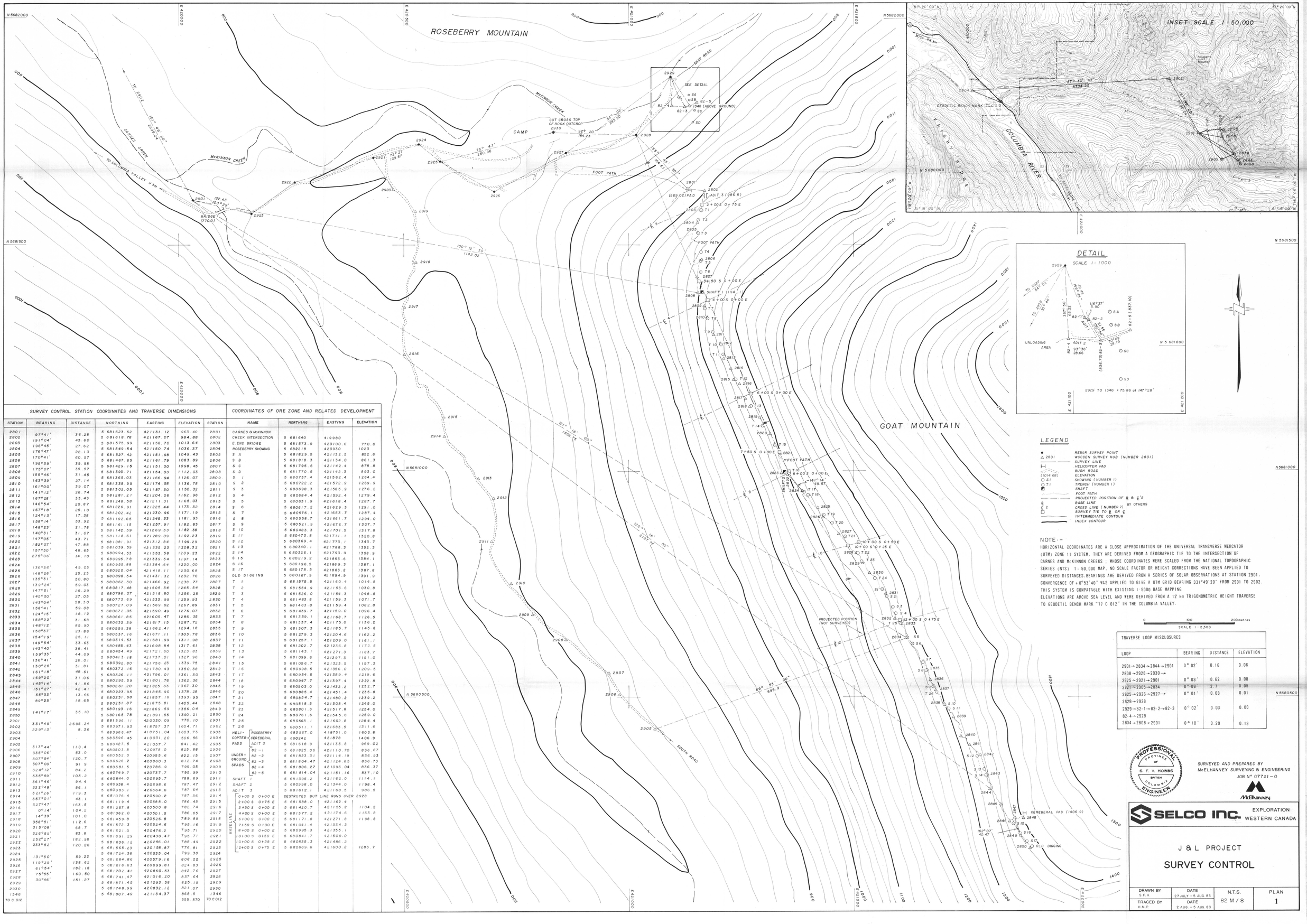
PLAN 1-16 TO ACCOMPANY
A SUMMARY REPORT ON THE
J & L MINERAL OPTION
LEAD-ZINC-GOLD-SILVER PROSPECT
BRITISH COLUMBIA
NTS: 82M/8E

R. Pegg, P. Eng
Geological Engineer

B. Grant

For: Selco - A division of BP Exploration Canada Limited
Vancouver, B.C.

March, 1984



SURVEY CONTROL STATION COORDINATES AND TRAVERSE DIMENSIONS

STATION	BEARING	DISTANCE	NORTHING	EASTING	ELEVATION	STATION
2801	97°41'	36.28	5 681623.62	421131.12	963.40	2801
2802	191°04'	43.60	5 681618.78	421167.07	984.88	2802
2803	196°45'	27.62	5 681549.54	421150.74	1036.37	2804
2805	176°47'	22.13	5 681527.42	421151.98	1049.43	2805
2806	170°41'	60.57	5 681467.65	421161.79	1083.89	2806
2807	175°07'	35.57	5 681429.15	421151.00	1098.45	2807
2808	155°46'	31.45	5 681393.71	421154.03	1112.03	2808
2809	163°39'	27.14	5 681365.03	421166.94	1126.07	2809
2810	161°00'	39.07	5 681338.99	421174.58	1136.78	2810
2811	141°12'	26.74	5 681302.05	421187.30	1150.32	2811
2812	167°28'	33.43	5 681281.21	421204.06	1162.96	2812
2813	146°54'	25.87	5 681248.58	421211.31	1165.03	2813
2814	167°18'	25.10	5 681226.91	421225.44	1173.32	2814
2815	124°13'	17.38	5 681202.42	421230.96	1171.19	2815
2816	158°14'	33.92	5 681192.65	421245.33	1181.93	2816
2817	148°23'	21.78	5 681161.15	421257.91	1182.83	2817
2818	140°31'	31.07	5 681142.59	421269.33	1182.38	2818
2819	147°05'	43.71	5 681118.61	421289.09	1192.23	2819
2820	152°07'	47.88	5 681081.91	421312.84	1199.29	2820
2821	157°50'	48.65	5 681039.59	421335.23	1208.32	2821
2822	275°06'	14.10	5 680994.53	421353.58	1209.23	2822
2823			5 680995.75	421339.54	1197.14	2823
2824	136°56'	49.05	5 680955.88	421384.64	1220.00	2824
2825	148°26'	25.23	5 680920.04	421418.11	1230.68	2825
2826	135°31'	50.80	5 680898.54	421431.32	1232.76	2826
2827	139°24'	59.03	5 680862.30	421466.92	1238.77	2827
2828	147°51'	25.29	5 680817.48	421505.34	1245.54	2828
2829	145°50'	27.05	5 680796.07	421518.80	1256.25	2829
2830	143°04'	58.30	5 680773.69	421533.99	1259.93	2830
2831	158°41'	59.08	5 680727.09	421569.02	1267.89	2831
2832	124°15'	18.12	5 680672.05	421590.49	1276.07	2832
2833	158°22'	31.68	5 680661.85	421605.47	1286.35	2833
2834	148°12'	85.90	5 680632.39	421617.15	1287.72	2834
2835	158°37'	23.86	5 680559.38	421662.41	1294.18	2835
2836	154°19'	25.11	5 680537.16	421671.11	1303.78	2836
2837	149°54'	33.63	5 680514.53	421681.99	1311.98	2837
2838	143°40'	38.41	5 680485.43	421698.84	1317.61	2838
2839	159°33'	44.09	5 680454.49	421721.60	1323.83	2839
2840	136°41'	28.01	5 680413.18	421737.01	1327.96	2840
2841	130°28'	31.81	5 680392.80	421756.23	1339.75	2841
2842	161°18'	48.61	5 680372.16	421780.43	1350.38	2842
2843	169°20'	31.06	5 680326.11	421796.01	1361.30	2843
2844	145°14'	41.86	5 680295.59	421801.76	1362.36	2844
2845	151°27'	42.41	5 680261.20	421825.63	1367.30	2845
2846	55°33'	13.66	5 680223.95	421845.90	1378.28	2846
2847	89°25'	18.65	5 680231.68	421857.16	1393.95	2847
2848			5 680231.87	421875.81	1405.44	2848
2849	141°17'	35.10	5 680193.16	421869.59	1386.04	2849
2850			5 680165.78	421891.55	1390.21	2850
2901	331°49'	2695.24	5 681596.11	420030.09	770.10	2901
2902	229°13'	8.36	5 683971.93	418757.37	1604.71	2902
2903			5 683966.47	418751.04	1603.73	2903
2904			5 683596.45	419031.20	506.56	2904
2905			5 680427.5	421057.7	641.42	2905
2906	313°44'	110.4	5 680503.8	420978.0	825.88	2906
2907	335°06'	53.0	5 680552.0	420955.6	822.15	2907
2908	307°54'	120.7	5 680626.2	420860.3	812.74	2908
2909	307°00'	91.9	5 680681.5	420786.9	799.05	2909
2910	324°12'	84.2	5 680749.7	420737.7	795.99	2910
2911	335°59'	103.2	5 680844.0	420695.7	788.69	2911
2912	356°46'	94.4	5 680938.4	420698.6	787.47	2912
2913	322°48'	56.1	5 680983.1	420664.6	787.64	2913
2914	321°26'	119.3	5 681076.4	420590.2	787.36	2914
2915	357°01'	43.1	5 681119.4	420588.0	786.45	2915
2916	327°47'	163.5	5 681257.8	420500.8	782.74	2916
2917	0°14'	104.2	5 681362.0	420501.5	786.65	2917
2918	14°39'	101.0	5 681459.8	420526.8	789.89	2918
2919	358°51'	112.6	5 681572.3	420524.6	795.16	2919
2920	315°08'	68.7	5 681621.0	420476.2	795.71	2920
2921	326°59'	83.8	5 681691.29	420430.47	795.71	2921
2922	252°27'	182.98	5 681636.12	420256.01	788.49	2922
2923	233°52'	120.26	5 681565.23	420158.87	776.81	2923
2924			5 681724.36	420535.04	799.30	2924
2925	131°50'	59.22	5 681684.86	420579.16	808.22	2925
2926	119°29'	138.62	5 681616.63	420699.81	824.83	2926
2927	61°54'	182.18	5 681702.41	420860.53	842.76	2927
2928	75°55'	160.50	5 681741.47	421016.20	837.64	2928
2929	30°46'	151.27	5 681871.45	421093.58	825.19	2929
2930			5 681748.99	420832.12	821.07	2930
1346			5 681807.49	421134.37	868.5	1346
70 C 012					555.870	70 C 012

