517	460396	YY483490	5435580	82F03	381L	8B	5.5	420	30BMB	GR	10A2	12	25SW	5	64	42	360	0.6	0	930
469	5079517	460397	YY483441	5435580	82F03	381L	9B	7.3	420	30BMB	MBR	8A2	15	22 S	2	252	14	670	0.8	0	1050
470	5079517	460398	YY483690	5435630	82F03	381L	9P	6.3	425	35BMB	MBR	5A2	14	32 W	6	90	28	2030	1.6	0	810
471	5079517	460399	YY483690	5435730	82F03	381L	9	6.1	425	35BMB	MBR	7A2	10	30 N	1	84	22	324	1.0	0	780
472	5079517	460400	YY483690	5435780	82F03	391L	9	5.7	425	35BMB	MBR	10A2	16	42 W	4	212	30	730	1.0	0	780
473	5079517	460401	YY483690	5435829	82F03	381L	9	6.0	420	30BMB	MBR	12A2	12	32 N	2	118	28	396	0.6	0	900
474	5079517	460402	YY483690	5435929	82F03	381L	9P	6.0	425	35BMB	MBR	10A2	16	28NW	2	76	18	400	0.6	0	660
475	5079517	460403	YY483690	5435976	82F03	371L	9P	5.3	425	35BFP	GRBR	10A2	12	30 N	1	70	16	630	0.4	0	570
476	5079517	460404	YY483690	5436025	82F03	371L	9P	5.6	425	35BMB	MBR	8A2	15	25 N	1	60	20	448	0.6	0	700
477	5079517	460405	YY483690	5436076	82F03	391L	9	5.9	425	35BMB	MBR	10S2	16	(_II	1	68	20	634	0.6	5	600
478	5079517	460406	YY483693	5435529	82F03	281L	9D	5.6	425	35BMB	MBR	8A2		12SW	4	52	16	1340	1.2	0	620
479	5079517	460407	YY483693	5435410	82F03	291L	9P	6.1	425	35BMB	LBR	8A2	17	18SW	1	28	14	1280	0.6	0	540
480	5079517	460408	YY483694	5435330	82F03	391L	9	6.1	425	35BMB	MBR	5A2	11	25SW	2	76	20	680	0.6	0	790

481	5079517	460409	YY483696	5435229	82F03	391L	9	6.2425	35BMB	MBR	.5A2	.14	22NW	.2	46	12	1640	1.2	0	760
482	5079517	460410	YY483698	5435132	82F03	291L	9R	6.0425	35BMB	LBR	12A2	20	18 W	4	88	10	1700	1.0	0	950
483	5079517	460411	YY483700	5435031	82F03	381L	9	5.8425	35BMB	MBR	6A2	15	25 W	2	32	10	1780	0.4	0	720
484	5079517	460412	YY483695	5434930	82F03	381L	9	5.9425	35BMB	LBR	6A2	12	22 W	3	38	8	1500	0.8	0	750
485	5079517	460413	YY483697	5434830	82F03	381L	9R	6.1425	35BMB	LBR	12A2	16	26 W	4	32	12	2280	0.6	2	660
486	5079517	460414	YY483700	5434730	82F03	381L	9P	6.0425	35BMB	MBR	10A2	19	30NW	8	62	14	3600	0.6	0	620
487	5079517	460415	YY483700	5434630	82F03	2?1L	9R	5.9425	35BMB	LBR	12A2	22	11 W	10	84	20	2080	1.8	0	720
488	5079517	460416	YY483700	5434530	82F03	291L	9P	6.5425	35BMB	MBR	5A2	12	18SW	4	50	16	420	0.6	5	640
489	5079517	460418	YY483700	5434232	82F03	381L	9P	6.6425	35BMB	MBR	8A2	14	21SE	2	32	24	1170	0.6	0	610
490	5079517	460419	YY483705	5434134	82F03	281L	9	6.1425	35BMB	LBR	8A2	15	12 S	2	26	14	1050	0.4	0	600
491	5079517	460420	YY483710	5434048	82F03	281L	9	6.4425	35BMB	MBR	5A2	15	10 S	4	38	20	1300	0.8	0	630
492	5079517	460421	YY483708	5433980	82F03	281L	9	6.4425	35BMB	MBR	5A2	12	12SW	2	24	14	726	0.6	0	580
493	5079517	460422	YY483710	5433910	82F03	281L	9	6.0425	35BMB	GR	5A2	12	S	6	32	12	560	0.4	20	950
494	5079517	460423	YY483712	5433813	82F03	281L	9	5.8425	35BMB	GRBR	5A2	11	4 S	4	44	16	800	0.2	10	790
495	5079517	460424	YY483704	5433710	82F03	271L	9	5.5425	35BMB	LBR	5A2	12	10SW	2	28	30	660	0.6	5	560
496	5079517	460425	YY484850	5434440	82F03	391L	9D	5.8425	35BMB	DBR	12S2	12	32SW	4	40	16	430	0.2	0	860
497	5079517	460426	YY484850	5434380	82F03	371L	9R	5.5425	35BMB	DBR	9A2	13	35SW	2	40	26	260	0.4	0	690
498	5079517	460427	YY484851	5434329	82F03	39LL	9R	5.9425	35BMB	MBR	11A2	11	36SW	2	38	42	210	0.2	0	680
499	5079517	460428	YY484854	5434280	82F03	391L	9R	6.6425	35BMB	MBR	20A2	14	35SW	2	32	36	208	0.2	0	680
500	5079517	460429	YY484855	5434238	82F03	391L	9P	6.1425	35BMB	MBR	15A2	15	34SW	2	32	22	154	0.2	0	530
501	5079517	460430	YY484855	5434214	82F03	391L	9P	6.0425	35BMB	MBR	8A2	15	38SW	2	24	24	206	0.6	0	620
502	5079517	460432	YY484856	5434159	82F03	371L	9D	6.4425	35BMB	MBR	10A2	14	33 W	2	28	20	236	0.2	10	610
503	5079517	460434	YY484857	5434115	82F03	371L	9D	6.5425	35BMB	MBR	5A2	11	36 N	1	24	24	378	0.4	10	590
504	5079517	460435	YY484860	5434070	82F03	371L	9P	5.9425	35BMB	MBR	5A2	15	32 N	2	28	26	196	0.2	5	700
505	5079517	460436	YY484861	5434032	82F03	381L	9D	6.2425	35BMB	LBR	5A2	14	24 N	2	28	20	196	0.2	5	630
506	5079517	460437	YY484861	5434000	82F03	381L	9	5.7425	35BMB	MBR	7A2	12	24NW	1	52	18	246	0.2	10	610
507	5079517	460438	YY484860	5435970	82F03	281L	9	5.7425	35BMB	MBR	5A2	11	12NW	1	30	14	260	0.2	5	620
508	5079517	460439	YY484860	5435940	82F03	381L	9	5.7425	35BMB	MBR	5A2	10	23NW	1	28	20	176	0.2	0	600
509	5079517	460440	YY484860	5434900	82F03	381L	9	5.5425	35BMB	MBR	5A2	11	24NW	1	28	20	140	0.2	0	550
510	5079517	460441	YY484860	5434860	82F03	391L	9	5.1425	35BMB	MBR	6A2	10	25NW	1	22	22	230	0.4	0	560
511	5079517	460442	YY484861	5434800	82F03	291L	9	5.8425	35BMB	MBR	5A2	11	18NW	1	24	24	236	0.4	0	500
512	5079517	460443	YY484861	5434730	82F03	291L	9	5.3425	35BMB	MBR	15A2	10	17NW	1	24	12	152	0.2	0	520
513	5079517	460444	YY484865	5434568	82F03	291L	9	6.0425	35BMB	MRB	5A2	10	13NW	1	28	10	146	0.2	0	560
514	5079517	460445	YY483990	5435630	82F03	271L	9R	5.3425	35BMB	DBR	30A2	19	10 W	4	72	16	1400	3.2	0	1300
515	5079517	460446	YY483990	5436080	82F03	391L	9P	5.8425	35BFP	LORBR	10A2	15	32NW	1	60	22	306	0.6	0	610
516	5079517	460447	YY483990	5436030	82F03	391L	9R	5.8425	35BFP	LORBR	6A2	15	30NW	1	64	20	304	0.8	5	600
517	5079517	460449	YY483990	5435930	82F03	381L	9P	6.1425	35BFP	ORBR	5A2	16	39NW	2	38	16	720	0.6	5	480
518	5079517	460452	YY483990	5435780	82F03	391L	9R	5.5425	35BMB	DBR	9A2	22	41 W	40	440	42	2650	2.8	10	900
519	5079517	460453	YY483990	5435730	82F03	381L	9P	6.0425	35BMB	DBR	8A2	16	36NW	4	72	18	3180	1.2	10	840
520	5079517	460454	YY483990	5435680	82F03	271L	9P	5.7425	35BMB	DBR	5A2	11	12NW	2	52	20	640	0.8	15	750
521	5079517	460455	YY486210	5439850	82F03	371L	9	6.3425	35BMB	MBR	4A2	17	30NE	5	92	18	300	0.6	10	780
522	5079517	460456	YY486163	5439852	82F03	271L	9D	5.5425	35BMB	DBR	4A2	12	N	6	60	24	1080	0.6	5	740
523	5079517	460457	YY486114	5439852	82F03	371L	9P	5.7425	35BMB	DBR	4A2	14	22NW	6	52	30	480	0.8	10	400
524	5079517	460458	YY486065	5439850	82F03	371L	9D	5.6425	35BMB	MBR	4A2	15		5	56	44	1560	1.0	30	720
525	5079517	460459	YY486013	5439852	82F03	371L	9P	5.7425	35BMB	DBR	4A2	12	26NW	6	92	84	2200	3.6	10	740
526	5079517	460460	YY486012	5439795	82F03	371L	9D	5.6425	35BMB322	MBR	4A2	16	29 N	6	52	32	480	2.0	0	630
527	5079517	460461	YY486012	5439750	82F03	371L	9R	5.2425	35BMB	DBR	10A2	15	NW	20	84	30	520	1.0	5	640
528	5079517	460462	YY486012	5439657	82F03	111L	9P	4.9425	35BMB	DBR	5A2	15	10 W	8	68	46	640	0.2	0	520
529	5079517	460463	YY486012	5439600	82F03	311L	9R	4.8425	35BMB	DBR	6A2	17	25SW	10	84	32	1400	1.4	0	600
530	5079517	460464	YY486012	5439557	82F03	371L	9P	5.6425	35BMB	DBR	4A2	15	25SW	12	90	40	1360	0.8	0	570
531	5079517	460465	YY486012	5439500	82F03	371L	9P	5.9425	35BMB	DBR	7A2	17	27SW	10	92	36	1520	0.8	0	620
532	5079517	460466	YY486012	543946C	82F03	371L	9P	6.9425	35BMB	LBR	4A2	15	W	8	100	30	1000	0.2	5	700
533	5079517	460467	YY486011	5439401	82F03	371L	9P	4.8425	35BMB	LBR	4A2	13	W	10	108	24	1040	0.2	10	790
534	5079517	460468	YY486010	5439360	82F03	371L	9P	4.9425	35BMB	DBR	5A2	15	30 W	8	100	64	1030	0.2	5	720
535	5079517	460469	YY486010	5439301	82F03	371L	9P	5.4425	35BMB	LBR	7A2	15	30 W	8	100	58	1120	0.2	2	840
536	5079517	460470	YY486010	5439256	82F03	371L	9P	5.5425	35BMB	LBR	10A2	15	W	6	120	82	1160	0.4	5	770
537	5079517	460471	YY486010	5439156	82F03	371L	9P	5.7425	35BMB	DBR	10A2	17	21 W	6	88	44	1040	0.4	15	670
538	5079517	460472	YY486010	5439105	82F03	171L	9D	5.5425	30BMB	DBR	4A2	15	12 W	6	72	34	600	0.2	20	650
539	5079517	460473	YY[illegible]	5439047	82F03	171L	9P	4.9425	35BMB	MBR	6A2	11	12SW	4	44	26	520	0.2	0	640

541	5079517	460475	YY	486012	5438960	82F03	211L	9	4.9	425 35BMB	DBR	4A2	12	15SW	8	80	26	840	0.2	15	590
542	5079517	460476	YY	486016	5438905	82F03	111L	9	5.0	425 35BMB	MBR	11A2	25	9SW	8	90	66	1080	0.2	15	640
543	5079517	460477	YY	[illegible]	5438860	82F03	371L	9	4.8	425 35BMB	DBR	7A2	20	10SW	10	136	46	2120	1.8	15	460
544	5079517	460478	YY	486017	5438800	82F03	371L	9	5.7	42535 BMB	DBR	8A2	20	25 S	8	128	42	2120	1.2	10	630
545	5079517	460479	YY	486015	5438751	82F03	391L	9P	5.8	420 30BMB	DBR	11A2	18	28SE	6	140	42	1800	0.2	40	1100
546	5079517	460480	YY	486016	5438702	82F03	371L	9	5.9	425 35BMB	DBR	10A2	20	25SE	6	148	50	1840	0.2	40	1000
547	5079517	460481	YY	486013	5438659	82F03	391L	9	5.8	420 30BMB	DBR	10A2	17	25SE	2	68	28	1160	0.2	0	1200
548	5079517	460482	YY	486017	5438603	82F03	381L	9	6.1	425 35BMB	DBR	5A2	17	23SE	4	76	26	1400	0.2	10	1200
549	5079517	460483	YY	486017	5438558	82F03	391L	9	5.8	425 35BMB	DBR	5A2	15	28SE	4	72	20	1320	0.2	20	1200
550	5079517	460484	YY	486020	5438501	82F03	391L	9	6.3	425 35BMB	DBR	7A2	20	27SE	1	42	68	1080	0.2	5	530
551	5079517	460485	YY	486018	5438452	82F03	391L	9P	6.3	425 35BMB	DBR	5A2	23	28SE	2	40	76	960	0.2	5	400
552	5079517	460486	YY	486018	5438401	82F03	391L	9P	6.0	425 35BMB	DBR	8A2	23	22SE	4	36	46	600	0.2	0	430
553	5079517	460487	YY	486017	5438356	82F03	391L	9P	6.2	425 35BMB	DBR	7A2	25	22SE	4	36	56	600	0.2	10	420
554	5079517	460488	YY	486016	5438303	82F03	281L	9	6.1	425 35BFP	PB	7A2	23	18SE	6	28	26	560	0.2	5	470
555	5079517	460489	YY	486016	5438253	82F03	281L	9	6.0	425 35BFP	RB	5A2	25	18SE	6	28	28	520	0.2	0	560
556	5079517	460490	YY	486016	5438200	82F03	281L	9	6.1	425 35BMB	MBR	7A2	20	19SE	4	44	32	1880	0.2	20	510
557	5079517	460491	YY	486018	5438151	82F03	281L	9	6.1	425 35BMB	MBR	5A2	19	19SE	4	44	40	1800	0.2	5	480
558	5079517	460492	YY	486019	5438106	82F03	281L	9	6.1	425 35BMB	MBR	6A2	17	18SE	2	48	46	1960	0.2	10	600
559	5079517	460494	YY	486896	5438905	82F03	271L	9P	6.2	425 35BMB	MBR	5A		12SE	2	40	46	560	0.2	5	570
560	5079517	460495	YY	486900	5438960	82F03	271L	9	5.0	425 35BMB	DBR	5A		15SE	4	40	46	700	0.2	20	660
561	5079517	460496	YY	486898	5439002	82F03	371L	9	5.3	425 35BMB	MBR	5A		21SE	6	30	30	500	0.2	5	630
562	5079517	460497	YY	486899	5439052	82F03	371L	9	5.7	425 35BMB	MBR	7A		22SE	6	32	26	520	0.2	5	700
563	5079517	460498	YY	486900	5439100	82F03	371L	9	5.6	425 35BMB	MBR	4A		25 E	6	24	22	280	0.2	10	600
564	5079517	460499	YY	486900	5439150	82F03	371L	9B	5.5	425 35BMB	MBR	4A		27 E	4	20	34	280	0.2	15	620
565	5079517	460500	YY	486900	5439200	82F03	371L	9P	5.3	425 35BMB	MBR	4S		25SE	4	24	16	400	0.2	2	580
566	5079517	460501	YY	486900	5439250	82F03	371L	9D	5.6	425 35BMB	MBR	4S		25 E	4	20	14	420	0.2	10	660
567	5079517	460502	YY	486900	5439300	82F03	271L	9	5.5	425 35BMB	MBR	4S		15SE	4	20	20	320	0.2	5	610
568	5079517	460503	YY	486898	5439347	82F03	371L	9	5.6	425 35BMB	MBR	4S		23 E	4	16	16	260	0.2	5	670
569	5079517	460504	YY	486900	5439400	82F03	371L	9P	4.8	425 35BMB	MBR	5S		24SE	2	24	66	360	0.2	10	620
570	5079517	460505	YY	486897	5439450	82F03	371L	9P	5.5	425 35BMB	LBR	7A		22SE	4	28	36	380	0.2	10	800
571	5079517	460506	YY	486900	5439500	82F03	371L	9D	5.5	425 35BMB	MBR	5S		20SE	4	28	32	380	0.2	8	670
572	5079517	460507	YY	486900	5439550	82F03	371L	9B	6.0	425 35BMB	LBR	5A		20SE	4	24	16	380	0.2	0	690
573	5079517	460508	YY	486900	5439600	82F03	371L	9D	5.6	425 35BMB	MBR	5A		20SE	4	24	22	500	0.2	5	340
574	5079517	460509	YY	486900	5439645	82F03	371L	9	5.4	425 35BMB	MBR	10S		20SE	4	24	14	440	0.2	10	660
575	5079517	460510	YY	486900	5439700	82F03	371L	9	5.4	425 35BMB	DBR	12A		22SE	6	48	22	880	0.2	15	730
576	5079517	460511	YY	486900	5439756	82F03	371L	9	5.8	425 35BMB	DBR	15A		22SE	6	44	22	860	0.2	15	660
577	5079517	460512	YY	486900	5439847	82F03	371L	9B	5.9	425 35BMB	DBR	10A		30SE	6	44	54	580	0.2	10	740
578	5079517	470105	YY	485977	5439848	82F03	3A2L	8F	5.3	710020BMB322	DBR	20A	27*	35N	6	76	38	1000	1.6	10	620
579	5079517	470106	YY	485917	5439848	82F03	372L	8P	5.4	708015BMB322	DRBR	25A	20	30NW	4	44	24	660	2.4	0	460
580	5079517	470107	YY	485873	5439848	82F03	372L	8P	5.4	710020BMB322	DBR	25A	0019	25NW	14	96	24	1100	2.8	5	610
581	5079517	470108	YY	485823	5439845	82F03	381L	9P	5.0	310015BMB322	DBR	25A	0021*	35NW	12	120	18	660	1.8	0	670
582	5079517	470109	YY	485780	5439850	82F03	381L	8P	5.0	310020BMB322	DBR	20A	14	25NW	2	60	14	340	2.0	0	650
583	5079517	470110	YY	485780	5439800	82F03	392L	6P	5.1	315025BMB322	DBR	30	0016	35NW	4	60	26	740	1.6	10	580
584	5079517	470111	YY	485780	5439749	82F03	271L	6P	5.2	310020BMB322	MBR	10	0012	20NW	4	60	26	460	1.0	5	640
585	5079517	470112	YY	485780	5439700	82F03	172L	9P	5.1	510015BMB322	DBR	80	0015	00	6	64	44	560	0.4	0	640
586	5079517	470113	YY	485780	5439650	82F03	272L	9B	5.7	510015BMB322	DBR	80	15	15SE	6	88	50	720	0.2	0	840
587	5079517	470114	YY	485780	5439600	82F03	272L	9B	5.6	510015BMB322	DBR	80	21	20SW	16	140	110	1260	5.4	0	760
588	5079517	470115	YY	485780	5439552	82F03	272L	9B	5.7	510020BMB322	DBR	70	17	10S	6	96	34	880	1.0	0	810
589	5079517	470116	YY	485780	5439[illegible]	82F03	371L	6	5.8	415025BMB322	DBR	50	17	30S	6	72	46	1900	0.4	2	670
590	5079517	470117	YY	485780	5439450	82F03	372L	6P	6.5	310015BMB322	DBR	20A	17	30SW	6	88	28	1200	0.2	5	700
591	5079517	470118	YY	485780	5439400	82F03	372L	6P	6.8	410015BMB322		55A	18	30S	8	152	50	1580	1.2	2	1000
592	5079517	470119	YY	485780	5439350	82F03	372L	8P	5.9	415020BMB322	DBR	80A	17	30SW	4	108	64	2200	0.8	0	790
593	5079517	470120	YY	485780	5439300	82F03	372L	8P	5.9	410015BMB322	DBR	70A	17	30W	2	52	50	900	0.2	0	710
594	5079517	470121	YY	485780	5439247	82F03	341L	9P	5.6	302008BMB322	DBR	70A	18	30W	6	112	44	1040	1.4	0	670
595	5079517	470122	YY	485779	5439202	82F03	341L	8P	.00	305010BMB322	DBR	60A	17	30SW	8	128	58	1440	1.4	5	720
596	5079517	470123	YY	485780	5439150	82F03	382L	8P	6.0	310020BMB322	DBR	50A	18	30SW	4	104	90	1680	1.6	0	630
597	5079517	470124	YY	485780	5439100	82F03	382L	8P	5.8	310020BMB322	DBR	70A	20	30SW	6	140	84	1900	3.4	5	600
598	5079517	470125	YY	485780	5439050	82F03	372L	9	5.5	415025BMB322	DBR	20A	21	30SW	4	92	50	1380	1.4	5	1050
599	5079517	470126	YY	485780	5439000	82F03	372L	9P	5.4	610015BMB322	DBR	60A	21	25SW	4	100	34	2200	1.2	10	1250
600	5079517	470127	YY	485782	5438955	82F03	372L	6	5.4	420025BMB322	DBR	15A	18	25SW	4	84	22	1920	0.6	15	910

