

094246

**2000 SUMMARY REPORT ON THE
FOOT 1 - 20, 23-70, 83-86, 95-148, 171-174, 180-188, 216F,
217-218, 223-226, 233-308, 333-358, 383-390, 549-550, 575,
579-586, 603F, 605-607, Foot A 11-12, Kink 3,
Arch 1F-10F, Foot 215F, 219F-222F, 227F-231F**

**Located in the Pelly Mountains
Watson Lake Mining District
NTS 105G/8
61° 26' North Latitude
130° 07' West Longitude**

Prepared by

**Robert A. Duncan, M.Sc.
Geoffrey D. Bradshaw, B.Sc.
And
Terry L. Tucker, P.Geo.**

**EXPATRIATE RESOURCES LIMITED
Suite 701 - 475 Howe Street
Vancouver, BC, Canada
V6C 2B3**

August 2001

DATES OF WORK PERFORMED

17 MAY TO 22 JULY 2000

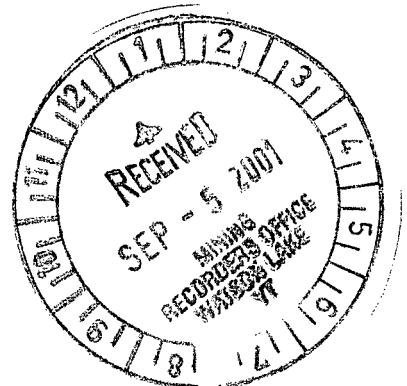


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DRILL HOLE CROSS SECTIONS

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1.0 2000 WORK PROGRAM

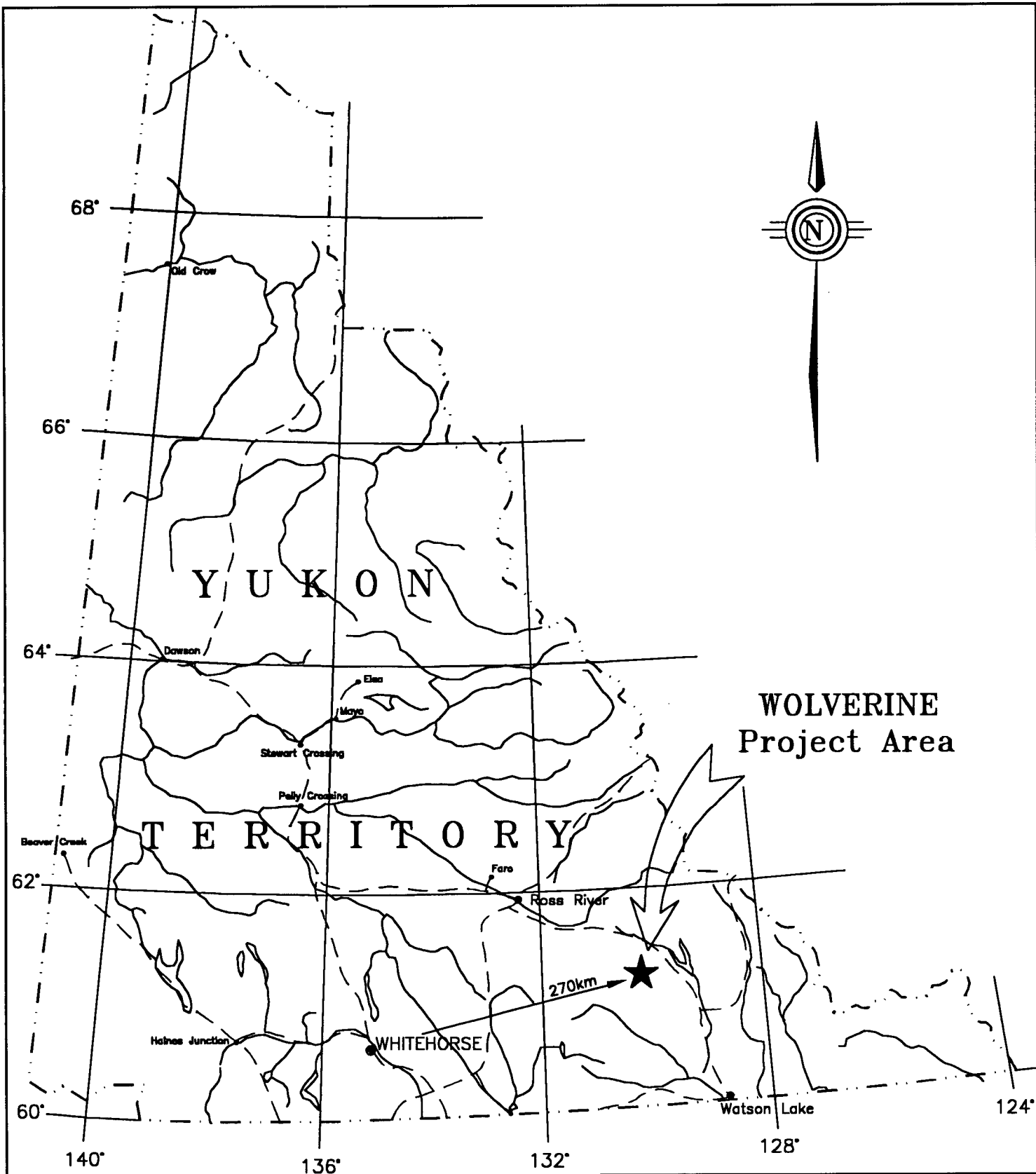
The FOOT property consists of 502 Yukon mineral claims located in the Watson Lake Mining District (figure 1) and cover the main portions of the Wolverine massive sulphide deposit. Figure 2 illustrates the detailed location of the claims.

