093A/07

821149

AMOCO CANADA PETROLEUM COMPANY LTD. - MINING DIVISION - DIAMOND DRILL HOLE RECORD

PROPERTY	FRASERGOLD	LATITUDE	L55 + 06E	STARTED	October 6th, 1983	DIP TEST					
HOLE NO.	FBC 83-2	DEPARTURE	2 + 76S	FINISHED	October 11th, 1983	Footage	Corrected	Footage	Corrected	Footage	Corrected
BEARING	Az: 045°	ELEVATION	5,110 ft. (1,557.5 M)	LENGTH	1,057 ft. (322.2 M)	61 M	-47°	243.8	-45°		
DIP-COLLAR	-50°	SECTION		LOGGED BY	P. Brown	122 M	-45°	304.8	-45°		
						182.9 M	-45°				

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
0	15.2	CASING:	
15.2	40.0M	Black Knotted Phyllite (15-30% knots) with Minor Interbedded Black Banded Phyllite and 1-2 CM. Sections of Siliceous Sediment to Chert The knots vary from 15-30%, and in size from 2-7 mm. and in shape from lenslike to rounded. A few are irregularly shaped. About 20% of the knots in the first 6 m have moderate to strong limonite weathering. From 15.2 - 33 m., the sulphide content of the phyllite is low, 0.1 - 0.2%. Down to 27 m. most of the quartz veins present have strong limonite associated. From 15.2 m. to 33 m., there is 1.72 m of quartz veining. Veins vary in size from ∠ 2 cm. to 10-15 cm. Veins appear to be parallel to foliation. The vein system intersected about 100 m. down hole in FBC 83-1, was expected to be intersected in the interval 20-40 m. in FBC 83-2. The vein which the zone intersected in FBC 83-1 was not recognized in FBC 83-2. However, between 15.2 and 38.4 m, there is a good quartz vein system present in FBC 83-2. Foliation in the phyllite is moderate to strong and is ≈ 70° to C.A. Carbonaceous development is strongest adjacent to some of the quartz veins, while the majority of the phyllite is only weakly altered. Strong crenulations in the phyllite isn't noted to 102 m. At 22.5 m 65 cm. unit of banded phyllite, with banding at 75° to C.A. Unit is moderately limonitic. In the first 15 m, many of the quartz veins are vuggy. Maybe Py has been weathered out of the quartz. The quartz veins have strong limonite and minor pyrite associated down to ≈ 27 m. 5-20% quartz carbonate is noted in the quartz veins. No Po is noted until 36.5 m. Moderate sericite development is noted in most of the quartz veins throughout this section. 18.0 m Limonitic 15 cm. qtz. vein 70° to C.A. 18.5 m Limonitic 8 cm. qtz. vein with a 1 cm. radiating growth of pale green Actinolite.	15.2 - only 0.1 - 0.2% Po,Py in the Phyllite.

SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au(oz/t)	Metallic Au(oz/t)		RQD
W1718	15.2	16.7		.001			
W1719	16.7	18.0		.001			31
W1720	18.0	19.5		.001			
W1721	19.5	21.0		.001			53
W1722	21.0	22.5		.001			
W1723	22.5	24.0		.001			46
W1724	24.0	25.5		.001			
W1725	25.5	27.0		.001			49
W1726	27.0	28.5		.001			
W1727	28.5	30.0		.001			74
W1728	30.0	31.5		.001			
W1729	31.5	33.0		.001			76
W1730	33.0	34.5		.002	.001		
W1731	34.5	36.0		.001	.021		65
W1732	36.0	37.5		.001	.003		
W1733	37.5	39.0		.001	.001		73
W1734	39.0	40.5		.001			
W1735	40.5	42.0		.001			98
W1736	42.0	43.5		.001			
W1737	43.5	45.0		.001			100
W1738	45.0	46.5		.001			
W1739	46.5	48.0		.001			81
W1740	48.0	49.5		.001			
W1741	49.5	51.0		.001			41
W1742	51.0	52.5		.001			
W1743	52.5	54.0		.009			52
W1744	54.0	55.5		.002			
W1745	55.5	57.0		.001			78
W1746	57.0	58.5		.001			
W1747	58.5	60.0		.001	.001		90
W1748	60.0	61.5		.001	.002		
W1749	61.5	63.0		.195	.130		74
W1750	63.0	64.5		.010	.005		
W1751	64.5	66.0		.072	.015		98
W1752	66.0	67.5		.010	.012		
W1753	67.5	69.0		.001	.003		68
W1754	69.0	70.5		.008	.005		

A.C.P.C.L. - MINING DIVISION - D.D.H. RECORD

PROPERTY Frasergold HOLE No. FBC 83-2 Page 2

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization
15.2	140.0 M	CONT'D.	
		23.3 M 15 cm. broken quartz vein 40° to C.A. and parallel to foliation. Strong limonitic in vein selvage.	
		24.5 M 14 cm. quartz vein 75° to C.A. 10-20% quartz carbonate and trace Py in vein.	
		25.1 M Two parallel 10 cm. quartz veins with quartz carbonate and minor Py. Veins are at 60° to C.A. and parallel to foliation.	
		27.5 M 9 cm. quartz vein 80° to C.A. and parallel to foliation. Limonite is present in vein selvage.	
		29.85-30.15 M 60% quartz parallel to foliation. Tr. Py and minor quartz carbonate and trace chlorite in vein.	
		From 33-140 M, Black knotted phyllite with a variable knot content 15-30% with short interbedded bands of light grey siliceous sediment to chert. The interbedded bands are usually < 1 cm. in width. Bedding is 80°-85° to C.A. while foliation is usually between 70°-90° to C.A. Over short intervals, usually adjacent to quartz veining, foliation can be at any angle to the C.A.	
		Short sections adjacent to some of the quartz veins are strongly carbonaceous with any knots present being destroyed. (It is possible that the knots were formed after the carbonaceous development, thus making the rock adjacent to some of the quartz veins too soft to produce knots).	
		33.0 - 38.4 M 1.24 M (23% quartz) of quartz veining.	
		34.6 M 4 cm. quartz vein 80° to C.A. 50% quartz carbonate and trace Py and 5-10% chlorite in the vein and vein selvage.	
		35.0 M 22 cm. quartz vein parallel to foliation about 80° to C.A. Trace pyrite and quartz carbonate in vein and trace chlorite.	
		35.65M Quartz vein down C.A. for 11 cm. Vein is parallel to foliation. Trace sulphides in vein.	
		36.0 M 11 cm. quartz vein parallel to foliation. Vein has trace Py and 10-20% chlorite in vein.	
		36.5 M 14 cm. quartz vein parallel to foliation, ≈ 80° to C.A. 20% quartz carbonate and trace Py & Po in vein.	
		38.05 M 25-30 cm. quartz vein 30% to C.A. and parallel to foliation. Vein has 15-20% quartz carbonate and trace Po, Py.	
		From 38.4-46.2 M. there is no quartz veining. 40.0-40.5 M Interbedded on a 1-5 mm. scale, siliceous sediments and Black Knotted Phyllite.	

SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au(oz/t)	Metallics Au(oz/t)	*	RQD
W1755	70.5	72.0		.001	.002		61
W1756	72.0	73.5		.001			
W1757	73.5	75.0		.002			75
W1758	75.0	76.5		.001			
W1759	76.5	78.0		.001			97
W1760	78.0	79.5		.001			
W1761	79.5	81.0		.001			30
W1762	81.0	82.5		.001			
W1763	82.5	84.0		.001			33
W1764	84.0	85.5		.001			
W1765	85.5	87.0		.001			13
W1766	87.0	88.5		.008			
W1767	88.5	90.0		.002			68
W1768	90.0	91.5		.001			
W1769	91.5	93.0		.001			84
W1770	93.0	94.5		.001			
W1771	94.5	96.0		.001			83
W1772	96.0	97.5		.001			
W1773	97.5	99.0		.001			100
W1774	99.0	100.5		.001			
W1775	100.5	102.0		.001			99
W1776	102.0	103.5		.001			
W1777	103.5	105.0		.009	.004		97
W1778	105.0	106.5		.002	.005		
W1779	106.5	108.0		.001	.003		100
W1780	108.0	109.5		.011	.004		
W1781	109.5	111.0		.025	.031		100
W1782	111.0	112.5		.060	---	.125	
W1783	112.5	114.0		.265	---	.224	69
W1784	114.0	115.5		.060	---	.026	
W1785	115.5	117.0		.009	.005		30
W1786	117.0	118.5		.001	.002		
W1787	118.5	120.0		.001	.001		90
W1788	120.0	121.5		.001	.001		
W1789	121.5	123.0		.001	.001		100
W1790	123.0	124.5		.001	.003		
W1791	124.5	126.0		.001	.003		100
W1792	126.0	127.5		.001	.002		
W1793	127.5	129.0		.020	.011		100
W1794	129.0	130.5		.051	---	.070	
W1795	130.5	132.0		.010	.005		100
W1796	132.0	133.5		.001	.002		
W1797	133.5	135.0		.002	.001		83
W1798	135.0	136.5		.001	.002		
W1799	136.5	138.0		.030	---	.035	91
W1800	138.0	139.5		.007	.010		
W1801	139.5	141.0		.019	.025		98
W1802	141.0	142.5		.001	.002		
W1803	142.5	144.0		.027	---	.030	100
W1804	144.0	145.5		.029	---	.045	
W1805	145.5	147.0		.029	.033		99
W1806	147.0	148.5		.007	.006		

*Assayers Ltd. Results

0.018

0.028(4.5)

