ABMINCO N.L.
CLEVELAND MINE

CATEGORY: M/E

HOLE No.: C1485

GENERAL DATA

Objective: Mo - Bi - W VEINING

Area of Operation: 17 B SOUTH Location: C.d SECTION

Collar R.L.: 128·097 Co-ordinates: 15333·606 N, 10811·306 E.

Bearing of Hole: 311° 14' 35" Angle of Hole: -74° 49' 25" Final Depth: 398 m

Drilling Commenced: 24·1·80 Completed: 29-2-80 Logged by:

DRILLING DATA

Drilled by: LONGYEAR. Non Coring:

Drilling Rig: EMS 38 Coring: NQ to 27·2m : BQ to 86·0m : NQ to

Driller(s): P. BELL, P. LEFTERUK, G. COOMBE

K. STEPHESON, P. KAY, A. BLOORE, C. NEWMAN Core Recovery:

HOLE SURVEYS

HOLE No.: C1485

NWPS 24164

ABMINCO N.L. - Cleveland Mine

Hole No. C1485

Sheet No.

DIAMOND DRILL HOLE DATA

PROGRAM DATA				SURVEY DATA				INTERPOLATED DATA		
				Instrument Type	Depth	Dip	Azimuth	Depth	Dip	Azimuth
1	Attitude	—	(+) (-)	SURVEY	Ø	-75	(311)	12½	-74	305
				CAMERA	30	-73·5	308½ (308·5)	37½	-73·5	299
2	Hole No.	1485			60	-73	308 (308)	62½	-73·5	300
					85	-74	308 (310)	87½	-74·5	301·5
3	Down Hole Interval	25			115	-73	296 (304)	112½	-73	296·5
					145	-73·5	292 (300)	137½	-73	293
4	Collar	15333·606	N		175	-74·5	287 (295)	162½	-74	289
					205	-75	281 (289)	187½	-74·5	284
5	Co-ords.	10811·306	E		235	-75	280 (288)	212½	-75	280
					265	-75	282 (290)	237½	-75	280
6	Collar R.L.	128·097			289	-73·5	284½ (292·5)	262½	-75·5	281·5
					340	-72	289 (287)	287½	-73·5	284·5
7	Halls Sect.	15392·230	N		378	-73	280 (288)	310½	-73	286·5
					397	-73·5	296 (284)	337½	-72	287
8	Intersect Point Grid	10725·105	E					362½	-72·5	288·5
								387½	-73	286·5
9	Battery Sect.	15310·738	N							
10	Intersect. Point	10801·681	E							
11	Start Plot (Depth)	Ø	ϕ = Collar							

DOWN HOLE PLOT

Hole No: C148

Sheet No:

DEPTH	PLAN			CROSS SECTION		LONG SECTION				Depth	PLAN			CROSS SECTION		LONG SECTION		
	N	E	RL	Dist. from H.R.P.	Dist. from B.R.P.	Dist. from Halls	Sect. Gd	Dist from Batt.	Sect. C		N	E	RL	Dist. from H.R.P.	Dist. from B.R.P.	Dist from Halls	Sect.	Dist from Batt
0	15333.61	10811.31	128.10	103.22	1.09	14.61		24.79										
25	15337.56	10805.66	104.07	96.38	-5.57	13.73		26.54										
50	15341.00	10799.45	80.09	89.47	-12.59	12.10		27.61										
75	15344.55	10793.30	56.12	82.53	-19.59	10.59		28.80										
100	15348.04	10787.61	32.03	75.97	-26.15	9.35		30.10										
125	15350.90	10780.88	8.13	69.07	-33.45	6.93		30.45										
150	15353.75	10774.15	-15.78	62.17	-40.75	4.52		30.79										
175	15355.99	10767.63	-39.81	55.84	-47.63	1.80		30.63										
200	15357.61	10761.15	-63.90	49.96	-54.28	-1.37		29.90										
225	15358.72	10754.78	-88.05	44.49	-60.64	-4.82		28.74										
250	15359.86	10748.41	-112.20	39.02	-67.01	-8.28		27.58										
275	15361.10	10742.27	-136.40	33.64	-73.19	-11.48		26.62										
300	15362.88	10735.40	-160.37	27.56	-80.26	-14.79		25.90										
325	15364.96	10728.39	-184.28	20.78	-87.55	-17.97		25.92										
350	15367.22	10721.00	-208.06	13.79	-95.26	-21.27		24.97										
375	15369.54	10713.85	-231.90	6.94	-102.77	-24.36		24.67										
400	15371.62	10706.85	-255.8	0.36	-110.07	-27.54		24.19			39810							

C1485

	% Mo	% WO_3	% Bi	% SnT	% Cu	CM Mo+WO_3+Bi+SnT	$\frac{WO_3\ \%}{CM\ \%}$
0-10	<.005	.016	.017	.02	.01	.05	32
10-20	<.005	.191	.014	.04	.02	.25	76
20-30	.010	.022	.006	.01	.01	.05	44
30-40	<.005	.018	.015	.02	.01	.05	36
40-50	.027	.072	.034	.03	.02	.16	45
50-60	.006	.050	.007	.03	.06	.09	56
60-70	<.005	.032	.012	.02	.01	.07	46
70-80	.016	.123	.019	.02	.01	.18	68
80-90	.010	.095	.020	.02	.01	.15	63
90-100	.006	.064	.028	.01	.01	.11	58
100-110	.032	.122	.027	.04	.03	.22	55
110-120	.013	.061	.011	.01	.01	.10	61
120-130	.073	.214	.026	.01	.01	.32	
130-140	.019	.134	.022	.02	.02	.20	67
140-150	.015	.093	.012	.02	.02	.14	66
150-160	.011	.062	.009	.02	.02	.10	62
160-170	.010	.147	.014	.02	.02	.19	77
170-180	.009	.298	.021	.02	.03	.35	85
180-190	.013	.329	.019	.02	.02	.38	87
190-200	.059	.196	.016	.05	.04	.32	61
200-210	.018	.255	.018	.11	.07	.40	64
210-220	.019	.263	.014	.11	.03	.41	64
220-230	.013	.300	.010	.06	.06	.38	79
230-240	.013	.233	.011	.10	.04	.36	65
240-250	.009	.336	.008	.10	.04	.45	75
250-260	.007	.368	.006	.08	.04	.46	80
260-270	.007	.405	.011	.09	.04	.51	79
270-280	.005	.335	.011	.05	.03	.40	84
280-290	.011	.421	.012	.07	.04	.51	83
290-300	.007	.271	.008	.03	.03	.32	85
300-310	.011	.451	.015	.02	.03	.50	90
310-320	.039	.240	.025	.01	.02	.31	77
320-330	.051	.198	.026	.01	.02	.29	68
330-340	.016	.184	.035	.01	.02	.25	74
340-350	.012	.085	.020	.02	.02	.14	61
350-360	.006	.148	.031	.01	.01	.20	74
360-370	.017	.046	.016	.02	.03	.10	46

* TO CONVERT %W to $\%WO_3$ FACTOR IS 1.261
$\%Mo$ to $\%MoS_2$ FACTOR IS 1.667
%W to $\%(Fe,Mn)WO_4$ FACTOR IS 1.649

HOLE No.: C1485

SAMPLE DATA

SHEET No.: 1

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL From	INTERVAL To	Length (L)	Assays (A) % Snt	% Sns	% Cu	%Zn	Product (A×L) ~~% Mo P. Snt~~	~~% WO3 P. Sns~~	~~% Bi P. Cu~~	Mo + WO3 + Bi
Mo-W	248277			0	2.5	2.5	.02	<.01	.01		<.005	.006	.003	.009
VEINING	248278			2.5	5.0		.01		.01		<.005	.009	.002	.011
	248279			5.0	7.5		.02		.01		<.005	.044	.058	.102
	248280			7.5	10.0		.02		.01		<.005	.005	.004	.009
	248281			10.0	12.5		.01		.01		<.005	.008	.005	.013
	248282			12.5	15.0		.02		.01		<.005	.007	.005	.012
	248283			15.0	17.5		.11		.02		<.005	.697	.040	.737
	248284			17.5	20.0		.02		.02		.005	.053	.007	.065
	248285			20.0	22.5		.01		.01		<.005	.011	.005	.016
	248286			22.5	25.0	2.5	.01		.01		<.005	.047	.005	.052
	248287			25.0	27.2	2.2	.01		.01		.038	.019	.008	.065
	248288			27.2	30.0	2.8	.01		.01		<.005	.011	.005	.016
	248289			30.0	32.5	2.5	.02		.02		<.005	.021	.007	.028
	248290			32.5	35.0	2.5	.02		.01		<.005	.025	.013	.038
	248291			35.0	37.5	2.5	.01		.01		<.005	.010	.006	.016
	248292			37.5	40.0	2.5	.01		.01		.010	.016	.034	.060
	248293			40	42.5	2.5	.02		.02		.010	.116	.061	.187
	248251			42.5	45	2.5	.02		.01		.090	.065	.054	.209
	248252			45	47.5	2.5	.03	<.01	.02		.005	.053	.017	.075

N.W.P.S.