COORDINATES OF ORE ZONE AND RELATED DEVELOPMENT

NAME	NORTHING	EASTING	ELEVATION
CARNES & McKINNON			
CREEK INTERSECTION	5 681640	419980	
E.END BRIDGE	5 681573.9	420100.6	770.0
ROSEBERRY SHOWING	5 682218	420930	1023
S A	5 681829.5	421132.5	852.6
S B	5 681818.3	421134.0	861.3
S C	5 681795.6	421142.4	878.8
S D	5 681770.5	421142.3	893.0
S 1	5 680737.4	421562.4	1264.4
S 2	5 680722.2	421572.9	1269.9
S 3	5 680698.3	421585.9	1276.2
S 4	5 680684.4	421592.4	1279.4
S 5	5 680631.9	421618.4	1287.7
S 6	5 680617.2	421629.3	1291.0
S 7	5 680576.1	421653.7	1287.4
S 8	5 680558.7	421661.7	1294.0
S 9	5 680521.9	421676.7	1307.7
S 10	5 680483.3	421701.5	1317.8
S 11	5 680473.8	421711.1	1320.8
S 12	5 680369.4	421773.1	1343.7
S 13	5 680340.1	421788.3	1352.3
S 14	5 680326.1	421793.9	1358.9
S 15	5 680219.2	421853.6	1384.1
S 16	5 680196.5	421869.3	1387.1
S 17	5 680178.5	421883.2	1387.8
OLD DIGGING	5 680167.9	421894.9	1391.9
T 1	5 681575.5	421160.4	1014.8
T 2	5 681554.9	421153.6	1030.8
T 3	5 681526.0	421154.3	1048.8
T 4	5 681483.8	421159.3	1071.7
T 5	5 681463.8	421159.4	1082.8
T 6	5 681440.7	421159.0	1096.4
T 7	5 681359.1	421168.7	1126.5
T 8	5 681337.4	421175.0	1136.2
T 9	5 681307.3	421185.7	1145.8
T 10	5 681279.3	421204.6	1162.2
T 11	5 681257.1	421209.0	1161.1
T 12	5 681202.7	421236.8	1172.5
T 13	5 681143.1	421271.3	1183.7
T 14	5 681099.6	421297.3	1191.0
T 15	5 681056.7	421323.5	1197.3
T 16	5 680998.5	421356.0	1209.5
T 17	5 680954.5	421389.4	1219.6
T 18	5 680947.7	421397.4	1222.8
T 19	5 680903.0	421432.2	1232.7
T 20	5 680885.4	421451.4	1235.8
T 21	5 680854.7	421480.2	1239.2
T 22	5 680818.5	421508.4	1245.0
T 23	5 680801.3	421517.8	1254.0
T 24	5 680761.6	421545.6	1259.0
T 25	5 680663.1	421602.8	1284.4
T 26	5 680511.1	421683.5	1311.6
HELICOPTER PADS — ROSEBERRY	5 683967.0	418751.0	1603.8
HELICOPTER PADS — CEREBERAL	5 680242	421878	1406.9
HELICOPTER PADS — ADIT 3	5 681618.9	421135.8	969.02
UNDERGROUND SPADS — 82-1	5 681825.06	421110.70	836.87
UNDERGROUND SPADS — 82-2	5 681823.31	421114.19	836.93
UNDERGROUND SPADS — 82-3	5 681804.47	421124.65	836.73
UNDERGROUND SPADS — 82-4	5 681806.27	421096.04	836.37
UNDERGROUND SPADS — 82-5	5 681814.04	421151.16	837.10
SHAFT 1	5 681395.2	421162.0	1114.1
SHAFT 2	5 680998.0	421344.0	1198.4
ADIT 3	5 681612.1	421168.5	986.5

DESTROYED BUT LINE RUNS OVER 2928

BASELINE	NORTHING	EASTING
0+00 S 0+00 E	5 681588.0	421162.4
3+50 S 0+00 E	5 681420.7	421155.2
4+00 S 0+00 E	5 681377.2	421174.6
6+00 S 0+00 E	5 681171.8	421271.8
7+50 S 0+00 E	5 681041.4	421334.2
8+00 S 0+00 E	5 680995.3	421355.1
10+00 S 0+50 E	5 680841.7	421509.0
10+00 S 0+25 E	5 680835.3	421486.2
12+00 S 0+75 E	5 680669.6	421600.2

LEGEND

- REBAR SURVEY POINT
- △ 2801 WOODEN SURVEY HUB (NUMBER 2801)
- SURVEY LINE
- HELICOPTER PAD
- BUSH ROAD
- (1014.68) ELEVATION
- SHOWING (NUMBER 1)
- TRENCH (NUMBER 1)
- SHAFT
- FOOT PATH
- PROJECTED POSITION OF ℄ & ℄'S
- BASE LINE BY OTHERS
- ℄ 2 CROSS LINE (NUMBER 2)
- SURVEY TIE TO ℄ OR ℄
- INTERMEDIATE CONTOUR
- INDEX CONTOUR

NOTE:-

HORIZONTAL COORDINATES ARE A CLOSE APPROXIMATION OF THE UNIVERSAL TRANSVERSE MERCATOR (UTM) ZONE 11 SYSTEM. THEY ARE DERIVED FROM A GEOGRAPHIC TIE TO THE INTERSECTION OF CARNES AND McKINNON CREEKS ; WHOSE COORDINATES WERE SCALED FROM THE NATIONAL TOPOGRAPHIC SERIES (NTS) 1 : 50,000 MAP, NO SCALE FACTOR OR HEIGHT CORRECTIONS HAVE BEEN APPLIED TO SURVEYED DISTANCES.BEARINGS ARE DERIVED FROM A SERIES OF SOLAR OBSERVATIONS AT STATION 2901. CONVERGENCE OF + 0°53' 40" WAS APPLIED TO GIVE A UTM GRID BEARING 331°49'20" FROM 2901 TO 2902. THIS SYSTEM IS COMPATIBLE WITH EXISTING 1 : 5000 BASE MAPPING

ELEVATIONS ARE ABOVE SEA LEVEL AND WERE DERIVED FROM A 12 km TRIGONOMETRIC HEIGHT TRAVERSE TO GEODETIC BENCH MARK "77 C 012" IN THE COLUMBIA VALLEY.

0 10.0 200 metres
SCALE 1 : 2,500

TRAVERSE LOOP MISCLOSURES

LOOP	BEARING	DISTANCE	ELEVATION
2901→2834→2844→2901	0° 02'	0.16	0.06
2808→2928→2930→	0° 03'	0.62	0.08
2921→2905→2834	0° 08'	2.7	0.05
2925→2926→2927→	0° 01'	0.08	0.01
2929→2928			
2929→82-1→82-2→82-3	0° 02'	0.03	0.00
82-4→2929			
2834→2808→2901	0° 10'	0.29	0.13

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — S. F. V. HOBBS

SURVEYED AND PREPARED BY
McELHANNEY SURVEYING & ENGINEERING
JOB N° 07721 – 0

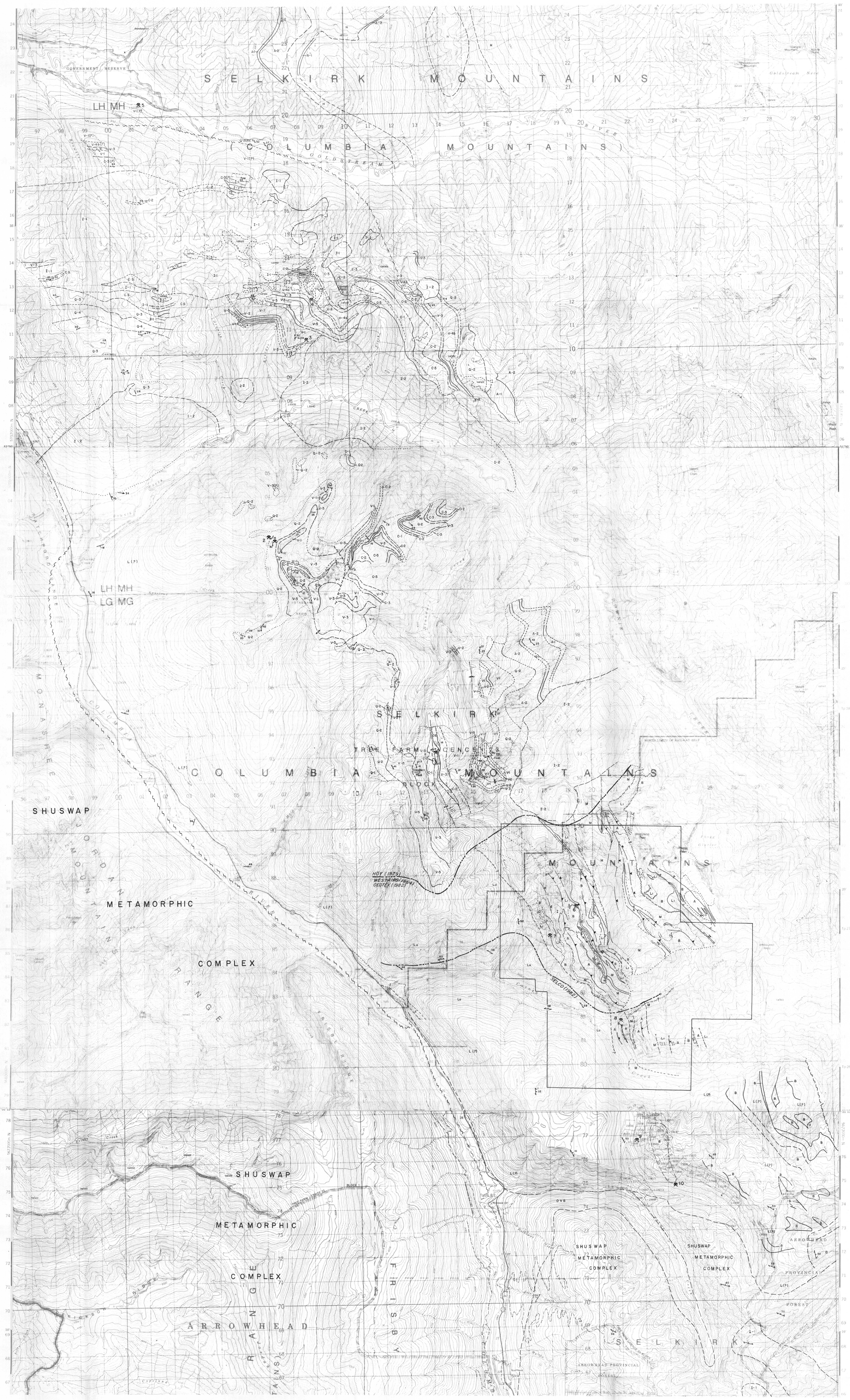
McElhanney

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT

SURVEY CONTROL

DRAWN BY	DATE	N.T.S.	PLAN
S.F.H.	27 JULY - 5 AUG. 83	82 M / 8	1
TRACED BY H.M.P.	DATE 2 AUG. – 5 AUG. 83		



LEGEND

(after Wheeler (1963), Sullivan (1965) Höy (1979) and Geotex (1982))

MESOZOIC OR PALEOZOIC(?)