Expatriate Resources Limited carried out a diamond drill program on the Wolverine Deposit during the 2000 exploration season with the objective of better defining the massive sulphide lens and to obtain data for geotechnical studies. The data and costs from this program are presented herein.

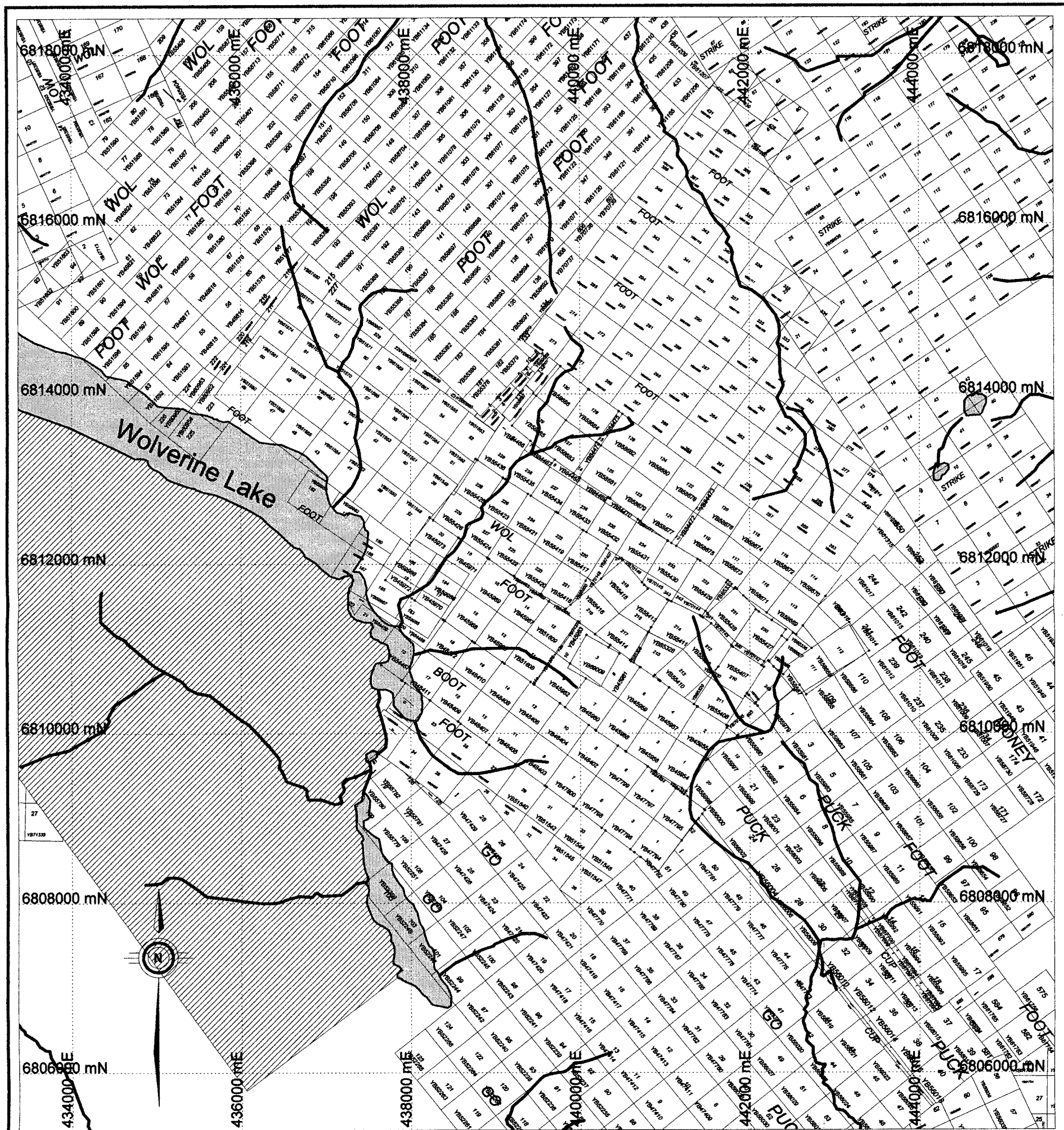
Mobilization commenced on April 29, 2000, while drilling commenced on May 17, 2000. Drilling continued until July 22, 2000. During this period, seven drill holes were completed on the Wolverine deposit for a total depth of 958 meters.

The program was supported from a base camp on Wolverine Lake that in turn was supported by an airstrip located approximately 5km to the southeast. The camp, the area of the deposit, and the airstrip are all connected by a dirt road (see figure 3). All drill cores are stored at the Wolverine Lake campsite, which is located on the FOOT 39 and 181 claims.