HOLE No.: C 1485

SAMPLE DATA

SHEET No.: 2

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL From	INTERVAL To	Length (L)	Assays (A) % Snt	% Sns	% Cu	%Zn	~~Product (A×L)~~ %Mo ~~% Snt~~	%WO_3 ~~% Sns~~	%Bi ~~% Cu~~	Mo + WO_3 + Bi
	248253			47.5	50.0	2.5	0.03	<.01	.02		<.005	.052	.002	.054
	248254			50.0	52.5	2.5	.02		.02		<.005	.061	.014	.075
	248255			52.5	55.0	2.5	.07		.21		<.005	.008	.007	.015
	248256			55.0	57.5	2.5	.01		.01		.018	.028	.007	.053
	248257			57.5	60.0	2.5	.01		.01		<.005	.101	<.002	.101
	248258			60.0	62.5	2.5	.02		.01		<.005	.038	.007	.045
	248259			62.5	65.0	2.5	.05		.02		.005	.043	.027	.075
	248260			65.0	67.5	2.5	.01		.01		.005	.019	.008	.032
	248261			67.5	70.0	2.5	.01		.01		<.005	.027	.006	.033
	248262			70.0	72.5	2.5	.04		.01		.008	.083	.007	.098
	248263			72.5	75.0	2.5	.01		.01		.008	.040	.010	.058
	248264			75.0	77.5	2.5	.01		.01		.005	.051	.010	.073
	248265			77.5	80.0	2.5	.02		.01		.043	.317	.048	.408
	248266			80.0	82.5	2.5	.03		.01		.005	.131	.014	.150
	248267	85.0 - 87.5m		82.5	85.0	2.5	.01		.01		<.005	.034	.009	.043
	248268	<.005 %Mo		85.0	86.0	1.0	.02		.01		.005	.039	.017	.061
	248269	.064 %WO_3 .010 % Bi		86.0	87.5	1.5	.01		.01		<.005	.081	.005	.086
	248270			87.5	90.0	2.5	.03		.01		.030	.149	.045	.224
	248271			90.0	92.5	2.5	.01	<.01	.01		<.005	.055	.003	.058

N.W.P.S.

HOLE No.: C 1485

SAMPLE DATA

SHEET No.: 3

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL From	INTERVAL To	Length (L)	Assays (A) % Snt	% Sns	% Cu	% Zn	~~Product (Arx. L)~~ % Mo ~~P. Snt~~	% WO_3 ~~P. Sns~~	% Bi ~~P. Cu~~	Mo + WO_3 + Bi
—	248272			93·5	95·0	2·5	·01	<·01	·01		<·005	·021	·010	·031
—	248273			95·0	97·5	2·5	·02		·01		·018	·167	·092	·277
—	248274			97·5	100·0	2·5	·01		·01		<·005	·014	·008	·022
—	248351			100·0	102·5	2·5	·01		·01		·043	·122	·046	·211
×	248352			102·5	105·0	2·5	·04		·02		·020	·070	·017	·107
—	248353			105·0	107·5	2·5	·01		·02		<·005	·033	·016	·049
—	248354			107·5	110·0	2·5	·09		·07		·063	·262	030	·355
—	248355			110·0	112·5	2·5	·01		·01		·008	·034	·012	·054
—	248356			112·5	115·0	2·5	·01		·02		·018	·038	·008	·064
—	248357			115·0	117·5	2·5	·01		·01		<·005	·025	·012	·037
—	248358			117·5	120·0	2·5	·01		·01		·023	·146	·010	·179
—	248359			120·0	122·5	2·5	·01		·01		·015	·131	·012	·158
—	248360			122·5	125·0	2·5	·01		·02		·103	·100	·024	·227
—	248361			125·0	127·5	2·5	·01		·01		·070	·418	·020	·508
—	248362			127·5	130·0	2·5	·02		·01		·105	·207	·048	·360
—	248363			130·0	132·5	2·5	·02		·02		·048	·260	·022	·330
—	248364			132·5	135·0	2·5	·02		·01		·005	·037	·010	·052
—	248365			135·0	137·5	2·5	·04		·02		·008	·149	·040	·197
—	248366			137·5	140·0	2·5	·01	<·01	·02		·015	·088	·016	·119

N.W.P.S.

0-187.5 0.015% Mo 0.11% W 0.019% Bi 0.134% (MoS_2 + WO_3)

HOLE No.: C1485

SAMPLE DATA

SHEET No.: 4

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL From	INTERVAL To	Length (L)	Assays (A) % Snt	% Sns	% Cu	%Zn	Product (A x L) P. Snt	% Mo % WO_3 P. Sns	% Bi P. Cu	Mo+WO_3 +Bi
Mo-Bi-W	248367			140	142.5	2.5	.03		.01		.016	.150	.022	.188
	68			142.5	145	"	.02		.02		.020	.087	.002	.109
	69			145	147.5	"	.01		.01		.013	.106	.011	.130
	70			147.5	150	"	.01		.02		.009	.027	.011	.047
	71			150	152.5	"	.01		.02		.009	.049	.013	.071
	72			152.5	155	"	.02		.02		.014	.061	.008	.083
	73			155	157.5	"	.01		.01		.004	.026	.003	.033
	74			157.5	160	"	.03		.02		.018	.110	.013	.141
	75			160	162.5	"	.03		.02		.013	.336	.031	.380
	76			162.5	165	"	.01		.02		.005	.141	.005	.151
	77			165	167.5	"	.03		.02		.018	.067	.013	.098
	78			167.5	170	"	.01		.02		.004	.044	.007	.055
	79			170	172.5	"	.01		.03		.014	.162	.045	.221
	80			172.5	175	"	.04		.01		.009	.484	.019	.512
	81			175	177.5	"	.01		.01		.009	.231	.017	.257
	82			177.5	180	"	.03		.05		.005	.315	.004	.324
	83			180	182.5	"	.01		.02		.009	.439	.009	.457
	84			182.5	185	"	.01		.01		.007	.228	.009	.244
	85			185	187.5	"	.02		.01		.022	.456	.038	.516

N.W.P.S.

HOLE No.: C1485

SAMPLE DATA

SHEET No.: 5

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL From	INTERVAL To	Length (L)	Assays (A) % Snt	% Sns	% Cu	%Zn	Product (A x L) ~~%Mo P. Snt~~	~~%WO3 P. Sns~~	~~%Bi P. Cu~~	Mo+WO3+Bi
W-Mo-Bi	248386	S'STONE		187.5	190.0	2.5	.02	0.01	.02	0.010	.014	.194	.018	.226
	87	"		190.0	192.5		.04	0.01	.10	0.027	.103	.207	.008	.318
	88	"		192.5	195.0		.03	0.01	.02	0.022	.088	.262	.028	.378
	89	S'stone/qtz. porph.		195.0	197.5		.07	<0.01	.03	0.042	.016	.196	.011	.223
	90	QTZ. PORPHYRY		197.5	200.0		.06	<0.01	.02	0.014	.028	.120	.015	.163
	91	"		200.0	202.5		.05	0.01	.03	0.021	.016	.198	.024	.238
	92	"		202.5	205.0		.16	0.01	.13	0.032	.012	.204	.011	.227
	93	"		205.0	207.5		.11	0.01	.08	0.038	.031	.366	.020	.417
	94	"		207.5	210.0		.10	0.01	.04	0.022	.014	.252	.017	.283
	95	"		210.0	212.5		.05	<0.01	.03	0.017	.020	.341	.011	.372
	96	"		212.5	215.0		.05	0.01	.02	0.020	.014	.283	.011	.308
	97	"		215.0	217.5		.27	0.01	.04	0.026	.018	.186	.007	.211
	98	"		217.5	220.0		.08	0.02	.03	0.02	0.022	.240	0.027	.289
	99	QTZ. PORPH. ~~PORPHYRY~~		220.0	222.5		.06	0.01	.03	0.06	0.008	.530	0.007	.545
	400	QTZ. PORPH./SHALE		222.5	225.0		.06	0.02	.07	0.02	0.014	.170	0.012	.196
	01	"		225.0	227.5		.07	0.01	.09	0.03	0.014	.195	0.010	.219
	02	QTZ. PORPHYRY		227.5	230.0		.04	0.01	.06	0.03	0.016	.305	0.009	.330
	03	"		230.0	232.5		.14	0.01	.04	0.03	0.014	.155	0.006	.175
	248404	"		232.5	235.0		.09	0.01	.04	0.03	0.010	.255	0.012	.277

N.W.P.S.