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Au(oz/t)	ASSAYS Au(g/t)	ASSAYS	RQD
5.2	140.0 M	CONT'D		W1807	148.5	150.0		.001	.001		67
				W1808	150.0	151.5		.001	.002		
		Oxidation of knots stops (excepted for a few isolated locations) at 34 M.		W1809	151.5	153.0		.001	.001		72
		Even at this depth, the oxidation is adjacent to fractures, and doesn't		W1810	153.0	154.5		.001	.001		
		penetrate very far into the rock.		W1811	154.5	156.0		.001	.003		75
				W1812	156.0	157.5		.010	.016		
		Throughout this entire section to 140.0 M, sericite is noted in the		W1813	157.5	159.0		.004	.011		79
		majority of the quartz veins and in vein selvages.		W1814	159.0	160.5		.022	.012		
				W1815	160.5	162.0		.002	.010		98
		From 46.2 - 91.1 M, there is a moderate quartz vein system developed with		W1816	162.0	163.5		.001	.008		
		9.3% of this interval being quartz. Veining is relatively evenly distri-		W1817	163.5	165.0		.012	.011		69
		buted throughout. Many of the veins are <5 cm. in width with a few		W1818	165.0	166.5		.008	.010		
		10-20 cm. wide veins interspersed. Most of the quartz veining doesn't		W1819	166.5	168.0		.001	.002		86
		have abundant sulphides (Py,Po) associated. They do have 5-20% quartz		W1820	168.0	169.5		.001	.007		
		carbonate blebs. Most of the veins aren't deformed, however, a few are		W1821	169.5	171.0		.030	.013		59
		strongly folded.		W1822	171.0	172.5		.001	.001		
				W1823	172.5	174.0		.001			88
		48.85 M 5 cm. quartz vein 75° to C.A. Trace Po and 3-5% quartz carbonate		W1824	174.0	175.5		.003			
		in vein.		W1825	175.5	177.0		.002			100
				W1826	177.0	178.5		.002			
		51.1 - 52.2 M Mainly fine-grained Black Phyllite, not knotted. Unit has		W1827	178.5	180.0		.002			100
		narrow <1 to 2 cm. bands of Py, Po parallel to foliation. At 52.15 M		W1828	180.0	181.5		.001			
		3 cm. band of siliceous sediment at 90° to C.A.		W1829	181.5	183.0		.001			62
				W1830	183.0	184.5		.001			
		51.45 M 15 cm. quartz vein 75° to C.A. with 15-20% quartz carbonate in		W1831	184.5	186.0		.001			61
		vein selvage. There is only trace Po,Py associated.		W1832	186.0	187.5		.008			
				W1833	187.5	189.0		.001			30
		From 53 M, there appears to be a general improvement in the amount of		W1834	189.0	190.5		.001			
		Py and Po associated with the quartz veining.		W1835	190.5	192.0		.002			76
				W1836	192.0	193.5		.001			
		At 56 M, the amount of sulphides within the phyllite is still low		W1837	193.5	195.0		.001			72
		≈0.2% or less.		W1838	195.0	196.5		.001			
				W1839	196.5	198.0		.001			100
		58.3 M, 17 cm. quartz vein with 30% phyllite stringers in vein. Vein has		W1840	198.0	199.5		.001			
		5% Po, Py and several specks of Cpy. 5% quartz carbonate in vein. Vein		W1841	199.5	201.0		.002			100
		is parallel to foliation which is at 75° - 80° to C.A.		W1842	201.0	202.5		.001			
				W1843	202.5	204.0		.001			41
		61.8 M, 70 cm. quartz vein with ≈25% phyllite fragments in the vein.		W1844	204.0	205.5		.001	.001		
		Minor Py and Po and 3-5% quartz carbonate in vein.		W1845	205.5	207.0		.001	.001		27
				W1846	207.0	208.5		.001	.004		
		63.0 - 64.4 Mainly Black Phyllite. Banded.		W1847	208.5	210.0		.038	.026		44
				W1848	210.0	211.5		.002	.002		
		65.4 M, 14 cm. quartz vein ≈70° to C.A. with trace Po, Py and 2-3%		W1849	211.5	213.0		.001	.005		42
		quartz carbonate.		W1850	213.0	214.5		.001			
				W1851	214.5	216.0		.001			46
		68.5 M, 15 cm. quartz vein 65° to C.A. Trace Po, Py in vein.		W1852	216.0	217.5		.001			
		69.8 M, 12 cm. quartz vein 55° to C.A. 5% quartz carbonate in vein.		W1853	217.5	219.0		.001			48
		73.9 M, 70 cm. quartz vein. Vein is at 30° to C.A. and subparallel to		W1854	219.0	220.5		.006			
		foliation. 2-3% quartz carbonate in vein selvage and trace Py, Po.		W1855	220.5	222.0		.001			62
				W1856	222.0	223.5		.008	.005		
		77.25 M, 14 cm. quartz vein. UC is 80° to C.A. LC is 30° to C.A.		W1857	223.5	225.0		.011	.010		86
		Vein has 25% phyllite fragments and 10% chlorite with 5-10% Py, Po		W1858	225.0	226.5		.008	.008		
		in vein.									

C.P.C.L. - MINING DIVISION - D.D.H. RECORD

PROPERTY Frasergold HOLE NO. FBC 83-2 Page 4

FOOTAGE From	FOOTAGE To	DESCRIPTION
15.2	140.0 M	CONT'D:
		78.25 - 79.7 M Fine-grained Black Banded Phyllite.
		80.65 M strongly folded 5-10 mm. quartz vein. Folding is on a 10 cm. wavelength. There is Po.Py and several specks of Cpy in vein.
		83.6 M. Broken 30 cm. quartz vein with 20% phyllite fragments and 5% chlorite. Vein also has 5% quartz carbonate and trace Py. Po.
		84.0 - 87.2 No quartz veining.
		89.1 M 4 cm. quartz vein 65° to C.A. and parallel to foliation. 10% quartz carbonate and 2-5% Py and Po in vein.
		89.2 M 6 cm. quartz vein 70° to C.A. 5% quartz carbonate and minor Py and Po in vein.
		89.5 M 14 cm. quartz vein 35° to C.A. 20% quartz carbonate and 2-3% Py in vein.
		90.2 M Two quartz veins - one is 7 cm. and at 60° to C.A. and sub-parallel to foliation. Vein has 1-2% Py and Po. The other is separated by 2 cm. of phyllite and is irregular in shape. Vein has 5-10% quartz carbonate and 2-5% Py and Po.
		90.75 M 10 cm. quartz vein 30° to C.A. and parallel to foliation. Vein has minor Py,Po and 3-5% chlorite.
		91.1 M 2 cm. quartz vein 85° to C.A. Tr. Py and Po.
		91.1-100.4 M Only one quartz vein and it is located at 96.3 M. 11 cm. quartz vein at 80° to C.A. Trace sulphides in vein.
		100.4-101.7 M 46 cm. of quartz veining (35%)
		100.4 M 27 cm. quartz vein 90° to C.A. 5% quartz carbonate and trace Py and Po and a few specks of Cpy in vein.
		101.5 M 19 cm. quartz vein 75-80° to C.A. Vein has 30% phyllite fragments; trace Py, Po and minor quartz carbonate.
		101.7-111.45 M (3% quartz veining) 28 cm. of quartz.
		101.7 M - 111.45 M 28 cm. or 2.9% quartz veining.
		102.85 M 7 cm. quartz vein 75° to C.A. Vein is parallel to foliation. Minor quartz carbonate and trace Po, Py in vein.
		103.05 M 3-5 cm. quartz vein 50° to C.A. and subparallel to foliation. Moderate Po, Py and 5-10% quartz carbonate in vein.
		103.8 M, 8 cm. quartz vein 75° to C.A. Trace Po, Py and Sphalerite in vein, with 5% quartz carbonate.
		From 104.55 M - 110.45 M No quartz veining.
		110.45 M 8 cm. quartz vein 75° - 80° to C.A. and parallel to foliation. 5% quartz carbonate and minor Po in vein.

% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	Length	ASSAYS Metallic Au(oz/t)	Metallic Au(oz/t)	*	ROD
	W1859	226.5	228.0		.010	.012		95
	W1860	228.0	229.5		.038	.017		
	W1861	229.5	231.0		.005	.006		75
	W1862	231.0	232.5		.002	.007		
	W1863	232.5	234.0		.001	.001		53
	W1864	234.0	235.5		.008	.005		
	W1865	235.5	237.0		.001	.005		81
	W1866	237.0	238.5		.130	---	0.112	
	W1867	238.5	240.0		.005	.001		72
	W1868	240.0	241.5		.001	.001		
	W1869	241.5	243.0		.003	.003		59
	W1870	243.0	244.5		.001	.001		
	W1871	244.5	246.0		.001	.001		58
	W1872	246.0	247.5		.001	.001		
	W1873	247.5	249.0		.001	.003		63
	W1874	249.0	250.5		.001	.002		
	W1875	250.5	252.0		.003	.010		82
	W1876	252.0	253.5		.001	.005		
	W1877	253.5	255.0		.001	.012		100
	W1878	255.0	256.5		.056	---	0.042	
	W1879	256.5	258.0		.025	.010		88
	W1880	258.0	259.5		.016	.015		
	W1881	259.5	261.0		.001	.001		98
	W1882	261.0	262.5		.002	.001		
	W1883	262.5	264.0		.045	.052		97
	W1884	264.0	265.5		.107	.061		
	W1885	265.5	267.0		.009	.005		67
	W1886	267.0	268.5		.001	.001		
	W1887	268.5	270.0		.001	.001		85
	W1888	270.0	271.5		.002	.001		
	W1889	271.5	273.0		.001	.001		98
	W1890	273.0	274.5		.001	.001		
	W1891	274.5	276.0		.001	.001		93
	W1892	276.0	277.5		.001	.001		
	W1893	277.5	279.0		.001	.001		88
	W1894	279.0	280.5		.001	.001		
	W1895	280.5	282.0		.001	.001		97
	W1896	282.0	283.5		.001	.001		
	W1897	283.5	285.0		.001	.001		76
	W1898	285.0	286.5		.003	.001		
	W1899	286.5	288.0		.002	.001		86
	W1900	288.0	289.5		.001	.001		
	W1901	289.5	291.0		.001	.001		71
	W1902	291.0	292.5		.001	.001		
	W1903	292.5	294.0		.001	.001		16
	W1904	294.0	295.5		.001	.001		
	W1905	295.5	297.0		.001	.001		57
	W1906	297.0	298.5		.001	.001		
	W1907	298.5	300.0		.001	.001		26
	W1908	300.0	301.5		.002	.001		
	W1909	301.5	303.0		.002	.001		59

*Assayers Limited Results

0.024

0.020

C.P.C.L. - MINING DIVISION - D.D.H. RECORD

PROPERTY Fraserguld HOLE NO. FBC 83-2 Page 5

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE (Meters) From	To	Length	ASSAYS Au(oz/t)	Metallic Au(83)		RQD
15.2	140.0 M	Cont'd:		W1910	303	304.5		.001	.001		
				W1911	304.5	306		.001			38
		110.6 M -- 3 cm qtz vein 65° to C.A. Vein cuts foliation which is at 80°		W1912	306	307.5		.001			
		to C.A. Vein has 5 - 10% Po. and trace Py.		W1913	307.5	309		.002			56
				W1914	309	310.5		.001			
		111.5 - 114.4 M -- qtz vein. Upper contact irregular but parallel to		W1915	310.5	312		.003			39
		foliation. Lower contact 80° to C.A. Vein has 10-15% phyllite inclusions.		W1916	312	313.5		.001			
		There is about 10% qtz carbonate occurring as patches in the vein. The		W1917	313.5	315		.002			11
		matrix to the qtz carbonate is at times Po. Py. There is 5-15% Po and Py in		W1918	315	316.5		.001			
		the vein and trace Cpy.		W1919	316.5	318		.001			46
				W1920	318	319.5		.001			
		This vein has at least 10 specks of V.G. This vein doesn't look like the	111.5 - 114.4 M V.G.	W1921	319.5	321		.002			4
		vein with visible gold intersected at 106.90 M in FBC 83-1.	4 - 5 locations in the	W1922	321	322.2		.001			0
			2.9 meter interval.								
		The vein has strong carbonaceous alteration developed adjacent to the vein.									
		The V.G. occurs at several locations in the vein.									
		115.2 M -- Broken 35 cm qtz vein with minor qtz carbonate and trace Po, Py.									
		Very strong carbonaceous alteration adjacent to vein for 30-80 cm either									
		side of vein.									
		From 118.0 - 137.75 M there is only trace qtz veining in the knotted									
		phyllite. Only 0.80% of the core is qtz.									
		118.3 M -- 30 cm of knotted phyllite with several 5 mm wide crenulated									
		chert bands, separated by 1 - 2 cm wide bands of knotted phyllite.									
		127.6 M -- 9 cm qtz vein 75° to C.A. and parallel to foliation. 20% qtz									
		carbonate and minor Py, Po and trace Cpy and a few specks of a soft silver									
		coloured mineral in vein.									
		From 115.2 - 140.0 M -- Scattered throughout this section are a number of									
		narrow ≤2 cm wide bands of siliceous sediment to chert. Total content in									
		core is ≈ 2%.									
		137.75M -- 8 cm qtz vein 80° to C.A. and parallel to foliation. 30% qtz									
		carbonate and 20% Po, Py and trace Cpy in vein.									
		137.95 M -- 2 cm qtz vein 45° to C.A. Vein cuts foliation. 50-70% of vein is									
		qtz carbonate and 20% Po, Py with trace Cpy. Vein cuts a 2 cm qtz vein at									
		45° to C.A. and at 80°-90° to vein above. Vein has minor sulphides associ-									
		ated. Vein has strong qtz carbonate and 3-5% Po, Py in vein selvage.									
		To 140 M from 15.2M -- Except for short 1 - 2 meter sections or less there									
		is only 0.2% Po, Py in the Phyllite.									
0.0	140.3 M	F/g Light Gray Siliceous Sediment to Chert									
		Bedding when preserved is at 80° to C.A. Upper and lower contacts are									
		sharp. There isn't any qtz veining in this section and only 0.1% dis-									
		seminated and stringer sulphides. This unit may correlate with a quite									
		similar unit intersected in FBC 83-1 at 196.2-196.4 M.									