The 2000 work program is summarized in sections 3.0 and 4.0. Drill sections are found in the appendix. Figures 4 to 14 are the drill sections for the Wolverine deposit drill program. Figure 3 illustrates the drill hole collar locations.



	EXPATRIATE RESOURCES LIMITED	
Work By	Expatriate	
Date Drafted	Aug. 23, 2001	
Drafted By	R. Duncan	
N.T.S. Number		
File Name	Scale 1 : 2 500 000	
Wolv_Jac_Fig1.dwg	Figure 1.0	



LEGEND



R-Block



Lakes



Streams, Rivers



Mineral Claims



Expatriate Resources Ltd.

Fig. 2

Date: 23/08/2001

Author: R. Duncan

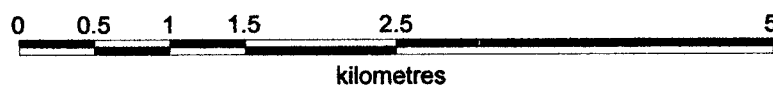
Office: Vancouver

Wolverine Joint Venture Claim Map

Scale: 1:50,000

Projection: UTM Zone 9 (NAD 27 for Canada)

Scale: 1:50,000



2.0 LIST OF CLAIMS

CLAIM	No.	GRANT No.	CLAIM	No.	GRANT No.	CLAIM	No.	GRANT No.
Foot	1	YB45954	Foot	39	YB51550	Foot	95	YB58651
Foot	2	YB45955	Foot	40	YB51551	Foot	96	YB58652
Foot	3	YB45956	Foot	41	YB51552	Foot	97	YB58653
Foot	4	YB45957	Foot	42	YB51553	Foot	98	YB58654
Foot	5	YB45958	Foot	43	YB51554	Foot	99	YB58655
Foot	6	YB45959	Foot	44	YB51555	Foot	100	YB58656
Foot	7	YB45960	Foot	45	YB51556	Foot	101	YB58657
Foot	8	YB45961	Foot	46	YB51557	Foot	102	YB58658
Foot	9	YB45962	Foot	47	YB51558	Foot	103	YB58659
Foot	10	YB45963	Foot	48	YB51559	Foot	104	YB58660
Foot	11	YB51608	Foot	49	YB51560	Foot	105	YB58661
Foot	12	YB51609	Foot	50	YB51561	Foot	106	YB58662
Foot	13	YB45966	Foot	51	YB51562	Foot	107	YB58663
Foot	14	YB45967	Foot	52	YB51563	Foot	108	YB58664
Foot	15	YB45968	Foot	53	YB51564	Foot	109	YB58665
Foot	16	YB45969	Foot	54	YB51565	Foot	110	YB58666
Foot	17	YB45970	Foot	55	YB51566	Foot	111	YB58667
Foot	18	YB45971	Foot	56	YB51567	Foot	112	YB58668
Foot	19	YB45972	Foot	57	YB51568	Foot	113	YB58669
Foot	20	YB45973	Foot	58	YB51569	Foot	114	YB58670
Foot	23	YB51534	Foot	59	YB51570	Foot	115	YB58671
Foot	24	YB51535	Foot	60	YB51571	Foot	116	YB58672
Foot	25	YB51536	Foot	61	YB51572	Foot	117	YB58673
Foot	26	YB51537	Foot	62	YB51573	Foot	118	YB58674
Foot	27	YB51538	Foot	63	YB51574	Foot	119	YB58675
Foot	28	YB51539	Foot	64	YB51575	Foot	120	YB58676
Foot	29	YB51540	Foot	65	YB51576	Foot	121	YB58677
Foot	30	YB51541	Foot	66	YB51577	Foot	122	YB58678
Foot	31	YB51542	Foot	67	YB51578	Foot	123	YB58679
Foot	32	YB51543	Foot	68	YB51579	Foot	124	YB58680
Foot	33	YB51544	Foot	69	YB51580	Foot	125	YB58681
Foot	34	YB51545	Foot	70	YB51581	Foot	126	YB58682
Foot	35	YB51546	Foot	83	YB51592	Foot	127	YB58683
Foot	36	YB51547	Foot	84	YB51593	Foot	128	YB58684
Foot	37	YB51548	Foot	85	YB51594	Foot	129	YB58685
Foot	38	YB51549	Foot	86	YB51595	Foot	130	YB58686