HOLE No.: C1485

SAMPLE DATA

SHEET No.: 6

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL From	INTERVAL To	Length (L)	Assays (A) % Snt	% Sns	% Cu	%Zn	Product (A x L) ~~% Mo P. Snt~~	~~% WO_3 P. Sns~~	~~% Bi P. Cu~~	Mo + WO_3 + Bi
W-Mo-Bi	248405	QTZ. PORPHYRY		235.0	237.5	2.5	.09	0.01	.03	0.03	0.009	.210	0.010	.229
	06	"		237.5	240.0		.06	0.01	.05	0.06	0.018	.310	0.014	.342
	07	"		240.0	242.5		.05	0.01	.03	0.12	0.016	.425	0.011	.452
	08	"		242.5	245.0		.12	0.02	.04	0.06	0.004	.205	0.006	.215
	09	"		245.0	247.5		.05	0.01	.03	0.13	0.010	.375	0.008	.393
	10	"		247.5	250.0		.19	0.02	.07	0.06	0.005	.340	0.007	.352
	11	"		250.0	252.5		.09	0.01	.03	0.05	0.005	.345	0.007	.357
	12	"		252.5	255.0		.05	0.01	.04	0.12	0.014	.430	0.007	.451
	13	"		255.0	257.5		.08	0.02	.06	0.13	0.006	.395	0.007	.408
	14	"		257.5	260.0		.09	0.02	.04	0.16	0.003	.300	0.002	.305
	15	"		260.0	262.5		.08	0.01	.05	0.16	0.010	.385	0.012	.407
	16	"		262.5	265.0		.15	0.02	.04	0.05	0.003	.430	0.004	.437
	17	"		265.0	267.5		.05	0.01	.03	0.05	0.008	.240	0.016	.264
	18	"		267.5	270.0		.07	0.01	.04	0.07	0.008	.565	0.012	.585
	19	"		270.0	272.5		.04	0.01	.03	0.13	0.008	.430	0.015	.453
	20	"		272.5	275.0		.08	0.01	.04	0.02	0.004	.260	0.004	.268
	21	"		275.0	277.5		.04	0.01	.03	0.23	0.004	.315	0.010	.329
	22	"		277.5	280.0		.04	0.01	.03	0.17	0.003	.335	0.014	.352
	248423	"		280.0	282.5		.07	0.01	.03	0.07	0.014	.555	0.024	.593

N.W.P.S.

HOLE No.: C1485

SAMPLE DATA

SHEET No.: 7

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL From	INTERVAL To	Length (L)	Assays (A) % Snt	Assays (A) % Sns	Assays (A) % Cu	Assays (A) %Zn	Product (A x L) P. Snt / %Mo	Product (A x L) P. Sns / %WO_3	Product (A x L) P. Cu / %Bi	Mo+WO_3 +Bi
W-Mo-Bi	248424	Qtz Porphyry		282.5	285	2.5	.07	0.01	.04	0.06	0.018	.440	0.012	.470
	25	"		285	287.5	"	.06	"	.06	0.02	0.005	.420	0.006	.431
	26	"		287.5	290	"	.06	"	.03	0.04	0.005	.270	0.006	.281
	27	"		290	292.5	"	.04	"	.04	0.04	0.003	.220	0.012	.235
	28	"		292.5	295	"	.03	"	.05	0.12	0.003	.175	0.004	.182
	29	PORPHYRY / S'STONE		295	297.5	"	.04	"	.02	0.03	0.016	.230	0.006	.252
	30	S'STONE		297.5	300	"	.02	"	.02	0.02	0.006	.460	0.008	.474
	31	"		300	302.5	"	.01	"	.02	0.04	0.005	.135	0.008	.148
	32	"		302.5	305	"	.03	"	.03	0.02	0.014	1.110	0.018	1.142
	33	"		305	307.5	"	.02	"	.06	0.01	0.005	.335	0.020	.360
	34	"		307.5	310	"	.01	"	.02	0.01	0.020	.225	0.014	.259
	35	"		310	312.5	"	.01	"	.02	0.01	0.018	.090	0.014	.122
	36	"		312.5	315	"	.01	"	.02	0.01	0.038	.205	0.014	.257
	37	"		315	317.5	"	.01	"	.02	0.01	0.030	.180	0.040	.250
	38	"		317.5	320	"	.01	"	.02	0.01	0.068	.485	0.032	.585
	39	"		320	322.5	"	.01	"	.01	0.02	0.034	.090	0.020	.144
	40	"		322.5	325	"	.01	"	.01	0.01	0.012	.065	0.009	.086
	41	"		325	327.5	"	.02	0.02	.02	0.01	0.046	.190	0.020	.256
	42	"		327.5	330	"	.01	0.01	.02	0.01	0.110	.445	0.055	.610

N.W.P.S.

HOLE No.: C1485

SAMPLE DATA

SHEET No.: 8

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL From	INTERVAL To	Length (L)	Assays (A) % Snt	% Sns	% Cu	% Zn	Product (A x L) P. Snt ~~% Mo~~	P. Sns ~~% WO_3~~	P. Cu ~~% Bi~~	Mo+WO_3 +Bi
W-Mo-Bi	248443	SANDSTONE		330	332·5	2·5	0·01		0·02	0·01	0·026	0·185	0·020	·231
	44			332·5	335		0·01		0·03	"	0·016	·130	0·040	·186
	45			335	337·5		0·01		0·02	"	0·018	·365	0·065	·448
	46			337·5	340		0·01		0·02	"	0·003	·055	0·014	·072
	47			340	342·5		0·01		0·02	"	0·010	·095	0·024	·129
	48			342·5	345		0·02		0·02	"	0·005	·090	0·010	·105
	49			345	347·5		0·02		0·02	"	0·010	·050	0·016	·076
	50			347·5	350		0·02		0·03	"	0·024	·105	0·030	·159
	51			350	352·5		0·01		0·01	"	0·010	·205	0·030	·245
	52			352·5	355		0·01		0·01	"	0·003	·055	0·016	·074
	53			355	357·5		0·01		0·01	"	0·008	·100	0·032	·140
	54			357·5	360		0·01		0·01	"	0·004	·230	0·044	·278
	55			360	362·5		0·02		0·03	"	0·040	·025	0·028	·093
	56			362·5	365		0·01		0·05	"	0·018	·075	0·022	·115
	57			365	367·5		0·01		0·01	"	0·004	·045	0·007	·056
	58	ULTRAMAFICS		367·5	370		0·02		0·02	0·02	0·006	·040	0·008	·054
	59	"		370	372·5		0·01		0·02	0·02	0·001	·045	0·014	·060
	60	"		372·5	375		·02		·02	·01	·003	·485	·140	
	61	"		375	377·5		·03		·02	·06	·001	·015	·005	

N.W.P.S.

HOLE No.: C1485

SAMPLE DATA

SHEET No.: 9

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL From	INTERVAL To	Length (L)	Assays (A) % Snt	% Sns	% Cu	% Zn	Product (A x L) % ~~Pl Snt~~ Mo	% ~~Pl Sns~~ WO_3	% ~~P. Cu~~ Bi	$Mo+WO_3+Bi$
W-Mo-Bi	248462	Ultramafics		377.5	380	2.5	.02		.01	.03	.001	.050	.007	
	63	"		380	382.5		.02		.02	.02	.001	.100	.120	
	64	"		382.5	385		.01		.02	.02	.001	.035	.008	
	65	"		385	387.5		.02		.01	.02	.002	.055	.030	
	66	"		387.5	390		.02		.02	.02	.002	.100	.018	
	67	"		390	392.5		.01		.01	.02	.001	.155	.014	
	68	"		392.5	395	2.5	.03		.02	.02	.004	.380	.210	
	69	"		395	398	3.0	.03		.02	.02	.001	.045	.014	

N.W.P.S.

HOLE No. : C1485

SAMPLE DATA

SHEET No. :

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL		Length (L)	Assays (A)				Product (A x L)			
				From	To		% Snt	% Sns	% Cu		P. Snt	P. Sns	P. Cu	
		Qtz/carb rock		369.92	370.12	0.20								
		Qtz/carb, rock		371.80	373.10	1.30								
		Carb/talc rock		373.10	374.00	0.90								
		"		374.00	375.00	1.00								

N.W.P.S.