601	5079517	470128	YY4857825438901	82F03	372L	6	5.9410015BMB322	DBR	40A	17	25SW	2	60	30	1300	1.2	5	1050
602	5079517	470129	YY4857815438852	82F03	372L	6	5.8415020BMB322	DBR	60A	18	25SW	2	72	14	1560	0.8	2	1150
603	5079517	470130	YY4857805438805	82F03	372L	6	5.8409015BMB322	DBR	60A	16	25SW	1	36	26	1140	0.4	10	890
604	5079517	470131	YY4857825438757	82F03	272L	6	5.9409020BMB322	DBR	30A	16	20SW	2	40	28	900	0.4	0	1000
605	5079517	470132	YY4857825438703	82F03	272L	6	5.9410015BMB322	DBR	60A	18	20S	2	40	28	800	0.2	5	1100
606	5079517	470133	YY4857825438652	82F03	272L	9P	6.1405010BMB322	DBR	80A	19	25SW	4	84	26	1300	0.4	10	1300
607	5079517	470134	YY4857835438604	82F03	272L	6	6.2410015BMB322	DBR	30A	17	20W	2	108	28	1340	0.2	10	1400
608	5079517	470135	YY4857825438556	82F03	272L	6	6.0415020BMB322	DBR	30A	20	20SW	4	96	30	1120	0.2	5	1200
609	5079517	470136	YY4857815438502	82F03	272L	6	5.9410015BMB322	DBR	10A	17	20SW	4	84	16	1240	0.2	5	1550
610	5079517	470137	YY4857835438453	82F03	242L	9B	5.9402005BMB315	DBR	70A	17	20S	1	68	46.	1520	0.2	10	1350
611	5079517	470138	YY4857805438404	82F03	391L	6P	6.0410015BMB315	DBR	20A	18	25S	1	68	42	1160	0.2	5	940
612	5079517	470139	YY4857805438360	82F03	391L	6	6.0410015BMB315	DBR	30A	20	25S	2	88	48	940	0.2	20	1350
613	5079517	470140	YY4857825438304	82F03	391L	6	5.9410015BMB322	DBR	40A	19	25S	1	68	68	1340	0.2	2	980
614	5079517	470141	YY4857825438256	82F03	291L	6	5.9405010BFP322	MRBR	45A	17	20S	2	56	26	1280	0.2	5	780
615	5079517	470142	YY4857805438210	82F03	291L	6	6.0409015BMB322	DBR	10A	20	25S	2	56	40	1700	0.2	10	910
616	5079517	470143	YY4857815438160	82F03	3A1L	9P	6.0305010BMB111	MBR	25A	22	25S	2	52	52	1680	0.2	5	840
617	5079517	470144	YY4857805438103	82F03	3A1L	9P	6.2305015BMB111	MBR	30A	22	30S	2	32	30	2600	0.2	0	720
618	5079517	480116	YY4866805439801	82F03	141C	9P	5.7410 20BMB	DBR	P40A		10S	8	48	16	800	0.2	10	740
619	5079517	480117	YY4866805439755	82F03	141L	9P	5.24 5 10BMB	DBR	P20A		15SW	6	48	10	660	0.2	15	760
620	5079517	480118	YY4866805439705	82F03	142L	6P	5.1425 30BMB	DBR	P10A		5SW	6	40	16	500	0.2	25	740
621	5079517	480119	YY4866805439657	82F03	142L	6P	5.2425 30BMB	DBR	P 5S		7SW	8	44	12	540	0.2	20	740
622	5079517	480120	YY4866805439610	82F03	141L	6P	5.14 7 15BMB	DBR	P15A		15SW	8	50	20	620	0.2	25	760
623	5079517	480121	YY4866805439565	82F03	142L	6P	6.1425 30BMB		P30A		5 W	8	50	28	460	0.2	20	650
624	5079517	480122	YY4866805439469	82F03	141L	6P	5.2410 15BMB		P50S		5S	8	56	32	640	0.2	25	800
625	5079517	480123	YY4866805439419	82F03	141L	6P	4.8415 20BMB		P70S		5SE	6	72	44	840	0.2	20	820
626	5079517	480124	YY4866805439372	82F03	141L	6P	5.0410 15BMB		P50S		10SE	6	76	44	780	0.2	15	920
627	5079517	480125	YY4866805439323	82F03	141L	6P	4.8415 20BMB		P40S		10SE	4	72	46	720	0.2	20	1000
628	5079517	480126	YY4866805439277	82F03	141L	6P	4.8415 25BMB		P45S		10SE	8	68	38	620	0.2	20	940
629	5079517	480127	YY4866805439228	82F03	142L	6P	4.8415 20BMB		P25S		10SE	6	68	34	580	0.2	15	740
630	5079517	480128	YY4866805439185	82F03	141L	6P	5.0420 25BMB		P15S		5S	4	88	44	630	0.2	15	1000
631	5079517	480129	YY4866805439140	82F03	141L	6P	5.0325 30BMB		P30		20S	4	64	42	460	0.2	20	820
632	5079517	480130	YY4866805439095	82F03	141L	6P	4.8310 15BMB		P35S		25S	2	76	72	500	0.2	15	800
633	5079517	480131	YY4866805439049	82F03	141L	6P	5.0310 15BMB		40S		25S	3	68	62	580	0.2	10	800
634	5079517	480132	YY4866805439003	82F03	141L	6P	5.5415 20BMB		P20S		15SW	2	84	72	820	0.2	15	790
635	5079517	480133	YY4866805438958	82F03	141L	6P	5.3320 25BMB		10S		15SW	2	72	52	680	0.2	15	650
636	5079517	480134	YY4866805438910	82F03	142L	6P	5.5325 30BMB		10S		15SW	2	60	88	620	0.2	10	820
637	5079517	490001	YY4857805436360	82F03	371L	9	5.4412 20BMB	MBR	15S2	14	22E	2	24	46	990	0.8	10	520
638	5079517	490002	YY4858195436391	82F03	371L	9	5.6412 25BMB	MBR	20S2	14	21E	2	28	34	1064	0.8	8	520
639	5079517	490003	YY4858505436420	82F03	371L	9	5.5415 25BFP	LBR	20M2	19	25E	4	28	37	668	0.6	10	590
640	5079517	490004	YY4858905436460	82F03	371L	9	5.6415 25BFP	LORBR	30M2	14	26E	4	20	35	834	0.8	5	410
641	5079517	490005	YY4859405436500	82F03	371L	9	5.7415 25BFP	ORBR	30S2	16	22NE	4	20	36	720	0.6	10	460
642	5079517	490006	YY4859705436520	82F03	391L	6	5.4412 25BFP	ORBR	40S2	12	22NE	2	22	37	606	0.7	5	410
643	5079517	490007	YY4860005436560	82F03	281L	9	5.2412 22BFP	ORBR	35S2	14	18N	1	16	38	582	1.1	15	450
644	5079517	490008	YY4860405436590	82F03	271L	9	5.2412 22BFP	ORBR	30S2	13	12NE	1	16	32	510	0.8	8	395
645	5079517	490009	YY4860805436620	82F03	281L	9	5.1412 23BFP	ORBR	40S2	12	12N	4	20	41	516	0.6	12	490
646	5079517	490010	YY4854605436280	82F03	371L	9P	5.6412 25BMB	MBR	P25A		22N	2	32	33	484	0.5	12	490
647	5079517	490011	YY4854905436240	82F03	371L	9P	5.7412 25BMB	BA	35A		28NE	4	44	32	1152	1.0	15	650
648	5079517	490012	YY4855225436201	82F03	371L	9P	6.5412 24BMB	MBR	45A		30N	6	36	35	1030	0.7	2	630
649	5079517	490013	YY4855555436163	82F03	371L	9	5.7412 25BMB	LBR	25S		22E	2	36	30	772	0.5	10	440
650	5079517	490014	YY4855895436129	82F03	371L	9	5.8412 25BMB	DBR	65M		22N	2	28	34	748	0.2	2	520
651	5079517	490015	YY4856205436090	82F03	391L	9	5.8412 25BFP	ORBR	45S		22NE	1	32	37	844	0.4	2	530
652	5079517	490016	YY4856505436050	82F03	371L	9	5.9412 24BFP	RFDBR	40S		22NE	1	24	32	732	0.5	10	460
653	5079517	490017	YY4856825436018	82F03	371M	9	6.0412 24BFP	CRBR	30S		21E	1	16	32	690	0.6	0	400
654	5079517	490018	YY4857125435980	82F03	271L	9	5.9412 25BFP	ORBR	15S		20N	1	24	30	772	0.5	0	400
655	5079517	490019	YY4857495435940	82F03	271O	4	6.8412 25BMB	LBR	15M		10N	2	80	72	2568	1.0	2	540
656	5079517	490020	YY4857805435949	82F03	391L	9	5.6412 25BFP	ORBR	15S		22N	2	20	34	448	0.5	0	470
657	5079517	490022	YY4854305436115	82F03	371L	9D	5.7412 25BMB322	DBR	25S		24NW	4	32	28	724	0.6	0	560
658	5079517	490023	YY4854005436359	82F03	371L	9P	5.9412 22BFP322PF	DBR	25S		26NW	2	28	27	792	[illegible].2	0	570
659	5079517	490024	YY4853695436400	82F03	371L	6P	5.6412 25BMB322	MBR	45A		28NW	14	44	35	1168	0.9	25	410
660	5079517	490025	YY4853315436432	82F03	371L	9P	5.5412 25BMB322	MBR	65A		34NW	12	40	36	1032	0.6	15	520

661	5079517	490026	YY485300	5436470	82F03	371L	9D	5.8	412	25BMB322MBR	65A		45NW	18	38	43	948	0.4	25	480
662	5079517	490027	YY485270	5436510	82F03	371L	9P	5.8	412	24BMB322MBR	30S		38NW	20	40	34	1140	0.4	20	560
663	5079517	490028	YY485230	5436550	82F03	371L	6	5.8	412	25BFP FFDBR	35A		26NW	4	24	34	1110	0.5	12	470
664	5079517	490029	YY484885	5435629	82F03	371L	9	5.5	412	25BFP ORBR	25A		23N	2	34	32	664	0.7	2	510
665	5079517	490030	YY484885	5435669	82F03	371L	9	5.5	412	25BFP ORBR	10M		22N	2	36	42	624	0.8	5	530
666	5079517	490031	YY484886	5435725	82F03	391L	9	5.3	412	25BMB MBR	25A		23N	1	36	30	390	0.6	0	660
667	5079517	490032	YY484889	5435767	82F03	271L	9	5.6	412	24BMB MBR	20S		18N	2	38	52	992	0.9	10	530
668	5079517	490033	YY484889	5435809	82F03	371L	9	5.5	412	25BMB MBR	60S		22N	6	36	34	874.	0.4	5	580
669	5079517	490034	YY484889	5435859	82F03	391L	9P	5.7	412	25BMB322MBR	70A		22N	8	32	32	836	0.4	2	620
670	5079517	*490035	YY484890	5435900	82F03	371L	9	5.6	412	24BFP ORBR	55A		28N	6	28	30	648	0.5	15	430
671	5079517	490036	YY484890	5435939	82F03	371L	9P	5.4	412	25BFP322ORBR	50A		37N	12	44	34	988	0.3	30	700
672	5079517	490037	YY484890	5436985	82F03	371L	9	5.4	412	24BMB MBR	60A		32N	8	36	34	1062	0.3	35	640
673	5079517	490038	YY484882	5436039	82F03	371L	9	5.6	412	25BMB MBR	60A		32N	6	36	34	948	0.9	20	690
674	5079517	490039	YY484883	5436087	82F03	371L	9	6.2	422	30BMB MBR	60A		35SW	10	52	30	1540	0.6	30	760
675	5079517	490040	YY484885	5436131	82F03	391L	9	6.2	412	24BMB MBR	30S		32NW	10	60	26	1508	0.5	15	800
676	5079517	490041	YY484885	5436180	82F03	391L	9	5.8	412	24BMB MBR	25S		32NW	6	46	40	1084	0.5	12	760
677	5079517	490042	YY484885	5436218	82F03	271L	9	5.9	412	24BFP ORBR	30A		20N	4	40	30	624	0.8	5	470
678	5079517	490043	YY484886	5436273	82F03	371L	6	5.7	412	24BFP ORBR	25S		27N	2	28	28	1034	0.9	0	450
679	5079517	490044	YY484885	5436311	82F03	391L	9P	5.9	420	30BFP221ORBR	65A		32NW	2	22	30	890	0.6	2	380
680	5079517	490045	YY484935	5436273	82F03	371L	9	5.7	412	24BMB MBR	70A		32N	4	40	34	872	0.6	20	500
681	5079517	490046	YY484983	5436272	82F03	371L	9P	6.2	412	28BMB221MBR	60S		28N	12	90	32	4280	1.0	15	640
682	5079517	490047	YY485020	5436272	82F03	371L	9D	5.7	412	22BMB221MBR	55S		32NW	8	50	32	1870	0.5	10	640
683	5079517	490048	YY485077	5436272	82F03	371L	9D	5.9	412	24BFP221ORBR	70S		32NW	8	32	34	1440	0.6	5	460
684	5079517	490049	YY485135	5436272	82F03	371L	9P	5.6	412	24BMB322MBR	70A		28N	12	36	30	1142	0.6	8	520
685	5079517	490050	YY485185	5436272	82F03	371L	9	5.4	412	24BMB MBR	30M		22NW	4	20	26	794	1.0	5	440
686	5079517	490051	YY485235	5436272	82F03	371L	9	5.6	412	24BFP ORBR	20S		28N	4	32	28	750	1.6	0	480
687	5079517	490052	YY485285	5436272	82F03	391L	9	6.0	412	24BFP ORBR	15A		40N	10	44	32	740	0.8	0	480
688	5079517	490053	YY485335	5436272	82F03	571L	9	5.8	412	30BMB MBR	45A		34NW	8	28	34	638	0.6	2	390
689	5079517	490054	YY485385	5436272	82F03	371L	9	5.4	412	24BMB DBR	75A		22N	10	40	40	464	0.3	0	400
690	5079517	490055	YY485435	5436272	82F03	371L	9	5.6	412	24BMB MBR	45S		32N	4	36	36	816	0.8	15	600
691	5079517	490056	YY485485	5436272	82F03	271L	9P	5.3	412	24BMB322MBR	P30M		16W	6	56	26	614	0.5	20	740
692	5079517	490057	YY485032	5435683	82F03	271L	9P	6.1	412	24BFP322ORBR	15S		20S	2	32	30	276	0.3	0	620
693	5079517	490058	YY485030	5435781	82F03	371L	9	5.8	412	26BMB MBR	25S		32N	1	44	32	280	0.3	2	650
694	5079517	490059	YY485028	5435882	82F03	371L	9B	5.7	412	24BHO322BL	35S		34N	1	60	34	878	1.0	10	480
695	5079517	490062	YY485020	5436178	82F03	371L	9P	5.9	412	24BMB322MBR	65S		28NW	10	60	46	1052	0.8	5	700
696	5079517	490063	YY485018	5436227	82F03	371L	9P	5.0	412	26BMB322MBR	40S		27NW	8	60	30	716	1.3	12	720
697	5079517	490064	YY485020	5436269	82F03	371L	9	5.8	412	24BFP ORBR	30A		30NW	8	42	30	988	0.4	12	570
698	5079517	490065	YY484887	5436420	82F03	371L	9	5.9	412	26BMB MBR	20S		29	4	64	40	2228	1.9	2	530
699	5079517	490066	YY484888	5436520	82F03	371L	9	5.9	412	24BFP ORBR	20S		22NW	2	30	32	1008	2.0	2	380
700	5079517	490067	YY484889	5436620	82F03	371L	9	6.0	412	26BFP ORBR	60S		22NW	2	24	126	1272	1.9	2	470
701	5079517	490068	YY484887	5436720	82F03	371L	9	5.8	412	26BFP ORBR	65A		22N	4	24	68	1024	1.5	2	450
702	5079517	490069	YY484889	5436820	82F03	371L	9D	5.8	412	25BFP322ORBR	30A		22N	2	24	36	1340	0.8	0	520
703	5079517	490070	YY484885	5436915	82F03	371L	9	6.1	412	26BFP ORBR	30S		28N	2	16	32	842	0.3	2	420
704	5079517	490071	YY484890	5437013	82F03	371U	9	5.9	412	26CIA GRAYBR	70S		22N	2	28	32	566	0.5	2	670
705	5079517	490072	YY484938	5435582	82F03	271L	9D	5.8	412	24BMB322MBR	20S2	10	12SE	2	28	32	774	0.4	0	530
706	5079517	490073	YY485035	5435570	82F03	271L	9	5.7	412	24BMB MBR	20S2	11	12SE	2	64	40	624	0.2	5	620
707	5079517	490074	YY435040	5435480	82F03	271L	9	6.1	412	24BMB MBR.	15S2	10	18SE	2	·60	32	568	0.5	8	640
708	5079517	490075	YY485049	5435380	82F03	391L	9	5.8	412	24BMB LBR	20S2	11	22S	4	84	26	546	0.3	12	1080
709	5079517	490076	YY485060	5435280	82F03	291L	9	6.0	412	26BFP ORBR.	20S2	11	8S	2	48	42	790	0.6	10	760
710	5079517	490077	YY485068	5435180	82F03	291L	9D	5.9	412	26BMB322MBR	20S2	10	15S	4	56	78	648	0.7	5	800
711	5079517	490078	YY485070	5435080	82F03	391L	9P	6.2	412	24BMB322MBR	20A2	14	31S	6	56	64	656	1.0	5	700
712	5079517	490079	YY485072	5434982	82F03	271L	9	6.1	412	24BFP ORBR	15S2	10	7S	2	24	28	526	0.7	0	520
713	5079517	490081	YY485081	5434810	82F03	271L	9	6.0	412	24BFP ORBR	10S2	10	10S	1	30	34	842	0.7	0	590
714	5079517	490082	YY485100	5434493	82F03	291L	9	6.0	412	36BFP ORBR	10S2	9	15SW	1	22	26	146	0.3	0	480
715	5079517	490083	YY485105	5434399	82F03	291L	9	6.0	424	30BFP ORBR	20S2	11	18S	1	24	28	166	0.4	0	450
716	5079517	490084	YY485111	5434305	82F03	391L	9P	5.6	412	24BFP322ORBR	20S2	11	22S	1	16	28	106	0.2	0	500
717	5079517	490085	YY485115	5434212	82F03	391L	9	6.0	412	24BFP ORBR	15S2	10	22S	1	20	38	120	0.1	0	450
718	5079517	490086	YY485115	5434119	82F03	371L	9D	6.0	412	24BFP322ORBR	20S2	10	22N	1	24	30	344	0.3	10	360
719	5079517	490087	YY485120	5434020	82F03	391L	9	6.2	412	24BFP ORBR	15S2	10	22W	1	36	32	420	0.8	2	520
720	5079517	490088	YY485130	5433965	82F03	391L	9	6.1	412	26BMB MBR	30S2	11	22W	1	32	34	296	0.4	2	620