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FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
140.3	148.8 M	Black Knotted Phyllite -- 30% Knots						
		The knots vary in size from 3-6 mm. Foliation is well developed at 80° to C.A. This section has 87 cm of qtz (10%). The vast majority of this veining is in the interval 144.3-146.5 M. Within this 2.2 M there is very strong carbonaceous alteration.						
		At 144.3 M -- 2 cm qtz vein 70° to C.A. with 5% qtz carbonate, 5% Py, Po and 3 specks of V.G.	144.3 M V.G.					
		145.0 M -- 5 cm qtz vein 65° to C.A. and subparallel to foliation. 5 - 10% qtz carbonate, and 5% Py, Po in vein and vein selvage.						
		146.0 M -- 40 cm qtz vein 80° to C.A. 10% phyllite inclusions in vein. There is 5% qtz carbonate and minor Py and Po in vein.						
148.8	211.6 M	Interbedded Black Knotted Phyllite 10-30% Knots with short 10-50 cm Units of F/g Light to Dark Gray Siliceous Sediments.						
		Foliation is generally at 70°-90° to the C.A. In places the foliation has been folded and then crenulated. Folding is on a 1 meter scale and crenulations are on a 1 cm scale. This unit may correlate with a similar unit in FBC 83-1 (196.4-220.45 M).						
		This section has a variable qtz vein system developed. 148.8 - 174.0 M -- 1.86 M of qtz veining (7.3% qtz). 174.0 - 203.3 M -- 59 cm of qtz veining (2% qtz). 203.3 - 211.6 M -- 1.10 meters of qtz veining (13.3% qtz). Within each zone veins are fairly evenly distributed, however the middle zone has sections void of qtz veining. Most of the qtz veining is parallel to or subparallel to foliation. At times foliation curves around a vein, indicating the vein has been folded. Veins have a moderate to well developed carbonaceous selvage. Elsewhere there is only a weak carbonaceous development.						
		A general statement of crenulations is: They are better developed where the foliation has been folded. Where the foliation is 70°-90° to C.A. there usually isn't any crenulations developed. However foliation can change from 70°-90° to C.A. to 10°-30° to C.A. in an interval of a few centimeters.						
		Bedding rather than foliation is preserved in the more siliceous units. Bedding is usually ≥75° to C.A.						
		Noted throughout this section is a moderate to strong sericite development associated with the qtz veining.						
		152.2 - 152.5 M -- Folded and crenulated knotted phyllite with 1 - 6 mm bands of siliceous sediment. Throughout this section the Py and Po content in the phyllite is < 0.5%.						
		In just about all the qtz veins there is a moderate sericite development, within the veins and vein selvages. Qtz carbonate is usually present as is						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS			
148.4	211.6 M	Cont'd:									
		Py, Po. A few veins have trace amounts of Cpy.									
		150.75 M -- 14 cm qtz vein 60° to C.A. and parallel to foliation. 5% qtz carbonate and 2-3% Py and Po in vein.									
		150.95 M -- 11 cm qtz vein 50° to C.A. and parallel to foliation. 5-10% qtz carbonate and 2-3% Py and Po.									
		152.5 M -- 8 cm qtz vein upper contact 50° to C.A. Lower contact 80° to C.A. 10-20% qtz carbonate with minor Py and Po in vein and selvage.									
		154.9 M -- Strongly folded 1 cm qtz vein. Fold axis 70° to C.A. Abundant qtz carbonate and trace Po in vein.									
		156.0 - 156.3 M -- Light to medium gray siliceous sediment 85° to C.A.									
		157.9 M -- 25 cm of F/g dark gray siliceous sediment. Upper contact undulating out ≈ 90° to C.A.									
		159.0 M - 159.4 M -- Light gray siliceous sediment. This 40 cm section has abundant (25-40%) < 2 mm fragments? crystals? of altered feldspar? The grains have irregular outlines due to alteration. The rock is very siliceous. Lower contact is sharp at 70° to C.A. An irregular 1-2 cm qtz vein in this section cuts bedding and is at 40° to C.A. Minor qtz carbonate and Po in vein.									
		~~161.7 - 162.2 M -- Folding on a 30 cm scale. Fold is weakly crenulated.~~									
		From 160.9 - 163.75 M -- ≈30-40% of section is F/g light gray bedded siliceous sediment interbedded with the black knotted phyllite. Siliceous units are < 1 cm to 10 cm. Bedding is at 85°-90° to C.A.									
		162.6 M -- 5 cm qtz vein 70° to C.A. 5% qtz carbonate and minor Po, Py in vein.									
		165.25 M -- 10 cm qtz vein 50° to C.A. Trace qtz carbonate, Po, Py in vein. (in center of vein).									
		From 160 M there is an increase in Py and Po which occurs as blebs, stringers and folded bands in the K.P. and siliceous sediment.									
		From 160 - 191.0 M total suphide content is 1-3%.									
		166.7 - 171.4 M -- ≈30-40% F/g light gray to dark gray siliceous sediment interbedded with the knotted Phyllite. Bedding is well preserved and is 80°-90° to C.A.									
		166.1 M -- 10 cm qtz vein 70° to C.A. Trace Po, Py and 3-5% qtz carbonate in vein.									
		166.3 and 166.5 M -- Folded 1-3 cm qtz vein. These two veins are probably									