HOLE No. : C 1435

SAMPLE DATA

SHEET No. :

LENS	SAMPLE No.	ROCK TYPE	Σ	INTERVAL		Length (L)	Assays (A)				Product (A x L)			
				From	To		% Snt	% Sns	% Cu		P. Snt	P. Sns	P. Cu	
		Qtz/carb rock		369.92	370.12	0.20								
		Qtz/carb rock		372.30	373.10	1.30								
		Carb/Talc rock		373.10	374.00	0.90								
				374.00	375.00	1.00								

N.W.P.S.

C1485

PORPHYRY

197.5 – 295

97.5m × 0.312% WO_3

SGF Lab.
recommended by KGP

:

C1485 4.12.80

at 0.15% WO_3 CUTOFF

15 – 17.5 m	2.5m ×	0.697%
77.5 – 80.0 m	2.5m ×	0.317%
95.0 – 97.5m	2.5m ×	0.167%
107.5 – 110.0m	2.5m ×	0.262%
125.0 – 132.5m	7.5m ×	0.295%
160.0 – 162.5m	2.5m ×	0.336%
170.0 – 197.5m	27.5m ×	0.289%
200.0 – 300.0	100.0m ×	0.319%
302.5 – 310.0	7.5m ×	0.557%
312.5 – 320.0	7.5m ×	0.290%

Σ 162.5m × 0.325%

AT 0.2% WO_3 CUTOFF

15.0 – 17.5m	2.5m ×	0.697%
77.5 – 80.0m	2.5m ×	0.317%
107.5 – 110.0m	2.5m ×	0.262%
125.0 – 132.5m	7.5m ×	0.295%
160.0 – 162.5m	2.5m ×	0.336%
172.5 – 187.5m	15.0m ×	0.359%
190.0 – 195.0m	5.0m ×	0.235%
202.5 – 215.0m	12.5m ×	0.289%
217.5 – 222.5m	5.0m ×	0.385%
227.5 – 230.0m	2.5m ×	0.305%
232.5 – 292.5m	60.0m ×	0.352%
295.0 – 300.0m	5.0m ×	0.345%
302.5 – 310.0m	7.5m ×	0.557%
312.5 – 315.0m	2.5m ×	0.205%
317.5 – 320.0m	2.5m ×	0.485%

Σ 135.0m × 0.354%

AT 0.10% WO_3 CUTOFF

15.0 – 17.5m	2.5m ×	0.697%
40.0 – 42.5m	2.5m ×	0.116%
57.5 – 60.0m	2.5m ×	0.101%
77.5 – 82.5m	5.0m ×	0.224%
87.5 – 90.0m	2.5m ×	0.149%
95.0 – 97.5m	2.5m ×	0.167%
100.0 – 102.5m	2.5m ×	0.122%
107.5 – 110.0m	2.5m ×	0.262%
117.5 – 132.5m	15.0m ×	0.210%
135.0 – 137.5m	2.5m ×	0.149%
140.0 – 142.5m	2.5m ×	0.150%
145.0 – 147.5m	2.5m ×	0.106%
157.5 – 165.0m	7.5m ×	0.196%
170.0m – 310.0m	140.0m ×	0.319%
312.5m – 320.0m	7.5m ×	0.290%

Σ 200.0m × 0.288%

ABERFOYLE

DIAMOND DRILL LOG

HOLE Nº 1485

Page Nº

Feature

Bedding · Foliation · Fragment (size & shape)

Shearing · Fault · Vein

F · c carbonate · q quartz

Note : for WO4 read FeWO4

Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.00	0	**Shale.** Predominantly massive, fine grained dark brown, minor pale brown fine carbonate spotting variable in distribution. Minor interbedded sandstone. Bed'g 20°							
5.00	5							4.43	v, chl, qfp, flu 20°
3.02		6.53, qfp, fluorite vein 15°, 2.5 cm thick.						5.30	v3 qfp, flu, carb 20°
8.00								5.63 to 5.90	3 vein flu, qfp, carb. 20° intersected width 12 mm. moly f.g. 1%, WO4 1%.
2.97	10								
11.00									
2.90		sandstone 12.10 - 12.80.							
14.00	15							14.35 to 14.74	qfp, fluorite vein 30°, width 80 cm single crystal towns of WO4
2.97								16.40 to 17.27	qfp vein 35°, width 20-30 cm bleached WO4 upto 1%, crystals elongate upto 20 mm.
17.00		17.82 - 40 mm wide vein qfp, 50°, trace moly and minute WO4 crystals ≤ 1%						17.64 to 17.70	qfp vein 40° very fine WO4 bleached crystals < 1%. 0, 10 mm width.
2.98		17.95 - 10 mm vein qfp, 30° fine crystals WO4 1 mm - 5 mm < 1%						18.55	5 mm vein c f.g. cassiterite 60°.
19.80	20							19.78 Fault 19.80	f1, 75° slickensided. f2, 75° slickensided
3.14									
23.00								23.18	qfp, fluor vein 40°, 15 mm, bleached WO4 1mm - 10 mm, 1%
3.10	25	sandstone 24.35 - 26.26. - m.g. pale grey to tan.						24.04 to 24.17	qfp vein 10 mm wide 35°, upto 1% fine moly, trace WO4, 3 mm
26.00								26.30	qfp, carb vein, 15 mm wide, 40% moly f.g. 45°
1.21									
27.20									
1.64									
29.00	29.85 30							29.36 29.55 29.74 29.84	3 Thin darky bands with fine fracture < 1 mm filled with cassiterite ?
2.95		**Sandstone** medium grained dark brown coarse feldspathic - massive 29.74 Fault f1, slickensided 45°						30.44	qfp, carb vein, single crystal WO4 1% bis., 20 mm wide 35°
32.00									
1.04								32.90	qfp vein 15 mm, single crystal WO4 moly. 30°.
32.90		34.25 - qfp, carb vein, 60° fine crystals WO4 upto 1%							
2.05		34.93 - qfp, vein, 45°, 10 mm, fine WO4 to 1%							
35.00	35	Shale 34.90 - 35.75						34.95	f1 fault, slickensided, 45°
2.98									
38.00									
3.14	40	40.00 - 10 mm qfp, carb vein c 5% moly, 45°						39.76	vein, v3, qfp, flu 80°
41.00								41.30	15 mm wide vein, qfp, carb, fg. vuggy - c trace moly, WO4 close to 43.25
1.25								43.25	
43.10									
0.85									
44.00									
2.40	45	44.20 - 46.65 - Series of vuggy veins fracturing sandstone, and bleaching to pale tan - contain pyrite, minor qfp, fluorite						44.75	fine speckled moly and single crystal WO4 at top of vein network total content ≤ 1%
46.30									
3.27									
49.50	50	49.50 - 49.65 qfp vein long crystal WO4 15 mm and patch of moly 0.5%						48.85 48.95	qfp vein fluorite, 0.5% WO4 width 35 to 85