721	5079517	490089	YY485132	5433849	82F03	371L	9	5.7	412	24BFP	REDBR	15S2	11	22W	1	28	36	322	0.4	10	305
722	5079517	*490090	YY485140	5433749	82F03	271L	9	5.7	412	24BFP	ORBR	10S2	11	8N	1	20	24	200	0.4	0	420
723	5079517	*490091	YY485140	5433755	82F03	271L	9	5.7	412	24BFP	ORBR	10S2	11	8N	1	22	22	156	0.4	0	420
724	5079517	490092	YY485143	5433660	82F03	271L	9	6.0	412	24BFP	ORBR	65A2	12	8S	1	22	30	208	0.4	0	1010
725	5079517	490093	YY485252	5433590	82F03	291L	9	5.7	412	24BFP	ORBR	15S2	11	8S	1	18	28	184	0.5	0	550
726	5079517	490094	YY485081	5435580	82F02	271L	9	5.6	412	24BMB	MBR	30S		18S	2	128	34	780	0.5	5	450
727	5079517	490095	YY485130	5435580	82F03	271L	9	6.0	412	24BMB	MBR	35S		12S	2	52	30	742	0.6	2	610
728	5079517	490096	YY485180	5435580	82F03	301L	9P	5.4	412	24BMB	322MBR	70S		32S	4	116	62	680	1.3	10	590
729	5079517	490097	YY485230	5435580	82F03	391L	9P	6.2	412	26BMB	322MBR	60M		22S	4	80	40	898	0.8	2	630
730	5079517	490098	YY485280	5435580	82F03	371L	9	6.0	412	26BFP	ORBR	70A		22S	2	200	52	730	0.8	0	540
731	5079517	490099	YY485330	5435580	82F03	291L	9	6.0	412	26BFP	ORBR	60A		20S	2	56	46	480	0.5	0	580
732	5079517	490100	YY485380	5435580	82F02	291L	9	5.8	412	26BFP	ORBR	60A		16S	2	36	34	808	0.6	0	400
733	5079517	490101	YY485430	5435580	82F03	291L	9	6.6	412	26BMB	MBR	45A		16S	2	60	56	828	0.6	0	730
734	5079517	490102	YY485475	5435580	82F03	291L	9P	6.1	412	24BFP	322ORBR	65S		7N	2	32	26	270	0.6	0	490
735	5079517	490103	YY485525	5435580	82F03	391L	9D	5.8	412	24BFP	322ORBR	55A		22W	2	64	26	968	1.2	2	720
736	5079517	490104	YY485579	5435580	82F03	371L	9	5.7	412	24BFP	ORBR	35S		22W	2	36	28	370	0.6	2	580
737	5079517	490105	YY485625	5435580	82F03	471L	9	5.9	412	24BFP	ORBR	10S		4W	1	20	36	370	0.5	8	550
738	5079517	490106	YY485679	5435580	82F03	371L	9	5.5	412	24BFP	ORBR	25S		24W	1	40	56	396	0.6	5	520
739	5079517	490107	YY485717	5435580	82F03	271L	9	5.7	412	25BFP	ORBR	30M		12W	1	24	40	240	0.6	10	560
740	5079517	490108	YY485780	5435580	82F03	271L	9	5.7	412	25BFP	ORBR	35M		16W	1	28	30	190	0.4	5	570
741	5079517	490109	YY485827	5435580	82F03	371L	9	6.1	412	25BFP	ORBR	25S		22N	1	20	52	408	0.3	5	560
742	5079517	490110	YY485878	5435580	82F03	171L	9	5.[illegible]	412	24BMB	MBR	65A		22N	2	26	32	430	0.5	2	640
743	5079517	490111	YY485923	5435580	82F03	371L	9	5.9	412	24BFP	ORBR	25S		26N	1	22	24	264	0.7	5	490
744	5079517	490112	YY485973	5435580	82F03	371L	9	5.6	412	24BFP	ORBR	45S		30N	1	20	26	218	0.3	2	510
745	5079517	490113	YY486020	5435580	82F03	391L	9	5.6	412	24BFP	ORBR	20S		22N	1	14	24	138	0.2	2	460
746	5079517	490114	YY486070	5435580	82F03	291L	9	5.4	412	18BFP	ORBR	25S		20E	1	20	28	220	0.3	2	560
747	5079517	490115	YY4[illegible]117	5435580	82F03	291L	9	5.4	412	24BFP	ORBR	10S		20E	1	20	30	220	0.3	8	630
748	5079517	490116	YY486170	5435580	82F03	391L	9	5.0	412	24BFP	ORBR	15S		24E	1	14	26	234	0.4	5	520
749	5079517	490117	YY484735	5435622	82F03	271L	9P	5.5	412	26BFP	322ORBR	10S		10N	4	34	46	672	0.8	25	750
750	5079517	490118	YY484735	5435676	82F03	371L	9P	5.5	412	24BFP	322ORBR	10S		22N	4	42	46	906	0.9	15	800
751	5079517	490119	YY484735	5435726	82F03	471L	9P	6.0	412	25BFP	322ORBR	P15A		11N	4	38	32	880	1.0	10	620
752	5079517	490120	YY484735	5435780	82F03	371L	9P	5.5	412	24BMB	322MBR	60A		24N	4	56	46	1090	0.5	15	700
753	5079517	490121	YY484735	5435810	82F03	371L	9P	5.7	412	20BFP	322ORBR	20A		23N	6	52	24	828	0.6	10	800
754	5079517	490122	YY484735	5435850	82F03	371L	9P	5.6	412	24BFP	322ORBR	40A		32N	6	52	20	1890	1.0	15	780
755	5079517	490123	YY484735	5435898	82F03	371L	9P	6.2	412	24BFP	322ORBR	60A		28N	14	44	10	1650	0.3	55	620
756	5079517	490124	YY484735	5435942	82F03	371L	9	5.7	412	24BFP	ORBR	45S		26N	6	36	10	870	0.4	35	820
757	5079517	490125	YY484735	5435988	82F03	371L	9	5.8	412	24BFP	ORBR	45S		22N	2	32	22	780	0.4	15	750
758	5079517	490126	YY484735	5436031	82F03	371L	9P	5.3	412	24BFP	322ORBR	70A		29N	4	36	16	1250	0.6	15	660
759	5079517	490127	YY484735	5436076	82F03	371L	9P	5.4	412	24BFP	322ORBR	65A		27N	10	80	10	1264	2.1	10	780
760	5079517	490128	YY484735	5436122	82F03	371L	9	5.6	412	24BFP	ORBR	40A		30N	4	48	10	1280	1.1	10	680
761	5079517	490129	YY484735	5436170	82F03	371L	6	5.6	412	28BMB	MBR	70S		22N	2	42	30	1170	0.6	5	560
762	5079517	490130	YY484735	5436216	82F03	371L	9	5.4	412	30BFP	ORBR	70S		21N	4	88	30	1674	2.1	10	680
763	5079517	490131	YY484735	5436275	82F03	371L	9	6.2	412	24BFP	ORBR	15S		23N	4	112	10	950	1.4	12	740
764	5079517	490132	YY484735	5436310	82F03	371L	9P	5.9	412	20BFP	322ORBR	P15S		24N	1	100	6	480	0.6	0	1280
765	5079517	490135	YY484735	5436446	82F03	371L	9	6.0	412	24BFP	ORBR	45S		22N	4	84	16	1694	0.8	15	950
766	5079517	490137	YY484735	5436503	82F03	371L	9P	5.4	412	24BFP	111ORBR	40S		24N	4	72	164	1068	0.8	8	990
767	5079517	490138	YY484735	5436538	82F03	391L	9	6.0	412	24BFP	ORBR	15S		22N	2	52	14	620	0.6	10	850
768	5079517	490139	YY484735	5436581	82F03	391L	9D	5.9	412	26BFP	111ORBR	20M		30N	4	44	26	460	0.6	15	780
769	5079517	490140	YY484735	5436630	82F03	391L	9	5.7	412	26BFP	ORBR	25B		32N	4	20	14	744	0.5	5	630
770	5079517	490141	YY484735	5436675	82F03	391L	9P	5.9	412	24BFP	481ORBR	30S		26N	6	32	92	2948	0.9	5	610
771	5079517	490142	YY484630	5436500	82F03	391L	9P	5.9	412	26BFP	481ORBR	30S		22N	2	20	24	916	0.4	2	430
772	5079517	490143	YY486712	5433496	82F03	371L	9	5.1	412	18BFP	ORBR	30S		32N	2	18	18	130	0.2	0	440
773	5079517	490144	YY486712	5433602	82F03	371L	9P	5.2	412	24BFP	322ORBR	40S		24N	1	16	28	128	0.2	0	470
774	5079517	490145	YY486712	5433701	82F03	371L	9P	5.4	412	24BFP	322ORBR	45S		22W	2	18	28	140	0.3	0	520
775	5079517	490146	YY486710	5433800	82F03	291L	9P	5.3	412	24BFP	481ORBR	35S		12W	2	20	32	126	0.3	0	380
776	5079517	490147	YY486710	5433900	82F03	371L	9	6.0	412	24BFP	1ORBR	30S		30N	1	28	36	146	0.2	2	620
777	5079517	490148	YY486700	5434000	82F03	371L	9P	5.8	412	30BFP	322ORBR	30S		26N	2	24	22	166	0.2	0	450
778	5079517	490149	YY486702	5434110	82F03	371L	9P	7.3	412	26BFP	481ORBR	55A		26N	1	16	80	220	0.2	0	1080
779	5079517	490150	YY486700	5434212	82F03	371L	9	4.4	414	24BFP	LORBR	20S		32N	1	16	20	128	0.2	0	530
780	5079517	490151	YY486700	5434312	82F03	371L	9	6.9	414	24BFP	ORBR	30A		22NE	1	18	14	172	0.2	0	490

781	5079517	490152	YY4866955434420	82F03	271L	9	5.8412	26BFP		ORBR	30H	22E	1	14	12	158	0.3	0	370
782	5079517	490153	YY4866925434525	82F03	271L	9P	4.7412	20BFP	322	ORBR	25A	20E	1	10	12	144	0.2	0	530
783	5079517	490154	YY4866905434629	82F03	371L	9	5.5412	26BFP		ORBR	30S	22E	1	20	12	144	0.2	0	650
784	5079517	490155	YY4866895434739	82F03	271L	9	5.4412	30BFP		ORBR	35S	18N	1	16	10	174	0.2	0	470
785	5079517	490156	YY4866855434[illegible]	82F03	271L	9	5.4412	26BFP		ORBR	25S	18E	1	16	10	198	0.3	0	480
786	5079517	490158	YY4866815435061	82F03	391L	9	5.6412	24BFP		ORBR	30S	22N	1	24	22	218	0.2	0	890
787	5079517	490159	YY4866805435172	82F03	271L	9	4.9412	30BFP		ORBR	30S	10N	1	16	14	280	0.3	2	500
788	5079517	490160	YY4866805435278	82F03	271L	9	5.5412	24BFP		ORBR	35S	8N	1	12	20	222	0.3	0	460
789	5079517	490161	YY4866895435382	82F03	371L	9	5.5412	24BFP		ORBR	40S	22E	2	20	16	190	0.3	0	420
790	5079517	490162	YY4866725435485	82F03	271L	9	4.8412	24BFP		ORBR	35S	20E	4	24	12	238	0.2	0	540
791	5079517	490163	YY4866705435589	82F03	271L	9	6.2412	24BHO		DBR	10S	12	1	16	12	104	0.2	0	390
792	5079517	490164	YY4865705435589	82F03	271L	9	5.5412	24BFP		ORBR	30A	12E	2	24	10	230	0.3	2	450
793	5079517	490165	YY4864705435589	82F03	271L	9	5.6412	30BFP		ORBR	20S	14E	2	30	12	170	0.2	2	490
794	5079517	490166	YY4863705435589	82F03	271L	9	5.9412	24BFP		ORBR	35S	10E	2	28	8	204	0.2	0	530
795	5079517	490167	YY4867185435596	82F03	271L	9P	5.7412	24BFP	322	ORBR	35B	8E	2	24	14	260	0.2	0	530
796	5079517	490168	YY4867285433596	82F03	371L	9P	5.8412	24BFP	322	ORBR	40S	22W	1	28	30	120	0.2	0	600
797	5079517	490169	YY4866335433596	82F03	371L	9P	5.3412	24BFP	322	ORBR	35B	21W	1	18	24	116	0.2	0	530
798	5079517	490170	YY4865375433596	82F03	371L	9P	5.7412	26BFP	322	ORBR	35S	22W	1	28	28	104	0.2	0	570
799	5079517	490171	YY4864385433596	82F03	371L	9	5.7412	24BFP		ORBR	30S	21W	1	24	24	108	0.2	8	490
800	5079517	490172	YY4863385433596	82F03	271L	9	5.9412	24BFP		ORBR	P10S	20W	1	16	16	92	0.2	0	450
801	5079517	490173	YY4862385433596	82F03	371L	9	5.7412	24BFP		ORBR	35S	22W	1	12	20	112	0.2	0	420
802	5079517	490174	YY4861555433655	82F03	371L	9	6.8412	24BFP		ORBR	45S	22W	1	12	26	110	0.2	0	430
803	5079517	490175	YY4861525433652	82F03	391L	9	5.6412	24BFP		ORBR	20S	24W	1	24	38	112	0.2	0	430
804	5079517	490176	YY4861505433750	82F03	371L	9	5.7412	24BFP		ORBR	35S	25W	1	24	16	132	0.2	0	450
805	5079517	490177	YY4861475433839	82F03	371L	9P	5.4412	24BFP	322	ORBR	35S	24S	1	24	46	140	0.2	0	480
806	5079517	490178	YY4861305433930	82F03	371L	9	5.6412	26BFP		ORBR	30S	22W	1	16	24	126	0.2	0	420
807	5079517	490179	YY4861295434072	82F03	371L	9	5.6412	24BFP		ORBR	40S	30W	1	16	22	104	0.2	0	450
808	5079517	490180	YY4861285434178	82F03	371L	9	5.4412	24BFP		ORBR	30S	22W	1	24	30	118	0.2	0	440
809	5079517	490181	YY4861205434282	82F03	371L	9	5.4412	24BFP		ORBR	30A	27W	1	16	22	128	0.2	0	420
810	5079517	490182	YY4861195434384	82F03	371L	9P	5.2412	24BFP	322	ORBR	45A	22W	1	20	28	140	0.2	0	440
811	5079517	*490183	YY4861155434492	82F03	371L	9P	5.0412	24BFP	322	ORBR	30S	23W	1	20	26	128	0.2	0	550
812	5079517	*490184	YY4861155434486	82F03	371L	9P	5.1412	26BFP	322	ORBR	45A	23W	1	16	30	140	0.2	0	530
813	5079517	490185	YY4861105434592	82F03	171L	9	5.9412	24BFP		ORBR	10S	10N	1	20	26	108	0.2	0	400
814	5079517	490186	YY4861095434693	82F03	271L	9	5.8412	24BFP		ORBR	15S	18N	1	16	14	130	0.2	2	570
815	5079517	490187	YY4861055434792	82F03	271L	9	5.8412	24BFP		ORBR	30S	10N	1	16	12	124	0.2	0	460
816	5079517	490188	YY4861005434890	82F03	271L	9	5.6412	24BFP		ORBR	30S	9N	6	26	14	156	1.2	0	700
817	5079517	490189	YY4860965434988	82F03	271L	9	5.8412	24BFP		ORBR	40A	11N	2	20	8	188	0.8	0	580
818	5079517	490190	YY4860995435093	82F03	271L	9	6.0412	24BFP		ORBR	36S	10N	2	20	6	146	0.6	0	520
819	5079517	490191	YY4860925435190	82F03	371L	9	5.3412	24BFP		ORBR	35S	22N	2	20	10	176	0.4	0	560
820	5079517	490192	YY4860905435290	82F03	271L	9	5.4412	24BFP		ORBR	30A	12N	1	20	16	136	0.4	0	580
821	5079517	490193	YY4860875435387	82F03	371L	9	6.0412	24BFP		ORBR	15S	22N	1	20	10	156	0.4	0	620
822	5079517	490194	YY4860835435486	82F03	271L	9	5.8412	24BFP		ORBR	15S	20N	1	16	14	216	0.4	2	590
823	5079517	490195	YY4857775435678	82F03	371L	9	5.6412	24BFP		ORBR	30S	22N	2	20	14	292	0.4	8	540
824	5079517	490196	YY4857715435785	82F03	371L	9	6.1412	26BFP		ORBR	30S	23N	1	20	8	308	0.4	0	740
825	5079517	490197	YY4857695435879	82F03	371L	9	5.7412	26BFP		ORBR	20S	23N	2	28	16	388	0.4	0	600
826	5079517	490199	YY4857605436079	82F03	271L	9	5.6412	24BFP		ORBR	35S	11N	2	22	16	788	0.4	0	680
827	5079517	490200	YY4860305433590	82F03	391L	9P	5.9412	24BFP	322	ORBR	60A	32S	1	32	68	192	0.2	2	630
828	5079517	490201	YY4859325433600	82F03	391L	9	5.9412	24BFP		ORBR	35S	22N	1	16	12	128	0.2	2	500
829	5079517	490202	YY4858395433600	82F03	691L	9	6.0412	24BFP		ORBR	30S	10S	1	16	10	148	0.2	0	420
830	5079517	490203	YY4858565433750	82F03	391L	9P	5.9420	30BFP	322	ORBR	45A	35S	1	24	48	174	0.2	5	530
831	5079517	490204	YY4858505433900	82F03	371L	9	5.7412	30BFP		ORBR	35S	32W	1	24	24	148	0.2	10	580
832	5079517	490205	YY4858495434030	82F03	371L	9	5.8412	24BFP		ORBR	25S	26S	2	24	12	162	0.2	0	560
833	5079517	490206	YY4858455434095	82F03	391L	9	6.0412	24BFP		ORBR	30A	22W	1	20	16	110	0.2	2	570
834	5079517	490207	YY4858405434192	82F03	391L	9	5.8412	24BFP		ORBR	15S	21W	1	24	14	144	0.2	2	540
835	5079517	490208	YY485838543[illegible]	82F03	391L	9	5.4412	24BFP		ORBR	20A	21W	1	16	16	166	0.2	0	580
836	5079517	490209	YY4858335434394	82F03	271L	9	5.5412	24BFP		ORBR	20S	20W	1	20	14	140	0.2	0	530
837	5079517	*490210	YY4858295434491	82F03	291L	9	5.3412	24BFP		ORBR	20S	18W	2	20	10	156	0.2	0	500
838	5079517	*490211	YY48582954345[illegible]	82F03	291L	9	5.5412	24BFP		ORBR	25S	18W	2	24	10	138	0.2	0	490
839	5079517	490212	YY4858265434592	82F03	291L	9	6.0412	24BFP		ORBR	10S	8W	1	16	8	126	0.4	0	450

841	5079517	490214	YY484300	5435625	82F03	271L	9	5.9	412	24BMB MBRRED	20S		14W	2	24	18	1564	0.2	0	630
842	5079517	490215	YY484301	5435682	82F03	271L	9	5.6	412	24BMB MBRGR	65S		18W	6	24	20	1086	0.2	0	660
843	5079517	490216	YY484305	5435740	82F03	271L	9	6.0	412	24BMB MBR	60A		19W	4	36	18	2010	0.4	0	620
844	5079517	490217	YY484309	5435781	82F03	391L	9P	6.0	412	24BFP322ORBR	25S		22N	2	24	10	720	0.8	0	470
845	5079517	490218	YY484310	54358[illegible]	82F03	391L	6P	5.8	412	24BFP322LORBR	25S		30N	4	32	36	910	1.0	12	500
846	5079517	490219	YY484313	5435[illegible]	82F03	371L	9P	6.0	412	24BFP322NORBR	75A		35N	10	88	34	1212	2.4	0	910
847	5079517	490220	YY484315	5435920	82F03	391L	9P	5.6	412	24BFP322ORBR	75A		38N	30	340	16	844	3.8	0	810
848	5079517	490221	YY484317	5435961	82F03	391L	9P	6.0	412	24BFP322ORBR	70A		42N	40	280	46	658	3.0	0	590
849	5079517	490222	YY484323	5436009	82F03	391L	8P	5.9	412	26BMB322MBR	70A		32N	14	152	34	2266	3.8	0	840
850	5079517	490223	YY484325	5434056	82F03	391L	8P	6.1	412	26BFP322ORBR	70A		29N	12	132	44	1240	2.4	0	670
851	5079517	490224	YY484330	5436099	82F03	391L	8P	5.8	412	24BFP322ORBR	75A		35N	12	120	42	940	2.6	0	600
852	5079517	490225	YY484331	5436140	82F03	391L	9P	5.9	412	24BFP322ORBR	45S		26N	4	40	20	1778	2.2	0	430
853	5079517	490226	YY484331	5436190	82F03	391L	9	6.1	412	24BMB MBR	45A		30N	8	216	34	1670	3.6	0	880
854	5079517	490227	YY484335	5436230	82F03	391L	9P	6.3	412	24BMB322MBR	40S		28W	4	80	24	1180	0.8	0	710
855	5079517	490228	YY484336	5436275	82F03	291L	9	6.2	412	26BFP ORBR	35S		26N	2	36	20	1200	0.8	10	480
856	5079517	490229	YY484340	5436320	82F03	391L	9	6.4	412	24BFP ORBR	40S		24N	2	60	16	428	0.8	20	590
857	5079517	490230	YY484340	5436362	82F03	371L	9P	6.5	412	24BFP322ORBR	35S		28N	4	90	16	386	1.0	10	570
858	5079517	490231	YY484344	5436411	82F03	371L	9	5.8	412	24BFP ORBR	35A		30N	4	148	10	344	0.8	10	540
859	5079517	490232	YY484346	5436457	82F03	391L	9D	6.2	412	24BMB322MBR	45S		28W	1	116	22	352	0.4	20	700
860	5079517	490233	YY484350	5436503	82F03	391L	9P	6.6	412	24BFP322ORBR	30S		24W	2	40	14	386	0.4	10	490
861	5079517	490234	YY484350	5436551	82F03	371L	9	6.1	412	24BFP ORBR	35S		22N	3	34	10	222	0.4	15	540
862	5079517	490235	YY484352	5436595	82F03	371L	9P	6.1	412	26BMB322MBR	35S		32N	2	26	20	338	0.4	30	720
863	5079517	490236	YY484355	5436630	82F03	391L	9	5.9	412	24BFP ORBR	30S		25N	2	40	10	274	0.4	15	640
864	5079517	490237	YY484357	5436681	82F03	371L	9	5.8	412	24BFP ORBR	P30S		22N	4	56	10	324	0.8	5	520
865	5079517	*490238	YY484441	5436641	82F03	371L	9	6.9	412	24BFP ORBR	40A		22N	2	38	18	422	0.4	10	600
866	5079517	*490239	YY484441	5436542	82F03	371L	9	6.1	412	24BFP ORBR	40S		22N	2	24	10	420	0.2	2	540
867	5079517	490240	YY484441	5436443	82F03	371M	9	6.3	412	24BFP ORBR	15S		26N	4	24	14	276	0.4	15	500
868	5079517	490241	YY484955	5433506	82F03	171L	9	5.8	412	24BFP ORBR	10S2	10	9N	2	36	12	148	0.2	8	620
869	5079517	490242	YY484953	5433553	82F03	171L	9	5.8	412	24BFP ORBR	20S	10	9N	2	20	12	116	0.4	2	550
870	5079517	490243	YY484952	5433601	82F03	171L	9	6.2	412	26BFP ORBR	15S	10	10N	2	22	14	168	0.2	2	640
871	5079517	490244	YY484950	5433650	82F03	171L	9	5.6	412	26BFP ORBR	15S	9	10N	2	22	12	180	0.4	0	630
872	5079517	490245	YY484940	5433700	82F03	391L	9	6.3	412	24BFP ORBR	30A2	10	22N	1	20	14	184	0.2	0	670
873	5079517	490246	YY484940	5433750	82F03	291L	9	6.2	412	24BFP ORBR	25S2	10	14N	2	20	12	148	0.2	0	580
874	5079517	490247	YY484949	5433800	82F03	271L	9	6.0	412	24BFP ORBR	20S2	10	18N	4	44	14	290	0.6	5	710
875	5079517	490248	YY484945	5433851	82F03	291L	9	5.2	412	24BFP ORBR	30S2	10	20N	2	24	24	296	0.4	8	520
876	5079517	490249	YY484943	5433900	82F03	391L	9	6.0	412	24BFP ORBR	25S2	10	22N	2	20	16	210	0.2	5	560
877	5079517	490250	YY484941	5433950	82F03	391L	9	5.5	412	24BFP ORBR	25S2	11	24N	2	32	18	236	0.2	10	660
878	5079517	490251	YY484941	5434000	82F03	391L	9	5.8	412	24BFP ORBR	20S2	10	27N	2	32	16	146	0.2	5	590
879	5079517	490252	YY484938	5434049	82F03	371L	9	6.0	412	24BFP ORBR	40A2	11	21N	2	20	12	212	0.2	2	600
880	5079517	490253	YY484937	5434098	82F03	391L	9	6.0	412	24BFP ORBR	40A2	10	30W	2	32	20	156	0.2	0	660
881	5079517	490254	YY484932	5434149	82F03	391L	9	6.2	412	24BFP ORBR	30A2	10	24N	2	20	18	158	0.4	0	690
882	5079517	490255	YY484932	5434175	82F03	4 L	4P	6.90	5	,J 322	43 2	10	12W	1	20	22	96	0.4	0	600
883	5079517	490256	YY484930	5434197	82F03	371L	9P	6.5	412	24BFP322ORBR	40A2	10	26S	1	20	20	184	0.2	0	610
884	5079517	490257	YY484930	5434249	82F03	371L	9P	6.1	412	24BFP322ORBR	35A2	10	28S	1	28	26	170	0.4	0	690
885	5079517	490258	YY484930	5434297	82F03	391L	9D	6.6	412	24BFP322ORBR	45A2	11	30W	1	16	16	130	0.2	0	640
886	5079517	490259	YY484930	5434345	82F03	391L	9D	6.2	412	24BFP322ORBR	45S2		32S	1	28	34	168	0.2	0	630
887	5079517	490260	YY484927	5434393	82F03	391L	9D	6.5	412	24BFP322ORBR	30S2	11	30W	2	28	32	190	0.2	5	780
888	5079517	490261	YY484922	5434449	82F03	391L	9	6.0	412	24BFP ORBR	30S		25S	2	20	10	248	0.2	5	620
889	5079517	490262	YY485786	5433589	82F03	291L	9	6.2	412	24BFP ORBR	10S2	10	12S	1	24	12	112	0.4	0	620
890	5079517	490263	YY485734	5433589	82F03	271L	9	6.4	412	24BFP ORBR	10A2	10	20S	1	8	16	118	0.2	0	560
891	5079517	490264	YY485689	5433589	82F03	391L	9	6.2	412	24BFP ORBR	5S2	11	22S	2	28	14	116	0.4	0	600
892	5079517	490265	YY485638	5433589	82F03	341L	9	6.2	412	24BFP ORBR	15A2	11	21S	1	32	20	156	0.2	0	620
893	5079517	490266	YY485590	5433589	82F03	371L	9P	5.7	412	24BFP322ORBR	20S2	11	21W	1	42	18	166	0.2	0	640
894	5079517	*490267	YY485530	5433589	82F03	391L	9P	5.9	412	24BFP322ORBR	35A2	11	22W	1	36	18	140	0.2	0	620
895	5079517	*490268	YY485533	5433559	82F03	371L	9P	5.9	412	24BFP322ORBR	45A2	10	21W	1	36	20	138	0.2	0	600
896	5079517	490269	YY485530	5433604	82F03	491L	9D	6.4	412	24BFP322ORBR	65A2	13	18W	1	20	30	256	0.2	0	560
897	5079517	490270	YY485533	5433650	82F03	371L	9P	6.3	412	24BFP322ORBR	30S2	11	23W	1	16	14	74	0.2	0	550
898	5079517	490271	YY[illegible]	5433700	82F03	371L	9	6.4	412	24BFP ORBR	10S2	10	21W	2	20	18	104	0.2	0	720
899	5079517	490272	YY485528	5433750	82F03	291L	9	5.7	412	24BFP ORBR	15S2	10	18W	1	16	20	132	0.2	0	570
[illegible]	5079517	490273	YY485524	5433800	82F03	271L	9P	5.3	412	24BFP322LORBR	65A2	12	16W	1	20	14	142	0.2	0	620