CLAIM	No.	GRANT No.	CLAIM	No.	GRANT No.	CLAIM	No.	GRANT No.
Foot	131	YB58687	Foot	225	YB60954	Foot	267	YB61040
Foot	132	YB58688	Foot	226	YB60955	Foot	268	YB61041
Foot	133	YB58689	Foot	233	YB61006	Foot	269	YB61042
Foot	134	YB58690	Foot	234	YB61007	Foot	270	YB61043
Foot	135	YB58691	Foot	235	YB61008	Foot	271	YB61044
Foot	136	YB58692	Foot	236	YB61009	Foot	272	YB61045
Foot	137	YB58693	Foot	237	YB61010	Foot	273	YB61046
Foot	138	YB58694	Foot	238	YB61011	Foot	274	YB61047
Foot	139	YB58695	Foot	239	YB61012	Foot	275	YB61048
Foot	140	YB58696	Foot	240	YB61013	Foot	276	YB61049
Foot	141	YB58697	Foot	241	YB61014	Foot	277	YB61050
Foot	142	YB58698	Foot	242	YB61015	Foot	278	YB61051
Foot	143	YB58699	Foot	243	YB61016	Foot	279	YB61052
Foot	144	YB58700	Foot	244	YB61017	Foot	280	YB61053
Foot	145	YB58701	Foot	245	YB61018	Foot	281	YB61054
Foot	146	YB58702	Foot	246	YB61019	Foot	282	YB61055
Foot	147	YB58703	Foot	247	YB61020	Foot	283	YB61056
Foot	148	YB58704	Foot	248	YB61021	Foot	284	YB61057
Foot	171	YB58727	Foot	249	YB61022	Foot	285	YB61058
Foot	172	YB58728	Foot	250	YB61023	Foot	286	YB61059
Foot	173	YB58729	Foot	251	YB61024	Foot	287	YB61060
Foot	174	YB58730	Foot	252	YB61025	Foot	288	YB61061
Foot	180	YB59982	Foot	253	YB61026	Foot	289	YB61062
Foot	181	YB59983	Foot	254	YB61027	Foot	290	YB61063
Foot	182	YB59984	Foot	255	YB61028	Foot	291	YB61064
Foot	183	YB59985	Foot	256	YB61029	Foot	292	YB61065
Foot	184	YB59986	Foot	257	YB61030	Foot	293	YB61066
Foot	185	YB59987	Foot	258	YB61031	Foot	294	YB61067
Foot	186	YB59988	Foot	259	YB61032	Foot	295	YB61068
Foot	187	YB59989	Foot	260	YB61033	Foot	296	YB61069
Foot	188	YB59990	Foot	261	YB61034	Foot	297	YB61070
Foot	216	YB87461	Foot	262	YB61035	Foot	298	YB61071
Foot	217	YB60946	Foot	263	YB61036	Foot	299	YB61072
Foot	218	YB60947	Foot	264	YB61037	Foot	300	YB61073
Foot	223	YB60952	Foot	265	YB61038	Foot	301	YB61074
Foot	224	YB60953	Foot	266	YB61039	Foot	302	YB61075

CLAIM	No.	GRANT No.	CLAIM	No.	GRANT No.	CLAIM	No.	GRANT No.
Foot	303	YB61076	Foot	387	YB61160	Foot	222	YB60951
Foot	304	YB61077	Foot	388	YB61161	Foot	227	YB60956
Foot	305	YB61078	Foot	389	YB61162	Foot	228	YB60957
Foot	306	YB61079	Foot	390	YB61163	Foot	229	YB60958
Foot	307	YB61080	Foot	549	YB61314	Foot	230	YB60959
Foot	308	YB61081	Foot	550	YB61315	Foot	231	YB60960
Foot	333	YB61106	Foot	575	YB61756			
Foot	334	YB61107	Foot	579	YB61760			
Foot	335	YB61108	Foot	580	YB61761			
Foot	336	YB61109	Foot	581	YB61762			
Foot	337	YB61110	Foot	582	YB61763			
Foot	338	YB61111	Foot	583	YB61764			
Foot	339	YB61112	Foot	584	YB61765			
Foot	340	YB61113	Foot	585	YB61766			
Foot	341	YB61114	Foot	586	YB61767			
Foot	342	YB61115	Foot	603	YB70735			
Foot	343	YB61116	Foot	605	YB70737			
Foot	344	YB61117	Foot	606	YB70738			
Foot	345	YB61118	Foot	607	YB70739			
Foot	346	YB61119	Foot	11A	YB71274			
Foot	347	YB61120	Foot	12A	YB71275			
Foot	348	YB61121	Kink	3	YB69009			
Foot	349	YB61122	Arch	1	YB89663			
Foot	350	YB61123	Arch	2	YB89664			
Foot	351	YB61124	Arch	3	YB89665			
Foot	352	YB61125	Arch	4	YB89666			
Foot	353	YB61126	Arch	5	YB89667			
Foot	354	YB61127	Arch	6	YB89668			
Foot	355	YB61128	Arch	7	YB89669			
Foot	356	YB61129	Arch	8	YB89670			
Foot	357	YB61130	Arch	9	YB89671			
Foot	358	YB61131	Arch	10	YB89672			
Foot	383	YB61156	Foot	215	YB87460			
Foot	384	YB61157	Foot	219	YB60948			
Foot	385	YB61158	Foot	220	YB60949			
Foot	386	YB61159	Foot	221	YB60950			