ABERFOYLE

DIAMOND DRILL LOG

HOLE Nº C1485

Feature

Bedding
Foliation
Fragment size & shape
Shearing
Fault
Vein
c carbonate
q quartz

Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
50.65	50	**Sandstone**						51.20	qtz/fluor, carb vein 20mm wide, 1% WO_4, 80°.
0.86		Massive dark brown, medium grained, slight tone variation to grey and pale brown. - minor interbedded shale.							
2.31									
53.00								53.63	U4, qtz/fluorite 5% clays.
3.00	55								
		56.25, two qtz veins 5mm, 35°						55.70	qtz vein, minor fluorite
56.00		56.65 qtz vein 88°, 10mm.						to 56.10	width to mm, trace moly
		57.33 qtz vein 30°, 10mm							WO_4, single coarse crystal
3.06		57.03 qtz vein 35° 20mm.							
		Bleached sandstone 56.35 - 57.77						58.40	fault, f, slickensided 20°.
59.00		57.73 - intersecting qtz carb vein 45°, 7mm.						59.33	qtz vein 20mm 40°.
	60								
2.93		Bleached sandstone 61.50 - 62.20						61.30	qtz vein 80°, 20mm.
62.00		62.48 - 62.73 - qtz vein, 1cm wide containing 1-2% WO_4 as bladed crystals to 5mm.						62.40	qtz vein 40°, 15mm.
								62.89	qtz vein 45°, 20mm, 1mm patch moly.
3.10		63.24 - 10mm qtz vein 88°.							
		63.38 - 64.28 - qtz vein, trace specks of moly.							
65.00	65	WO_4, 10cm wide, 30°.						65.30	qtz vein 50mm. 85°.
3.00									
68.00		68.65 - qtz vein 10-15mm, 10°.						68.20	3 qtz vein, trace moly 60°
								68.95	10 mm wide.
3.06	70	Shale 69.40 - 69.61 - dark brown fine g.						69.34	qtz vein & chl, 85°, 15mm
71.00								70.48	qtz vein, 15mm 80°
		71.20 - 72.35 - 30 mm wide qtz vein with 1% bladed crystals WO_4 to 5mm, trace moly.						71.00	qtz vein 70mm, 85°
3.03								71.20	10 " 25 mm, 70°
		Sandstone - massive dark brown m. g.						72.77	qtz vein 40mm, 45°
74.00		74.60 - 74.75 - several qtz veins 80°-85°						74.60	qtz vein 30mm 80°, trace WO_4.
	75							75.40	qtz vein 50mm, 80°
3.01									
77.00		77.40, 10 mm qtz vein 45°						76.55	3 20mm qtz vein with speck
		77.50, qtz vein 5mm, 10% WO_4 crystals 80°						to 76.75	moly, scant WO_4 crystals 88°
3.00								78.23	vein 15m, 45°, 1% WO_4
		79.55 - 80.20 - qtz vein 10mm, 1% moly, 5% WO_4						79.00	to 79.20, 15mm qtz vein specks
80.00	80	80.20 - 80.45 - series of qtz veins - 80° comprising trace moly 1% WO_4 as bladed to 5mm							moly, WO_4
3.07									
		82.30 - 82.60 - vein 50mm wide with stringer 10mm wide 10°, 45°. upto 1% WO_4 as fine crystals and clusters.						81.80	100 mm qtz vein 45° with 1% fine WO_4
83.00									
3.02	85								
		85.66 qtz carb vein 15mm 85°						85.10	80mm qtz, chl, vein & veinlets
86.00		85.72 qtz carb vein, single large crystal WO_4. 20mm 75°							specks WO_4., 88°.
3.01									
		Fine criss cross network of veins, qtz, carb. down to 89.00., generally to 1mm wide.						87.24	7 qtz, fluor vein 25mm wide with
89.00								to 87.64	upto 1% WO_4, trace moly, 85°
3.00	90								
		Shale 91.20 - 92.00 - bleached pale brown							
92.00		From 90.65 - 92.54 the sandstone is bleached pale cream.						93.20	80 mm qtz vein, 80°, minor fluor.
		Shale 92.79 - 93.09, 93.40 - 93.83							
2.96		Shale 95.31 - 95.07; 96.35 - 96.75							
95.00	95								
		96.45 - 96.55, 20mm vein qtz, fluor, carb. & 1% WO_4 large crystals. <1% moly as fine clusters.						96.35	qtz, scd, chl vein, 85° 60 mm.
3.04									1% WO_4, 1% moly large crystals.
98.00		Fine network of veins 1 - 10mm wide. generally 20 - 45°, barren.						98.46	qtz vein 45°, 30 mm wide
2.90	100							99.42	qtz vein 75° 100 mm wide.

ABERFOYLE DIAMOND DRILL LOG HOLE Nº C1485 Page Nº 3

Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein (c carbonate, q quartz)

Mineralization Trace 1–5% Common 5–15% Abundant 15–60% Massive >60%

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
101.00	100	**Sandstone** – massive medium grained, dark brown.		100.16 to 101.33	fg, carb, dkl vein, 10mm 35°
3.00		101.74 – fg, carb vein 60 mm, fine speck moly. and elongate WO4 to 2 mm length.		101.33 to 101.10	fg, carb vein, 10mm 35° specks WO4, moly f.g. <1%
		101.38 – 101.55 – 10mm vein 30°, 1% moly.		102.30 to 102.47	25 mm fg carb. fin. vein 2 1% WO4 crystals to 2 mm and v.g fine moly. 35°
104.00		103.07 – 103.22 – 10mm fg vein 25° 5% WO4 trace moly		103.82	5mm fg vein, 40° 1% WO4, single speck moly
3.12	105	104.62 – 105.00 – 10 mm fg vein 1% WO4 as fine crystals 2 mm long, minor specks moly.		105.67	5 mm fg vein, 1% WO4, 35°
107.00		106.47 – fg vein 10°, barren 10 mm.		107.00	paired intersecting veins 90°, 80° barren
		107.73 – 108.08 – two veins 20 mm wide, 1-2% WO4 as fine bladed crystals – upto 1% Sn		107.10	fg vein 45°, single crystal WO4
3.08				108.64	7 mm vein, 30°, 1% moly f.g.
110.00	110	109.30 – fg, carb vein 7 mm, 40°, 40% bis.		109.50	10 mm vein 88°, 5% WO4, upto 1% moly, trace Sn
3.02		**Sandstone** – massive dark brown m.g. fine network of fg, carbonate veins 20°-40° barren.		110.55 to 110.63	2 fg, carb veins 40°, barren.
113.00					
3.07	115	115.00 – 115.35 – f.g. dark brown shale		114.27 to 114.39	fg, carb vein 10mm, 30° 1% WO4, 1% moly
116.00		**Shale** – fine grained – dark brown, massive minor sandstone to 10 cm.		115.23	fg, amph. vein 5mm, 85°, trace WO4
3.00	118.40			117.78 to 118.70	25°, 100mm fg vein, 1% coarse bladed crystals WO4
119.00		**Sandstone** – massive, dark brown medium grained.		119.84	20 mm fg vein 40° specks moly
2.26	120	120.85 – 80mm fg vein, trace fine WO4, bladed xls 45°		120.18	15 mm fg vein 88°, 1% WO4 0.5% moly
121.35					
0.72		Minor interbedded shale to 30 cm. dark brown fine grained.			
122.00					
122.0					
3.02		124.42 – 124.68 – 5mm vein 10°, 1% moly, 0.5% WO4		123.67 to 124.04	fg, carb vein 20°, 25mm c 1% bi!, 1% WO4, 0.5% moly.
125.00	125				
2.94		127.06 – 127.38, 20°, 10-25 mm fg vein, 1% f.g WO4 bladed to 2cm in length.		126.73 to 126.90	30 mm, fg vein 35° 5% WO4 to 10mm long, 5% moly
128.00		128.32 – intersecting veins. 35° 10 mm wide c 5% WO4 1% moly		128.00 to 128.07	40 mm 35° vein, with 1/2% moly 1% WO4
3.00	130	129.92, vein 20 mm 90° barren fg, carb		128.75 128.87	two fg veins 10 mm wide barren.
		130.12, vein 10mm 10° barren fg, carb flucr.		130.20 to 130.65	10 mm vein 25° trace WO4 Fault f1, 45°
131.00		130.80 – intersecting veins 15 mm, 45°, 30°, 10% WO4 5% moly – coarse f.g.		131.00	vein, fg 30°, 10mm, 5% moly f.g.
3.07		Shale 131.13 – 131.65, 133.00 – 134.08		131.24 to 131.79	40mm fg vein, 10% c.g WO4 1% moly f.g.
134.00				133.15	15 cm fg vein 1% WO4, trace moly 45°
2.95	135	136.22 – 25 mm fg, carb vein 10% WO4, f.g to m.g. 35°		134.93 to 135.42	20 mm fg vein, 1% c.g. WO4 80°
137.00		Network of fg/carb veins 10°-45° in m.g. massive dark brown sandstone.			20mm fg, fluor, carb, dkl vein c trace c.g. WO4 80°
2.87				138.32	15 cm fg vein 40°, single speck moly
140.00	140	Chaotic Sandstone / Shale, bleached from 140.58 – 144.00 – 140.47 – 70mm, 88° fg vein		140.40	30mm 40° fg vein 5% f.g moly trace WO4
3.03	143.87	trace f.g. WO4, moly.		142.15	100 mm vein 90°, fg, fine WO4 specks.
143.00		143.00 – 143.30 – 10mm, 25° ragby fg/carb vein, trace WO4		142.53	15mm vein, 45° 1% f.g WO4
		144.70 Fault, slickensided 45° f1	F	143.65	80 mm fg vein, 2% f.g moly 2% m.g. WO4
144.00			F		
2.98	145	Sandstone – m.g., initially bleached. – major fault 143.65 – 144.50. 88°-90°, slickens'd F1	F		
146.00		chaotic shale/sst 145.42 – 146.00. – bleached pale cream.		145.54 146.55	10mm fg vein, 25° f.g moly specks, f.g. trace WO4
3.16				146.30	146.60 – 25 mm fg vein 10°.
149.00		Shale 148.43 – 149.22 – dark brown f.g. dark brown sandstone.		148.65 147.35	fg carb vein 5°, 10 mm, 10% f.g. moly
	150			149.85	100 mm 85° fg, fluo, carb vein