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
148.8	211.6	Cont'd:						
		the same one, and is folded into and out of the core. Veins are parallel to folding and appear to cut an earlier foliation. Vein has 2-3% qtz carbonate and minor Py and Po and trace Cpy. 1 speck of light brown sphalerite and 2 specks of galena are noted. Vein has strong carbonaceous selvages.						
		169.2 M -- 4 cm qtz vein 80° to C.A. Trace qtz carbonate and Py and Po in vein.						
		171.25 M -- 6 cm qtz vein 70° to C.A. Minor Py and Po in vein.						
		171.4 - 186.9 M -- Knotted phyllite with only trace siliceous phyllite.						
		172.0 M -- 11 cm qtz vein 80° to C.A. Minor qtz carbonate and sulphides in vein.						
		172.6 M -- 30 cm qtz vein 75° to C.A. 10% Phyllite inclusions in vein. 3-5% qtz carbonate and minor Po, Py.						
		173.05 M - 7cm qtz vein irregular contact ≈80° to C.A. vein has 20% phyllite, 50% qtz carbonate and 5-7% pyrite.						
		173.5 M -- 5-10% Po and Py for a 15 cm interval.						
		173.85 M -- 10 cm qtz vein with irregular boundaries with 10-15% qtz carbonate and 5-7% Py and Po.						
		173.95 - 179.4 M -- No qtz veining.						
		179.4 M -- 15 cm qtz vein 85° to C.A. 5% qtz carbonate and 3-5% pyrite in vein. Vein is parallel to foliation.						
		176.9 - 183.25 M -- interbedded black banded phyllite and light to dark gray siliceous sediment. Bedding is well preserved at 85°-90° to C.A. Qtz veining is quite weak. The siliceous units are up to 50 cm in width.						
		182.65 M -- Several 2-5 mm qtz veins and bands of siliceous sediment tightly folded in a recumbent fold, on a 5 cm scale. 15 cm either side of fold foliation is 75°-80° to C.A.						
		183.25 - 190.4 M --Black knotted phyllite, with minor interbedded black banded phyllite and light gray siliceous sediment. Short < 1 to 2 M sections are strongly carbonaceous. The phyllite still has 2-3% Po, Py as blebs and stringers parallel to foliation. The sulphide stringers are folded when the foliation is folded. At times these secondary folds are crenulated. Bedding where preserved is still ≈80° to C.A.						
		186.25 M -- 6 cm qtz vein 50°-70° to C.A. and parallel to foliation. 5% qtz carbonate and 5-7% Py and lesser Po in vein.						
		191.0 - 202.5 M -- There appears to be a decrease in the sulphide content to < 1%.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
148.8	211.6 M	Cont'd:						
		189.5 M -- 3 cm qtz vein parallel to foliation at 60° to C.A. Minor Po, Py and qtz carbonate in vein.						
		190.2 M -- 2-3 cm qtz vein 90° to C.A. 20% qtz carbonate and minor sulphides in vein selvage.						
		191.1 M -- 4 cm qtz vein 80° to C.A. Trace sulphides and qtz carbonate in vein.						
		190.4 M - 202.5 M -- Black knotted phyllite, with short < 10 cm sections of light gray siliceous phyllite.						
		194.75 M -- 2-5 cm qtz vein (folded ?) and parallel to foliation. 20% qtz carbonate and 2-3% Py and Po in vein.						
		194.6 M -- Folded and crenulated siliceous sediment in knotted phyllite. The siliceous sediment is usually in < 1 cm wide bands.						
		202.5 - 211.6 -- Interbedded black banded phyllite with knotted phyllite and trace siliceous sediment.						
		From 202.5 - 211.6 M there is an increase in sulphide content in the phyllite to 2-3%.						
		From 203.3 M the amount of qtz veining has improved.						
		202.5 M -- 10 cm gouge zone at 70° to C.A. and parallel to foliation.						
		From 202.5 M to 211.6 M the phyllite is strongly carbonaceous.						
		203.3 M -- 10-20 cm qtz vein folded. Vein has 20-30% qtz carbonate and 10-15% Po and Py.						
		204.6 - 205.8 M -- One or more qtz veins folded and down C.A. It is possible it is one vein folded into and out of the core. There is strong carbonaceous development adjacent to the vein. 70 cm of the 1.2 M is qtz. The remainder is phyllite. Vein has 10-20% qtz carbonate mainly in selvage. Vein has 5-10% Po, Py. There is also strong sericite development in vein.						
		206.0 - 206.3 M -- Broken core ≈ 90% recovery.						
		211.2 M -- 3 cm gouge. Strongly carbonaceous and adjacent to a quartz vein.	148.8 - 211.6 M up to 2-3% Py & Po in Phyllite.					
		208.25 M - 12 cm qtz vein 60° to core axis and parallel to foliation. 5-10% qtz carbonate and 5% Py and Po in vein.						
		208.9 M -- Irregular 3 cm-6 cm qtz vein 50° to C.A. and parallel to foliation. Vein has 20-25% phyllite inclusions, 30-40% qtz carbonate, 25% Po with lesser Py and 1 speck of V.G.	208.9 M V.G.					