- I-1 semi-concordant quartz monzonite
- I-2 discordant granite porphyry
- I undivided intrusive

LOWER PALEOZOIC - LARDEAU GROUP(?)

- J Jowett Formation: dark green tuffaceous volcanics, minor white dolomitic limestone
- Lu Upper Index Formation: basic volcanic flows and local tuffs, grey and green siliceous phyllite, phyllitic quartzite and phyllitic limestone.
- Ll Lower Index Formation: grey phyllite; minor local basal conglomerate
- L Lardeau Group: undivided
- B BADSHOT FORMATION: (fossiliferous) grey limestone
- M Mohican Formation: light green calcareous phyllite

LOWER PALEOZOIC - HAMILL GROUP(?)

- H undivided

Carbonate-Phyllite Division (Badshot Formation ?)

- C-3 calcareous phyllite; minor dolomite, limestone, rusty weathering schist.
- C-2 dolomite, limestone
- C-1 dark calcareous phyllite; minor chlorite phyllite, dolomite

Metavolcanic Phyllite Division

- V-5 light green quartz-chlorite phyllite, dark green chlorite phyllite; may also include units V-3 and V-4
- V-4a calc-silicate gneiss, biotite gneiss, rusty weathering calcareous schist, amphibolite, psammite
- V-4b rusty weathering calcareous phyllite, chlorite phyllite, sericite phyllite, dolomite, psammite.
- V-3 greenstone, massive to phyllitic; chlorite phyllite, minor talc-chlorite rock; calcareous phyllite, dolomite
- V-2 dolomite, limestone
- V-1 calcareous graphite phyllite, sericite phyllite; minor dolomite, limestone, chlorite phyllite

Calc-Silicate Gneiss Division

- C.S. calc-silicate gneiss, calcareous schist, biotite-hornblende gneiss; minor amphibolite

Quartzite Schist Division

- Q-4 quartzite; minor pelitic schist
- Q-3 pelitic (kyanite) schist; micaceous quartzite
- Q-2 quartzite, psammite, quartz-sericite phyllite; minor limy layers.
- Q-1 dark graphite schist, micaceous schist
- A Marsh Adams Formation: phyllitic quartzite

LOWER PALEOZIC - UPPER PROTEROZOIC(?) - HORSETHIEF CREEK GROUP

- A-2 pelitic schist, graphite schist; calcareous phyllite, minor psammite, greenstone
- A-1 dolomite, limestone

claim boundary of the J&L Property

OVB overburden
fault
geological contact; defined, approximate, assumed
antiform axial surface trace
synform axial surface trace
phase one anticline
phase two synform
foliation; lineation
bedding, primary layering
limits of mapping, outcrop
sulphide mineralization

1 - Standard (Cu-Zn)
2 - Keystone (Pb-Zn-Cu)
3 - Montgomery (Cu-Zn-Pb)
4 - K J (Pb-Zn)
5 - Goldstream (Cu-Zn-Ag)
6 - A & E (Pb-Zn-Ag-Au)
7 - Roseberry (Au)
8 - J & L (Pb-Zn-Ag-Au)
9 - Mastodon (Pb-Zn-Ag-Cd)
10 - Lead King (Pb-Zn)

0 1 2 3 4 MILES
0 1 2 3 4 5 KILOMETRES
Scale 1:50 000

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
REGIONAL GEOLOGY
PRELIMINARY CORRELATION

DRAWN BY	DATE	N.T.S.	PLAN
R. PEGG	MAR. 1984.	82M/9,8,1	2
TRACED BY J.S.	DATE MAR. 1984.		

E 420000 E 420500 E 421000 E 421500 E 422000

N 5682000 N 5681500 N 5681000 N 5680500

CARMES CREEK

TO COLUMBIA VALLEY 9 km

McKINNON CREEK

SELCO CAMP

L

OVB

calc grnph phyll

L 2+00 S L 4+00 S L 6+00 S L 8+00 S L 10+00 S L 12+00 S L 14+00 S L 16+00 S

830 ADIT 986 ADIT

83-4

LEGEND

△	FLOAT
	OUTCROP OUTLINE (LARGE)
x	OUTCROP (SMALL)
	MINOR FOLDING (STRIKE AND PLUNGE)
	BEDDING
	SCHISTOSITY
	CREEK
	OLD CAMP
	ROAD
	ADIT
	GEOLOGICAL CONTACT
	MINERALIZED ZONE
	PLOT OF THE UNDERGROUND DEVELOPMENT (830 METRE LEVEL)
	CLAIM POST
	TRENCH
⊗	MINERAL OCCURRENCE / SHOWING
	HELIPAD
	BRIDGE
○83-4	DIAMOND DRILL HOLE (HOLE NUMBER)
Dol	DOLOMITE
Qtzite	QUARTZITE
sch	PHYLLITIC SCHIST
cb	CARBONATE
Lst	LIMESTONE
chl	CHLORITE
qtz	QUARTZ
graph	GRAPHITE
ser	SERICITE
calc	CALCAREOUS
~~	SHEARING
⌐⌐	JOINTING
	SHAFT
OVB	OVERBURDEN
Feld	FELDSPAR
Dev	DEVETRIFIED
Rhyl	RHYOLITE
As	ARSENOPYRITE
tr	TRACE
Pbs	GALENA
Py	PYRITE

L	LARDEAU GROUP (LOWER CAMBRIAN AND OLDER)

MOHICAN FORMATION (LOWER CAMBRIAN)

4	CALCAREOUS PHYLLITE

HAMILL GROUP (LOWER CAMBRIAN)

3	PHYLLITIC QUARTZITE (HAMILL)
2	MASSIVE TO DISSEMINATED SULPHIDES
1	LIMESTONE

CONTOUR INTERVAL 100 METRES

metres 0 50 100 150 200 250 metres

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT

SURFACE GEOLOGY

DRAWN BY R. PEGG	DATE NOV., 1983	N.T.S. 82 M 8/E	PLAN 4
TRACED BY J.C.	DATE FEB., 1983		

9,990 E
10,035 E
10,080 E
10,125 E
10,170 E
10,215 E
10,260 E

10,075 N
10,030 N
9,985 N
9,940 N

MINE GRID NORTH

LEGEND

0	GRAPHITE SHIST
0A	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED, ± GRAPHITE)
0B	CARBONACEOUS LIMESTONE (CARBONATE 'SWEAT OUTS' ± GRAPHITE)
0C	CARBONACEOUS CHERT (LIMESTONE, ± GRAPHITE)
1	LIMESTONE (GREY BANDED)
1A	LIMESTONE (SILICEOUS, BANDED)
2	MUSCOVITE (SERICITE) PHYLLITE
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE
3	CHLORITE SCHIST
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST
3B	CHLORITE - QUARTZ SCHIST (± MUSCOVITE)
3C	CALCAREOUS CHLORITE SCHIST
4	QUARTZITE
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)
4B	QUARTZ - CHLORITE SCHIST
4C	CALCAREOUS QUARTZITE
5	CHERT
6	INJECTED QUARTZ BRECCIA
7	MYLONITE (SHEARED SCHIST ?)
8	CALCITE / DOLOMITE
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)
10	QUARTZ VEIN
11	PORPHYRY DYKE (SHEARED)

LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)

FAULT (OBSERVED, ASSUMED)

FOLIATION (AVERAGE)

ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

DRILL HOLE (COLLAR, END OF HOLE)

DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION), DASHED LINE INDICATES PROJECTED GEOLOGY PAST HORIZONTAL PLOT OF THE END OF THE DRILL HOLE

SURVEY STATION

NOTE DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION

0 5 10 15 20 25 metres
Scale 1:250

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
GEOLOGY
830 metre DRIFT PLAN
(North half)

DRAWN BY	DATE	N.T.S.	PLAN
T.D. GARROW	DEC. 1983	82 M/8E	5
TRACED BY J. S.	DATE JAN. 1984		

10,305 E | 10,350 E | 10,395 E | 10,440 E | 10,485 E | 10,530 E

10,075 N

10,030 N

9,985 N

9,940 N

LEGEND

0	GRAPHITE SHIST
0A	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED, ± GRAPHITE)
0B	CARBONACEOUS LIMESTONE (CARBONATE 'SWEAT OUTS' ± GRAPHITE)
0C	CARBONACEOUS CHERT (LIMESTONE, ± GRAPHITE)
1	LIMESTONE (GREY BANDED)
1A	LIMESTONE (SILICEOUS, BANDED)
2	MUSCOVITE (SERICITE) PHYLLITE
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE
3	CHLORITE SCHIST
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST
3B	CHLORITE – QUARTZ SCHIST (± MUSCOVITE)
3C	CALCAREOUS CHLORITE SCHIST
4	QUARTZITE
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)
4B	QUARTZ - CHLORITE SCHIST
4C	CALCAREOUS QUARTZITE
5	CHERT
6	INJECTED QUARTZ BRECCIA
7	MYLONITE (SHEARED SCHIST ?)
8	CALCITE / DOLOMITE
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)
10	QUARTZ VEIN
11	PORPHYRY DYKE (SHEARED)

LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)

FAULT (OBSERVED, ASSUMED)

FOLIATION (AVERAGE)

ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

DRILL HOLE (COLLAR, END OF HOLE)

DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION), DASHED LINE INDICATES PROJECTED GEOLOGY PAST HORIZONTAL PLOT OF THE END OF THE DRILL HOLE.