ABERFOYLE

DIAMOND DRILL LOG

HOLE Nº C1485

Feature

Bedding
Foliation
Fragment size & shape
Shearing
Fault
Vein
c carbonate
q quartz

Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive >60%

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.05	150	Sandstone - massive medium grained dark brown to 152.30 - bleached to cream colour 152.30 - 153.40.						151.75	two overlapping veins qtz 20° 10mm, 40° wavy, 5% WO_4 fine to m.g.
152.00		Chaotic qtz/qtz/shale 154.80 - 155.30, bleached, massive dark brown sandstone from 155.30.						152.-	
2.90		Shale 157.50 - 157.85							Network of veins qtz, qtz, carb - barren, 45° - 60°.
155.00	155								
3.17									
158.00								157.75	10 - 20mm qtz, carb vein 10°-15°
3.05	160	160.05 - 160.19 - 35°, 10mm qtz, carb vein 1% WO_4, 0.5% moly						158.35	trace moly, 1% f-g WO_4
161.00								158.73	20 mm qtz vein 30°, trace very f-g WO_4
3.06		Sandstone - As above.						160.07	7-10 mm qtz, fluorite, clay vein 15°
164.00								160.47	very minor f-g sphene WO_4
2.00	165							161.40	5-20mm qtz, carb vein ± upto
166.00								162.24	1% f-g moly, 0.5% f-g WO_4
3.45								162.44	15mm qtz vein 45° 1% WO_4
169.60								163.90	intersecting qtz vein 30°, barren.
3.20	170	167.30 - fault 35°, f2 - vuggy, sd, py, qtz.						164.16	FAULT, 40°, thickened clay cemented, F2
		170.17 - qtz vein 15mm, 45° 1% Sn						164.46	
		Sandstone becomes intensely bleached & bleached 170.50 - 172.50.						166.-	FAULT, fractured clay cemented 10° - 15°, F4
172.70		173.04 - 173.30 - qtz vein 45°, ± trace f-g WO_4 < 1%						166.60	
3.02		Bleached zone 173.30 - 173.63 - fractured irregular pyrite cemented veins - FAULT zone?						167.85	vein qtz, 15mm, barren 40°
175.40	175							168.25	clay seam.
3.12		174.85 - 15 mm qtz vein ± single c.g. WO_4 xl.						168.63	Fault f1, thickened 70°
		175.05 - 175.25 - zone of veining - 20% Sn f-g. massive aggregate.						169.23	2 veins of qtz, 10-20mm, 40-70°
		176.00 - 15mm qtz, carb vein, 45° trace moly, WO_4 f-g						169.83	- qtz vein, 40mm 5% Sn, 45°
		178.30, intersecting veins, 20% WO_4 60°, 45°						170.73	qtz vein 20mm 45°, trace f-g moly
178.50		Silicified recrystallized zone 178.30 - 179.95						171.20	FAULT, 60° thickened brecciated F1, trace moly -
3.09	180	f-g - pale grey.						172.30	
		179.55 - qtz, carb vein 5% c-g WO_4, 15mm 45°						172.50	qtz vein 15mm, trace WO_4 f-g.
181.60		Dark brown massive medium grained Sandstone from 179.95.						174.40	1-2% WO_4 in qtz, thin veins to irregular masses trace moly.
		182.75 - qtz vein 60°, 20mm, trace f-g WO_4						174.63	
3.24									175.40 - 175.55, chaotic veins barren.
184.70	185	184.93 - 185.03 - 10mm 85° qtz vein 1% Sn very minor f-g WO_4, moly.						177.50	qtz vein 90° 80 mm. barren.
1.09		185.15 - 185.27, qtz vein 90°, 1% Sn						177.80	15cm qtz vein, trace c-g WO_4
185.90								178.50	90°
2.10		187.15 - 187.90 - irregular network of veins 10°-30° 5% f-g Sn, upto 1% WO_4, trace f-g moly.						178.55	10cm qtz vein, 2% WO_4.
188.00								178.85	2 intersecting qtz vein 15-30°
3.10	190	Sandstone - dark brown m-g. massive.						179.02	WO_4 30% - c-g.
191.00		191.40 - 191.60 - qtz, carb vein 20°, 1% f-g WO_4, 1% Sn 5% moly, 5% ?Sn?						180.40	qtz vein 30° 20mm, trace f-g WO_4
3.08								181.40	Fault 30°, F2, clay thick filled
194.00		194.51 - 194.70 - irregular qtz carb vein system, interpinned with a few sparse moly 30°-10°, 10-30mm.						181.90	fault f1, 40°, clay coated.
3.00	195	Irregular veined fractured contact.						182.20	qtz vein 40°, 20mm, upto 1% WO_4
	196.06	Quartz feldspar porphyry - fine to m.g. becoming rapidly altered from 196.20 - feldspars to 10mm. locally epidotic alteration.							moly
197.00		Contact 15° - f.g. quartz rich matrix.						183.60	qtz vein 45°, 25mm, upto 1% WO_4
3.08	198.47	Sandstone - altered, bleached fractured; tan dark brown, texture - fine to medium grained. Irregular dyke material 198.72 - 199.15						184.10	qtz vein 10cm, 45°, 0.5% WO_4 f-g
200.00	200							184.50	0 very minor moly
								185.90	qtz vein 50mm, 90°
								186.30	two qtz veins 5% Sn, 1% moly
								186.90	0.5% WO_4, 30-35°
								188.05	10-20mm qtz vein, 10% c-g WO_4 5% Sn
								188.-	10 mm vein 20% moly. 50°
								189.57	25mm qtz vein 1% c-g WO_4
								189.97	1% Sn, minor mass moly.
								190.37	20mm qtz vein, trace moly WO_4, 45°
								190.60	irregular qtz, carb veins 10°-30°
								191.00	3-5% moly.
								192.65	network of qtz veins, grained 5% moly, 0.5% cass
								193.60	0.5% WO_4 f-g.
								194.10	qtz vein trace WO_4, 15mm 35°
								194.35	
								195.30	195.50, several qtz veins 10°-30°
								196.06	fractured qtz veined, irregular orientation.
									trace fine grained WO_4 and moly. << 1%.
								198.72	qtz vein 30°, 1% moly trace WO_4
								199.45	qtz vein, 35° trace moly
								199.50	qtz vein 35° trace WO_4
								199.70	joined by thin veins