3.0 DRILL HOLE SUMMARY

Hole	Location	Grid East	Grid North	UTM East	UTM North	Elev.	T.D. (m)	Azm	Dip	Claim	Cost
WV-00-113	Wolverine	16325	16875	439711.9	6811173.2	1399	142.95	180	-65	FOOT 12	\$15,177
WV-00-114	Wolverine	16375	16855	439742.8	6811130.7	1397	136.86	180	-61	FOOT 12	\$14,531
WV-00-116	Wolverine	16225	16924	439661.1	6811267	1403	156.97	180	-80	FOOT 12	\$16,666
WV-00-117	Wolverine	16410	16850	439768.93	6811104.93	1400	146.00	180	-60	FOOT 12A	\$15,501
WV-00-118	Wolverine	16275	16900	439683.67	6811220.93	1404	139.29	180	-60	FOOT 12	\$14,789
WV-00-119	Wolverine	16300	16880	439693.55	6811190.47	1407	116.13	180	-58	FOOT 12	\$12,330
WV-00-120	Wolverine	16475	16795	439792.98	6811023.25	1399	119.48	180	-75	FOOT 10	\$12,685
Totals							957.68				\$101,678

4.0 DATES OF WORK

Hole	Location	Claim	Start Date	End Date
WV-00-113	Wolverine	FOOT 12	17-May	21-May
WV-00-114	Wolverine	FOOT 12	24-May	24-May
WV-00-116	Wolverine	FOOT 12	03-Jun	07-Jun
WV-00-117	Wolverine	FOOT 12A	11-Jul	14-Jul
WV-00-118	Wolverine	FOOT 12	14-Jul	17-Jul
WV-00-119	Wolverine	FOOT 12	17-Jul	20-Jul
WV-00-120	Wolverine	FOOT 10	20-Jul	22-Jul

5.0 DRILL CORE STORAGE

All Wolverine Deposit drill cores are stored at the Wolverine Lake campsite, which is located on the FOOT 39 and 181 claims.

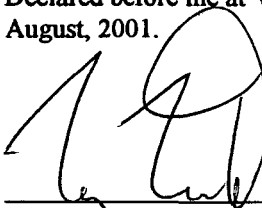
6.0 STATEMENT OF EXPENDITURES

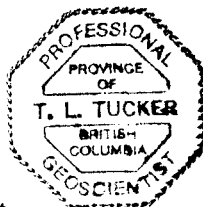
I, Terry L. Tucker as agent for Expatriate Resources Limited, #701-475 Howe Street, Vancouver, B.C. do solemnly declare that diamond drilling was carried out on the FOOT 10, 12 and 12A claims between 17 May, 2000 and 22 July, 2000.

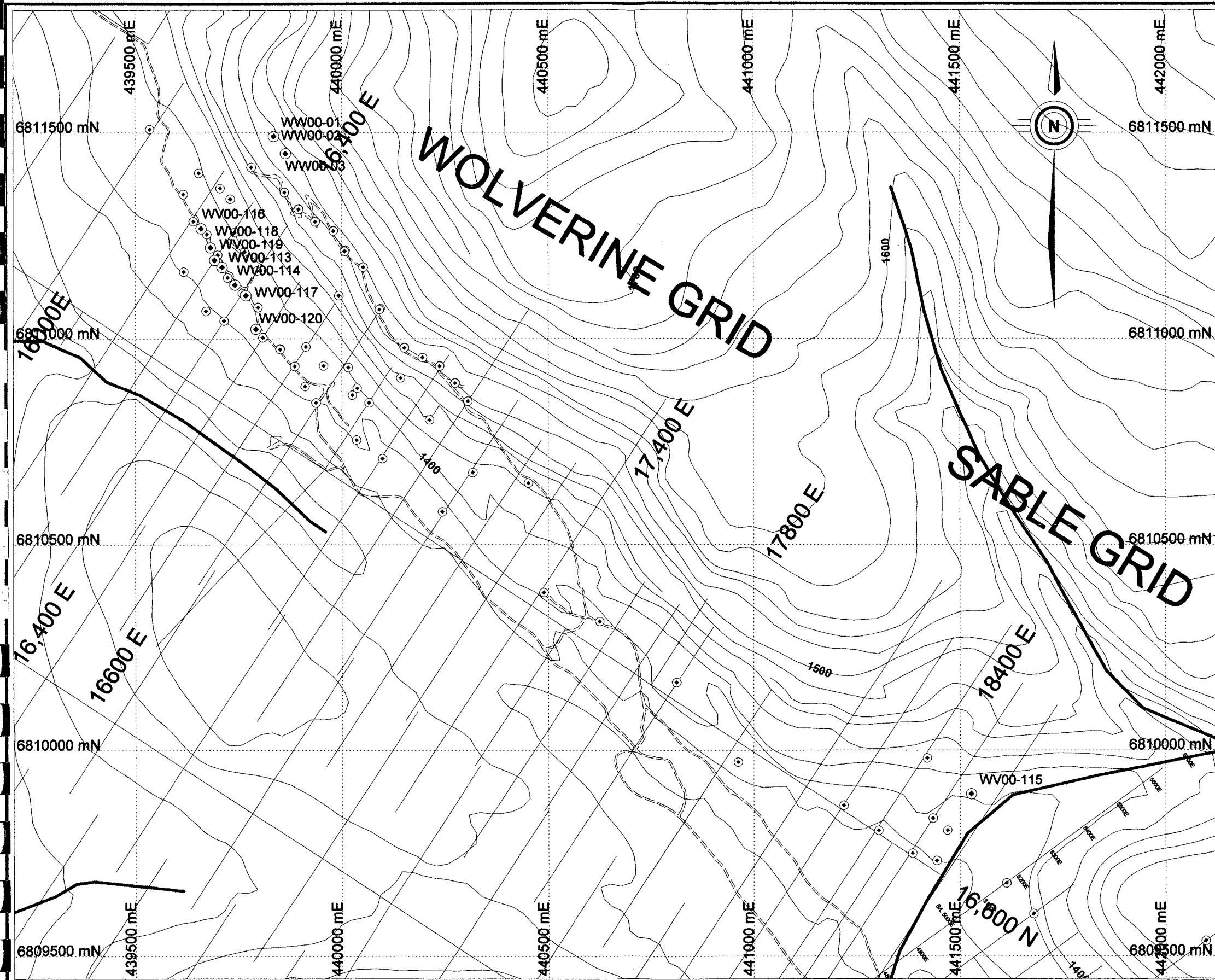
Diamond Drilling on the Foot 10, 12 and 12A claims - \$101,678.42