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS			
148.4	211.6 M	Cont'd:									
		209.6 and 209.75 M -- A 10 cm and 12 cm qtz vein respectively. Both parallel to foliation. 3-5% qtz carbonate and 5% Po and Py in vein. Strong carbonaceous alteration between veins.									
211.6	217.7 M	Black Knotted Phyllite -- 5-15% Knots									
		Knots are generally vary in size from < 2 mm to 6 mm. Most are oval to lens like. Foliation is moderate to strong and at 70°-90° to C.A. Knots are parallel to foliation. This short section has only weak qtz veining developed.									
		214.5 M -- 9 cm qtz vein 80° to C.A. and parallel to foliation. 10% qtz carbonate and no sulphides in vein. < 2% Po, Py in section.									
		215.1 M -- 4-5 mm band of Py and Po with minor qtz 80° to C.A.									
217.7	268.8 M	F/g Black Banded Phyllite Interbedded with Black Carbonaceous Phyllite, Minor Knotted Phyllite and Siliceous Sediment.									
		The Po, Py content in the Phyllite is generally 3-5% throughout. Sulphides mainly occur as blebs and stringers parallel to foliation. Qtz veining is well developed in two intervals, elsewhere it is weakly developed.									
		217.7 - 224.6 M -- 1.35 mg qtz (19.6%) 6.9 M 224.6 - 231.3 M -- 0.11 mg qtz (1.6%) 6.7 M 231.3 - 241.5 M -- 1.40 mg qtz (13.7%) 10.2 M 241.5 - 253.6 M -- 0.17 mg qtz (1.4%) 12.1 M 253.6 - 256.2 M -- 0.39 mg qtz (15%) 2.6 M 256.2 - 261.9 M -- 0.02 mg qtz (0.4%) 5.7 M 261.9 - 268.8 M -- 1.40 mg qtz (20.3%) 6.9 M									
		219.25 M -- 35 cm qtz vein 75° to C.A. 5% qtz carbonate and 3-7% Po and Py.									
		219.9 M -- 20 cm qtz vein 80° to C.A. Minor qtz carbonate and Po, Py and 5% phyllite fragments and 2-3% chlorite in vein.									
		From 217.7 - 229.7 M mainly black banded phyllite with moderate to strong carbonaceous development. Adjacent to many of the qtz veining there is strong carbonaceous development. Good sericite development is noted in many of the qtz veins.									
		222.3 M - 15 cm qtz vein 80° to C.A. Minor Po, Py and qtz carbonate in vein. 3-5% pale green chlorite is also present.									
		225.3 - 227.35 M -- weakly developed knotted phyllite. ≈ 5% knots.									
		224.35 M -- 17 cm qtz vein. Irregular contacts ≈75° to C.A. and parallel to foliation. 5% qtz carbonate and 2-3% Po, Py, mainly adjacent to upper selvage.									

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS				
217.7	268.8 M	Cont'd:										
		There is very little folding and crenulations developed in the black banded phyllite above (217.7 - 229.7 M).										
		229.7 - 233.2 M -- Black banded Phyllite with 3-5% Po, Py. The foliation is becoming weakly crenulated and for short 10-50 cm intervals, foliation may be at a low angle to the C.A.										
		232.0 M -- 10 cm unit of light gray siliceous sediment. Unit has 20-30% qtz knots, probably formed from boudinaged qtz veins. Unit has a 5 mm qtz vein which appears to cut bedding. Vein terminates at end of unit. This termination is probably caused by a minor shear.										
		233.2 - 234.0 M -- Light gray siliceous sediment. Unit is bedded at 85° to C.A. There is abundant qtz veining in this 80 cm unit. Veins are all < 1 cm in width and cuts bedding. Foliation is not well developed. The veins have upto 5 - 20% Py associated. The siliceous sediment appears to be close to chert.										
		234.0 - 268.8 M -- Black banded to black carbonaceous phyllite with minor interbedded knotted phyllite and short units of siliceous sediment. Foliation is well developed and is generally 60°-80° to C.A. However, adjacent to some of the qtz veining foliation is strongly deformed.										
		236.8 M -- 10-15 cm qtz vein irregular contact but ≈45° to C.A. 5-10% qtz carb and 3-5% Py and Po in vein.										
		237.4 M -- 4 cm qtz vein 75° to C.A. Vein has 10-20% qtz carbonate 5-10% Po and trace Py and 6-7 specks of V.G.	237.4 M V.G.									
		237.55 M -- 4-10 cm qtz vein 5° to C.A. and parallel to foliation. 5-10% qtz carbonate and 5% Po, Py and 5-6 specks of V.G.	237.55 M V.G.									
		238.1 M -- 10-15 cm qtz vein 30° to C.A. and parallel to foliation. 3-5% qtz carbonate and 2-3% pyrite in vein.										
		238.6 M -- 10 cm qtz vein 70° to C.A. 20% qtz carbonate and 5-10% Po, Py in vein.										
		241.7 M - 242.0 M -- Broken core.										
		240.85 M -- 6 cm qtz vein 70° to C.A. Minor Po, Py and qtz carbonate in vein. 10-15% F/g light green chlorite in vein.										
		244.85 M -- Folded 1 cm qtz vein cutting foliation. Fold axis 70° to C.A. Minor Po, Py and qtz carbonate in vein.										
		248.0 M -- 2.5 cm qtz vein 70° to C.A. Vein cuts foliation which is at 80° to C.A. 50-70% of vein is qtz carbonate and 10-20% Po and trace Py.										
		250.6 M -- Several irregular 2-5 mm qtz veins at 90° to C.A. Veins are										

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS			
217.7	268.8 M	Cont'd :									
		folded and may cross cut foliation. There is abundant qtz carbonate and pyrite in veins.									
		Foliation is well developed in this section and generally 70-90° to C.A. Occasionally foliation is as low as 50° to C.A.									
		234.0 - 239.3 M -- ≈ 3-5% Po and Py.									
		239.3 - 251.8 M -- ≈ 1-1.5% Po, Py.									
		251.8 - 255.3 M -- ≈ 3-5% Po, Py.									
		255.3 - 258.8 M -- ≈ 1-2% Po, Py.									
		253.6 M -- 7 cm qtz vein 70° to C.A. Lower contact. Upper contact is 45° to C.A. Vein is parallel to foliation. Vein has minor Po, Py and qtz carbonate.									
		254.2 M -- 1 cm qtz vein 60° to C.A. Vein cuts foliation which is at 80° to C.A. Vein has 40-50% Po, Py and 20% qtz carbonate.									
		254.5 M -- 25 cm qtz vein 75-80° to C.A. 25% of vein is phyllite inclusions. Vein has 5-10% qtz carbonate and ≈ 5-7% Po, Py.									
		256.1 M -- 10-15 cm qtz vein 50° to C.A. and parallel to foliation. Vein has minor Po, Py and qtz carbonate.									
		Below 254.3 M there are < 1 cm to 10 cm bands of light gray to black bands of siliceous sediment. Bedding is generally 80°-90° to C.A.									
		Minor folding on a 20-100 cm scale is present. This causes foliation to vary to 0° to C.A. Generally foliation is 70-90° to C.A. These folds are then crenulated on a 1-2 cm scale.									
		Lower contact of section is a zone of alternating bands of siliceous sediment and black phyllite. A contact is located where siliceous sediment predominates.									
		The black phyllite has 2-5% Po, Py as blebs and stringers. Less than 1% sulphides appear to be associated with the siliceous sediment.									
		257.75 - 261.9 M -- there is only one qtz vein. Vein is a 2 cm qtz vein at 90° to C.A. and located at 259.25 M. Vein has 5% qtz carbonate and 2-3% Po, Py.									
		261.05 -- 9 cm qtz vein 85° to C.A. 10-15% to foliation. Vein has 20% phyllite inclusions, 5-7% qtz carbonate and 5-10% light green chlorite? and 2-3% Po, Py.									
		261.95 M -- 11 cm qtz vein 80° to C.A. and parallel to foliation. 5-10% qtz carbonate and 3-5% Py and Po. A pyrite crystal in a vug is noted in the vein.	217.7 - 268.8 M 1 - 5% Po, Py								