ABERFOYLE

DIAMOND DRILL LOG

HOLE Nº C1485 Page Nº 5

Feature

Bedding
Foliation
Fragment size & shape
Shearing
Fault
Vein
c carbonate
q quartz

Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.00	200	Sandstone - fine grained, silicified, fractured, brecciated - pale tan. chaotic, ex'ed. Contact 45°						200.32	] Two veins 15°-25° with trace fg. moly, WO4, 3mm qtz vein 20mm; 1% very f.g. WO4
	201.77	Feldspar porphyry. m.g. pale cream feldspars to 5mm, fine dusting tourmaline, appear to be locally ex'ed.						200.74	
203.00		Sandstone xenolith? 202.80 - 203.60							
3.04	205	Feldspar content variable, generally altered pale cream colour, some still fresh pale off white - size variation from 1mm to 10mm, commonly 5mm. Patchy dark green alteration (chlorite/amphibole?).						206.20	f.g. moly, WO4 patches 10mm.
206.00								206.47	vein clt, qtz, py, cpy 25°
3.04								206.65 - 206.75	f.g. moly, WO4 dissem
								207.25	f.g. blebby WO4.
209.00		Pale grey/cream colour 208.60 - 209.00.						207.35	
0.65		Crude banding 208.20, 209.40, 40°-45°.						209.14	f.g. dissem moly
209.75	210							209.35	f.g. " " "
2.34		Sandstone xenoliths 210.05 - 210.62, angular and rounded, qtz veined.							
212.00		From 212.63 - feldspar size varies from 1mm to 5-10mm 213.20. - subrounded qtz phenocrysts. - colour pale creamy white						212.25	212.35 - 10cm qtz veins 1% WO4 45°, 15°
3.03		From 214.05 - 223.35 the dyke is predominantly pale grey with patchy siderite alteration, minor fine grained chlorite/amphibole. feldspars are variably altered - vary in size <1mm to 10mm. minor patchy epidote alteration.						215.00	- 215.37 - fine grained dissem WO4, x'ls ave to 1mm length.
215.00	215							216.04	- 216.45 - fine/m qtz, carb vein with fg. ampl, some needle ? felt WO4 ?
3.02								217.60	- felt, carb, chlorite.
218.00								218.05	f.g. dissem moly.
3.04	220							219.17	- 219.40 - patchy diss. WO4
221.00								220.00	dissem WO4
2.92								220.82	dissem f.g WO4
	222.39							223.35	fine radiating needles WO4
	222.62	Transitional Zone - sandstone and irregular dyke stringers						223.75	
224.00		Shale - fine grained dark brown, massive and chaotic - sandstone clasts/cobbles are present. - fractured veined 225.35 - 226.15.						224.00	] irregular network of barren qtz, qtz carb veins.
2.97	225							224.43	
	226.15							224.83	] irregular network of qtz, carb veins - trace fractured f.g. WO4
227.00		Re x'ed altered feldspar porphyry, fine grained, siliceous - feldspars rarely visible - pale grey to off white in colour.						227.10	Ruggy qtz-carb vein, possible fault 15mm wide, minor brx'n
1.01									
228.00		From 228.10 - 229.56 chaotic sandstone dyke stringers interspersed (probably represents large xenolith						227.80	f.g. patchy moly.
2.11									
230.00	230	10 cm/m length) - Re x'ed							
3.06		Sandstone xenoliths 229.60-229.70.							
		- Re x'ed minor xenoliths 229.70-232.45							
233.00		Aft 232.45 - relatively unaltered porphyry, cream feldspars							
		From 232.65 - 234.20 - altered, re'ed weak foliation 10°-15° patchy siderite alteration							
3.08	235	234.70 - 236.75 - large stoke xenoliths upto 20cm long, fractured, veined.							
236.00		minor fine feldspar visible - colour grey to pale grey.							
		From 236.75 - 244.20 - becomes siliceous, pale grey to grey - foliated in parts 10°-15°							
2.90		patchy siderite alteration - minor xenoliths							
238.00		to 10cm in length - rarely are fine							
	240	remnant feldspars visible. Epidote							
3.00		alteration 242.00 - 242.55.							
241.00		Euhedral to subhedral feldspars 244.20 -							
		245.60 - variable altered - generally 1-2mm							
3.05		long - best seen 242.00 - 242.20 and							
245.00	245	245.60 - 245.20. - patchy siderite alts							
		common.							
3.60		Becomes massive, with rare feldspars visible siliceous from 245.60. abundant							
248.00		patchy siderite (after feldspars?). foliation 5°-10°							
3.02	250								

dissem'ed dark brown black crystals, sometimes needle like others as patchy aggregates (probably fine grained WO4?)

irregular fine patchy tourmaline.

ABERFOYLE

DIAMOND DRILL LOG

HOLE Nº C 1485

Feature

Bedding
Foliation
Fragment size & shape
Shearing
Fault
Vein
c carbonate
q quartz

Mineralization

Trace 1-5%
Common 5-15%
Abundant 15-60%
Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	250	Altered feldspar porphyry cont'd							
251.00		Foliation around 251.00, 10°.							
3.16		At 251.83 - relatively unaltered feldspar euhedral 1mm - 10mm.							
254.00		From 252.29 - 253.03 - altered by tourmaline and orange siderite.							Epidote alteration 253.03 to 253.43
2.16	255	Foliation 253.03 - 254 - 0° - 5°, un-altered feldspars 253.70 - 254 and 254.30 - 254.46							
256.20		Massive schistose, textureless pale grey/white							
0.88		from 254.46 - patchy siderite							
257.00		alteration - epidote alteration 257.03 - 257.43							
3.00		Altered tourmalinized sandstone xenoliths 256.70 - 257.75							
260.00	260	Foliated 259.00 - 260.65 -							dusty dots of tourmaline?
2.95		Rare feldspars over the interval 260.00 - 270.00 - massive schistose fine grained, irregular patchy siderite and minor epidote alteration + foliation present 0° - 5°, marked by stringers of tourmaline and fine feldspars.							
263.00									Trace stringers of pyrite and dusty dark brown mineral. WO_4?
2.94	265								
266.00									
2.75									
269.00									
1.80	270								
270.75									
3.14									
273.90									
1.06									
275.00	275	Patchily altered and unaltered feldspars to 5mm 276.20 - 278.40, also subrounded glassy phenocrysts - patchy zones of pale green fine grained epidote.							
2.90									Patchy aggregates and stringers of WO_4? subparallel to foliation trace f.g. dusty
278.00		Predominantly altered - rare visible feldspar 278.40 - 281.90 - pale grey to grey white							
3.02	280								
281.00		Highly siliceous, milky white 281.90 - 288.44 with minor patches of well developed feldspar. minor elongate angular sandyths.							
3.00									
284.00									
0.62 Pet sample taken out	285							285.29	vein with dipy, crenapy.
287.00								285.43	fine stringers of dark brown mineral WO_4? f.g. dusty.
2.22		From 288.94 - 296.70 are a number of large xenoliths of f.g. dark brown shale, clastic sandstone and shale - fractured, veined and with stringers and zones of fine grained altered porphyry. Minor relatively unaltered feldspars common in porphyry stringers. Contact? at 292.55.						286.70	fine stringers subparallel and patchy aggregates of f.g. dusty dark brown WO_4?
289.25								288.94	
0.85	290							291.10	stringers of f.g. dusty brown mineral WO_4?
290.00								291.80	
3.00									
293.00									
3.00	295	contact is hard to defined, It has been defined on the basis of abundance of shale/sandstone, relative to porphyry material.							
296.00	296.7							296.70	crumbly clay zone term F2?
		Sandstone Predominantly dark brown fine to medium grained, minor interbedded dark brown siliceous shale - sequence appears to be recrystallized.						297.70	Irregular qtz rich vein/dyke? some foliation 0°-15° to 50° 1mm - 1cm dusty WO_4 5% trace.
3.10								299.27	Intersected qtz vein/porphyry stringers 10% intersect.
299.00									
	300								

ABERFOYLE **DIAMOND DRILL LOG** HOLE Nº C1495 Page Nº 7

Feature Bedding, Foliation, Fragment (size & shape), Shearing, Fault, Vein (F, c carbonate, q quartz)