SURVEY STATION

NOTE: DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION

MINE GRID NORTH

J 22 | J 23 | J 25 | J 26 | J 28 | J 29 | J 30 | J 31 | J 32 | J 33 | J 34 | J 35 | J 36 | J 37 | J 38 | J 39 | J 41 | J 42 | J 43 | J 44 | J 45 | J 46

0 5 10 15 20 25 metres
Scale 1: 250

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
GEOLOGY
830 metre DRIFT PLAN
(South half)

DRAWN BY	DATE	N.T.S.	PLAN
T.D. GARROW	DEC 1983.	82 M/8E	6
TRACED BY J.S.	DATE JAN. 1984.		

LEGEND

0	GRAPHITE SHIST
0A	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED; ± GRAPHITE)
0B	CARBONACEOUS LIMESTONE (CARBONATE 'SWEAT OUTS'; ± GRAPHITE)
0C	CARBONACEOUS CHERT (LIMESTONE; ± GRAPHITE)
1	LIMESTONE (GREY BANDED)
1A	LIMESTONE (SILICEOUS, BANDED)
2	MUSCOVITE (SERICITE) PHYLLITE
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE
3	CHLORITE SCHIST
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST
3B	CHLORITE - QUARTZ SCHIST (± MUSCOVITE)
3C	CALCAREOUS CHLORITE SCHIST
4	QUARTZITE
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)
4B	QUARTZ - CHLORITE SCHIST
4C	CALCAREOUS QUARTZITE
5	CHERT
6	INJECTED QUARTZ BRECCIA
7	MYLONITE (SHEARED SCHIST ?)
8	CALCITE / DOLOMITE
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)
10	QUARTZ VEIN
11	PORPHYRY DYKE (SHEARED)

Symbol	Meaning
———, — —	LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)
150°/30°	FAULT (OBSERVED, ASSUMED)
30°	FOLIATION
30°	BEDDING
090°/60°	JOINTING
110°/06°	ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)
110°/06°	MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)
	FOLIATION / BEDDING TREND
83-20(+40°, 10·21m)	DRILL HOLE (COLLAR, END OF HOLE)
4A 4A 1A	DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION); DASHED LINE INDICATES PROJECTED GEOLOGY PAST HORIZONTAL PLOT OF THE END OF THE DRILL HOLE.
J-29	SURVEY STATION

brx.	BRECCIA	As	ARSENOPYRITE	grn.	GREEN
lst.	LIMESTONE	CPy	CHALCOPYRITE	gy.	GREY
m.s.	MASSIVE SULPHIDE	meneg.	MENEGHINITE	lt.	LIGHT
phyll.	PHYLLITE	PbS	GALENA	h/w	HANGING WALL
qte.	QUARTZITE	Po	PYRRHOTITE	m.g.	MEDIUM-GRAINED
sch.	SCHIST	Py	PYRITE	sec.	SECONDARY
		ZnS	SPHALERITE	shrd.	SHEARED
bi.	BIOTITE			str.	STRINGERS
calc.	CALCAREOUS	abn.	ABUNDANT	tr.	TRACE
carb.	CARBONATE	bndd.	BANDED	xtals	CRYSTALS
chl.	CHLORITE	brn.	BROWN		
dol.	DOLOMITE	c.g.	COARSE-GRAINED		
gr.	GRAPHITE	d.k.	DARK		
musc.	MUSCOVITE	f.g.	FINE-GRAINED		
qtz.	QUARTZ	fold.	FOLIATED		
ser.	SERICITE	foln.	FOLIATION		
sil.	SILICEOUS	f/w	FOOTWALL		
		f.f.	FRACTURE FILLING		
		frags.	FRAGMENTS		

NOTE: DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION.

0 1 2 3 4 5 metres
Scale 1:50

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
PLAN 2 C
GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
T.D. GARROW	AUG. 19, 1983.	82 M/8E	7
TRACED BY J.S.	DATE OCT. 1983.		

LEGEND

0	GRAPHITE SHIST
0A	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED; ± GRAPHITE)
0B	CARBONACEOUS LIMESTONE (CARBONATE 'SWEAT OUTS'; ± GRAPHITE)
0C	CARBONACEOUS CHERT (LIMESTONE; ± GRAPHITE)
1	LIMESTONE (GREY BANDED)
1A	LIMESTONE (SILICEOUS, BANDED)
2	MUSCOVITE (SERICITE) PHYLLITE
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE
3	CHLORITE SCHIST
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST
3B	CHLORITE - QUARTZ SCHIST (± MUSCOVITE)
3C	CALCAREOUS CHLORITE SCHIST
4	QUARTZITE
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)
4B	QUARTZ - CHLORITE SCHIST
4C	CALCAREOUS QUARTZITE
5	CHERT
6	INJECTED QUARTZ BRECCIA
7	MYLONITE (SHEARED SCHIST ?)
8	CALCITE / DOLOMITE
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)
10	QUARTZ VEIN
11	PORPHYRY DYKE (SHEARED)

———, — —	LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)
150°/30°	FAULT (OBSERVED, ASSUMED)
30°	FOLIATION
30°	BEDDING
090°/60°	JOINTING
110°/06°	ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)
110°/06°	MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)
	FOLIATION / BEDDING TREND
83-20(+40°, 10·21m)	DRILL HOLE (COLLAR, END OF HOLE)
4A 4A 1A	DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION); DASHED LINE INDICATES PROJECTED GEOLOGY PAST HORIZONTAL PLOT OF THE END OF THE DRILL HOLE.
J-29	SURVEY STATION

brx.	BRECCIA	As	ARSENOPYRITE	grn.	GREEN
lst.	LIMESTONE	CPy	CHALCOPYRITE	gy.	GREY
m.s.	MASSIVE SULPHIDE	meneg.	MENEGHINITE	lt.	LIGHT
phyll.	PHYLLITE	PbS	GALENA	h/w	HANGING WALL
qte.	QUARTZITE	Po	PYRRHOTITE	m.g.	MEDIUM-GRAINED
sch.	SCHIST	Py	PYRITE	sec.	SECONDARY
		ZnS	SPHALERITE	shrd	SHEARED
bi.	BIOTITE			str.	STRINGERS
calc.	CALCAREOUS	abn.	ABUNDANT	tr.	TRACE
carb.	CARBONATE	bndd.	BANDED	xtals	CRYSTALS
chl.	CHLORITE	brn.	BROWN		
dol.	DOLOMITE	c.g.	COARSE-GRAINED		
gr.	GRAPHITE	d.k.	DARK		
musc.	MUSCOVITE	f.g.	FINE-GRAINED		
qtz.	QUARTZ	fotd.	FOLIATED		
ser.	SERICITE	foln.	FOLIATION		
sil.	SILICEOUS	f/w	FOOTWALL		
		f.f.	FRACTURE FILLING		
		frags.	FRAGMENTS		

NOTE: DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION

0 1 2 3 4 5 metres
Scale 1:50

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
PLAN 3C
GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
T.D. GARROW	AUG. 19, 1983.	82 M/8E	8
TRACED BY	DATE		
J.S.	OCT. 1983.		

10,170 E.

10,185 E.

10,200 E.

10,215 E.

10,030 N.

10,015 N.

10,000 N.

WEST SIDE 10,200 X-CUT

BACK ELEVATION

SILL ELEVATION

EAST SIDE 10,200 X-CUT

SILL ELEVATION

BACK ELEVATION

MINE GRID NORTH

LEGEND

0	GRAPHITE SHIST
0A	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED, ± GRAPHITE)
0B	CARBONACEOUS LIMESTONE (CARBONATE 'SWEAT OUTS', ± GRAPHITE)
0C	CARBONACEOUS CHERT (LIMESTONE, ± GRAPHITE)
1	LIMESTONE (GREY BANDED)
1A	LIMESTONE (SILICEOUS, BANDED)
2	MUSCOVITE (SERICITE) PHYLLITE
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE
3	CHLORITE SCHIST
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST
3B	CHLORITE – QUARTZ SCHIST (± MUSCOVITE)
3C	CALCAREOUS CHLORITE SCHIST
4	QUARTZITE
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)
4B	QUARTZ - CHLORITE SCHIST
4C	CALCAREOUS QUARTZITE
5	CHERT
6	INJECTED QUARTZ BRECCIA
7	MYLONITE (SHEARED SCHIST ?)
8	CALCITE / DOLOMITE
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)
10	QUARTZ VEIN
11	PORPHYRY DYKE (SHEARED)

LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)

FAULT (OBSERVED, ASSUMED)

FOLIATION

BEDDING

JOINTING

ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

FOLIATION / BEDDING TREND

DRILL HOLE (COLLAR, END OF HOLE)

DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION); DASHED LINE INDICATES PROJECTED GEOLOGY PAST HORIZONTAL PLOT OF THE END OF THE DRILL HOLE.