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
217.7	268.8 M	Cont'd:						
		264.0 M -- Folded 5-10 cm qtz vein. Vein has 3-5% qtz carbonate and 5-7% Po, Py.						
		264.85 M -- 4 cm qtz vein ≈70° to C.A. 5-7% qtz carbonate and 2-3% Py, Po in vein. Several pale brown blebs of qtz carbonate are noted. One crystal of mineral in a vug looks like dolomite.						
		265.15 M -- 14 cm qtz vein 80° to C.A. and parallel to foliation. Minor qtz carbonate and 2-3% Po, Py in vein. Mainly in vein selvage.						
		266.55 M -- 5-10 cm folded qtz vein. Minor Po, Py and qtz carbonate in vein.						
		268.6 M -- Folded 5-10 cm qtz vein with 20% qtz carbonate and 5-10% Po, Py.						
268.8	286.95 M	F/g Light to Medium Gray Siliceous Sediment.						
		Bedding in this section is ≈80° to C.A. Much of this section has folding on a 20-100 cm scale with 1 cm crenulations developed on the folds. Minor interbedded black phyllite is interbedded. Fold axis of minor folds is generally 75°-90° to C.A.						
		268.8 - 286.95 M -- 96 cm of qtz veining (5.3% qtz). 1-3% Py and Trace Po.						
		276.6 - 277.7 M -- Black weakly knotted phyllite. Knots are up to 1.5 cm and are poorly formed. There is a slightly higher Po, Py content in the knotted phyllite than in the siliceous sediment. The majority of the sulphides are Py. Only minor Po is noted.						
		275.7 M -- 27 cm qtz vein 75° to C.A. with 5% qtz carbonate and tr Po, Py.						
		277.3 M -- 12 cm qtz vein 80° to C.A. Minor qtz carbonate and Po, Py in vein.						
		From 277.5 - 281.5 M -- Foliation is strongly crenulated.						
		Lower contact at 286.95 is at 50° to C.A. Bedding has been folded. 10 cm above contact bedding is at 80° to C.A.						
		282.5 - 283.5 M -- Good example of folding and crenulations developed on a fold. Fold is on a 60-70 cm scale and crenulations on a 1 cm scale.						
286.95	322.2 M	Interbedded Black Banded Phyllite, Black Phyllite and F/g Light to Dark Gray Siliceous Sediment.						
		290.9 - 291.7 M - Siliceous Sediment 80° to C.A. Elsewhere the siliceous sediment occurs in <10 cm bands in the phyllite.	286.95 - 322.2 M					
		286.95 - 292.6 M -- only one large qtz vein which is located at 289.7 M, and several <1 cm qtz veins.	2-3% Py.					
		291.8 - 292.6 M -- Calcite is noted as a crystal growth on a few fractures.						

FOOTAGE From	FOOTAGE To	DESCRIPTION	% Mineralization	SAMPLE NO.	FOOTAGE From	FOOTAGE To	FOOTAGE Length	ASSAYS
286.95	322.2 M	Cont'd:						
		292.6 - 322.2 M -- 70 cm of qtz veining (2.4% qtz)						
		The black phyllite has only pyrite. Much of which occurs as 1-3 mm cubes to 303 M. Below 303 M it occurs as blebs.						
		289.7 M -- 23 cm qtz vein 80° to C.A. Upper contact cuts foliation. L.C. parallel to foliation. Smokey qtz in vein and only Trace Po.						
		This unit has generally weak carbonaceous development except adjacent to some of the qtz veins.						
		From 296.8 - 322.2 M the phyllite has F/g disseminated $CaCO_3$. Rock effervesces strongly in cold HCl. This rock was not noted in FBC 83-1.						
		The crenulated and siliceous sediment occuring at 268.8 - 286.6 M may be correlated with the last few meters of FBC 83-1.						
		Most of the qtz veins from 292.5 - 322.2 M have only trace Py and usually no qtz carbonate. Most veins are < 3 cm in width and many are irregular shaped due to folding.						
		Banding in the phyllite is 70-90° to C.A. and may be bedding. Foliation is parallel to subparallel to bedding.						
		308.4 M -- 40 cm qtz vein ≈ 30° to C.A. Vein has 30-40% phyllite inclusions. There isn't any sulphides in vein.						
		305.2 M -- 50 cm of phyllite with 5-7% pyrite.						
		309.2 M -- qtz vein at 65° to C.A. cuts foliation which is 80° to C.A. Vein has 20-30% calcite as white irregular patches.						
		317.25 M -- 5 cm qtz vein 85° to C.A. Vein is barren and has abundant calcite.						
		309 - 310 M -- 60% dark gray siliceous looking sediment. However unit effervesces with HCl.						
		In the last 20 M the phyllite is strongly broken. Fractures are generally parallel to foliation. A few are 70-90° to foliation. There are abundant < 1-3 mm calcite filled cross cutting fractures. All are void of sulphides. These calcite veinlets form a weak stockwork. This indicates some form of fracturing of the rocks occurred.						
	322.2	E.O.H.						