Mineralization Trace 1-5% Common 5-15% Abundant 15-60% Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.20	300	**Sandstone** – As above. 301.20 – 301.65 – qtz vein, 45° c fine dusty WO_4? 1% some fine euhedrals						300.65	f.g. dusty WO_4 and trace f.g. moly
302.00								300.90	qtz vein of f.g. dusty WO_4? to 5%
		302.45 – 302.47 – qtz vein, 75°, 5% dusty WO_4? a few specks moly.						302.34	qtz vein, 35°, 30mm, trace f.g. moly
2.85		Sandstone is massive dark brown, medium and fine grained, minor shale bands.						303.38	irregular qtz veins, intergrained feldspar, 2-3%, minor f.g. dusty stringers WO_4, some c.g. bleached euhedrals 5%
305.00	305							304.76	
								305.72	qtz vein 40° 20mm 1% f.g. moly
3.08		307.70 – 308.10 – qtz vein 50mm, 15°, 5% f.g. dusty WO_4 1% patchy moly.						306.72	qtz vein 35-50mm, 30°
								307.33	2% 1% f.g. dusty WO_4, moly
308.00		minor veining, barren 1% of total rock.						309.15	qtz vein 10mm, 35°, 1% WO_4 as large euhedrals
3.04	310							310.38	qtz vein 40°, 25mm, specks f.g. moly
311.00								311.56	qtz vein 40°, 15mm, 5% f.g. dusty WO_4
3.00								312.24	qtz vein 10-30mm 5-10°, 1-5%
	313.12							313.05	clots of dusty WO_4, minor specks moly
		Shale – massive to finely foliated, dark brown fine grained, siliceous.						313.37	20mm qtz vein, upto 1% f.g. moly
314.00	314.70							314.55	10mm qtz vein, upto 1% f.g. moly
	315	314.70 – 90°, 5mm qtz vein 20% f.g. moly						314.35	qtz vein 40°, 25mm, 5% f.g. moly.
3.00		314.90 – irregular qtz vein 8mm, 20% f.g. moly						316.06	1% dusty patches f.g. WO_4
317.00		315.55 – intersecting qtz veins, 5mm, 85°, 5% WO_4 f.g.						316.80	qtz vein 88° – 1% c.g. WO_4 and 0.5% f.g. patchy moly
		SANDSTONE – massive medium grained dark brown – bleached sandstone 315.25 – 314.55						317.50	
3.05								317.70	qtz vein 15mm, 5°, 1% f.g WO_4 & moly
320.00	320	f.g. hornfelsic shale 320.00 – 320.50						319.43	qtz vein, 60°, 20mm, 10% WO_4 as
		321.73, qtz vein 30°, 20mm, trace f.g. moly WO_4, 5% patchy SiO_2						320.20	patchy aggregates, 1% f.g. moly.
2.94		322.43 – 322.55 – irregular qtz vein 60°, 10-15mm. 5% WO_4, as patchy aggregates, 1% f.g. moly.						320.96	qtz vein 25° 10mm, 5% WO_4 patchy
323.00		Shale 323.75 – 324.45.						321.23	aggregates, 1% f.g. moly.
								322.15	qtz vein, 60°, 10mm, 5% WO_4, 1% moly
2.93	325							322.25	10mm qtz porphyry dyke, to undec qtz
326.00								323.66	phenocrysts intersecting barren qtz veins, 5mm, 25°
3.02								324.87	qtz carb vein 60°, 10mm 0.5% WO_4, moly
329.00		Bleached sandstone around qtz vein 329.32. Shale 329.80 – 330.40, f.g. chaotic, siliceous.						326.04	qtz vein 45°, c.g. WO_4 crystals 5%
	330							326.25	f.g. aggregates moly upto 5%
3.00		Sandstone – massive dark brown, fine to medium grained, 332.76, qtz vein 15mm 80° upto 1% WO_4, trace patchy SiO_2						327.15	to 327.25, barren qtz vein, trace chlor 80°
332.00		333.32 – 333.52 – qtz vein 2% c.g. bio? ±2% WO_4						327.44	qtz vein 15mm, 5°
3.00								327.74	crystal & 5% f.g clusters moly
335.00	335	335.10 – 335.40 – qtz vein 0°-5°, 10mm locally 20mm. 1% moly f.g. aggregates, 1-2% WO_4 c.g. some crosscutting veinlets carb, chl, qtz & arsenopy.						329.32	qtz vein 75°, trace < 1% moly WO_4
3.00		337.14 – 337.86 – Intersecting qtz, carb veins 10°-0° 5-10mm, ≤1% dusty WO_4 and moly f.g.						332.37	qtz, carb, chlor 10°-15° 25mm
338.00								333.65	5% c.g. patchy WO_4, 1-2% patchy moly
3.04	340	Bleached sandstone.						333.07	qtz vein 10mm 40°, 0.5% WO_4
341.00	341.05							333.21	qtz vein 10mm 40°, 20°, trace ≤1%
1.73 lost core tube comp off.		Chaotic Shale – bleached pale tan, irregular sandstone clasts. – slumped brecciated, subrounded fragments of sandstone and shale and fine grained shaly matrix.						334.97	moly 5%
344.00								336.76	qtz vein 88°, 5% c.g. WO_4, trace moly 10mm
	345							337.29	qtz vein 30°, 10mm. trace ≤1% WO_4
2.94	345.05	Sandstone – bleached to tan colour down to 346.50 – then dark brown massive with some bleached zones.						340.00	qtz vein 45°, 60mm. 1% c.g. WO_4.
347.00		chaotic shale 349.50 – 347.20.						341.60	341.05 – qtz, carb vein 10°, 5mm barren
3.03								344.14	5mm qtz vein, fine orientation barren.
348.08	350							346.75	irregular qtz carb vein 5mm 10°-15°
								347.87	5mm qtz vein 88°, 1% f.g moly ± WO_4
								348.12	qtz carb vein 5-30mm, 5°-20°
								348.67	irregular 1% WO_4 0.5% Sn 0.1% Moly f.g. crystals.

ABERFOYLE DIAMOND DRILL LOG HOLE No C1485 Page No 8

Feature: Bedding, Foliation, Fragment size & shape; Shearing, Fault, Vein (c carbonate, q quartz)

Mineralization: Trace 1-5%, Common 5-15%, Abundant 15-60%, Massive > 60%

CORE RECD	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.03	350	Sandstone - contd. Dark brown, massive, medium grained. Bleached to pale tan. 349.65 - 354.00.						350.17	qtz, carb vein 35°, 10mm 5% WO4
353.00		Chaotic shale 353.00 - 354.00.						358.42	5mm qtz vein, 88°, 20% WO4, 10% moly
2.97	355							353.30	qtz, carb vein, 5mm, 85°.
356.00									
2.95		Sandstone bleached 358.20 - 359.00. Sx'ed zone 358.70 - 358.80 - open vuggy qtz veins, single vein with moly.						358.20	bleached fault, F3, qtz, carb 65°
359.00								358.37	qtz vein 50°, 2% c-q WO4, 2% pinkish moly, 1% Sm
2.38	360	From 359.00 the sandstone is fine grained siliceous with chaotic zones of interlayered shale, locally bleached - colour is predominantly dark brown.						360	Fault, bleached, qtz, flu, sid, 85°
361.40								360.55	F2 vein 2 angh, arsenopy, 10% cas 25mm.
3.20								361.70	irregular qtz carb vein network 10° 1% moly, 2% cass. 5-20 mm
364.40	365							362.75	angh, arsenopy vein 3mm 45°
3.60									
367.50	367.63	contact planar 40°, cement siderite veinlets.							
368.00 0.54		Altered Siliceous Basic Volcanic - fine grained, siliceous dark brown and patchy zones dark green.							
3.00	370	Siliceous, hard rock - patchy aggregates f.g. cass							2% patchy cassiterite
	370.12	Altered Basic Volcanic - f.g. siliceous grey brown, greenish brown - patchy carbonate veinlets. Altered feldspars and irregular cherty concretions. Contact is a qtz, fluorite vein						371.60	qtz, fluorite, carb, angh vein 65°
371.00								371.80	qtz, fluorite vein, 45°
	371.8	Quartz, carbonate rock - medium grained dark black and white - abundant patchy carbonate segregations (some after altered feldspars) minor siderite, epidote alteration							fine grained patchy aggregates of cassiterite upto 1%.
3.05									Fault contact 45° slickensided, sheared zone serpentinised.
	373.10	Talc/carbonate rock - medium grained bright green with irregular pale cream carbonate veins and stringers. some visible carbonate altered feldspars. (Probably highly altered basic volcanic). Core loss 50%.							
374.00									
250 core loss	375								
375.00									
NO CORE	376.00	CAVITY - NO CORE RECOVERED - FAULT ZONE							
376.00 0.75									
377.00 0.90		Altered Siliceous Basic Volcanic - fine grained, siliceous grey to tan, finely veined by. v dark - remnant altered feldspars. cherty concretions common.							
378.00 1.50								378.3	Fault, F3, qtz, carb, clay, leached open, vuggy pyrite, slickensided 15°.
379.50	380	Chert - f.g. chaotic - pale tan - finely veined.							
2.00	380.25	Altered Basic Volcanic - completely leached pale tan medium grained carbonate rock from 380.25 to 383.80,						380.44	Fault, F1, slickensided 35°
381.40								380.33	Fault F3, healed qtz carbonate fluorite 80°
1.40 core loss		siliceous finely veined dark olive green with minor fine altered feldspars 383.80 - 386.40						F2	Breccia 344.40, 30°, slickensided
383.60								F4	Breccia 387.75-387.85, 30°
2.80	385	from 386.40 - 387.85 - variably bleached, dark brown to pale tan - rounded vesicles 387.38. fine scale carbonate veining common.						F4	Breccia zone 385.25 to 385.75 angular fragments, silicified 25°
386.00								387.00	15cm qtz carb fluorite vein 45°
3.07	387.85							387.80	1/2 cm WO4 qtz carb, vein at contact 65°
	388.45	Bleached bedded pale tan carbonate siltstone Bg 45°							
389.00		Basalt - f.g. olive green grading to dark green from 388.45 - 389.60 - massive. Bleached to tan colour 389.60 - 391.20 fine carbonate veining. Chert concretions fault bounded 390.17 - 390.45.						388.40	Shear Zone, bleached crushed basic volcanic.
2.70	390							389.80	
391.60								390.17	Fault F1, slickensided 40°
3.13	392							390.45	Fault F2, slickensided, 40°, healed qtz carbonate
394.00	394	Massive fine grained siliceous dark brown grading to dark olive green from 390.40 - 395.25 - Bleached pale tan 395.25 -							
395.00 0.75								396.22	250mm qtz vein, angh-kob 90°
1.60	396								
	398.00	End of Bore 398.00 Logged A Eadie 8-3-80							