SURVEY STATION

brx.	BRECCIA
lst.	LIMESTONE
m.s.	MASSIVE SULPHIDE
phyl.	PHYLLITE
qte.	QUARTZITE
sch.	SCHIST
bi.	BIOTITE
calc.	CALCAREOUS
carb.	CARBONATE
chl.	CHLORITE
dol.	DOLOMITE
gr.	GRAPHITE
musc.	MUSCOVITE
qtz.	QUARTZ
ser.	SERICITE
sil.	SILICEOUS
As	ARSENOPYRITE
CPy	CHALCOPYRITE
meneg.	MENEGHINITE
PbS	GALENA
Po	PYRRHOTITE
Py	PYRITE
ZnS	SPHALERITE

abn.	ABUNDANT
bndd.	BANDED
brn.	BROWN
c.g.	COARSE-GRAINED
d.k.	DARK
f.g.	FINE-GRAINED
fold.	FOLIATED
foln.	FOLIATION
f/w	FOOTWALL
f.f.	FRACTURE FILLING
frags.	FRAGMENTS
grn.	GREEN
gy.	GREY
lt.	LIGHT
h/w	HANGING WALL
m.g.	MEDIUM-GRAINED
sec.	SECONDARY
shrd	SHEARED
str.	STRINGERS
tr.	TRACE
xtals	CRYSTALS

NOTE: DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION

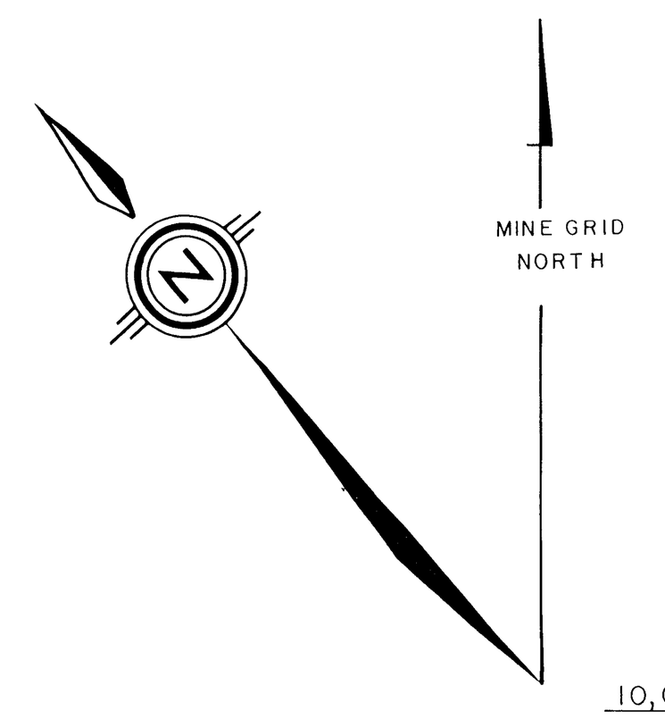
0 1 2 3 4 5 metres

Scale 1:50

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
PLAN 4C
GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
F.D. GARROW	AUG. 20, 1983.	82 M/8 E	9
TRACED BY J.S.	DATE OCT. 1983.		



10,215 E

10,075 N

LEGEND

0	GRAPHITE SHIST
0A	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED; ± GRAPHITE)
0B	CARBONACEOUS LIMESTONE (CARBONATE 'SWEAT OUTS'; ± GRAPHITE)
0C	CARBONACEOUS CHERT (LIMESTONE; ± GRAPHITE)
1	LIMESTONE (GREY BANDED)
1A	LIMESTONE (SILICEOUS, BANDED)
2	MUSCOVITE (SERICITE) PHYLLITE
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE
3	CHLORITE SCHIST
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST
3B	CHLORITE - QUARTZ SCHIST (± MUSCOVITE)
3C	CALCAREOUS CHLORITE SCHIST
4	QUARTZITE
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)
4B	QUARTZ - CHLORITE SCHIST
4C	CALCAREOUS QUARTZITE
5	CHERT
6	INJECTED QUARTZ BRECCIA
7	MYLONITE (SHEARED SCHIST ?)
8	CALCITE / DOLOMITE
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)
10	QUARTZ VEIN
11	PORPHYRY DYKE (SHEARED)

LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)

150°/30° FAULT (OBSERVED, ASSUMED)

30° FOLIATION

30° BEDDING

090°/60° JOINTING

110°/06° ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

110°/06° MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

FOLIATION / BEDDING TREND

83-20(+40°, 10.21m) DRILL HOLE (COLLAR, END OF HOLE)

4A 4A 1A DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION); DASHED LINE INDICATES PROJECTED GEOLOGY PAST HORIZONTAL PLOT OF THE END OF THE DRILL HOLE.

J-29 SURVEY STATION

10,060 N

brx.	BRECCIA
lst.	LIMESTONE
m.s.	MASSIVE SULPHIDE
phyll.	PHYLLITE
qte.	QUARTZITE
sch.	SCHIST
bi.	BIOTITE
calc.	CALCAREOUS
carb.	CARBONATE
chl.	CHLORITE
dol.	DOLOMITE
gr.	GRAPHITE
musc.	MUSCOVITE
qtz.	QUARTZ
ser.	SERICITE
sil.	SILICEOUS
As	ARSENOPYRITE
CPy	CHALCOPYRITE
meneg.	MENEGHINITE
PbS	GALENA
Po	PYRRHOTITE
Py	PYRITE
ZnS	SPHALERITE

abn.	ABUNDANT
bndd.	BANDED
brn.	BROWN
c.g.	COARSE-GRAINED
d.k.	DARK
f.g.	FINE-GRAINED
fold.	FOLIATED
foln.	FOLIATION
f/w	FOOTWALL
f.f.	FRACTURE FILLING
frags.	FRAGMENTS
grn.	GREEN
gy.	GREY
lt.	LIGHT
h/w	HANGING WALL
m.g.	MEDIUM-GRAINED
sec.	SECONDARY
shrd	SHEARED
str.	STRINGERS
tr.	TRACE
xtals	CRYSTALS

NOTE: DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION

0 1 2 3 4 5 metres

Scale 1 : 50

10,215 E

10,045 N

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT

PLAN 4B

GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
P.M. BARTIER	SEPT 6, 1983.	82 M/8E	10
TRACED BY J.S.	DATE OCT 1983.		

10,170 E | 10,185 E | 10,200 E | 10,215 E

10,105 N.

MINE GRID NORTH

LEGEND

0	GRAPHITE SCHIST
0A	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED; ± GRAPHITE)
0B	CARBONACEOUS LIMESTONE (CARBONATE 'SWEAT OUTS'; ± GRAPHITE)
0C	CARBONACEOUS CHERT (LIMESTONE; ± GRAPHITE)
1	LIMESTONE (GREY BANDED)
1A	LIMESTONE (SILICEOUS, BANDED)
2	MUSCOVITE (SERICITE) PHYLLITE
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE
3	CHLORITE SCHIST
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST
3B	CHLORITE - QUARTZ SCHIST (± MUSCOVITE)
3C	CALCAREOUS CHLORITE SCHIST
4	QUARTZITE
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)
4B	QUARTZ - CHLORITE SCHIST
4C	CALCAREOUS QUARTZITE
5	CHERT
6	INJECTED QUARTZ BRECCIA
7	MYLONITE (SHEARED SCHIST ?)
8	CALCITE / DOLOMITE
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)
10	QUARTZ VEIN
11	PORPHYRY DYKE (SHEARED)

LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)

FAULT (OBSERVED, ASSUMED)

FOLIATION

BEDDING

JOINTING

ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

FOLIATION / BEDDING TREND

DRILL HOLE (COLLAR, END OF HOLE)

DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION); DASHED LINE INDICATES PROJECTED GEOLOGY PAST HORIZONTAL PLOT OF THE END OF THE DRILL HOLE.

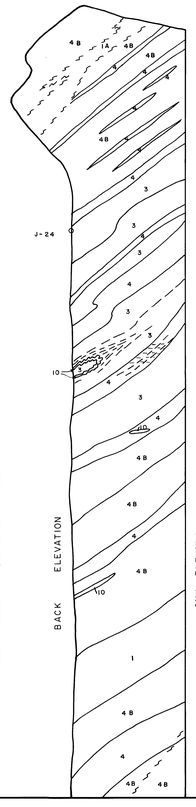
SURVEY STATION

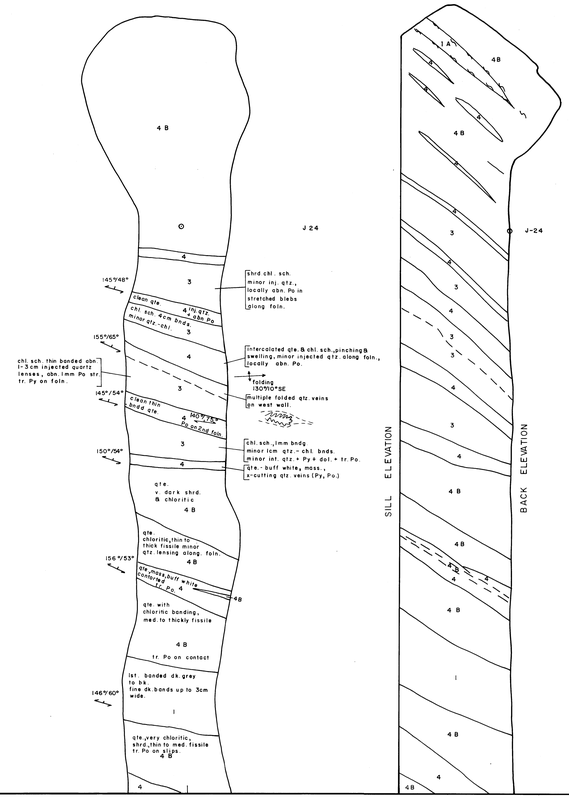
brx.	BRECCIA
lst.	LIMESTONE
m.s.	MASSIVE SULPHIDE
phyll.	PHYLLITE
qte.	QUARTZITE
sch.	SCHIST
bi.	BIOTITE
calc.	CALCAREOUS
carb.	CARBONATE
chl.	CHLORITE
dol.	DOLOMITE
gr.	GRAPHITE
musc.	MUSCOVITE
qtz.	QUARTZ
ser.	SERICITE
sil.	SILICEOUS

As	ARSENOPYRITE
Cpy	CHALCOPYRITE
mneg.	MENEGHINITE
PbS	GALENA
Po	PYRRHOTITE
Py	PYRITE
ZnS	SPHALERITE
abn.	ABUNDANT
bndd.	BANDED
brn.	BROWN
c.g.	COARSE-GRAINED
d.k.	DARK
f.g.	FINE-GRAINED
fold.	FOLIATED
foln.	FOLIATION
f/w	FOOTWALL
f.f.	FRACTURE FILLING
frags.	FRAGMENTS
grn.	GREEN
gy.	GREY
lt.	LIGHT
h/w	HANGING WALL
m.g.	MEDIUM-GRAINED
sec.	SECONDARY
shrd.	SHEARED
str.	STRINGERS
tr.	TRACE
xtals	CRYSTALS

NOTE DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION

10,090 N.