I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

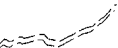
Declared before me at Vancouver in the Province of British Columbia this 31 day of August, 2001.


 Terry L. Tucker, P. Geo, Project Geologist





LEGEND

-  2000 Drill Hole Collars
-  1995-1997 Drill Hole Collars
-  Streams, Rivers
-  Drill Roads
-  Geophysical/Drill Grids



Expatriate Resources Ltd.

Fig. 3

Date: 23/08/2001

Author: R. Duncan

Office: Vancouver

Scale: 1:10,000

Projection: UTM Zone 9 (NAD 27 for Canada)

Drill Hole Location Map

Scale: 1:10,000



7.0 STATEMENT OF QUALIFICATIONS

I, Geoffrey D. Bradshaw of #201, 2390 West 1st Avenue, Vancouver, in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Geologist in the employ of Expatriate Resources Limited with offices at #701-475 Howe Street, Vancouver, British Columbia.
2. THAT I have practiced my profession with various mining companies in British Columbia, Yukon Territory and Chile for six years.
3. THAT I am a graduate of the University of British Columbia (1996) and hold a Honours Bachelor of Science Degree in Geology.
4. THAT I am registered as a Professional Geoscientist in Training with the Association of Professional Engineers and Geoscientists of British Columbia (APEGBC) since 1996.
5. THAT this report is based upon work on the property that I have either personally conducted or supervised between May 23 and August 10, 2000.
6. THAT I have no direct interest in the property described herein, nor do I expect to receive any interest.

DATED at Vancouver, British Columbia this 31 day of August, 2001.

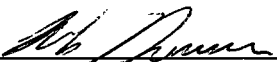


Geoffrey D. Bradshaw
Geologist

I, Robert A. Duncan of 3399 Quesnel Drive, Vancouver in the Province of British Columbia, DO HEREBY CERTIFY:

1. THAT I am a Geologist in the employ of Expatriate Resources Limited with offices at #701-475 Howe Street, Vancouver, British Columbia.
2. THAT I have practiced my profession with various mining companies in North West Territories, Nunavut, Manitoba, Saskatchewan, British Columbia, Yukon Territory, and the United States of America, for ten years.
3. THAT I am a graduate of the University of British Columbia and hold a Honours Bachelor of Science in Geology (1996) and a Master of Science in Geology (1999).
4. THAT this report is based upon work on the property that I have either personally conducted or supervised between May 23 and August 10, 2000 and October 17th and November 3rd 2000.
5. THAT I have no direct interest in the property described herein, nor do I expect to receive any interest.

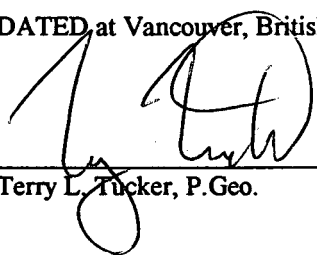
DATED at Vancouver, British Columbia this 31 day of August, 2001.

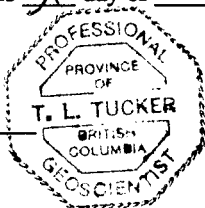

Robert A. Duncan, M.Sc.

I, Terry L. Tucker of 1541 Mahon Avenue, North Vancouver in the Province of British Columbia, DO
HEREBY CERTIFY:

1. THAT I am a Geologist in the employ of Expatriate Resources Limited with offices at #701-475 Howe Street, Vancouver, British Columbia.
2. I am a graduate of the University of Alberta (B.Sc. Specialization Geology, 1989)
3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, an Associate of the Geological Association of Canada, a member of the Canadian Institute of Mining and Metallurgy, a member of the Society of Economic Geologists, a member of the BC and Yukon Chamber of Mines, and a member of the Prospectors and Developers Association of Canada.
4. I have practiced my geological profession since 1986 in many parts of Canada, Europe, United States, Mexico, Africa, Australia and Papua New Guinea.
5. THAT this report is based upon work on the property that I have either personally conducted or supervised between May 23 and August 10, 2000 and October 17th and November 3rd 2000.
6. THAT I have no direct interest in the property described herein, nor do I expect to receive any interest.

DATED at Vancouver, British Columbia this 31 day of Aug, 2001.


Terry L. Tucker, P. Geo.