901	5079517	490274	YY485521	5433850	82F03	371L	9D	5.5	412	24BFP	322	ORBR	45S2	11	21W	1	22	14	106	0.2	0	560
902	5079517	490275	YY485520	5433900	82F03	291L	9	5.7	412	24BFP		ORBR	70S2	11	18W	1	20	16	128	0.4	0	500
903	5079517	490276	YY485520	5433950	82F03	291L	9	5.6	412	24BFP		ORBR	10S2	11	12W	2	18	10	122	0.2	0	470
904	5079517	490277	YY485520	5434000	82F03	491L	9	5.8	412	24BFP		ORBR	30S2	10	12N	1	16	10	146	0.2	0	560
905	5079517	490278	YY485547	5434045	82F03	791L	9	6.3	412	24BFP		ORBR	10S2	10	4N	2	30	18	136	0.2	0	660
906	5079517	490279	YY485510	5434098	82F03	791L	9	5.8	412	24BFP		ORBR	20S2	10	7N	1	24	14	242	0.2	0	550
907	5079517	490281	YY485509	5434148	82F03	291L	9	5.9	412	24BMB		MBR	35S2	10	12W	1	24	20	98	0.2	0	940
908	5079517	490282	YY485508	5434197	82F03	291L	9	5.8	412	24BFP		ORBR	30S2	10	18W	1	16	16	158	0.2	0	580
909	5079517	490283	YY485505	5434247	82F03	291L	9	5.7	412	24BFP		ORBR	25S2	10	14W	1	24	10	160	0.2	0	650
910	5079517	490284	YY485505	5434297	82F03	291L	9	5.6	412	24BMB		ORBR	30S2	10	16W	1	16	10	74	0.2	0	740
911	5079517	490285	YY485504	5434347	82F03	391L	9	5.9	412	24BFP		ORBR	20S2	11	23W	1	22	10	120	0.2	0	640
912	5079517	490286	YY485501	5434397	82F03	391L	9	5.9	412	24BFP		ORBR	30S2	10	21W	1	24	8	170	0.2	0	570
913	5079517	490287	YY485500	5434447	82F03	291L	9	6.3	412	24BFP		ORBR	35S2	11	14W	1	28	20	96	0.2	0	590
914	5079517	490288	YY485500	5434497	82F03	791L	9	6.2	412	24BFP		ORBR	25S2	10	8W	1	20	8	98	0.2	0	630
915	5079517	490289	YY485500	5434544	82F03	291L	9	5.6	412	24BFP		ORBR	35S2	10	14W	1	16	10	112	0.2	0	620
916	5079517	490290	YY485500	5434595	82F03	391L	9	6.1	412	24BFP		ORBR	30S2	10	22W	1	24	10	96	0.2	0	730
917	5079517	490291	YY485500	5434642	82F03	491L	9	5.8	412	24BFP		ORBR	10S2	10	6	1	20	12	104	0.2	0	590
918	5079517	490292	YY485500	5434692	82F03	391L	9	6.1	412	24BFP		ORBR	10S2	8	22W	1	16	20	68	0.2	0	580
919	5079517	490294	YY485500	5434750	82F03	291L	9	6.5	412	24BFP		ORBR	30S2	9	18W	1	20	14	92	0.2	0	620
920	5079517	490296	YY484742	5435480	82F03	371L	9	5.8	412	24BMB		MBR	20S2	11	22S	4	40	34	790	0.4	5	780
921	5079517	490297	YY484750	5435425	82F03	371L	9	5.5	412	24BMB		MBR	P20S2	12	21S	4	32	20	796	0.2	12	890
922	5079517	490298	YY484752	5435379	82F03	291L	9	6.3	412	24BMB		MBR	30S2	11	18S	2	24	14	862	0.4	0	840
923	5079517	490299	YY484760	5435324	82F03	291L	9	6.1	412	24BFP		LORBR	20S2	14	12S	4	28	14	1160	0.4	0	820
924	5079517	*490300	YY484762	5435275	82F03	291L	9	6.3	412	24BFP		LORBR	30S2	11	8S	4	40	12	746	0.4	0	930
925	5079517	*490301	YY484762	5435275	82F03	291L	9	6.4	412	26BFP		LORBR	30S2	11	8S	4	36	12	746	0.4	0	850
926	5079517	490302	YY484770	5435226	82F03	291L	9	5.6	412	24BMB		MBR	30S2	12	10S	4	28	16	802	0.4	0	640
927	5079517	490303	YY484775	5435180	82F03	291L	9	6.2	412	24BMB		MBRGRA	20S2	12	10S	4	56	20	1048	0.4	15	740
928	5079517	490304	YY484782	5435126	82F03	291L	9	6.1	412	24AE		GREY	35S2	12	9S	4	60	12	252	0.4	2	450
929	5079517	490305	YY484783	5435075	82F03	291L	9	6.4	412	24BFP		ORBR	35S2	11	12S	2	36	16	554	0.2	0	700
930	5079517	490306	YY484790	5435029	82F03	291L	9	6.0	412	24BFP		ORBR	35S2	11	10S	2	40	18	978	1.0	0	700
931	5079517	490307	YY484802	5434974	82F03	391L	9P	6.2	412	24BFP	322	ORBR	55S2	11	22S	4	40	18	762	1.2	30	800
932	5079517	490308	YY484810	5434920	82F03	291L	9	6.3	412	24BFP		ORBR	40S2	12	14S	4	60	14	490	1.0	12	780
933	5079517	490309	YY484812	5434879	82F03	491L	9	5.8	412	24BFP		ORBR	20S2	11	4S	2	20	16	546	1.0	0	590
934	5079517	490310	YY484816	5434826	82F03	271L	9	6.0	412	24BFP		ORBR	20S2	11	10S	2	36	24	536	0.6	0	690
935	5079517	490311	YY484820	5434772	82F03	371L	9	6.2	412	24BFP		ORBR	35S2	13	30S	2	30	22	700	0.6	0	710
936	5079517	490313	YY484829	5434721	82F03	391L	9	5.9	412	24BFP		ORBR	30S2	14	21W	3	30	16	336	0.4	0	740
937	5079517	490314	YY484832	5434680	82F03	391L	9P	6.1	412	24BMB	322	MBR	65A2	15*	27W	2	32	32	362	0.4	10	540
938	5079517	490315	YY484836	5434626	82F03	371L	9D	5.6	412	24BFP	322	ORBR	30S2	13	22W	1	2	2	6	0.2	2	390
939	5079517	490316	YY484840	5434580	82F03	391L	9	6.2	412	24BMB		MBR	32S2	12	23W	4	34	18	882	2.0	0	600
940	5079517	490317	YY484847	5434530	82F03	291L	9	6.6	412	24BMB		MBRGRA	25S2	12	18W	2	36	18	640	2.0	0	820
941	5079517	490318	YY484849	5434480	82F03	391L	9	6.2	412	24BFP		ORBR	20S2	12	21W	2	34	16	364	0.6	0	880
942	5079517	490319	YY484803	5434475	82F03	391L	9	6.5	412	24BFP		ORBR	35S2	12	30W	4	48	26	1072	0.6	0	910
943	5079517	490320	YY484755	5434474	82F03	391L	9	6.4	412	24BFP		ORBR	75A2	12	26W	2	32	76	648	0.6	5	640
944	5079517	490321	YY484702	5434472	82F03	371L	9D	6.6	412	26BFP	322	ORBR	60S2	13	82W	2	42	12	662	0.4	5	650
945	5079517	490322	YY484667	5434474	82F03	371L	9P	6.9	412	24BFP	322	ORBR	60A2	14	24W	2	32	28	288	0.6	5	530
946	5079517	490323	YY484620	5434473	82F03	371L	9P	6.4	412	24BFP	322	ORBR	35S2	13	26W	2	40	14	212	0.6	2	700
947	5079517	490324	YY484902	5434478	82F03	391L	9	6.2	412	24BFP		ORBR	20S2	12	22W	1	12	2	230	0.6	2	780
948	5079517	490325	YY484922	5434476	82F03	291L	9	6.8	412	24BFP		ORBR	20S2	12	18W	2	36	16	322	0.6	2	710
949	5079517	490326	YY484598	5435525	82F03	241L	9P	6.0	412	24BFP	322	ORBR	45A2	13	18S	6	56	28	730	0.8	12	790
950	5079517	490327	YY484599	5435480	82F03	241L	9	5.9	412	24BFP		ORBR	30S2	13	12S	6	84	22	1310	0.4	30	860
951	5079517	490328	YY484599	5435430	82F03	391L	9P	6.4	412	24BFP	322	ORBR	45A2	13	22S	4	36	16	1826	0.4	5	640
952	5079517	490329	YY484600	5435330	82F03	291L	9	5.9	412	24BFP		ORBR	P30S2	12	20S	2	24	20	1436	0.4	12	540
953	5079517	*490330	YY484601	5435320	82F03	291L	9	6.2	412	24BFP		ORBR	30S2	12	12S	2	30	14	1080	0.4	20	740
954	5079517	*490331	YY484601	5435320	82F03	291L	9	6.0	412	24BFP		ORBR	30S2	12	12S	2	30	14	1102	0.2	20	690
955	5079517	490332	YY484602	5435272	82F03	291L	9	6.8	412	24BFP		OABR	20S2	12	10S	4	32	12	1090	0.2	12	780
956	5079517	490333	YY484600	5435220	82F03	291L	9	5.7	412	24BFP		ORBR	20S2	12	10S	4	38	16	1172	0.2	15	950
957	5079517	490334	YY484601	5435170	82F03	291L	9	6.1	412	24BFP		ORBR	P20S2	12	10S	6	38	10	584	0.4	20	1050
958	5079517	490335	YY484603	5435120	82F03	291L	9	6.2	412	24BFP		ORBR	20S2	12	14S	4	40	16	1536	0.8	15	900
959	5079517	490336	YY484603	5435070	82F03	381L	9	6.2	412	24BFP		ORBR	20S2	12	24S	4	28	12	748	0.6	20	930

961	5079517	490338	YY484605	5434970	82F03	281L	9	6.6	412	248FP	ORBR	30S2	13	18S	2	32	12	772	0.8	12	810
962	5079517	490339	YY484606	5434920	82F03	291L	9	7.0	412	248FP	ORBR	25S2	13	20S	4	74	12	670	1.0	30	970
963	5079517	490340	YY484605	5434871	82F03	491L	9	6.3	412	248FP	ORBR	10S2	12	8S	2	34	12	756	1.0	10	720
964	5079517	490341	YY484610	5434820	82F03	491L	9	6.1	412	248FP	ORBR	10S2	12	10S	2	24	8	530	0.8	8	640
965	5079517	490342	YY484609	5434769	82F03	391L	9	6.7	412	248FP	ORBR	40S2	12	24W	3	28	14	520	0.4	0	1050
966	5079517	490343	YY484610	5434720	82F03	391L	9P	6.3	412	248FP322	ORBR	45S2	12	22W	2	38	26	930	0.4	20	890
967	5079517	490344	YY484612	5434669	82F03	391L	9	6.3	412	248FP	ORBR	40S2	12	24W	4	50	102	338	1.6	2	1050
968	5079517	490345	YY484614	5434625	82F02	391L	9	6.5	412	248FP	ORBR	25S2	12	32S	2	42	22	600	0.6	0	720
969	5079517	490347	YY434576	5434529	82F03	291L	9	4.9	412	248FP	ORBR	25S2	13	19W	2	38	18	416	0.2	2	720
970	5079517	490348	YY484540	5434528	82F03	391L	9	6.4	412	248MB	MBRGRA	20S2	12	24W	4	64	16	326	0.2	10	1100
971	5079517	490350	YY484500	5434528	82F03	381L	9	6.6	412	248FP	ORBR	10S2	12	22S	2	40	22	662	0.2	12	690
972	5079517	490351	YY484460	5434529	82F03	381L	9	6.5	412	248MB	MBR	10S2	13	22S	2	52	16	630	0.6	15	810
973	5079517	490352	YY484425	5434527	82F03	281L	9	4.6	412	248FP	ORBR	15S2	12	18S	2	46	18	840	0.4	12	660
974	5079517	490353	YY484420	5434576	82F03	381L	9	6.6	412	248FP	ORBR	30S2	12	25W	4	58	16	860	0.6	20	790
975	5079517	490354	YY484425	5434624	82F03	381L	9	6.4	412	248MB	MBRGPA	30S2	14	22W	6	64	10	604	0.2	30	1040
976	5079517	490355	YY484426	5434675	82F03	381L	9	6.6	412	248FP	ORBR	30S2	14	22S	2	60	30	638	0.2	10	870
977	5079517	490356	YY484428	5434724	82F03	381L	9	6.0	412	248FP	ORBR	25S2	12	22S	3	54	10	650	0.2	12	880
978	5079517	490357	YY484428	5434779	82F03	381L	9	5.3	412	248FP	ORBRGR	30S2	14	22S	4	76	8	930	0.4	20	890
979	5079517	490358	YY484430	5434823	82F03	281L	9	6.1	412	248MB	MBRGPA	35S2	12	20S	4	56	10	1700	0.2	20	880
980	5079517	490359	YY484429	5434875	82F03	281L	9	5.6	412	248FP	ORBR	20S2	12	18S	2	40	24	1020	1.0	35	620
981	5079517	490360	YY484443	5435522	82F03	271L	9	5.7	412	248FP	ORBR	15S2	12	18W	3	34	10	816	0.4	20	610
982	5079517	490361	YY484440	5435473	82F03	391L	9	5.6	412	248FP	ORBR	25S2	12	22W	4	38	10	1112	0.6	30	820
983	5079517	490362	YY484440	5435420	82F03	341L	9P	6.9	412	248FP322	ORBR	25S2	14*	23W	8	74	12	732	2.0	35	950
984	5079517	*490363	YY484440	5435372	82F03	241L	9P	5.5	412	248FP322	ORBR	25S2	15*	19W	8	72	18	764	1.0	20	790
985	5079517	*490364	YY484440	5435372	82F03	141L	9P	5.9	412	248FP322	ORBR	25S2	15	19W	6	58	18	770	0.6	15	760
986	5079517	490365	YY484440	5435320	82F03	241L	9P	5.8	412	248FP322	ORBR	30A2	15*	12W	8	64	16	1060	0.6	20	730
987	5079517	490366	YY484440	5435272	82F03	241L	9P	5.7	412	248FP322	ORBR	30S2	15*	18W	10	74	16	762	0.4	20	790
988	5079517	490367	YY484440	5435221	82F03	241L	9P	5.5	412	248FP322	ORBR	2	15	20S	8	68	14	688	0.4	12	600
989	5079517	490368	YY484437	5435174	82F03	341L	9P	5.9	412	248FP322	ORBR	30S2	15	22S	6	64	12	1120	1.0	30	740
990	5079517	490369	YY484436	5435120	82F03	381L	9	6.0	412	248FP	ORBR	35S2	14	22S	6	48	28	1008	0.8	20	590
991	5079517	490370	YY484435	5435075	82F03	291L	9	5.7	412	248FP	ORBR	15S2	14	12S	4	56	14	1170	1.0	25	750
992	5079517	490371	YY484434	5435024	82F03	281L	9	6.0	412	248FP	ORBR	20S2	15	16S	4	36	12	1158	1.0	20	770
993	5079517	490372	YY484435	5434973	82F03	381L	9	6.1	412	248FP	ORBR	20S2	14	21S	4	34	14	1532	0.4	20	710
994	5079517	490373	YY484432	5434920	82F03	281L	9	6.1	412	248FP	ORBR	20S2	14	20S	4	34	8	1636	0.6	20	640
995	5079517	490374	YY484389	5434772	82F03	381L	9	6.1	412	248FP	ORBR	20S2	15	21S	4	40	8	1246	0.6	20	680
996	5079517	490375	YY484350	5434770	82F03	381L	9	6.1	412	248FP	ORBR	30S2	14	22S	6	48	18	1064	0.8	20	700
997	5079517	490376	YY484306	5434774	82F03	391L	9	6.2	412	248FP	ORBR	35S2	14	21S	4	32	10	1322	0.8	15	490
998	5079517	490377	YY484307	5434824	82F03	281L	9	6.4	412	248FP	ORBR	35S2	14	20S	4	28	8	1736	1.0	12	580
999	5079517	490378	YY484307	5434874	82F03	281L	9	4.8	412	248FP	ORBR	30S2	14	18S	4	32	10	962	1.0	25	700
1000	5079517	490379	YY484305	5434920	82F03	281L	9	6.2	412	248FP	ORBR	15S2	13	12S	2	28	8	1368	0.8	15	600
1001	5079517	490380	YY484306	5434972	82F03	291L	9	6.5	412	248FP	ORBR	25S2	13	12S	2	46	12	1438	0.8	45	700
1002	5079517	490381	YY484302	5435020	82F03	291L	9	6.1	412	248FP	ORBR	20S2	15	12S	4	46	12	1320	0.8	15	650
1003	5079517	490382	YY484302	5435072	82F03	241L	9	5.7	412	248FP	ORBR	20S2	15	11S	8	56	12	962	2.0	25	760
1004	5079517	490383	YY484302	5435120	82F03	291L	9	5.7	412	248FP	ORBR	30S2	14	12W	4	42	22	1740	0.8	20	530
1005	5079517	490384	YY484302	5435171	82F03	291L	9	6.1	412	248FP	ORBR	10S2	14	20W	4	48	14	698	0.8	15	730
1006	5079517	490385	YY484302	5435220	82F03	371L	9	6.3	412	248FP	ORBR	15S2	16	21W	2	58	14	1570	0.4	35	1010
1007	5079517	490386	YY484302	5435269	82F03	371L	9P	6.0	412	243FP322	ORBR	30S2	18*	22W	2	34	14	1446	0.6	8	700
1008	5079517	490387	YY484300	5435318	82F03	241L	9P	6.9	412	248FP322	ORBR	45A2	20*	24W	8	54	16	550	0.4	12	800
1009	5079517	490388	YY484299	5435369	82F03	341L	9P	6.1	412	248FP322	ORBR	35S2	19	28W	6	48	14	1226	0.4	8	710
1010	5079517	490389	YY484298	5435418	82F03	371L	9	6.3	412	248FP	ORBR	20S2	19	24W	2	30	10	1094	0.4	0	600
1011	5079517	490390	YY484298	5435472	82F03	391L	9	5.7	412	248FP	ORBR	30A2	19	25W	6	36	16	1216	0.4	10	700
1012	5079517	490391	YY484298	5435520	82F03	391L	9	5.8	412	248FP	OFBR	35A2	18	24W	6	28	22	1608	0.4	2	720
1013	5079517	490392	YY484149	5435619	82F03	291L	9	5.9	412	248FP	ORBR	25S2	14	20W	1	22	24	860	0.2	0	640
1014	5079517	490393	YY484150	5435670	82F03	271L	9	6.1	412	248FP	ORBR	10S2	15	18W	1	34	20	2060	1.2	0	620
1015	5079517	490394	YY484150	5435720	82F03	271L	9P	5.7	412	248FP322	ORBR	55A2	17	18W	4	36	24	1560	0.8	0	600
1016	5079517	490395	YY484150	5435770	82F03	371L	9P	5.7	412	248FP322	ORBR	10S2	15	32N	2	34	24	1024	0.6	2	610
1017	5079517	490396	YY484150	5435817	82F03	391L	9B	6.1	412	248FP322	ORBR	45S2	20*	42N	8	120	72	1960	2.8	0	830
1018	5079517	490397	YY484150	5435870	82F03	371L	9P	6.2	412	248FP322	ORBR	60A2	20*	40N	8	256	18	3770	1.4	2	790
1019	5079517	490398	YY484150	5435915	82F03	391L	9P	5.7	412	248FP322	ORBR	25A2	22*	34N	10	112	28	1130	3.2	0	680