EAST SIDE 10,200 E X-CUT

0 1 2 3 4 5 metres
Scale 1:50

10,090 N.

10,170 E | 10,185 E

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
PLAN 4 A
GEOLOGY

DRAWN BY P.M. BARTIER	DATE SEPT 6, 1983.	N.T.S. 82 M/8E	PLAN 11
TRACED BY J.S.	DATE OCT. 1983.		

10,230 E

10,245 E

10,260 E

MINE GRID NORTH

10,030 N

LEGEND

0	GRAPHITE SMIST
0A	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED; ± GRAPHITE)
0B	CARBONACEOUS LIMESTONE (CARBONATE 'SWEAT OUTS'; ± GRAPHITE)
0C	CARBONACEOUS CHERT (LIMESTONE; ± GRAPHITE)
1	LIMESTONE (GREY BANDED)
1A	LIMESTONE (SILICEOUS, BANDED)
2	MUSCOVITE (SERICITE) PHYLLITE
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE
3	CHLORITE SCHIST
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST
3B	CHLORITE - QUARTZ SCHIST (± MUSCOVITE)
3C	CALCAREOUS CHLORITE SCHIST
4	QUARTZITE
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)
4B	QUARTZ - CHLORITE SCHIST
4C	CALCAREOUS QUARTZITE
5	CHERT
6	INJECTED QUARTZ BRECCIA
7	MYLONITE (SHEARED SCHIST ?)
8	CALCITE / DOLOMITE
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)
10	QUARTZ VEIN
11	PORPHYRY DYKE (SHEARED)

LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)

FAULT (OBSERVED, ASSUMED)

FOLIATION

BEDDING

JOINTING

ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

FOLIATION / BEDDING TREND

DRILL HOLE (COLLAR, END OF HOLE)

DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION); DASHED LINE INDICATES PROJECTED GEOLOGY PAST HORIZONTAL PLOT OF THE END OF THE DRILL HOLE.

SURVEY STATION

brx.	BRECCIA	Ag	ARSENOPYRITE	grn.	GREEN
lst.	LIMESTONE	Cpy	CHALCOPYRITE	gy.	GREY
m.s.	MASSIVE SULPHIDE	menag.	MENEGHINITE	lt.	LIGHT
phyll.	PHYLLITE	PbS	GALENA	h/w	HANGING WALL
qte.	QUARTZITE	Po	PYRRHOTITE	m.g.	MEDIUM-GRAINED
sch.	SCHIST	Py	PYRITE	sec.	SECONDARY
bi.	BIOTITE	ZnS	SPHALERITE	shrd	SHEARED
calc.	CALCAREOUS	abn.	ABUNDANT	str.	STRINGERS
carb.	CARBONATE	bndd.	BANDED	tr.	TRACE
chl.	CHLORITE	brn.	BROWN	xtals	CRYSTALS
dol.	DOLOMITE	c.g.	COARSE-GRAINED		
gr.	GRAPHITE	d.k.	DARK		
musc.	MUSCOVITE	f.g.	FINE-GRAINED		
qtz.	QUARTZ	fold.	FOLIATED		
ser.	SERICITE	foln.	FOLIATION		
sil.	SILICEOUS	f/w	FOOTWALL		
		f.f.	FRACTURE FILLING		
		frags	FRAGMENTS		

NOTE: DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION

10,015 N

10,000 N

10,230 E

10,245 E

10,260 E

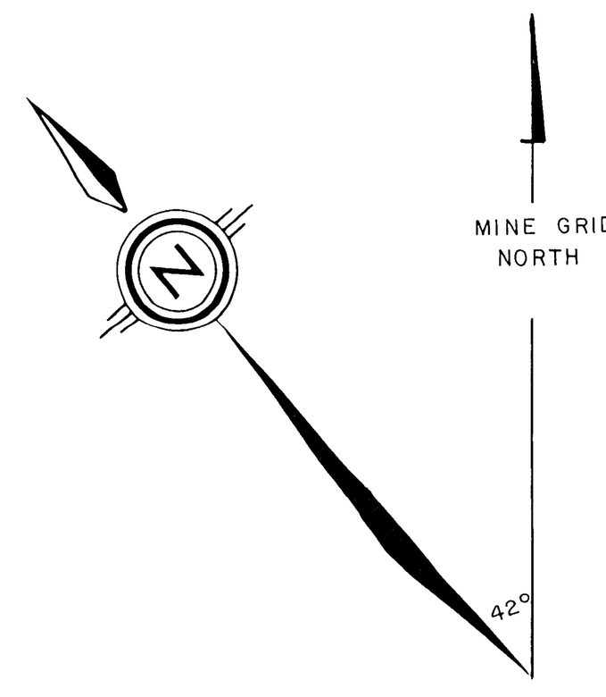
0 1 2 3 4 5 metres

Scale 1:50

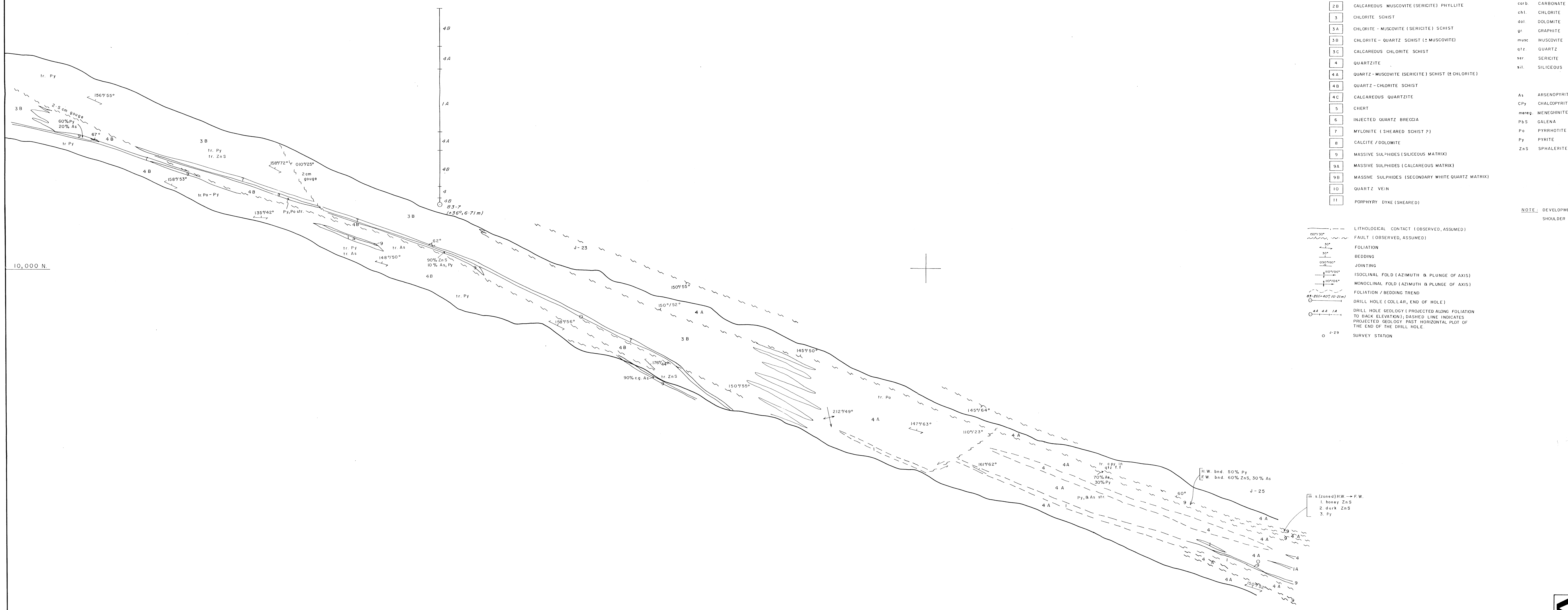
SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
PLAN 5C
GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
T.D. GARROW	AUG. 6, 19, 1983.	82 M/8E	12
TRACED BY J.S.	DATE OCT. 1983.		



10,290 E.
10,305 E.
10,320 E.
10,015 N.
10,000 N.
9,985 N.



LEGEND

0	GRAPHITE SHIST
0A	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED, ± GRAPHITE)
0B	CARBONACEOUS LIMESTONE (CARBONATE 'SWEAT OUTS', ± GRAPHITE)
0C	CARBONACEOUS CHERT (LIMESTONE, ± GRAPHITE)
1	LIMESTONE (GREY BANDED)
1A	LIMESTONE (SILICEOUS, BANDED)
2	MUSCOVITE (SERICITE) PHYLLITE
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE
3	CHLORITE SCHIST
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST
3B	CHLORITE - QUARTZ SCHIST (± MUSCOVITE)
3C	CALCAREOUS CHLORITE SCHIST
4	QUARTZITE
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)
4B	QUARTZ - CHLORITE SCHIST
4C	CALCAREOUS QUARTZITE
5	CHERT
6	INJECTED QUARTZ BRECCIA
7	MYLONITE (SHEARED SCHIST ?)
8	CALCITE / DOLOMITE
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)
10	QUARTZ VEIN
11	PORPHYRY DYKE (SHEARED)

brx.	BRECCIA
lst.	LIMESTONE
m.s.	MASSIVE SULPHIDE
phyll.	PHYLLITE
qte.	QUARTZITE
sch	SCHIST
bi.	BIOTITE
calc	CALCAREOUS
carb.	CARBONATE
chl.	CHLORITE
dol.	DOLOMITE
gr.	GRAPHITE
musc	MUSCOVITE
qtz.	QUARTZ
ser.	SERICITE
sil.	SILICEOUS
As	ARSENOPYRITE
CPy	CHALCOPYRITE
meneg.	MENEGHINITE
PbS	GALENA
Po	PYRRHOTITE
Py	PYRITE
ZnS	SPHALERITE

abn.	ABUNDANT
bndd.	BANDED
brn.	BROWN
c.g.	COARSE - GRAINED
d.k.	DARK
f.g.	FINE - GRAINED
fold.	FOLIATED
foln.	FOLIATION
f/w	FOOTWALL
f.f.	FRACTURE FILLING
frags.	FRAGMENTS
grn.	GREEN
gy.	GREY
lt.	LIGHT
h/w	HANGING WALL
m.g.	MEDIUM - GRAINED
sec.	SECONDARY
shrd	SHEARED
str.	STRINGERS
tr.	TRACE
xtals	CRYSTALS