**2000 SUMMARY REPORT ON THE
FOOT 1 - 20, 23-70, 83-86, 95-148, 171-174, 180-188, 216F,
217-218, 223-226, 233-308, 333-358, 383-390, 549-550, 575,
579-586, 603F, 605-607, Foot A 11-12, Kink 3,
Arch 1F-10F, Foot 215F, 219F-222F, 227F-231F**

8.0 DRILL LOGS

DRILL LOG

PROJECT Wolverine	GROUND ELEV.
HOLE NO. WV00 - 113	BEARING GS
LOCATION 16325 E Lynx Zone 16875 N	DIP - 65
	TOTAL LENGTH 142.95 m.
LOGGED BY GB	HORIZONTAL PROJECT
DATE May 24 / 2000	VERTICAL PROJECT
CONTRACTOR DJ	ALTERATION SCALE
CORE SIZE HQ	0 1 2 3 absent slight moderate intense
DATE STARTED May 17 / 2000	TOTAL SULPHIDE SCALE
DATE COMPLETED May 21 / 2000	0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10%
DIP TESTS	
COMMENTS Iron formation 35.9 - 38.7 , 40.3 - 42.7 and 45.8 - 47.0 m. Intersected an upper massive sulphide (92.84 - 93.78) which is low grade (mainly pyrite). A more complex lower zone was intersected from 97.39 - 110.35 (12.96m) This zone contains two distinct sulphide lenses and a lengthy stringer zone containing sulphides + carbonate. Hole cemented from 270' to bottom. (82.3 - 142.9m)	LEGEND

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS				
		FROM	TO	WIDTH		Au (g/t)	Ag (g/t)	Cu (%)	Pb (%)	Zn (%)
		95.5	97.39	1.89	419012					
		97.39	98.28	0.89	419013	3.77	650	0.14	2.54	19
MASSIVE SULPHIDES - sharp upper ct. ~ 30% sph, 50% py, 20% gangue		98.28	98.95	0.67	419014	0.48	126	0.18	0.53	1.43
- f.g. red-brown sph in wispy regular bands esp ab at top (97.39-97.53) and bottom (98.00-98.28). Up to 3 cm wide.		98.95	99.80	0.85	419015	3.63	718	0.24	5.76	9.73
- py in f.g. bands alternating w/ sph.		99.80	101.60	1.80	419016	0.27	68	0.34	0.41	6.50
Also in patches and coarser disseminations.		101.60	103.00	1.40	419017	<0.07	18	0.07	0.16	1.73
MASSIVE SULPHIDES - sharp contacts. ~ 60% py, 9% sph + 1% cpy in a sericite + calcite gangue. Py in f.g. patches + bands up to 10 cm wide. Sph is mainly in 1-2 mm bands. cpy in X-cutting stringers at both contacts.		103.00	104.30	1.30	419018	<0.07	19	0.03	0.06	0.54
		104.30	105.58	1.28	419019	<0.07	<3	0.01	0.01	0.03
RHYOLITE FRAG. w/ STRINGER SULPHIDES 8-10% med gr. py in irregular bands (1-3 mm). 2-3% sph in bands up to 5 mm. 1-2% cpy in blebs and X-cutting stringers. (ass/ w chl)		105.58	107.14	1.56	419020	<0.07	21	0.09	0.09	2.23
		107.14	108.87	1.73	419021	<0.07	41	0.15	0.3	4.74
CARBONATE-PYRITE EXHALITE patchy f.g. py to 104.3. ~ 70% of unit. irregular blebs.		108.87	110.35	1.48	419022	0.14	114	0.48	0.55	5.65
		110.35	112.0	1.65	419023					
SERICITIC TUFF w/ STRINGER SULPHIDES Overall - ~10% py 5-7% sph 1-2% cpy. 105.6-106.5 patches + stringers of fine med gr. py + sph. minor cpy. 107.1-108.9 ~ 15% py 5% sph in bands and med. coarse disseminations 108.9-109.7 ~ wavy bands of f.g. py (~20%) w/ lesser f.g. sph (~3%) 109.7-110.2 ~ ob. sph (10%) in med. gr. bands + disseminations. 110.2-110.35 ~ arg. layers clotted cpy + stringers at lower ct.		112.0	114.5	2.5	419024					
		114.5	116.0	1.5	419025					
		116.0	117.5	1.5	419026					
		117.5	119.0	1.5	419027					

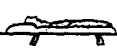
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					SP	CH	CS	SI	MT		
A	B	C	D	E							
118.2 - 125.4				GREEN - GREY SERICITE ALTERED RHYOLITE TUFF							
120				RHST							
				- strong sericite on partings							
				- fine grained							
121				- minor calcite bands + blebs.							
				- traces disseminated py.							
122											
123											
124											
125											
125.4 - 142.95				GREY FINE GRAINED RHYOLITE TUFF							
126				RHTT							
				- sericitic partings (weak)							
				- calcite common as blebs and 1-2 mm bands							
127				- minor argillaceous component as wispy mm-scale laminations.							
128											
129				125.4 - 126.3 - Qtz + CO ₂ vein zone							
130											
131											
132											
133											
134											
135											
136											
137											
138											
139											
140											
141											
142				142.95 - EOH							