1021	5079517	490400	YY484150	5436012	82F03	391L	9	5.7	412	24BFP	ORBR	35A2	18	32N	4	148	22	1190	4.2	0	620
1022	5079517	490401	YY484150	5436062	82F03	391L	9P	6.2	412	24BFP322	ORBR	80A2	20*	28N	2	176	42	592	1.0	0	950
1023	5079517	490402	YY484150	5436112	82F03	381L	9	6.3	412	24BFP	ORBR	20S2	18	34N	2	162	20	482	0.4	5	920
1024	5079517	490403	YY484150	5436162	82F03	381L	9	5.9	412	24BFP	ORBR	65S2	20	24W	6	320	34	4160	1.2	12	1000
1025	5079517	490404	YY484150	5436210	82F03	381L	9	6.7	412	24BFP	ORBR	40S2	20	27SW	1	56	14	536	0.4	15	800
1026	5079517	490405	YY484150	5436262	82F03	381L	9	5.9	412	24BFP	ORBR	25S2	20	27N	1	68	20	640	0.4	2	760
1027	5079517	490406	YY484150	5436310	82F03	381L	9	6.1	412	24BFP	ORBR	20S2	14	22N	1	68	30	640	0.4	0	690
1028	5079517	490407	YY484150	5436362	82F03	391L	9P	6.3	412	24BFP322	ORBR	35S2	12	22N	1	84	14	390	0.6	45	750
1029	5079517	490408	YY484150	5436410	82F03	391L	9	6.2	412	24BFP	ORBR	30S2	14	22N	1	22	14	308	0.2	15	660
1030	5079517	490409	YY484150	5436460	82F03	391L	9	6.2	412	24BFP	ORBR	20S2	12	22N	1	36	16	266	0.2	15	670
1031	5079517	490410	YY484150	5436510	82F03	391L	9	6.1	412	24BFP	ORBR	20S2	12	21N	1	24	16	334	0.4	15	830
1032	5079517	490411	YY484150	5436562	82F03	291L	9	5.9	412	24BFP	ORBR	25S2	12	20N	1	32	12	536	0.2	10	630
1033	5079517	490412	YY484150	5436610	82F03	271L	9	5.6	412	24BFP	ORBR	40S2	15	20N	1	40	28	990	0.2	15	630
1034	5079517	490413	YY484200	5436610	82F03	291L	9	5.9	412	24BFP	ORBR	15S2	15	18N	2	26	16	560	0.2	12	580
1035	5079517	*490414	YY484250	5436610	82F03	2H1L	9	6.5	412	24BFP	ORBR	P30S2	15	20N	2	28	10	218	0.2	25	930
1036	5079517	*490415	YY484250	5436610	82F03	2H1L	9	6.6	412	24BFP	ORBR	P35S2	15	20N	2	24	10	210	0.2	15	850
1037	5079517	490416	YY484300	5436610	82F03	2H1L	9	6.6	412	24BFP	ORBR	P30S2	15	20N	1	26	8	220	0.2	0	760
1038	5079517	490417	YY484300	5434715	82F03	381L	9D	6.3	412	24BMB110	MBRGPH	30S2	15	30E	6	42	14	800	0.2	15	1040
1039	5079517	490418	YY484301	5434667	82F03	341L	9P	6.2	412	24BFP110	ORBR	30S2	15	30E	6	48	8	666	0.6	20	1070
1040	5079517	490419	YY484304	5434617	82F03	341L	9P	6.4	412	24BFP110	ORBR	35S2	20	30E	6	64	14	938	0.4	25	1050
1041	5079517	490420	YY484305	5434570	82F03	341L	9R	6.3	412	24BFP110	ORBR	P20A2	25*	32E	6	68	14	2020	0.4	15	990
1042	5079517	490421	YY484305	5434515	82F03	381L	9	6.5	412	24BFP	ORBR	20S2	15	28E	2	44	30	820	0.4	12	890
1043	5079517	490422	YY484305	5434467	82F03	381L	9	6.3	412	24BFP	ORBR	15S2	15	24E	2	38	12	720	0.6	15	1040
1044	5079517	490423	YY484307	5434415	82F03	381L	9	5.9	412	24BFP	LORBR	45S2	15	22S	6	76	16	800	0.6	20	1100
1045	5079517	490424	YY484308	5434368	82F03	281L	9	6.3	412	24BFP	ORBR	35S2	15	18S	2	46	14	868	0.4	10	830
1046	5079517	490425	YY484310	5434315	82F03	281L	9	6.2	412	24BFP	ORBR	40S2	15	12S	2	40	12	984	0.8	8	830
1047	5079517	490426	YY494310	5434270		491L	9	6.2	412	24BFP	ORBR	10S2	15	12S	4	34	12	808	0.6	20	960
1048	5079517	490429	YY484308	5434170	82F03	391L	9	6.4	412	24BFP	ORBR	30S2	15	22N	1	32	18	836	0.6	8	770
1049	5079517	490430	YY484310	5434120	82F03	381L	9	6.4	412	24BFP	ORBR	45A2	15	30W	6	44	20	1070	0.4	0	970
1050	5079517	490431	YY484310	5434070	82F03	391L	9B	6.1	412	20BFP322	ORBR	40A2		34N	1	26	20	186	0.2	0	760
1051	5079517	490432	YY484310	5434020	82F03	381L	9R	6.1	412	24BFP322	ORBR	45A2	13	30W	1	36	10	214	0.4	0	800
1052	5079517	490434	YY484314	5433877	82F03	391L	9R	5.7	412	24BFP322	ORBR	10S2	11	22N	1	32	76	406	0.4	0	740
1053	5079517	490437	YY484316	5433777	82F03	391L	9	6.0	412	24BFP	ORBR	30S2	15	22W	2	42	22	318	0.4	0	760
1054	5079517	490438	YY484318	5433726	82F03	391L	9	6.4	412	24BFP	ORBR	45A2	15	22W	1	28	24	176	0.2	0	770
1055	5079517	490439	YY484318	5433678	82F03	391L	9	6.5	412	24BFP	ORBR	10S2	15	22W	1	30	28	144	0.4	0	620
1056	5079517	490440	YY484320	5433627	82F03	391L	9	5.6	412	24BFP	ORBR	15S2	15	22W	1	40	14	198	0.2	10	830
1057	5079517	490441	YY484320	5433570	82F03	291L	9	6.2	412	24BFP	ORBR	20S2	14	18W	1	32	16	150	0.2	0	640
1058	5079517	490442	YY484279	5433591	82F03	391L	9	6.3	412	24BFP	ORBR	25S2	14	22W	1	28	28	208	0.2	2	690
1059	5079517	490443	YY484228	5433591	82F03	391L	9	6.9	412	24BFP	ORBR	20S2	14	22W	1	28	28	174.	0.2	0	670
1060	5079517	490444	YY484180	5433590	82F03	291L	9	6.3	412	24BFP	ORBR	20S2	12	20W	1	28	24	274	0.4	8	680
1061	5079517	490445	YY484125	5433590	82F03	391L	9	6.4	412	24BFP	ORBR	20S2	14	24W	1	44	18	258	0.4	2	800
1062	5079517	490446	YY484080	5433590	82F03	291L	9	6.5	412	24BFP	ORBR	15S2	12	20W	1	36	22	262	0.4	0	1150
1063	5079517	490447	YY484020	5433590	82F03	291L	9	6.8	412	24BFP	ORBR	30S2	12	17W	1	28	70	700	1.2	0	650
1064	5079517	490448	YY483982	5433588	82F03	391L	9	6.3	412	24BFP	ORBR	65A	14	28W	1	24	56	498	1.2	12	650
1065	5079517	*490449	YY483932	5433588	82F03	391L	9	6.5	412	24BFP	ORBR	35S2	14	22W	1	36	18	766	0.6	2	660
1066	5079517	*490450	YY483932	5433588	82F03	391L	9	6.5	412	24BFP	ORBR	30S2	15	22W	1	32	20	810	0.4	5	680
1067	5079517	490451	YY484000	5435531	82F03	271L	9	6.3	412	24BFP	ORBR	30S2	16	18S	2	.40	16	1540	0.4	5	790
1068	5079517	490452	YY484000	5435482	82F03	271L	9	6.1	412	24BFP	ORBR	30S2	17	10S	2	36	24	1710	0.6	2	620
1069	5079517	490453	YY484000	5435435	82F03	291L	9	6.3	412	24BFP	ORBR	20S2	17	20W	4	32	10	2170	0.8	2	670
1070	5079517	490454	YY484000	5435384	82F03	291L	9	6.1	412	24BFP	ORBR	15S2	15	20W	2	28	10	1642	0.4	0	720
1071	5079517	490455	YY484000	5435335	82F03	291L	9	6.0	412	24BMB	MBR	10S2	14	20W	4	42	12	3000	0.4	10	740
1072	5079517	490456	YY484000	5435285	82F03	271L	9	5.9	412	24BFP	ORBR	15S2	15	16W	2	40	20	1562	0.8	2	810
1073	5079517	490457	YY484000	5435235	82F03	271L	9	6.0	412	24BFP	ORBR	15S2	14	18W	4	32	12	1400	0.6	12	650
1074	5079517	490458	YY484000	5435185	82F03	271L	9	5.7	412	24BFP	ORBR	15S2	14	18W	4	38	30	810	0.8	5	550
1075	5079517	490459	YY484000	5435135	82F03	291L	9	5.9	412	24BFP	ORBR	15S2	14	20W	2	24	38	786	0.8	0	520
1076	5079517	490460	YY494000	5435085	82F03	271L	9	6.2	412	24BFP	ORBR	20S2	15	16W	4	38	26	830	0.4	0	680
1077	5079517	490461	YY484000	5435036	82F03	291L	9	6.3	412	24BFP	ORBR	25S2	15	18W	6	54	14	2500	0.6	12	710
1078	5079517	490462	YY484000	5434985	82F03	341L	9P	5.8	412	24BFP322	ORBR	55A2	16	21W	12	64	16	1642	0.6	5	790
1079	5079517	490463	YY484000	5434936	82F03	291L	9	5.9	412	24BFP	ORBR	20S2	15	16W	4	34	10	1900	0.4	0	640
1080	5079517	490464	YY434000	5434890	82F03	291L	9	5.7	412	24BFP	ORBR	25S2	15	16W	4	42	12	[illegible]	[illegible]	[illegible]	[illegible]

1081	5079517	490465	YY	484000	5434840	82F03	241L	9D	6.0	412	24BFP322	ORBR	55A2	17	16W	8	52	22	930	0.2	12	630
1082	5079517	490466	YY	484000	5434790	82F03	241L	9B	6.5	412	20BFP322	ORBR	60A2	17	18S	10	114	30	2780	1.6	10	770
1083	5079517	490467	YY	484000	5434740	82F03	241L	9	6.2	412	24BFP	ORBR	30S2	15	20S	6	82	14	1132	0.6	30	830
1084	5079517	490468	YY	484000	5434690	82F03	381L	9	6.1	412	24BFP	ORBR	20S2	14	22S	7	74	12	1068	0.6	20	1150
1085	5079517	490469	YY	484000	5434640	82F03	281L	9	6.0	412	24BFP	ORBR	15S2	15	22S	3	28	14	2480	0.8	12	760
1086	5079517	490470	YY	484000	5434591	82F03	281L	9	6.6	412	24BFP	ORBR	15S2	14	18S	2	26	8	1448	0.8	0	560
1087	5079517	490471	YY	484000	5434540	82F03	381L	9P	6.1	412	24BFP322	ORBR	40A2	14	28S	4	94	20	3150	0.6	35	1000
1088	507951795	490472	YY	484000	54344914	82F03	2381L	9	6.1	412	24BFP	ORBR	35S235	14	22S	2	66	12	2040	0.6	15	1150
1089	5079517	490473	YY	484000	5434442	82F03	381L	9	6.0	412	24BFP	ORBR	30S2	15	24S	4	42	10	1930	0.8	12	970
1090	5079517	490474	YY	484000	5434392	82F03	281L	9	5.7	412	24BFP	ORBR	20S2	14	22S	6	54	12	1300	0.6	12	770
1091	5079517	490475	YY	484000	5434342	82F03	381L	9	6.5	412	24BFP	ORBR	25S2	12	22S	8	48	20	1136	0.8	10	930
1092	5079517	490476	YY	484000	5434295	82F03	281L	9	6.2	412	24BFP	ORBR	35S2	12	12S	4	50	14	1650	0.4	12	960
1093	5079517	490477	YY	484000	5434243	82F03	281L	9	6.2	412	24BFP	ORBR	35B2	14	14S	2	36	10	1680	0.6	10	720
1094	5079517	490478	YY	484000	5434195	82F03	281L	9	6.3	412	24BFP	ORBR	20S2	12	11S	2	42	8	984	0.6	15	930
1095	5079517	490479	YY	484000	5434145	82F03	581L	9	6.1	412	24BFP	ORBR	25B2	12		2	28	10	1136	0.4	15	780
1096	5079517	490480	YY	484000	5434096	82F03	581L	9	5.5	412	24BMB	MBR	30S2	12	8S	2	48	20	682	0.6	12	860
1097	5079517	490482	YY	484000	5434045	82F03	591L	9	5.7	412	24BFP	ORBR	30S2	12	10S	2	28	20	646	0.2	12	790
1098	5079517	490483	YY	484000	5434000	82F03	291L	9	5.8	412	24BFP	ORBR	10S2	13	12W	2	28	6	298	0.6	0	600
1099	5079517	490484	YY	484000	5433952	82F03	391L	9B	6.0	412	24BFP322	ORBR	35A2	14	24W	2	44	22	760	0.4	2	750
1100	5079517	490485	YY	484000	5433901	82F03	391L	9	6.1	412	24BFP	ORBR	10S2	12	24W	1	14	2	86	0.2	0	810
1101	5079517	490486	YY	484000	5433852	82F03	391L	9	6.3	412	24BFP	ORBR	15S2	12	22W	1	30	6	160	0.4	0	690
1102	5079517	490487	YY	484000	5433801	82F03	391L	9	6.2	412	24BFP	ORBR	15S2	12	26W	1	14	6	106	0.2	0	520
1103	5079517	490488	YY	484000	5433752	82F03	391L	9	6.1	412	24BFP	ORBR	10S2	12	30W	1	18	4	120	0.2	0	780
1104	5079517	490489	YY	484000	5433705	82F03	191L	9	6.1	412	24BFP	ORBR	30S2	14	12W	1	34	12	604	0.4	0	650
1105	5079517	490490	YY	484000	5433654	82F03	291L	9P	6.3	412	24BFP322	ORBR	25S2	14	16W	1	28	20	820	0.8	0	680
1106	5079517	*490491	YY	484000	5433603	82F03	291L	9	6.4	412	24BFP	ORBR	65A2	12	12W	1	18	36	472	0.4	0	730
1107	5079517	*490492	YY	484000	5433603	82F03	291L	9	6.6	412	24BFP	ORBR	65A2	12	12W	1	28	48	600	0.2	0	740
1108	5079517	490493	YY	483395	5435583	82F03	381L	9	6.2	412	24BFP	ORBR	35S2	12	21S	2	134	34	424	0.6	2	1020
1109	5079517	490494	YY	483395	5435630	82F03	191L	9	5.8	[illegible]	24BFP	ORBR	75H2	14	12S	2	72	720	900	6.2	0	1030
1110	5079517	490495	YY	483395	5435680	82F03	291L	9	6.0	412	24BFP	ORBR	35S2	11	16N	1	52	20	436	0.6	0	650
1111	5079517	490496	YY	483393	5435730	82F03	291L	9	5.8	412	24BFP	ORBR	35S2	12	18N	1	50	14	210	0.2	0	780
1112	5079517	490497	YY	483398	5435780	82F03	391L	9	5.4	412	24BFP	ORBR	25A2	15	22N	1	88	32	368	0.4	10	720
1113	5079517	490498	YY	483398	5435830	82F03	391L	9	5.9	412	24BFP	ORBR	25S2	11	28N	2	200	16	608	0.6	10	820
1114	5079517	490499	YY	483400	5435880	82F03	391L	9	6.2	412	24BFP	ORBR	30S2	12	24N	1	42	12	396	0.4	2	550
1115	5079517	490500	YY	483400	5435930	82F03	391L	9P	6.0	412	24BFP322	ORBR	35S2	12	32N	4	294	20	372	1.6	10	680
1116	5079517	490501	YY	483400	5435980	82F03	391L	9	6.1	412	24BFP	ORBR	20S2	12	21N	1	42	30	846	0.4	2	580
1117	5079517	490502	YY	483400	5436029	82F03	391L	9	5.8	412	24BFP	ORBR	25S2	13	21N	1	20	30	350	0.2	2	630
1118	5079517	490503	YY	483400	5436080	82F03	291L	9	6.0	412	24BFP	ORBR	10B2	14	20N	1	28	42	534	0.2	10	580
1119	5079517	490504	YY	483395	5433990	82F03	291L	9	5.9	412	24BFP	LORBR	10B2	12	12S	1	48	12	196	0.2	0	740
1120	5079517	490505	YY	483395	5433940	82F03	491L	9	6.0	412	24BFP	ORBR	10S2	11	10S	2	28	14	340	0.6	0	560
1121	5079517	490506	YY	483396	5433893	82F03	491L	9	5.8	412	24 FP	LORBR	10S2	12	10S	2	32	16	390	0.2	5	700
1122	5079517	490507	YY	483398	5433840	82F03	491L	9	6.1	412	24BFP	ORGRAY	10S2	11	11S	2	48	14	630	0.8	2	900
1123	5079517	490508	YY	483397	5433790	82F03	391L	9	6.3	412	24BFP	ORGRAY	10B2	12	21S	2	58	32	426	0.2	2	900
1124	5079517	490510	YY	483396	5433750	82F03	791L	9	6.1	412	24BFP	ORBR	5S2	11	8S	1	24	12	328	0.8	2	610
1125	5079517	490511	YY	483396	5433693	82F03	771L	9	6.3	412	24BFP	ORBR	5B2	11	10S	1	22	14	362	0.4	2	630
1126	5079517	490512	YY	483400	5433640	82F03	691L	9	6.2	412	24BFP	ORBR	10S2	11	10S	1	22	14	320	0.2	0	620
1127	5079517	*490513	YY	483400	5433591	82F03	291M	9	5.9	412	24BFP	ORBR	35B2	11	12N	1	32	16	246	0.2	0	680
1128	5079517	*490514	YY	483400	5433591	82F03	291M	9	5.6	412	24BFP	ORBR	30B2	11	12N	1	20	12	318	0.2	0	590
1129	5079517	490515	YY	483445	5433590	82F03	291L	9	5.8	412	24BFP	ORBR	20S2	12	20W	1	40	22	318	0.2	0	720
1130	5079517	490516	YY	483500	5433590	82F03	791L	9	6.0	412	24BFP	ORBR	15S2	10	8W	1	20	16	438	0.4	0	630
1131	5079517	490517	YY	483545	5433590	82F03	791L	9	5.8	412	20BFP	LORBR	5B2	11	8W	1	30	16	490	0.2	0	560
1132	5079517	490518	YY	483600	5433590	82F03	791L	9	6.1	412	24BFP	ORBR	5B2	11	9W	1	24	20	248	0.2	0	850
1133	5079517	490519	YY	483645	5433590	82F03	791L	9	6.1	412	24BFP	ORBR	5B2	11	11W	1	24	26	654	0.4	0	670
1134	5079517	490520	YY	483700	5433590	82F03	291L	9	5.9	412	24BMB	MBR	55B2	11	12W	1	24	14	520	0.2	0	660
1135	5079517	490521	YY	483745	5433590	82F03	291L	9	6.0	412	24BFP	ORBR Y	20S2	12	16W	1	28	12	182	0.2	0	700
1136	5079517	490522	YY	483800	5433590	82F03	291L	9	6.4	412	24BFP	ORBR	45A2	12	20W	1	22	30	300	0.2	0	660
1137	5079517	490523	YY	483875	5433590	82F03	291L	9	6.3	412	24BFP	ORGRAY	30S2	12	16W	4	42	12	540	0.2	0	730
1138	5079517	490524	YY	483690	5435482	82F03	341L	9P	6.2	412	24BFP322	ORBR	60A2	13	21S	4	44	22	1160	0.8	0	640
1139	5079517	490525	YY	483696	5435380	82F03	241L	9	6.0	412	24BFP	ORBR	45A2	15	20S	2	94	30	2060	3.4	0	830
1140	5079517	490527	YY	483698	5435178	82F03	341L	9P	5.8	412	24BFP322	ORBR	35A2	15	21W	2	60	10	[illegible]	[illegible]	0	[illegible]