NOTE: DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION

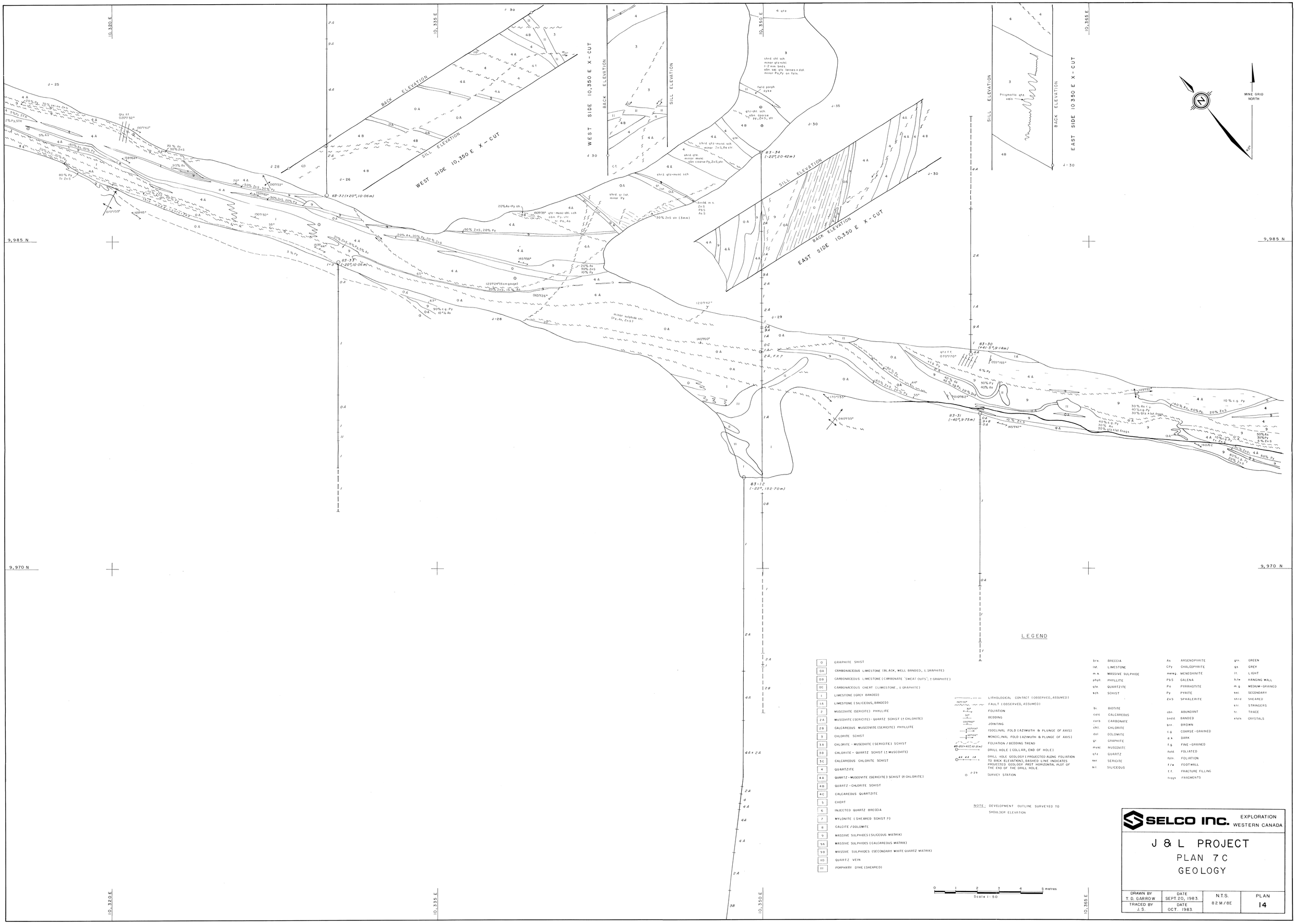
Symbol	Meaning
———, — —	LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)
150°/30°	FAULT (OBSERVED, ASSUMED)
30°	FOLIATION
30°	BEDDING
090°/60°	JOINTING
110°/06°	ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)
110°/06°	MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)
	FOLIATION / BEDDING TREND
83-20 (+40°, 10.21 m)	DRILL HOLE (COLLAR, END OF HOLE)
4A 4A 1A	DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION); DASHED LINE INDICATES PROJECTED GEOLOGY PAST HORIZONTAL PLOT OF THE END OF THE DRILL HOLE.
J-29	SURVEY STATION

0 1 2 3 4 5 metres
Scale 1:50

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
PLAN 6C
GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
T. D. GARROW	SEPT. 5, 1983	82 M/8E	13
TRACED BY J. S.	DATE OCT. 1983.		



LEGEND

0	GRAPHITE SHIST
0A	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED, ± GRAPHITE)
0B	CARBONACEOUS LIMESTONE ('CARBONATE 'SWEAT OUTS'; ± GRAPHITE)
0C	CARBONACEOUS CHERT (LIMESTONE, ± GRAPHITE)
1	LIMESTONE (GREY BANDED)
1A	LIMESTONE (SILICEOUS, BANDED)
2	MUSCOVITE (SERICITE) PHYLLITE
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE
3	CHLORITE SCHIST
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST
3B	CHLORITE - QUARTZ SCHIST (± MUSCOVITE)
3C	CALCAREOUS CHLORITE SCHIST
4	QUARTZITE
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)
4B	QUARTZ - CHLORITE SCHIST
4C	CALCAREOUS QUARTZITE
5	CHERT
6	INJECTED QUARTZ BRECCIA
7	MYLONITE (SHEARED SCHIST ?)
8	CALCITE / DOLOMITE
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)
10	QUARTZ VEIN
11	PORPHYRY DYKE (SHEARED)

LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)

FAULT (OBSERVED, ASSUMED)

FOLIATION

BEDDING

JOINTING

ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

FOLIATION / BEDDING TREND

DRILL HOLE (COLLAR, END OF HOLE)

DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION); DASHED LINE INDICATES PROJECTED GEOLOGY PAST HORIZONTAL PLOT OF THE END OF THE DRILL HOLE.

SURVEY STATION

brx.	BRECCIA
lst.	LIMESTONE
m.s.	MASSIVE SULPHIDE
phyll.	PHYLLITE
qte.	QUARTZITE
sch	SCHIST
bi.	BIOTITE
calc	CALCAREOUS
carb	CARBONATE
chl.	CHLORITE
dol.	DOLOMITE
gr.	GRAPHITE
musc	MUSCOVITE
qtz	QUARTZ
ser	SERICITE
sil.	SILICEOUS

As	ARSENOPYRITE
CPy	CHALCOPYRITE
maneg.	MENEGHINITE
PbS	GALENA
Po	PYRRHOTITE
Py	PYRITE
ZnS	SPHALERITE
abn.	ABUNDANT
bndd.	BANDED
brn.	BROWN
c.g.	COARSE-GRAINED
d.k	DARK
f.g.	FINE-GRAINED
fold.	FOLIATED
foln.	FOLIATION
f/w	FOOTWALL
f.f.	FRACTURE FILLING
frags	FRAGMENTS
grn.	GREEN
gy.	GREY
lt.	LIGHT
h/w	HANGING WALL
m.g.	MEDIUM-GRAINED
sec	SECONDARY
shrd	SHEARED
str.	STRINGERS
tr.	TRACE
xtals	CRYSTALS

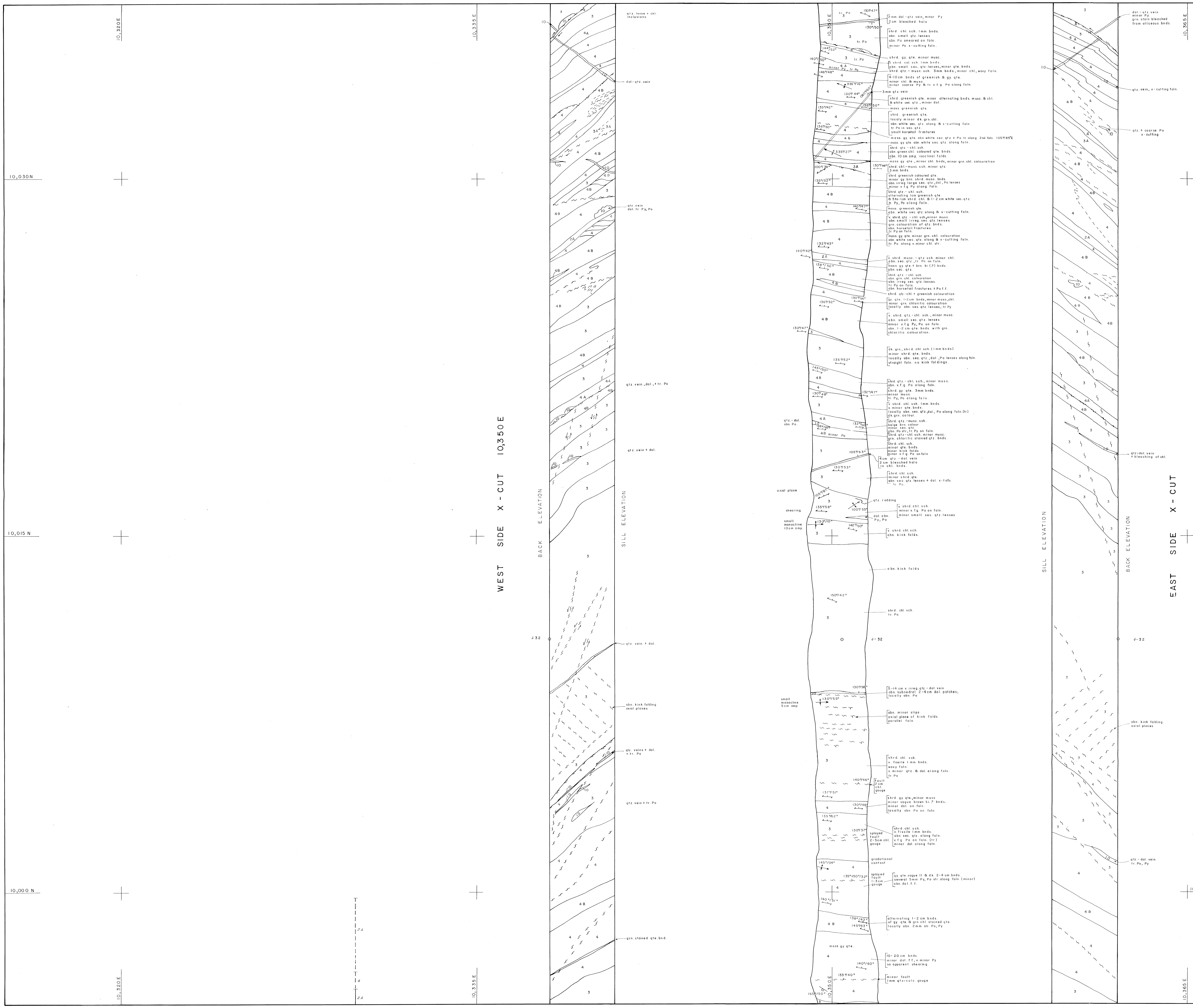
NOTE: DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION

0 1 2 3 4 5 metres
Scale 1:50

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
PLAN 7C
GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
T. D. GARROW	SEPT. 20, 1983.	82 M/8E	14
TRACED BY J. S.	DATE OCT. 1983.		



LEGEND

0	GRAPHITE SHIST
0A	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED; ± GRAPHITE)
0B	CARBONACEOUS LIMESTONE (CARBONATE 'SWEAT OUTS'; ± GRAPHITE)
0C	CARBONACEOUS CHERT (LIMESTONE; ± GRAPHITE)
1	LIMESTONE (GREY BANDED)
1A	LIMESTONE (SILICEOUS, BANDED)
2	MUSCOVITE (SERICITE) PHYLLITE
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE
3	CHLORITE SCHIST
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST
3B	CHLORITE - QUARTZ SCHIST (± MUSCOVITE)
3C	CALCAREOUS CHLORITE SCHIST
4	QUARTZITE
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)
4B	QUARTZ - CHLORITE SCHIST
4C	CALCAREOUS QUARTZITE
5	CHERT
6	INJECTED QUARTZ BRECCIA
7	MYLONITE (SHEARED SCHIST ?)
8	CALCITE / DOLOMITE
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)
10	QUARTZ VEIN
11	PORPHYRY DYKE (SHEARED)

LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)
150°/30° FAULT (OBSERVED, ASSUMED)
30° FOLIATION
30° BEDDING
090°/60° JOINTING
110°/06° ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)
110°/06° MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)
FOLIATION / BEDDING TREND
83-20 (+40°, 10.21m) DRILL HOLE (COLLAR, END OF HOLE)
4A 4A 1A DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION); DASHED LINE INDICATES PROJECTED GEOLOGY PAST HORIZONTAL PLOT OF THE END OF THE DRILL HOLE.
J-29 SURVEY STATION

brx.	BRECCIA	As	ARSENOPYRITE	grn.	GREEN
lst.	LIMESTONE	CPy	CHALCOPYRITE	gy.	GREY
m.s.	MASSIVE SULPHIDE	meneg.	MENEGHINITE	lt.	LIGHT
phyll.	PHYLLITE	PbS	GALENA	h/w	HANGING WALL
qte.	QUARTZITE	Po	PYRRHOTITE	m.g.	MEDIUM-GRAINED
sch.	SCHIST	Py	PYRITE	sec.	SECONDARY
		ZnS	SPHALERITE	shrd	SHEARED
bi.	BIOTITE			str.	STRINGERS
calc	CALCAREOUS	abn.	ABUNDANT	tr.	TRACE
carb.	CARBONATE	bndd.	BANDED	xtals	CRYSTALS
chl.	CHLORITE	brn.	BROWN		
dol.	DOLOMITE	c.g.	COARSE-GRAINED		
gr.	GRAPHITE	d.k.	DARK		
musc	MUSCOVITE	f.g.	FINE-GRAINED		
qtz.	QUARTZ	fold.	FOLIATED		
ser.	SERICITE	foln.	FOLIATION		
sil.	SILICEOUS	f/w	FOOTWALL		
		f.f.	FRACTURE FILLING		
		frags.	FRAGMENTS		

NOTE: DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION

0 1 2 3 4 5 metres

Scale 1 : 50

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
PLAN 7B
GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
T.D. GARROW	SEPT. 30, 1983.	82 M/8E	15
TRACED BY J.S.	DATE OCT. 1983.		

10,320 E | 10,335 E | 10,350 E | 10,365 E

10,075 N

10,060 N

10,045 N

MINE GRID NORTH

LEGEND

O	GRAPHITE SHIST	brx.	BRECCIA	abn	ABUNDANT
GA	CARBONACEOUS LIMESTONE (BLACK, WELL BANDED, ± GRAPHITE)	lst.	LIMESTONE	bnd.	BANDED
GB	CARBONACEOUS LIMESTONE (CARBONATE 'SWEAT OUTS', ± GRAPHITE)	m.s.	MASSIVE SULPHIDE	brn.	BROWN
GC	CARBONACEOUS CHERT (LIMESTONE, ± GRAPHITE)	phyll.	PHYLLITE	c.g.	COARSE-GRAINED
1	LIMESTONE (GREY BANDED)	qte.	QUARTZITE	d.k.	DARK
1A	LIMESTONE (SILICEOUS, BANDED)	sch.	SCHIST	f.g.	FINE-GRAINED
2	MUSCOVITE (SERICITE) PHYLLITE			fold.	FOLIATED
2A	MUSCOVITE (SERICITE) - QUARTZ SCHIST (± CHLORITE)	bi.	BIOTITE	foln.	FOLIATION
2B	CALCAREOUS MUSCOVITE (SERICITE) PHYLLITE	calc	CALCAREOUS	f/w	FOOTWALL
3	CHLORITE SCHIST	carb	CARBONATE	f.f.	FRACTURE FILLING
3A	CHLORITE - MUSCOVITE (SERICITE) SCHIST	chl.	CHLORITE	frags	FRAGMENTS
3B	CHLORITE - QUARTZ SCHIST (± MUSCOVITE)	dol.	DOLOMITE	grn.	GREEN
3C	CALCAREOUS CHLORITE SCHIST	gr.	GRAPHITE	gy.	GREY
4	QUARTZITE	musc	MUSCOVITE	lt.	LIGHT
4A	QUARTZ - MUSCOVITE (SERICITE) SCHIST (± CHLORITE)	qtz	QUARTZ	h/w	HANGING WALL
4B	QUARTZ - CHLORITE SCHIST	ser	SERICITE	m.g.	MEDIUM-GRAINED
4C	CALCAREOUS QUARTZITE	sil.	SILICEOUS	sec.	SECONDARY
5	CHERT			shrd	SHEARED
6	INJECTED QUARTZ BRECCIA			str.	STRINGERS
7	MYLONITE (SHEARED SCHIST ?)	As	ARSENOPYRITE	tr.	TRACE
8	CALCITE / DOLOMITE	CPy	CHALCOPYRITE	xtals	CRYSTALS
9	MASSIVE SULPHIDES (SILICEOUS MATRIX)	meneg.	MENEGHINITE		
9A	MASSIVE SULPHIDES (CALCAREOUS MATRIX)	PbS	GALENA		
9B	MASSIVE SULPHIDES (SECONDARY WHITE QUARTZ MATRIX)	Po	PYRRHOTITE		
10	QUARTZ VEIN	Py	PYRITE		
11	PORPHYRY DYKE (SHEARED)	ZnS	SPHALERITE		

NOTE: DEVELOPMENT OUTLINE SURVEYED TO SHOULDER ELEVATION

LITHOLOGICAL CONTACT (OBSERVED, ASSUMED)

FAULT (OBSERVED, ASSUMED)

FOLIATION

BEDDING

JOINTING

ISOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

MONOCLINAL FOLD (AZIMUTH & PLUNGE OF AXIS)

FOLIATION / BEDDING TREND

DRILL HOLE (COLLAR, END OF HOLE)

DRILL HOLE GEOLOGY (PROJECTED ALONG FOLIATION TO BACK ELEVATION); DASHED LINE INDICATES PROJECTED GEOLOGY PAST NONZONTAL PLOT OF THE END OF THE DRILL HOLE

SURVEY STATION

WEST SIDE 10,350 E X-CUT

SILL ELEVATION

BACK ELEVATION

J-36

shrd. chl. sch.
minor siliceous bnds. (1mm)
minor v.thin Py. bnds.
minor qtz. lenses + Po.

shrd (calc.) qtz - musc. sch. (1-2 mm bnds)
abn. v.fg. Py along foln. (tr.)

shrd. qtz - chl - musc sch.
dk.grn. colour bnds.
abn qtz lenses.
abn coarse Py, minor v.f.g. Po on foln.

alte, minor musc-chl
greenish colouration to qtz.
abn coarse Py, Po along & x-cutting foln.

shrd. qtz - musc. sch. 2mm bnds (60/140)
abn. coarse Py along foln.
brownish coloured bnds, ?

shrd. chl. sch - 2mm bnds.
abn Po smeared on foln. (minor x-cutting) (tr.)
abn. qtz. lenses.

qtz. dol. vein

EAST SIDE 10,350 E X-CUT

SILL ELEVATION

BACK ELEVATION

J-36

0 1 2 3 4 5 metres

Scale 1 : 50

SELCO INC. EXPLORATION WESTERN CANADA

J & L PROJECT
PLAN 7A
GEOLOGY

DRAWN BY	DATE	N.T.S.	PLAN
T.D. GARROW	OCT. 23, 1983.	82 M/8E	16
TRACED BY J. S.	DATE NOV. 1983.		