1141	5079517	490528	YY483696	5435085	82F03	281L	9	5.7	412	24BFP	ORBR	20S2	14	20W	2	34	18	2900	0.4	0	770
1142	5079517	490529	YY483695	5434979	82F03	281L	9	5.8	412	24BMB	LBRGRA	20B2	15	16SW	8	70	14	1116	1.0	0	1100
1143	5079517	490530	YY483695	5434881	82F03	381L	9	5.8	412	24BFP	ORBR	35S2	18	22W	4	40	34	1280	0.8	0	690
1144	5079517	490531	YY483696	5434782	82F03	391L	9P	5.2	412	24BFP322	ORBR	55A2	20*	24W	6	34	22	1580	0.6	0	620
1145	5079517	490532	YY483699	5434679	82F03	381L	9P	6.0	412	24BFP322	ORBR	65A2	18	21W	10	54	18	1022	1.1	10	470
1146	5079517	490533	YY483700	5434582	82F03	281L	9	5.8	412	24BFP	ORBR	40S2	16	12S	4	28	30	1014	0.3	10	620
1147	5079517	490534	YY483700	5434483	82F03	391L	9	6.4	412	24BFP	ORBR	65A2	17	22S	6	36	22	1396	0.8	5	580
1148	5079517	490535	YY483702	5434385	82F03	391L	9	6.3	412	24BFP	ORBR	80A2	17	23S	18	98	58	3640	1.0	10	450
1149	5079517	490536	YY483707	5434275	82F03	241L	9P	6.6	412	24BFP322	ORBR	55A2	25*	20S	8	76	20	698	1.2	15	590
1150	5079517	490537	YY483706	5434195	82F03	291L	9	5.9	412	24BFP	ORBR	20S2	16	10S	2	40	22	1280	0.6	20	570
1151	5079517	490538	YY483708	5434087	82F03	291L	9	6.1	412	24BFP	ORBR	40B2	16	18S	4	44	28	1120	0.6	5	580
1152	5079517	490539	YY483710	5434010	82F03	291L	9	6.4	412	24BFP	ORBR	30S2	14	7S	1	32	16	924	0.8	2	460
1153	5079517	490540	YY483705	5433943	82F03	291L	9	6.2	412	24BFP	ORBR	20B2	11	8S	2	42	22	826	0.8	5	620
1154	5079517	490542	YY483710	5433765	82F03	791L	9	5.4	412	24BFP	LORBR	30B2	14	9S	2	26	12	568	0.2	80	560
1155	5079517	490543	YY484425	5434472	82F03	281L	9	6.2	412	24BFP	ORBR	30S2	11	14S	1	32	20	816	0.4	15	560
1156	5079517	490545	YY484430	5434380	82F03	291L	9	6.1	412	24BFP	ORBR	30B2	12	20W	2	36	12	568	0.4	0	540
1157	5079517	490546	YY484431	5434330	82F03	281L	9	6.2	412	24BFP	ORBR	35S2	17	14W	6	50	22	686	0.4	20	740
1158	5079517	490547	YY484431	5434280	82F03	291L	9	6.2	412	24BMB	MBR	35S2	18	14W	6	52	14	532	0.4	20	730
1159	5079517	490548	YY484436	5434252	82F03	291L	9	6.2	412	24BFP322	ORBR	30S2	12	16W	3	40	16	700	0.2	15	660
1160	5079517	490550	YY484431	5434205	82F03	291L	4	5.8	412	24BFP	ORBR	30S2	12	14N	3	46	16	376	0.4	5	800
1161	5079517	490551	YY484435	5434175	82F03	271L	9P	6.0	412	24BFP315	ORBR	25B2	15	26N	2	34	14	1340	0.4	20	630
1162	5079517	490552	YY484435	5434130	82F03	391L	9D	5.9	412	24BFP315	ORBR	20A2	15	26N	8	50	12	720	0.8	10	620
1163	5079517	490553	YY484435	5434080	82F03	391L	9	6.2	412	24BFP	ORBR	40B2	15	28N	2	32	12	244	0.4	5	520
1164	5079517	490554	YY484437	5434038	82F03	391L	9D	6.1	412	24BFP322	ORBR	45S2	12	28N	1	28	12	248	0.4	5	570
1165	5079517	490555	YY484440	5433992	82F03	291L	9D	6.1	412	24BFP322	ORBR	15S2	12	12N	1	32	8	244	0.2	0	600
1166	5079517	490556	YY484440	5433950	82F03	191L	9	6.3	412	24BFP	ORBR	20S2	11	10S	1	24	12	398	0.2	0	480
1167	5079517	490557	YY484440	5433900	82F03	291L	9	6.0	412	24BFP	ORBR	25S2	12	12W	1	24	100	1026	0.4	0	520
1168	5079517	490558	YY484441	5433855	82F03	391L	9	6.3	412	24BFP	ORBR	35S2	11	22N	1	28	24	270	0.2	0	610
1169	5079517	490559	YY484441	5433810	82F03	291L	9	6.2	412	24BFP	ORBR	15B2	12	20W	1	26	14	340	1.0	5	570
1170	5079517	490560	YY484443	5433760	82F03	291L	9	6.4	412	24BFP	ORBR	30S2	11	14W	1	26	14	222	0.2	2	530
1171	5079517	490561	YY484445	5433714	82F03	291L	9	6.7	412	24BFP	ORBR	20S2	11	14W	2	24	36	300	0.2	10	500
1172	5079517	490562	YY484447	5433665	82F03	291L	9	6.4	412	24BFP	ORBR	20A2	11	20W	2	22	16	202	0.2	5	460
1173	5079517	490563	YY484448	5433631	82F03	291L	9	6.2	412	24BFP	ORBR	25S2	11	16W	2	24	14	134	0.2	5	500
1174	5079517	490564	YY484185	5433640	82F03	291L	9	6.0	412	24BFP	ORBR	55S2	11	12W	1	36	14	208	0.2	10	560
1175	5079517	490565	YY484185	5433693	82F03	291L	9	5.9	412	24BFP	ORBR	10S2	11	8N	1	30	10	274	0.8	5	500
1176	5079517	490566	YY484183	5433740	82F03	291L	9	6.1	412	24BFP322	ORBR	25H2	11	16W	1	28	24	534	0.4	0	540
1177	5079517	490567	YY484182	5433792	82F03	391L	9	6.1	412	24BMB	MBRGRH	40H2	25	24N	10	48	10	448	0.2	2	830
1178	5079517	490568	YY484182	5433840	82F03	291L	9	5.8	412	24BFP	ORBR	15S2	8	20N	1	16	4	96	0.2	0	550
1179	5079517	490569	YY484182	5433890	82F03	391L	9P	6.1	412	24BFP322	ORBR	20B22	11121W		1	20	6	162	0.2	5	610
1180	5079517	490570	YY484180	5433940	82F03	391L	9	6.2	412	24BFP	ORBR	30S2	10	24W	1	20	6	138	0.2	5	620
1181	5079517	490571	YY484180	5433990	82F03	391L	9B	6.1	412	24BFP322	ORBR	25A2	11	32N	1	32	10	340	0.2	0	670
1182	5079517	490572	YY484180	5434035	82F03	291L	9P	5.9	412	24BFP322	ORBR	30H2	12	20W	1	26	12	538	0.2	8	560
1183	5079517	490573	YY484178	5434090	82F03	591L	9	6.2	412	24BFP	ORBR	30B2	12		1	30	14	794	0.2	0	640
1184	5079517	490575	YY484175	5434135	82F03	591L	9	6.1	412	24BFP	ORBR	25B2	11		3	52	14	816	0.8	2	640
1185	5079517	490576	YY484175	5434185	82F03	291L	9	6.2	412	24BF	ORBR	30A2	15	10S	1	36	28	490	0.4	30	710
1186	5079517	490577	YY484150	5435520	82F03	271L	9	5.5	412	24BFP	ORBR	30S2	15	14W	2	20	26	700	0.4	0	510
1187	5079517	490578	YY484151	5435470	82F03	271L	9	6.0	412	24BFP	ORBR	10S2	14	14W	4	28	20	2080	0.6	0	610
1188	5079517	490579	YY484152	5435418	82F03	271L	9	5.5	412	24BFP	ORBR	45A2	15	19W	6	20	14	2080	0.4	0	560
1189	5079517	490580	YY484155	5435370	82F03	341L	9	5.9	412	24BFP	ORBR	55H2	21	28W	8	32	26	2120	0.4	0	600
1190	5079517	490581	YY484158	5435319	82F03	371L	9	5.5	412	26BFP	ORBR	20B2	20	30W	4	32	12	4500	0.2	0	640
1191	5079517	490582	YY484160	5435270	82F03	271L	9	5.7	412	24BFP	ORBR	10S2	15	22W	10	56	16	5900	0.2	5	730
1192	5079517	490583	YY484160	5435220	82F03	271L	9	5.9	412	24BFP	ORBR	20B2	15	20W	4	36	12	3300	0.4	15	750
1193	5079517	490584	YY484163	5435170	82F03	341L	9	5.5	412	24BFP	ORBR	55S2	15	22W	6	40	26	1590	0.4	0	670
1194	5079517	490585	YY484165	5435120	82F03	271L	9	5.9	412	24BFP	ORBR	15S2	15	8W	4	30	14	1650	0.4	0	610
1195	5079517	490586	YY484166	5435070	82F03	271L	9	5.3	412	20BFP	ORBR	40A2	14	12W	4	48	20	920	0.2	5	660
1196	5079517	490587	YY484170	5435020	82F03	291L	9	5.4	412	24BFP	ORBR	25S2	20	12W	4	36	4	598	0.4	20	920
1197	5079517	490588	YY484175	5434971	82F03	291L	9	5.9	412	24BFP	ORBR	15S2	15	14S	2	24	12	1960	0.6	10	570
1198	5079517	490589	YY484175	5434920	82F03	271L	9	6.2	412	24BFP	ORBR	20A2	15	14W	4	60	8	1872	8.4	40	1010
1199	5079517	490590	YY484178	5434874	82F03	271L	9	5.5	412	24BFP	ORBR	15S2	12	16S	3	44	10	2360	0.6	70	940
1200	5079517	490591	YY484180	5434824	82F03	271L	9	6.0	412	24BFP	ORBR	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			

1201	5079517	490592	YY484181	5434773	82F03	271L	9	5.5	412	24BFP		ORBR	30S2	15	10S	4	48	8	620	0.2	5	660
1202	5079517	490593	YY484182	5434725	82F03	341L	9P	5.9	412	20BFP	322	ORBR	60H2	15	21S	4	48	26	473	0.6	0	650
1203	5079517	490594	YY484181	5434675	82F03	341L	9P	6.0	412	24BMP	322	DBR	45A2	15	22S	6	62	12	876	0.3	0	780
1204	5079517	490595	YY484182	5434625	82F03	341L	9P	5.9	412	20BFP	322	ORBR	55A2	16	32S	10	88	14	940	0.6	5	900
1205	5079517	490596	YY484185	5434575	82F03	341L	9P	6.0	412	20BFP	322	ORBR	20A2	15	32S	14	100	26	1140	2.6	0	740
1206	5079517	490597	YY484185	5434526	82F03	381L	9	6.2	412	24BFP		ORBR	30H2	15	22S	2	32	10	1250	0.6	0	610
1207	5079517	490598	YY484190	5434472	82F03	341L	9	5.9	412	24BFP		ORBR	20S2	15	23S	4	72	8	1040	0.6	0	820
1208	5079517	490599	YY484190	5434425	82F03	341L	9P	6.0	412	24BFP	322	ORBR	45A2	15	26S	6	96	24	2740	0.6	0	840
1209	5079517	490601	YY484190	5434325	82F03	291L	9	6.3	412	24BFP		ORBR	15A2	16	18S	4	52	16	1870	0.4	0	740
1210	5079517	490602	YY484195	5434275	82F03	291L	9	5.9	412	24BFP		ORBR	10S2	15	14S	4	64	20	960	0.8	0	790
1211	5079517	*490603	YY484195	5434225	82F03	491L	9	5.9	412	24BFP		ORBR	25B2	15	8S	2	68	16	730	0.4	0	750
1212	5079517	*490604	YY484195	5434225	82F03	491L	9	6.1	412	20BFP		ORBR	25B2	14	8S	2	48	8	344	0.4	0	710
1213	5079517	490605	YY486685	5439856	82F03	141L	9		412	24BFP		ORBR	20S2	15	16W	4	44	22	700	0.2	195	670
1214	5079517	490606	YY486645	5439850	82F03	141L	9		412	24BFP		ORBR	25A2	14	18W	4	44	28	600	0.2	15	660
1215	5079517	490607	YY486605	5439850	82F03	241L	9		412	24BFP		ORBR	10A2	14	18W	1	56	234	1740	0.2	0	1900
1216	5079517	490608	YY486565	5439851	82F03	241L	9	5.9	412	24BFP		ORBR	20B2	17	16W	8	96	98	1620	2.6	20	1200
1217	5079517	490609	YY486525	5439852	82F03	241L	9	5.1	412	24BFP		ORBR	20B2	10	15W	8	72	54	1140	0.2	15	970
1218	5079517	490610	YY486489	5439853	82F03	281L	9P	6.7	412	24BFP	322	ORBR	15A2	15	14W	1	52	282	1260	0.2	0	2100
1219	5079517	490611	YY486440	5439850	82F03	281L	9	5.2	412	24BFP		ORBR	10B2	14	12W	2	80	52	940	0.4	15	970
1220	5079517	490612	YY486400	5439850	82F03	281L	9	5.7	412	24BFP		ORBR	25B2	17	8W	4	52	30	1080	0.2	2	920
1221	5079517	490613	YY486352	5439852	82F03	281L	9	5.2	412	24BFP		ORBR	20B2	15	8W	4	50	24	300	2.6	0	660
1222	5079517	490614	YY486302	5439852	82F03	281L	9P	5.3	412	20BFP	322	ORBR	25A2	16	18W	14	90	22	420	2.8	0	830
1223	5079517	490615	YY486257	5439852	82F03	381L	9	4.9	412	24BFP		ORBR	10S2	16	22N	6	84	26	320	1.0	0	760
1224	5079517	490616	YY486260	5439800	82F03	781L	9	5.3	412	24BFP		ORBR	30S2	12	4S	4	88	28	700	2.4	0	960
1225	5079517	490617	YY486270	5439750	82F03	781L	9	5.1	412	24BFP		ORBR	30B2	15	5S	2	80	34	680	0.4	5	860
1226	5079517	490618	YY486274	5439701	82F03	781L	9	5.4	412	24BFP		ORBR	10S2	15	4S	2	68	54	620	1.8	2	1350
1227	5079517	490619	YY486280	5439651	82F03	281L	9P	5.1	412	24BFP	322	ORBR	20S2	16	10S	2	52	40	720	1.8	0	1000
1228	5079517	490620	YY486285	5439605	82F03	281L	9P	5.3	412	24BFP	322	ORBR	15S2	18	19S	2	72	34	920	1.2	2	1100
1229	5079517	490621	YY486290	5439553	82F03	381L	9	5.5	412	24BFP		ORBR	10B2	17	21S	1	72	46	900	0.4	5	1050
1230	5079517	490622	YY486295	5439506	82F03	381L	9	5.0	412	24BFP		ORBR	10S2	16	22W	4	116	24	1140	1.8	0	1400
1231	5079517	490623	YY486300	5439457	82F03	281L	9	5.2	412	24BMB		MBROR	10S2	19	15N	6	80	24	920	2.0	15	1500
1232	5079517	490624	YY486310	5439406	82F03	281L	9	6.3	412	24BFP		ORBR	15A2	17	14S	2	164	30	1040	2.0	25	950
1233	5079517	490625	YY486312	5439352	82F03	381L	9	6.3	412	24BFP		ORBR	20S2	13	22W	2	60	34	560	1.0	20	930
1234	5079517	490626	YY486320	5439306	82F03	381L	9	5.4	412	24BFP		ORBR	30A2	19	22S	2	100	26	1080	0.8	15	1400
1235	5079517	490627	YY486325	5439257	82F03	381L	9	5.5	412	20BFP		ORBR	40B2	16	22S	2	84	36	780	1.2	10	1300
1236	5079517	490628	YY486335	5439207	82F03	391L	9	5.2	412	24BFP		ORBR	35A2	20	24S	2	120	28	800	0.6	5	1500
1237	5079517	490629	YY486340	5439158	82F03	291L	6	5.3	412	24BFP		ORBR	15B2	16	18W	1	56	142	1200	4.4	20	960
1238	5079517	490630	YY486345	5439108	82F03	291L	9	5.3	412	24BFP		ORBR	30S2	17	18S	2	36	82	660	1.0	10	660
1239	5079517	490631	YY486351	5439060	82F03	391L	9	5.5	412	24BFP		ORBR	30S2	16	22S	4	44	92	680	0.4	25	730
1240	5079517	490632	YY486358	5439010	82F03	391L	9	5.7	412	24BFP		ORBR	40B2	15	23S	2	52	106	600	0.4	15	840
1241	5079517	490633	YY486365	5438961	82F03	391L	9P	5.7	412	24BFP	481	ORBR	20A2	20	28S	2	40	212	360	0.2	15	900
1242	5079517	490634	YY486370	5438910	82F03	391L	9P	5.6	412	24BFP	481	ORBR	20A2	20	26S	1	28	92	640	0.2	0	690
1243	5079517	490635	YY486377	5438862	82F03	391L	9P	5.6	412	24BFP	481	ORBR	30S2	22	26S	2	36	94	520	0.2	10	700
1244	5079517	490636	YY486382	5438815	82F03	391L	9P	5.5	412	20BFP	481	ORBR	15S2	25	24S	2	28	52	600	0.2	15	710
1245	5079517	490637	YY486388	5438766	82F03	391L	9P	6.0	412	24BMB	481	ORBRGR	15B2	24	24S	6	56	52	840	0.2	10	720
1246	5079517	490638	YY486394	5438715	82F03	391L	9P	5.7	412	24BFP	481	ORBR	40B2	23	23S	2	20	28	540	0.2	0	580
1247	5079517	490639	YY486400	5438670	82F03	391L	9P	5.0	412	24BFP	481	ORBR	15S2	27	28W	4	40	42	280	0.2	15	780
1248	5079517	490640	YY486406	5438617	82F03	391L	9P	5.5	412	20BFP	481	ORBR	8B2	20	22S	2	56	72	540	0.2	20	760
1249	5079517	490642	YY486420	5438511	82F03	391L	9P	6.0	412	24BFP	481	ORBR	35S2	20	22S	2	44	58	420	0.2	0	680
1250	5079517	490643	YY486423	5438468	82F03	391L	9P	6.0	412	24BFP	481	ORBR	15S2	18	22S	2	56	46	520	0.2	10	760
1251	5079517	490644	YY486429	5438419	82F03	391L	9	5.5	412	24BFP		ORBR	10B2	17	24S	2	52	62	860	0.2	15	670
1252	5079517	*490645	YY486437	5438368	82F03	391L	9	5.6	412	24BFP		ORBR	10S2	16	22SE	2	48	52	640	0.2	5	720
1253	5079517	*490646	YY486437	5438368	82F03	391L	9	5.3	412	24BFP		ORBR	15B2	17	22SE	2	40	48	780	0.2	10	700
1254	6079517	460162	YY486145	5433605	82F03	321L	8P	5.8	420	30BMB		MBR	20A		32SW	2	16	68	146	0.2	0	500
1255	6079517	460211	YY484442	5436079	82F03	391L	8P	5.9	420	30BMB		MBR	40A		39 W	36	440	70	1240	7.8	5	900
1256	6079517	460212	YY484441	5436120	82F03	391L	8P	6.0	420	30BMB		MBR	20A		39 W	10	216	26	1480	5.0	30	820
1257	6079517	460377	YY483395	5434436	82F03	3E1L	8P	6.1	420	30BMB		MBR	50A2	22	30 W	14	66	52	1660	1.0	0	660
1258	6079517	460378	YY483395	5434386	82F03	3E1L	8P	6.2	420	33BMB		MBR	30A2	17	25SW	14	56	40	1400	1.4	0	750
1259	6079517	460379	YY483395	5434335	82F03	3E1L	8P	6.3	420	30BMB		MBR	20A2	15	31SW	14	54	26	1300	1.4	0	630
1260	6079517	460417	YY483705	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	420	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

1261	6079517	460448	YY	483990	5435980	82F03	391L	8P	6.3	425	35BMB	DBR	10A2	15	42 W	2	140	22	286	1.8	0	1500
1262	6079517	460450	YY	483990	5435880	82F03	391L	8P	6.0	425	35BFP	PB	18A2	20	34NW	8	38	22	1260	1.6	10	500
1263	6079517	460451	YY	483990	5435830	82F03	391L	8P	5.9	435	45BMB	LBR	50A2	20	40NW	18	80	20	1560	3.4	5	520
1264	6079517	490433	YY	484212	5433925	82F03	381U	8P	5.5	312	24BFP322	ORBR	D80S2	10	32W	580	1640	37000	9000	10.8	800	970
1265	6279517	460209	YY	484449	5435985	82F03	391L	8P	5.7	430	40BMB	LBR	12A		42NW	4	46	18	1340	1.6	0	380
1266	6279517	490133	YY	484735	5436358	82F03	391L	9P	6.0	412	24BHO322	PLGR	70A		22N	8	112	16	2070	0.9	10	900
1267	6279517	490134	YY	484735	5436400	82F03	371L	9P	5.8	412	24BMB322	MBR	70A		21N	4	56	62	2660	0.7	10	640
1268	6279517	490295	YY	484740	5435526	82F03	371L	9P	6.2	412	24BMB322	DBR	70H2	12	21S	2	24	54	908	0.2	10	620
1269	6279517	490600	YY	484190	5434375	82F03	381L	9P	6.4	412	220BFP322	ORBR	70H2	18	22S	8	92	46	2820	2.2	0	810

END OF FILE
T=0.445 DR=1 $1.53, $3.78T

APPENDIX 5

Trace Element Data for
Rock Chip Samples.

TRACE ELEMENT DATA FOR ROCK CHIP SAMPLES
(LISTED BY SAMPLE TYPE and SAMPLER NUMBER)

SAMPLE TYPE / YEAR / PROJECT NO.	SAMPLE NUMBER	SAMPLE COORD. EAST	SAMPLE COORD. NORTH	N.T.S.			Mo	Cu	Pb	Zn	Ag	Sn	W	F	Au (ppb)
							TRACE ELEMENT ANALYSIS (PPM)								
8179517	470001 YY	484975	5435585 7	82F03	34 448 LGY32 B3	MBK 440	1	24	10	88	0.2		0	710	
8179517	470004 YY	484910	5435415	82F03	34 238 DGY43	DBK 411	22	26	4	132	0.2		0	860	
8179517	470005 YY	484910	5435415	82F03	44 448 LGY 1209065N	MWH 426T	1	20	6	58	0.2		0	1200	
8179517	470006 YY	484845	5435380	82F03	41 236 MBK32 1305070SE	DBK 322H	4	28	8	160	0.2		0	1900	20
8179517	470008 YY	484685	5435435	82F03	34 236 MRB63 8217075NE	322C	14	60	4	70	0.2		0	1800	10
8179517	470009 YY	484865	5435580	82F03	23 236 MBK52 3323256SE	DBK 424C	8	8	2	34	0.2		0	410	30
8179517	470010 YY	484770	5435550	82F03	31 236 DGY52 8202000 1302850SE	MBK 424C	34	36	4	128	0.2		5	660	
8179517	470011 YY	484760	5435600	82F03	34 448 LGY32 8202000	MGY 422W	4	276	4	1320	0.2		120	6600	
8179517	470012 YY	484760	543560C	82F03	31 234 DOB43 8304268SE	MWH 424C	24	36	2	62	0.4		8	1400	10
8179517	470014 YY	484685	5435580	82F03	31 234 MRB42 8305245SE	424	28	30	2	88	0.2		45	1600	
8179517	470015 YY	484685	5435590	82F03	31 234 MOB52 8302850E	MBK 424	6	64	2	376	0.2		10	4400	10
8179517	470016 YY	484755	5435620	82F03	41 236 DGY43 8303030SE	MBK 424	24	12	2	44	0.2		50	480	
8179517	470017 YY	484950	5435580	82F03	44 236 DGY54	DBK 424	16	24	4	80	0.2		15	1400	20
8179517	470018 YY	484560	5435455	82F03	36 446 DGY53 8303020W	DBK 424	14	24	4	160	0.2		10	1100	
8179517	470019 YY	484490	5435395	82F03	33 236 DGY54 3 02550SE	MDK 424	18	28	2	148	0.2		15	1000	
8179517	470020 YY	484450	5435345	82F03	43 444 DOB32 8203015SW1202030N	MGY 416W	6	168	2	1618	0.2		900	13000	
8179517	470021 YY	483905	5435255	82F03	31 236 MBK33 8305576NW1307119SE	MBK 321C	24	76	10	348	0.6		5	1050	10
8179517	470022 YY	484480	5435225	82F03	34 246 MBK5	MBK 450M	12	10	2	22	0.4		0	265	
8179517	470023 YY	484370	543507C	82F03	32 236 MBK52	MBK 424M	14	192	2	1250	0.2		160	4400	
8179517	470024 YY	484055	5435530	82F03	32 236 MBK42	424	32	104	2	388	1.0		10	1180	
8179517	470025 YY	483895	543524C	82F03	34 246 MBK43	LBK 312C	76	400	6	2180	3.0		0	6400	
8179517	470026 YY	483875	5435220	82F03	43 246 MBK53	MBK 424C	24	80	2	524	0.6		0	1170	
8179517	470027 YY	483730	5434925	82F03	34 236	424C	14	36	4	312	0.2		2	590	
8179517	470028 YY	483650	5435020	82F03	32 236 MRB53	MBK 424A	10	84	2	260	1.0		2	1480	

8179517	470029	YY4835155434785	82F03	33	236	MBK		MBK 424	20	52	14	252	0.8		10	1150	
8179517	470030	YY4834355434800	82F03	33	246	DBK42		424	14	32	18	62	5.4		0	420	
8179517	470031	YY4832155434515	82F03	44	236	MBK43		MBK 424	10	352	2	318	0.8		10	2050	
8179517	470037	YY4867005434100	82F03	33	238	LGY53	3310080N 1302555SE	MWH 331C	1	8	6	22	0.2		0	390	
8179517	470038	YY4867005433985	82F03	31	236	LGR52	3 04080SE	LGR 440C	2	6	8	36	0.2		0	820	10
8179517	470040	YY4867005433750	82F03	33	236	MRB53	1303080SE8301020E	MRB 315C	4	4	10	26	0.2		0	700	10
8179517	470041	YY4867305433740	82F03	32	246	LBK43		MGY 426M	4	5	8	40	0.2		0	900	10
8079517	470042	YY4837705434060	82F03	46	438	DBK42		DBK 424C	6	80	34	260	1.0		0	2500	10
8179517	470045	YY4847105436675	82F03	31	336	MWH33		LWH 111E	8	11	6	90	0.2		0	720	
8179517	470048	YY4841355435715	82F03	43	246	DGY52	3304555SE3308035S	DBK 322S	22	80	10	1280	1.2		12	1400	
8179517	470049	YY4841455435765	82F03	43	236	DGY43		MBK 322S	18	44	8	348	1.2		5	1550	
8079517	470050	YY4841455435805	82F03	35	246	DRB	1200515 EB316505S	DBK 322C	4	48	20	640	3.0		0	900	
8179517	470051	YY4841405435865	82F03	33	236	DBK42	3303845SE	DBK 411	16	80	16	840	3.6		5	920	
8179517	470060	YY4848355435665	82F03	42	246	DGY54	3216025SW4313575NE	DBK 424	17	32	2	82	0.4		5	900	
8179517	470061	YY4847955435645	82F03	42	246	LBK53	1301280E 1304020SE	DBK 424G	20	44	2	92	0.2		20	960	
8179517	470062	YY4847805435640	82F03	42	246	LOB63	8101715S 1316530W	MGR 426A	10	64	2	352	0.4		70	2200	20
8179517	470070	YY4844255434505	82F03	36	448	LGY22	1312535SW	MWH 426W	1	6	2	18	0.2		0	1300	
8179517	470072	YY4844405434135	82F03	32	446	DBK52		DBK 322C	14	26	6	104	0.8		15	790	
8179517	470073	YY4844305434360	82F03	33	448	LGY42	1306525SE	LGY 315C	1	6	10	22	0.2		0	470	
8179517	470075	YY4844805433910	82F03	37	446	DBK		DBK 322C	2	35028400		118	62.0		5000	340	120
8179517	470076	YY4844805433910	82F03	37	446	DBK		DBK 322C	6	214	5500	232	10.4		20	4500	
8179517	470078	YY4841805434820	82F03				1306070SW4214070NE	424	9	20	4	40	0.8		0	1650	
8179517	470080	YY4848155434675	82F03	32	236	MRB33	1304535SE3	MBK 424Q	2	16	2	10	0.2		0	610	
8179517	470081	YY4848105434665	82F03	32	238	LGY33	1305040SE	LGY 315C	1	14	2	30	0.2		0	1450	
8179517	470082	YY4848205434675	82F03	37	446	MRB32		MOB 160Q	2	50	2	32	0.4		0	480	20
8179517	470083	YY4848305434650	82F03	31	236	LRW33	1304565SE4303555NW	LRB 315	1	8	2	20	0.2		0	800	
8179517	470084	YY4848605434510	82F03	44	448	MGY42		MGY 426T	1	4	4	26	0.2		0	490	
8179517	470087	YY4848555434175	82F03	33	246	MSI43	3305050SE	MSI 460A	1	12	8	70	0.2		0	740	
8179517	470089	YY4847455434185	82F03	36	441	MYB52	3205585NW	DGY 331C	1	116	4	284	0.4		0	430	20
8179517	470090	YY4846505434745	82F03	33	246	DBK43	1306075NW	DBK 315C	10	12	10	48	0.2		0	640	
8179517	470091	YY4847405434735	82F03	31	448	LGY22	1305570NW1305585SE	LGY 315C	1	8	6	38	0.4		0	1820	
8179517	470092	YY4846155434485	82F03	31	236	MRB33	1304445SE4316290	MBK 315C	1	28	4	16	0.6		0	940	
8179517	470093	YY4846155434475	82F03	31	23	MWH33	1304545SE	MGY 315C	1	12	6	22	0.2		25	640	
8179517	470094	YY4846205434415	82F03	33	236	MRB33	1303055SE	MGY 315C	1	14	4	12	0.2		0	650	
8179517	470096	YY4856305436625	82F03	35	446	DBR42	1111035S	MBR 426G	40	132	12	80	0.2		900	950	100
8179517	470098	YY4856205436660	82F03	45	236	DGY33		MGR 426G	320	12	2	70	0.2		325	2700	40
8179517	470100	YY4855805436710	82F03	35	446	DBR33		MBR 426G	520	100	2	140	0.2		1000	5200	40
8179517	470101	YY4854055436800	82F03	33	236	LWH33		LWH 161Q	18	8	6	20	0.2	0	15	205	20
8179517	480001	YY4857375436517	82F03	1	226	DGY3		MPI 111Q	1	14	6	24	0.2		2	330	
8179517	480002	YY4854645436269	82F03	3	226	MRB3	12 7468 N42 9171 N	DBK 424G	22	36	4	154	0.2		2	680	
8179517	480003	YY4854575436271	82F03	4	226	MBR22		LGY 421	1	48	2	32	0.2		0	1000	
8179517	480005	YY4848875435629	82F03	X2	226	MGY3	13 7780S	DGY 424B	2	62	2	14	0.2		0	1080	
8179517	480006	YY4848875435628	82F03	X3	226	LOR2	13 5866SE	LGY 421	1	32	2	64	0.2		0	1480	
8179517	480007	YY4849015435871	82F03	11	226	MGY3	12 6124SE4313781SW	MBK 424G	12	20	4	78	0.2		10	790	
8179517	480008	YY4849075435865	82F03	11	436	DGY3	14 4347SE	DBK 422A	1	20	4	250	0.2		70	1520	
8179517	480009	YY4848565435915	82F03	23	226	MRB4	84 6460SE4117850 W	MGY 411B	12	12	2	344	0.2		70	2700	20
8179517	480011	YY4848575435909	82F03	23	226	MOB4	12 22	WH 421	8	4	2	38	0.2		0	200	10
8179517	480013	YY4848935436347	82F03	31	226	MGY3	4211572 N4214657NE	DGY 424B	24	38	2	610	0.4		0	660	
8179517	480014	YY4849275434636	82F03	43	226	MRB11	33 1670 E	DPU 424Q	2	12	8	90	0.2		0	490	
8179517	480015	YY4849255434622	82F03	43	226	MRB11	33 588 W33 2572 E	DPU 424Q	2	12	10	102	0.2		2	450	
8179517	480017	YY4850325435703	82F03	1	236	MGY 2	33 3257SEB2 1110 S	424G	1	14	6	46	0.2		0	670	
8179517	480018	YY4851815435712	82F03	1	236	MRB5	72 47	WH 421	4	34	4	26	0.2		0	470	10
8179517	480019	YY4851795435752	82F03	5	226	DRB3	13 4449SE4212882NE	MGY 421Q	1	388	2	42	0.8		2	1340	20
8179517	480020	YY4852115435754	82F03	6	436	MBR11	14 6241SEB4 3026SW	MGY 331C	1	10	10	66	0.2		0	510	
8179517	480021	YY4852825435922	82F03	4	53	LGY4	C3 2963 E4212282NE	DGY 424B	1	26	10	92	0.2		2	680	
8179517	480022	YY4852835436037	82F03	2	226	MRB54	4211577 N11 3436SE	DGY 424	6	116	4	54	0.4		5	1080	
8179517	480023	YY4843795436092	82F03	4	226	MOB3	22 6150SE	LGY 421	1	28	2	36	0.4		5	560	10
8179517	480024	YY4853805436098	82F03	4	226	LBR3	22 6150SE	MGY 424Q	2	32	6	64	0.4		0	1890	
8179517	480025	YY4853825436112	82F03	4	226	DGY3	12 3256SE	DGY 424C	22	62	2	148	0.2		5	900	
8179517	480026	YY4853865436154	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	

8179517	480091	YY4840095433911	82F03		2	13 6157SE	BK 424	12	24	8	124	0.4		20	880	
8179517	480092	YY4840105433911	82F03		22	13 4264SE	BK 424	18	12	12	16	0.2		0	230	
8179517	480093	YY4857395436558	82F03		LOB3		WH 1628	8	8	8	16	0.2	0	15	220	10
8179517	480094	YY4857395436558	82F03			160	1638	1	60	6	80	0.4		2	900	
8179517	480095	YY4836775435482	82F03	226	DGY2	13 4749SE	BK 424	10	46	16	148	1.6		0	1400	
8179517	480096	YY4836985434792	82F03		DGY22	12 1029 EB215429S	BK 424	20	36	6	230	0.4		20	590	
8179517	480097	YY4837115434281	82F03		DRB4	12 2176SE3316171NE	BK 424	8	36	12	124	0.4		20	630	
8179517	480098	YY4837095433633	82F03		DGY2	12 5370SE	BK 424	16	16	10	156	1.0		5	630	
8179517	480099	YY4843365433966	82F03				1680	4	1200	3640	23500	23.0	550	1400	370	80
8179517	480100	YY4833935435794	82F03	226	MGY2	12 4042SE	BK 424	4	160	118	220	1.0		0	1950	
8179517	480101	YY4836945435963	82F03	226	MGY	12 5442SE	BK 424	2	66	22	80	0.6		0	4300	
8179517	480102	YY4843055435394	82F03	226	DGY2	12 3985SE4215480NE	BK 424	18	44	14	368	0.6		0	920	
8179517	480103	YY4843185434844	82F03	226	MGY2	1216468NE	MGY 421B	8	24	6	1380	0.4	0	10	4100	20
8179517	480104	YY4843135434569	82F03	226	DGY2	1217683NE	MGY 421B	1	20	6	170	0.2		0	790	
8179517	480105	YY4843395433957	82F03	226	MGY	13 9530S	DGY 424	1	16	4	54	0.6		0	660	
8179517	480106	YY4841385435116	82F03		DRB2		WH 421	4	8	10	42	0.4	0	10	295	20
8179517	480107	YY4841775434607	82F03	226	DGY22	12 559 E	BK 424	12	30	2	156	0.8		15	1000	
8179517	480108	YY4844525435347	82F03	226	DRB22	13 5840SE	BK 424	12	24	8	80	0.2		0	1000	
8179517	480109	YY4839875435693	82F03	226	DBR22	12 1952SE	BK 424	16	110	12	520	2.2		0	2100	20
8179517	480110	YY4839875435894	82F03	226	BK3	12 2554SE	BK 424	20	48	20	60	0.4		0	1880	
8179517	480111	YY4839915435953	82F03	226	MGY22	13 5157SE	BK 331	4	40	22	200	0.2		0	400	
8179517	480112	YY4866725439913	82F03	226	MOR33	9310085S	LGY 162	4	12	4	60	0.2		0	190	
8179517	480113	YY4866695439905	82F03	226	MBR3	14 2428SE	BK 424	18	32	6	200	0.2		0	620	
8179517	480114	YY4864715439874	82F03	6	MGY2	13 9015N	MGY 422	1	8	34	60	0.2		0	540	
8179517	480115	YY4860365439056	82F03	226	LBR3	12 2040SE	MGY 421A	4	40	6	300	0.2		0	780	
8179517	480135	YY4866925439005	82F03	226	LPI2	41 6880SE	LPI 111	1	4	8	20	0.2		5	240	
8179517	480136	YY4866805439515	82F03	226	LOR3	92 9285S	WH 111	2	4	6	60	0.2		0	150	
8179517	480137	YY4866805439515	82F03	226	DGY3	1117815 W	BK 424	20	40	8	120	0.2		0	480	
8179517	480138	YY4864075439125	82F03	226	LOR2	11 636 W	LGY 421	8	32	12	780	0.2		0	650	
8179517	480139	YY4862545438896	82F03		DBR		DBR 416G	10	8	2	160	0.2		0	1300	
8179517	480140	YY4861895438754	82F03		MGY		WH 112	10	16	2380	20	114.0	0	10	10506	

FILE
DR=0 $.38, $3.46T

APPENDIX 6

Lognormal Distribution of Trace Element
Content of Soil and Talus Samples.

LOGARITHMIC VALUES

ZERO OMITTED FOR MO
ZERO OMITTED FOR CU
ZERO OMITTED FOR PB
ZERO OMITTED FOR ZN
ZERO OMITTED FOR AG
ZERO OMITTED FOR W
ZERO OMITTED FOR F

M.U.T. CLAIMS
SALMO, B.C.
TRACE ELEMENT CONTENT OF SOILS AND TALUS FINES

NO. OF ELEMENTS SAMPLED IS 7
INPUT FORMAT USED IS (T10,I6,T81,4F5.0,20X,F5.1,5X,2F5.0,F4.0)

ELEMENTS	MO	CU	PB	ZN	AG	W	F
ZERO =	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NO.SAMPS	1175	1175	1175	1175	1175	625	1175
MEAN VAL	2.205	35.158	19.748	483.709	0.366	7.694	635.703
STD.DEV.	0.307	0.231	0.224	0.398	0.278	0.367	0.094
ANOM POS	9.084	102.076	55.516	3027.073	1.316	41.713	978.493
ANOM NEG	0.535	12.109	7.025	77.294	0.102	1.419	413.000
SDP1	4.476	59.906	33.111	1210.049	0.694	17.916	788.690
SDM1	1.087	20.633	11.778	193.359	0.193	3.304	512.391

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/F) 0.307/ 4.0 NO.SAMPLES 1175
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF SOILS AND TALUS FINES

MO

INTERVAL PPM		%	C%
0.26 – 0.31		0.0	0.0
0.31 – 0.38		0.0	0.0
0.38 – 0.45		0.0	0.0
0.45 – 0.54		0.0	0.0
0.54 – 0.64		0.0	0.0
0.64 – 0.76		0.0	0.0
0.76 – 0.91		0.0	0.0
0.91 – 1.09	********************************	32.9	32.9
1.09 – 1.30		0.0	32.9
1.30 – 1.55		0.0	32.9
1.55 – 1.85		0.0	32.9
1.85 – 2.21	*****************************	29.4	62.4
2.21 – 2.63		0.0	62.4
2.63 – 3.14	*	1.6	64.0
3.14 – 3.75		0.0	64.0
3.75 – 4.48	*****************	17.3	81.3
4.48 – 5.34		0.8	82.0
5.34 – 6.38	********	8.1	90.1
6.38 – 7.61		0.4	90.6
7.61 – 9.08	****	4.4	95.0
9.08 – 10.84	**	2.1	97.1
10.84 – 12.94		0.9	98.0
12.94 – 15.45		0.9	98.8
15.45 – 18.44		0.4	99.2

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/F) 0.231/ 4.0 NO. SAMPLES 1175
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF SOILS AND TALUS FINES

CU

INTERVAL PPM		%	C%
7.11 – 8.12		0.1	0.2
8.12 – 9.28		0.0	0.2
9.28 – 10.60		0.2	0.3
10.60 – 12.11	*	1.4	1.8
12.11 – 13.83		0.0	1.8
13.83 – 15.81	*	1.1	2.9
15.81 – 18.06	********	8.0	10.9
18.06 – 20.63	********	8.3	19.1
20.63 – 23.57	***	3.8	23.0
23.57 – 26.93	**********	10.1	33.1
26.93 – 30.77	********	8.5	41.6
30.77 – 35.16	********	8.3	50.0
35.16 – 40.17	************	11.9	61.9
40.17 – 45.89	*****	5.5	67.4
45.89 – 52.43	*******	7.2	74.6
52.43 – 59.90	***	3.7	78.3
59.90 – 68.44	*****	5.9	84.2
68.44 – 78.20	***	3.6	87.7
78.20 – 89.34	***	3.9	91.7
89.34 – 102.07	***	3.1	94.8
102.07 – 116.62	*	1.3	96.1
116.62 – 133.24		0.9	96.9
133.24 – 152.23	*	1.1	98.0
152.23 – 173.92		0.3	98.3

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/E) 0.224/ 4.0 NO.SAMPLES1175
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF SOILS AND TALUS FINES

PB

INTERVAL PPM		%	C%
4.19 – 4.77		0.0	0.6
4.77 – 5.42		0.0	0.6
5.42 – 6.17		0.9	1.4
6.17 – 7.02		0.0	1.4
7.02 – 7.99		0.0	1.4
7.99 – 9.10	***	3.1	4.5
9.10 – 10.35	********	8.5	13.0
10.35 – 11.78		0.0	13.0
11.78 – 13.40	*********	9.4	22.5
13.40 – 15.25	*********	9.5	32.0
15.25 – 17.35	**********	10.6	42.6
17.35 – 19.75	*****	5.9	48.5
19.75 – 22.47	************	12.6	61.1
22.47 – 25.57	****	4.3	65.4
25.57 – 29.10	********	8.1	73.4
29.10 – 33.11	*******	7.5	80.9
33.11 – 37.68	*****	5.1	86.0
37.68 – 42.87	**	2.8	88.9
42.87 – 48.79	***	3.1	91.9
48.79 – 55.52	*	2.0	93.9
55.52 – 63.17	*	1.3	95.1
63.17 – 71.88	*	1.2	96.3
71.88 – 81.80	*	1.3	97.6
81.80 – 93.08		0.8	98.4

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/E) 0.[illegible]/ 4.0 NO.SAMPLES 1175
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF SOILS AND TALUS FINES

ZN

INTERVAL PPM		%	C%
30.90 – 38.86		0.0	0.1
38.86 – 48.87		0.0	0.1
48.87 – 61.46		0.1	0.2
61.46 – 77.29		0.4	0.6
77.29 – 97.21	*	2.0	2.6
97.21 – 122.25	******	6.6	9.2
122.25 – 153.75	*******	7.7	16.9
153.75 – 193.36	*****	6.0	22.9
193.36 – 243.17	*****	5.3	28.2
243.17 – 305.82	****	4.6	32.8
305.82 – 384.61	*****	5.4	38.2
384.61 – 483.70	*****	5.5	43.7
483.70 – 608.31	********	8.0	51.7
608.31 – 765.04	*********	9.7	61.4
765.04 – 962.13	************	12.3	73.7
962.13 – 1210.01	*********	9.6	83.3
1210.01 – 1521.75	*****	5.7	89.0
1521.75 – 1913.80	*****	5.5	94.6
1913.80 – 2406.86	**	2.8	97.4
2406.86 – 3026.95	*	1.4	98.7
3026.95 – 3806.80		0.8	99.5
3806.80 – 4787.55		0.3	99.8
4787.55 – 6020.99		0.1	99.9
6020.99 – 7572.20		0.0	99.9

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/F) 0.278/ 4.0 NO.SAMPLES1175
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF SOILS AND TALUS FINES

AG

INTERVAL PPM		%	C%
0.05 – 0.06		0.0	0.0
0.06 – 0.07		0.0	0.0
0.07 – 0.09		0.0	0.0
0.09 – 0.10		0.1	0.1
0.10 – 0.12		0.0	0.1
0.12 – 0.14		0.0	0.1
0.14 – 0.16		0.0	0.1
0.16 – 0.19		0.0	0.1
0.19 – 0.23	***	42.6	42.6
0.23 – 0.27		0.0	42.6
0.27 – 0.31	**	2.2	44.9
0.31 – 0.37		0.0	44.9
0.37 – 0.43	******************	18.4	63.2
0.43 – 0.50	*	1.6	64.9
0.50 – 0.59		0.0	64.9
0.59 – 0.69	************	11.7	76.5
0.69 – 0.81	*******	7.9	84.4
0.81 – 0.96		0.7	85.1
0.96 – 1.12	****	4.3	89.4
1.12 – 1.32	**	2.0	91.5
1.32 – 1.54	*	1.3	92.8
1.54 – 1.81	*	1.9	94.6
1.81 – 2.13	*	1.2	95.8
2.13 – 2.49		0.8	96.6

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/F) 0.367/ 4.0 NO.SAMPLES 625
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF SOILS AND TALUS FINES

W

INTERVAL PPM		%	C%
0.61			
0.75		0.0	0.0
0.93		0.0	0.0
1.15		0.0	0.0
1.42		0.0	0.0
1.75		0.0	0.0
2.17	********************	20.3	20.3
2.67		0.0	20.3
3.30		0.0	20.3
4.08		0.0	20.3
5.04	*******************	19.0	39.4
6.23		0.0	39.4
7.69		0.0	39.4
9.50	***	3.7	43.0
11.74	*******************	19.8	62.9
14.50	*******	7.0	69.9
17.92	************	12.6	82.6
22.13	*********	9.9	92.5
27.34	**	2.4	94.9
33.77	**	2.1	97.0
41.72	*	1.9	98.9
51.53		0.3	99.2
63.66		0.2	99.4
78.64		0.2	99.5
97.14		0.2	99.7

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/F) 0.094/ 4.0 NO.SAMPLES1175
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF SOILS AND TALUS FINES

F

INTERVAL PPM		%	C%
332.89			
		0.3	0.4
351.33			
		0.4	0.9
370.79			
		0.7	1.5
391.32			
	*	1.2	2.7
413.00			
	**	2.2	4.9
435.87			
	****	4.4	9.4
460.02			
	***	3.8	13.2
485.50			
	*****	5.3	18.5
512.39			
	*******	7.1	25.5
540.77			
	*******	7.1	32.6
570.72			
	********	8.3	40.9
602.33			
	********	8.6	49.4
635.70			
	**********	10.9	60.3
670.91			
	*****	6.0	66.3
708.07			
	*******	7.7	74.0
747.29			
	*****	5.4	79.4
788.68			
	******	6.4	85.8
832.36			
	*	2.0	87.7
878.47			
	**	2.9	90.6
927.13			
	**	2.7	93.4
978.48			
	*	1.7	95.1
1032.68			
	*	1.4	96.4
1089.88			
	*	1.0	97.4
1150.24			
		0.6	98.0
1213.95	0 10 20 30 40 50 60 70 80 90 100		

% OF SAMPLES IN CLASS INTERVAL

EXECUTION TERMINATED 21:10:24 T=3.972 RC=0 $4.73

APPENDIX 7

Lognormal Distribution of Trace Element
Content of Stream Sediments.

LOGARITHMIC VALUES

ZERO OMITTED FOR MO
ZERO OMITTED FOR CU
ZERO OMITTED FOR PB
ZERO OMITTED FOR ZN
ZERO OMITTED FOR AG
ZERO OMITTED FOR W
ZERO OMITTED FOR F

M.U.T. CLAIMS
SALMO, B.C.
TRACE ELEMENT CONTENT OF STREAM SEDIMENTS

NO. OF ELEMENTS SAMPLED IS 7
INPUT FORMAT USED IS (T10,I6,T81,4F5.0,20X,F5.1,5X,2F5.0,F4.0)

ELEMENTS	MO	CU	PB	ZN	AG	W	F
ZERO =	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NO.SAMPS	36	36	36	36	36	14	36
MEAN VAL	1.534	39.374	32.169	470.912	0.417	18.043	665.199
STD.DEV.	0.196	0.292	0.252	0.523	0.344	0.230	0.071
ANOM POS	3.789	151.126	102.793	5240.398	2.039	52.121	921.497
ANOM NEG	0.621	10.258	10.067	42.317	0.085	6.246	480.185
SDP1	2.411	77.139	57.504	1570.911	0.922	30.666	782.930
SDM1	0.976	20.097	17.996	141.165	0.189	10.616	565.170

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/F) 0.196/ 4.0 NO.SAMPLES 36
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF STREAM SEDIMENTS

MO

INTERVAL PPM		%	CS
0.40 – 0.44		0.0	0.0
0.44 – 0.50		0.0	0.0
0.50 – 0.56		0.0	0.0
0.56 – 0.62		0.0	0.0
0.62 – 0.70		0.0	0.0
0.70 – 0.78		0.0	0.0
0.78 – 0.87		0.0	0.0
0.87 – 0.98		0.0	0.0
0.98 – 1.09	**	44.4	44.4
1.09 – 1.22		0.0	44.4
1.22 – 1.37		0.0	44.4
1.37 – 1.53		0.0	44.4
1.53 – 1.72		0.0	44.4
1.72 – 1.92		0.0	44.4
1.92 – 2.15	**	41.7	86.1
2.15 – 2.41		0.0	86.1
2.41 – 2.70		0.0	86.1
2.70 – 3.02		0.0	86.1
3.02 – 3.38		0.0	86.1
3.38 – 3.79		0.0	86.1
3.79 – 4.24	********	8.3	94.4
4.24 – 4.75		0.0	94.4
4.75 – 5.32		0.0	94.4
5.32 – 5.95		0.0	94.4

0 10 20 30 40 50 60 70 80 90 100

% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/F) 0.292/ 4.0 NO.SAMPLES 36
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF STREAM SEDIMENTS

CU

INTERVAL PPM		%	C%
5.24			
		0.0	0.0
6.19			
		0.0	0.0
7.33			
		0.0	0.0
8.67			
		0.0	0.0
10.26			
		0.0	0.0
12.14			
		0.0	0.0
14.36			
	*****	5.6	5.6
16.99			
	*************	13.9	19.4
20.10			
	**	2.8	22.2
23.78			
	***********	11.1	33.3
28.13			
	********	8.3	41.7
33.28			
	*****	5.6	47.2
39.37			
	*******************	19.4	66.7
46.58			
	********	8.3	75.0
55.11			
	**	2.8	77.8
65.20			
	**	2.8	80.6
77.14			
	**	2.8	83.3
91.26			
		0.0	83.3
107.97			
	*****	5.6	88.9
127.74			
		0.0	88.9
151.12			
		0.0	88.9
178.79			
	**	2.8	91.7
211.53			
	**	2.8	94.4
250.25			
		0.0	94.4
296.07			

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/F) 0.252/ 4.0 NO. SAMPLES 36
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF STREAM SEDIMENTS

PB

INTERVAL PPM		%	C%
5.63 – 6.51		0.0	0.0
6.51 – 7.53		0.0	0.0
7.53 – 8.71		0.0	0.0
8.71 – 10.07		0.0	0.0
10.07 – 11.64		0.0	0.0
11.64 – 13.46	*****	5.6	5.6
13.46 – 15.56		0.0	5.6
15.56 – 18.00	*****	5.6	11.1
18.00 – 20.81	*****	5.6	16.7
20.81 – 24.06	***************	16.7	33.3
24.06 – 27.82	***************	16.7	50.0
27.82 – 32.17	**********	11.1	61.1
32.17 – 37.20	*****	5.6	66.7
37.20 – 43.01	*****	5.6	72.2
43.01 – 49.73		0.0	72.2
49.73 – 57.50		0.0	72.2
57.50 – 66.49	**********	11.1	83.3
66.49 – 76.88	*****	5.6	88.9
76.88 – 88.90		0.0	88.9
88.90 – 102.79	**	2.8	91.7
102.79 – 118.86	*****	5.6	97.2
118.86 – 137.43		0.0	97.2
137.43 – 158.91		0.0	97.2
158.91 – 183.75		0.0	97.2

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/F) 0.523/ 4.0 NO.SAMPLES 36
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF STREAM SEDIMENTS

ZN

INTERVAL PPM		%	C%
12.69 – 17.14		0.0	0.0
17.14 – 23.17		0.0	0.0
23.17 – 31.31		0.0	0.0
31.31 – 42.32		0.0	0.0
42.32 – 57.19		0.0	0.0
57.19 – 77.29	*****	5.6	5.6
77.29 – 104.45	***********	11.1	16.7
104.45 – 141.16	***********	11.1	27.8
141.16 – 190.78	*****	5.6	33.3
190.78 – 257.83		0.0	33.3
257.83 – 348.45		0.0	33.3
348.45 – 470.91	*****	5.6	38.9
470.91 – 636.42	*************	13.9	52.8
636.42 – 860.09	*******************	19.4	72.2
860.09 – 1162.38	**	2.8	75.0
1162.38 – 1570.91	*****	5.6	80.6
1570.91 – 2123.02	*****	5.6	86.1
2123.02 – 2869.17	********	8.3	94.4
2869.17 – 3877.57	**	2.8	97.2
3877.57 – 5240.39	**	2.8	100.0
5240.39 – 7082.17		0.0	100.0
7082.17 – 9571.27		0.0	100.0
9571.27 – 12935.18		0.0	100.0
12935.18 – 17481.38		0.0	100.0

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/F) 0.344/ 4.0 NO. SAMPLES 36
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF STREAM SEDIMENTS

AG

INTERVAL PPM		%	C%
0.04 – 0.05		0.0	0.0
0.05 – 0.06		0.0	0.0
0.06 – 0.07		0.0	0.0
0.07 – 0.09		0.0	0.0
0.09 – 0.10		0.0	0.0
0.10 – 0.13		0.0	0.0
0.13 – 0.15		0.0	0.0
0.15 – 0.19		0.0	0.0
0.19 – 0.23	**	41.7	41.7
0.23 – 0.28		0.0	41.7
0.28 – 0.34		0.0	41.7
0.34 – 0.42	*******************	19.4	61.1
0.42 – 0.51		0.0	61.1
0.51 – 0.62	*****************	16.7	77.8
0.62 – 0.76		0.0	77.8
0.76 – 0.92		0.0	77.8
0.92 – 1.12	**	2.8	80.6
1.12 – 1.37	**	2.8	83.3
1.37 – 1.67	********	8.3	91.7
1.67 – 2.04	**	2.8	94.4
2.04 – 2.49	**	2.8	97.2
2.49 – 3.03		0.0	97.2
3.03 – 3.70	**	2.8	100.0
3.70 – 4.51		0.0	100.0

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(STDV/F) 0.230/ 4.0 NO.SAMPLES 14
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF STREAM SEDIMENTS

W

INTERVAL PPM		%	C%
3.68			
		0.0	14.3
4.20			
		0.0	14.3
4.79			
		0.0	14.3
5.47			
		0.0	14.3
6.25			
		0.0	14.3
7.13			
		0.0	14.3
8.14			
		0.0	14.3
9.30			
	*********************	21.4	35.7
10.62			
	*******	7.1	42.9
12.12			
		0.0	42.9
13.84			
	*********************	21.4	64.3
15.80			
		0.0	64.3
18.04			
	*******	7.1	71.4
20.60			
		0.0	71.4
23.52			
		0.0	71.4
26.86			
	*******	7.1	78.6
30.67			
	**************	14.3	92.9
35.01			
		0.0	92.9
39.98			
	*******	7.1	100.0
45.65			
		0.0	100.0
52.12			
		0.0	100.0
59.51			
		0.0	100.0
67.95			
		0.0	100.0
77.58			
		0.0	100.0
89.58			

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

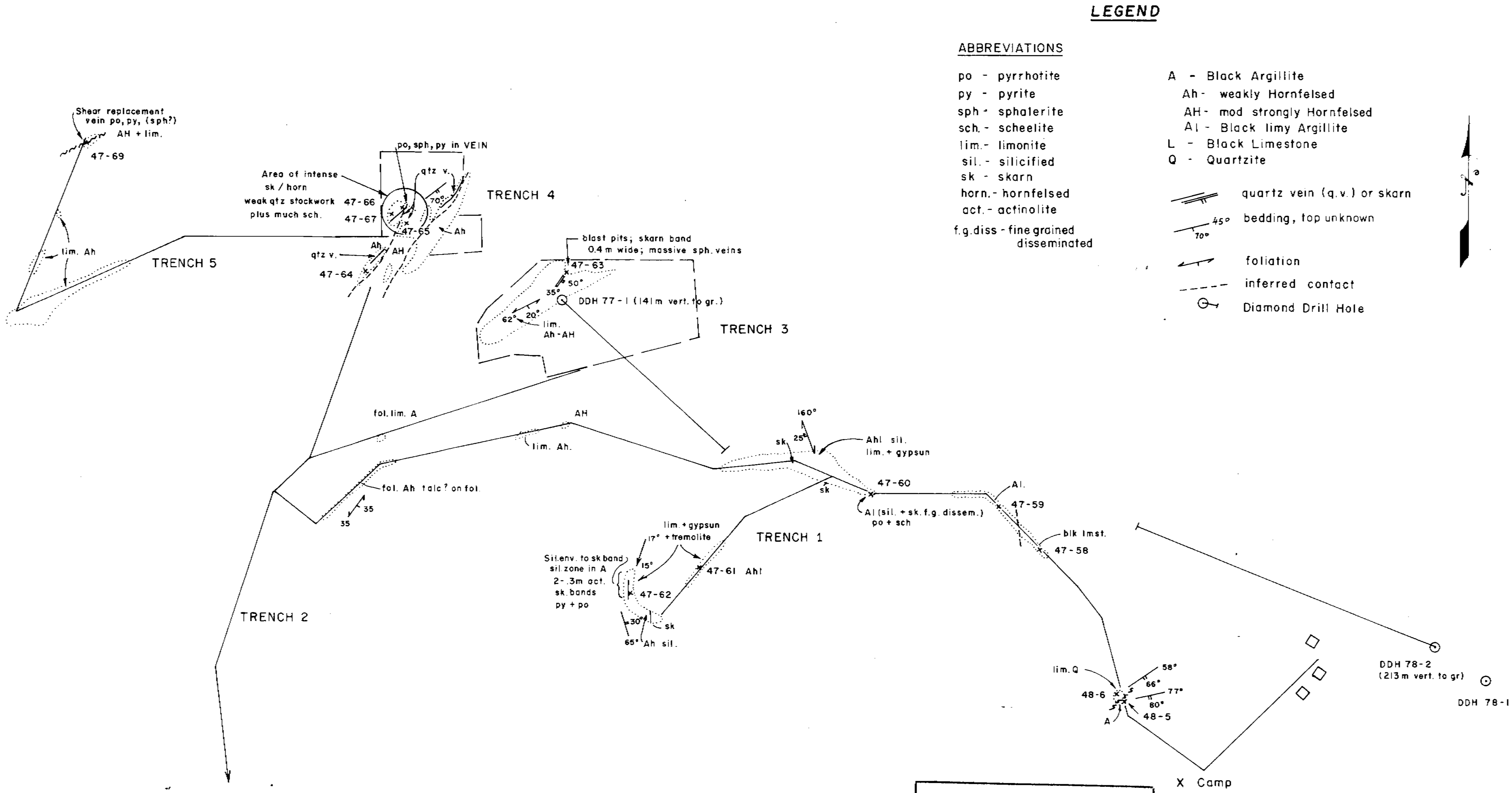
LOGARITHMIC VALUES
ZEROS OMITTED
INTERVAL(ITEM...) 0.071/ 4.0 NO.SAMPLES 36
M.U.T. CLAIMS, SALMO B.C., TRACE ELEMENT CONTENT OF STREAM SEDIMENTS

F

INTERVAL PPM		%	C%
407.98 – 424.94	**	2.8	2.8
424.94 – 442.61		0.0	2.8
442.61 – 461.01		0.0	2.8
461.01 – 480.18	**	2.8	5.6
480.18 – 500.15		0.0	5.6
500.15 – 520.94	**	2.8	8.3
520.94 – 542.61	**	2.8	11.1
542.61 – 565.17	*****	5.6	16.7
565.17 – 588.67	********	8.3	25.0
588.67 – 613.14	********	8.3	33.3
613.14 – 638.64	***********	11.1	44.4
638.64 – 665.19	*************	13.9	58.3
665.19 – 692.85		0.0	58.3
692.85 – 721.66	***********	11.1	69.4
721.66 – 751.66	*****	5.6	75.0
751.66 – 782.92	**	2.8	77.8
782.92 – 815.47	**	2.8	80.6
815.47 – 849.38	***********	11.1	91.7
849.38 – 884.70	**	2.8	94.4
884.70 – 921.48	**	2.8	97.2
921.48 – 959.80		0.0	97.2
959.80 – 999.71		0.0	97.2
999.71 – 1041.27		0.0	97.2
1041.27 – 1084.57		0.0	97.2

0 10 20 30 40 50 60 70 80 90 100
% OF SAMPLES IN CLASS INTERVAL

EXECUTION TERMINATED 20:59:31 T=.932 RC=0 $2.75



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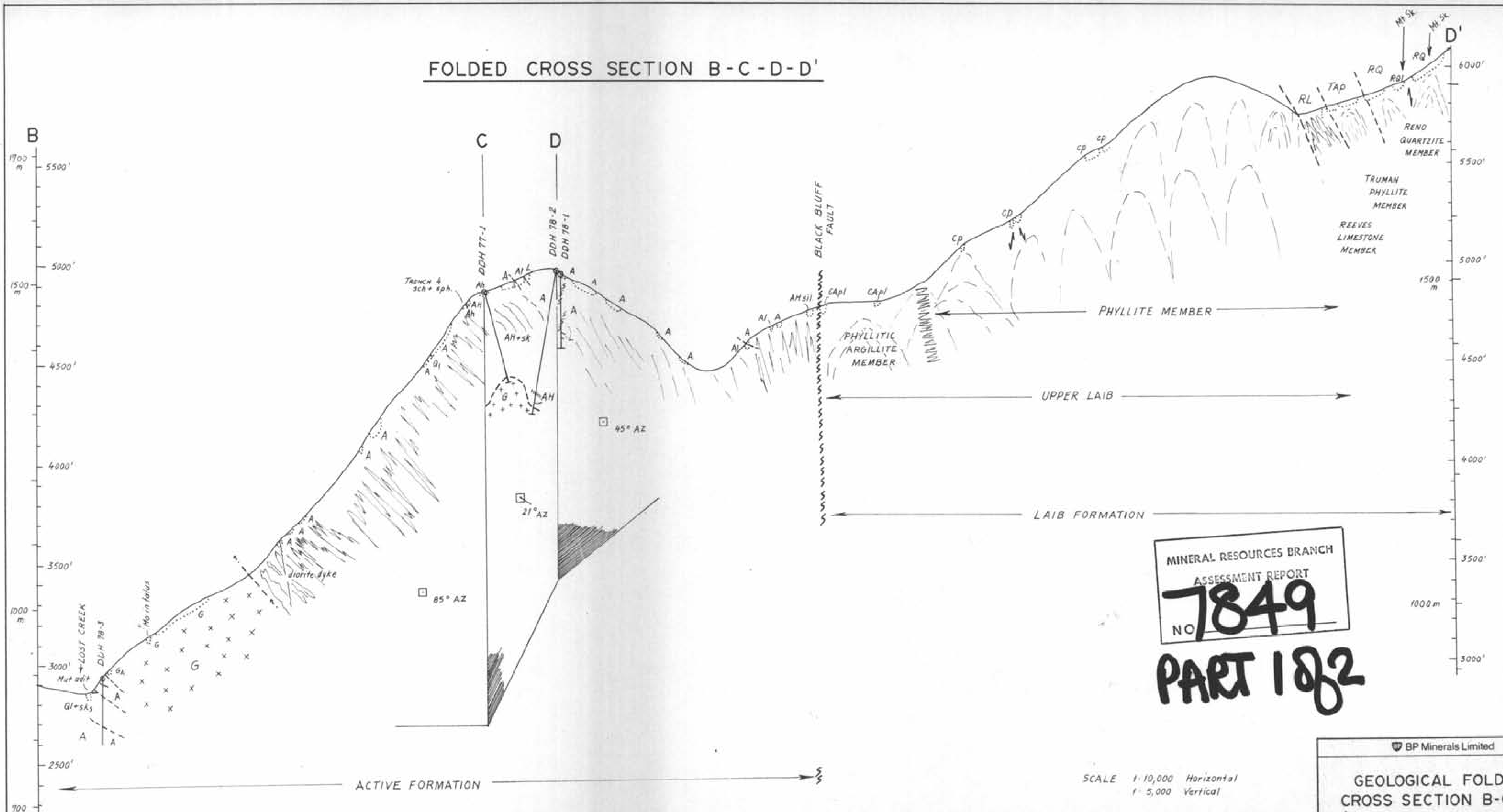
MUT CLAIM 5
GEOLOGY OF TRENCHED AREAS

SCALE 1:1,000 10 m.	NTS 82 F 3		FIG. 5
DWG No. 80-26	DATE FEB. 1980	PROJ. 517	
To accompany report	BPVR 79-34		

FOLDED CROSS SECTION B-C-D-D'



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
NO 7849
PART 1&2

SCALE 1:10,000 Horizontal
1:5,000 Vertical

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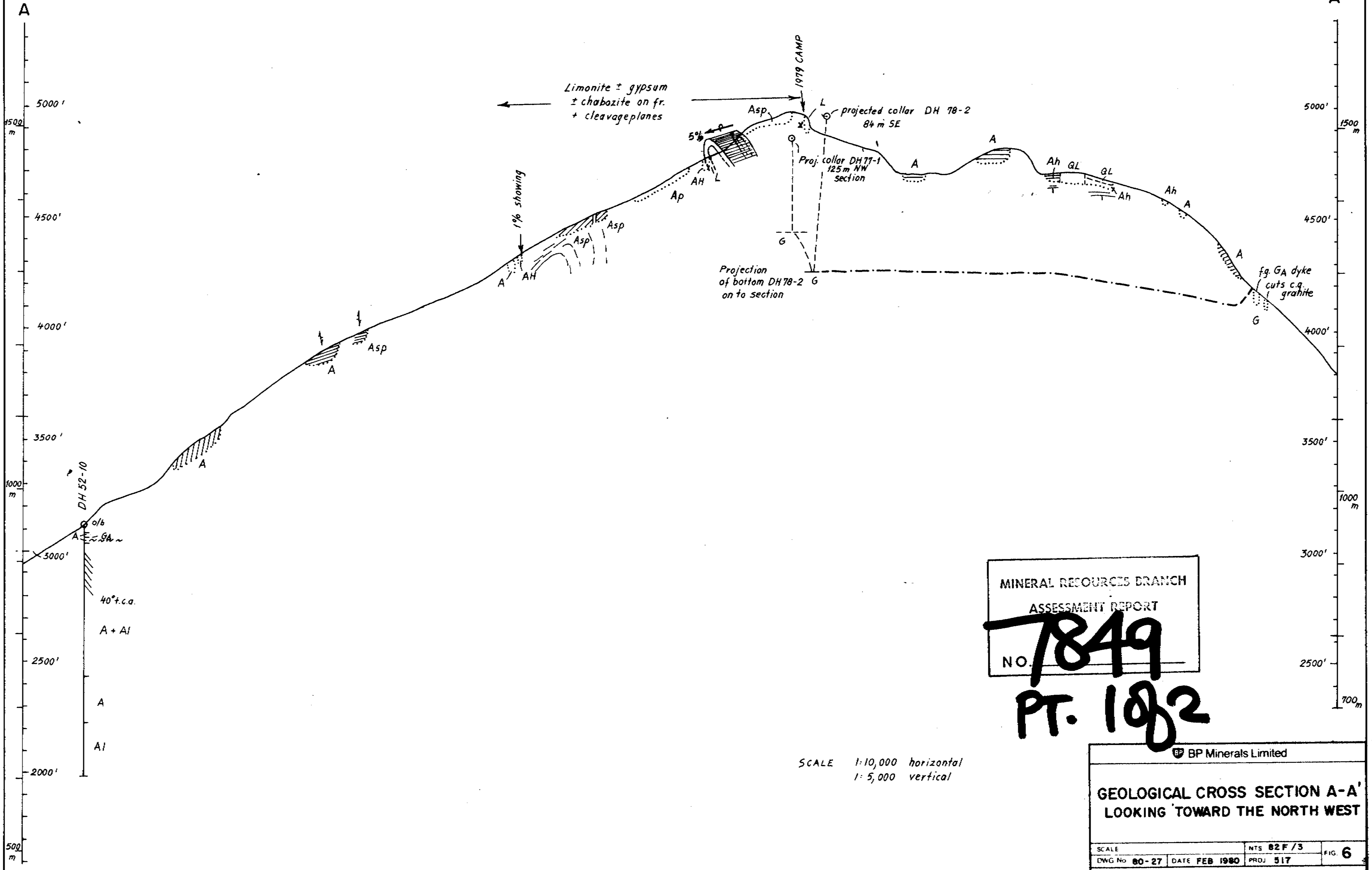
GEOLOGICAL FOLDED CROSS SECTION B-C-D-D'

SCALE		NTS 82 F/3	FIG 7
DWG No. 80-28	DATE FEB 1980	PROJ. 517	
To accompany report	BPVR 79-34		

SECTION A-A' LOOKING TOWARD THE NORTH WEST



SCALE 1:10,000 horizontal
1:5,000 vertical

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GEOLOGICAL CROSS SECTION A-A' LOOKING TOWARD THE NORTH WEST

SCALE		NTS 82 F/3	FIG. 6
DWG No 80-27	DATE FEB 1980	PROJ 517	
To accompany report BPVR 79-34			