DRILL LOG

PROJECT Wolverine	GROUND ELEV.
HOLE NO. WV-00-114	BEARING Grid South
LOCATION 16375E (Lynx zone) 16855N	DIP -61
	TOTAL LENGTH 136.86
LOGGED BY GB	HORIZONTAL PROJECT
DATE May 25 / 2000	VERTICAL PROJECT
CONTRACTOR DJ Drilling	ALTERATION SCALE  absent slight moderate intense
CORE SIZE HQ	
DATE STARTED May 21 / 00	TOTAL SULPHIDE SCALE  traces only < 1% 1% - 3% 3% - 10% > 10%
DATE COMPLETED May 24 / 00	
DIP TESTS	
COMMENTS Massive Sulphide from 93.79 to 96.66 meters. Low grade intersection composed of mainly pyrite. Cemented from 300' - bottom (91.4 - 136.9m)	LEGEND

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					ser A	chl B	calc C	sil D	mt E		
56	ARCB	///		54.86-61.57 BLACK CARBONACEOUS ARGILLITE							
57		///		ARCB - finely laminated sub mm argillite layers							
58		///		w/ frequent grey siliceous zones.							
59		///		core very broken, minor qtz veining							
60		///		minor calcite.							
61	RHMS	///		poor recovery through much of unit.							
62		///									
63		///		60.0-61.57 - fault zone.							
64		///									
65		///									
66		///		61.57-70.80 GRAY MASSIVE APHANITIC RHOMOLITE							
67		///		RHMS - brownish spongy partings							
68		///		siliceous w/ minor calcite blebs/bands.							
69		///									
70		///									
71	ARCB	///		70.80-71.17 - fault zone							
72		///									
73		///		70.80-83.50 BLACK CARBONACEOUS ARGILLITE							
74		///		ARCB - same as 54.86-61.57 abv.							
75		///		- local calcareous zones to 10cm.							
76		///		- local qtz veining (minor)							
77		///									
78		///		74.37-77.11 - no core recovered							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Ser A	chl B	CO ₂ C	sil D	m mt. p ₈		
79	ARCB		85°	ARCB (cont.)							
80											
81											
82											
83				83.50-86.56 STGG							
84	STGG			BLACK STRONGLY GRAPHITIC FAULT GOUGE minor qtz veining.							
85											
86											
87											
88											
89	ARGR			86.56-93.21 ARGR							
90				BLACK GRAPHITIC ARGILLITE - strongly graphitic + broken to 89.8 after 89.8, thinly laminated arg w/ siliceous domains. Local CO ₂ zones. - possible flt at lower ct.							
91											
92											
93											
94	PYMS			93.21-93.79 PYMS							
95				PYRITE RICH MASSIVE SULPHIDE - 95% sulphides, 5% qtz/org gangue. - no other sulphides observed. - f.g - m.g. py, massive + textureless.							
96											
97											
98											
99	ARCB		80°	93.79-94.39 STGG							
100				BLACK GRAPHITIC FAULT GOUGE minor calcite + pyrite.							
	ARCB			94.39-96.66 PYMS							
				PYRITE RICH MASSIVE SULPHIDE 90% sx 10% carbonate gangue. Faults at contacts.							
	ARCB			96.66-100.07 ARCB							
				BLACK CARBONACEOUS ARGILLITE calcite common as blobs + bands sharp lower contact at 85°.							

PAGE // OF //		PROJECT:		HOLE NO. WV-00-114								
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION		ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
						ser A	chl B	CO ₂ C	sil D	m mt-pb E		
125	RHTT	5	✓	RHTT								
		5	✓	(cont.)	124.5 - graphitic fault gouge.							
126		5	✓									
127		5	✓									
128		5	✓									
129		5	✓									
130		5	✓									
131		5	✓									
132		5	✓									
133		5	✓									
134		5	✓									
135		5	✓									
136		5	✓									
137		5	✓	136.86 - EOH								

DRILL LOG

PROJECT Wolverne		GROUND ELEV.	
HOLE NO. WV-00-116		BEARING Grid South	
LOCATION 16225 R 16924 N		DIP -80	
		TOTAL LENGTH 156.97	
LOGGED BY G. Bradshaw		HORIZONTAL PROJECT	
DATE June 4		VERTICAL PROJECT	
CONTRACTOR DJ		ALTERATION SCALE  - absent - slight - moderate - intense	
CORE SIZE HQ			
DATE STARTED June 3			
DATE COMPLETED June 7		TOTAL SULPHIDE SCALE  - traces only < 1% 1% - 3% 3% - 10% > 10%	
DIP TESTS 5.2 m → -78.7° 191.1 85.3 m → -77.4° 183.3 } grid azimuths. 157.0 m → -71.9° 192.6			
COMMENTS Hole cemented from 355' to bottom (108.2-157.0) Thin (1.15 m) high grade massive sulphide intersected 114.04 - 115.19 m.		LEGEND	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					ser	chl	co ₂	si	mt		
3				0.0-3.35 LASING OHCS							
4		3.35		3.35-17.31 LIGHT GREY APHANITIC MASSIVE - TUFFACEOUS RHFS RHYOLITE							
5		✓		massive aphanitic zones of silica separated							
6		✓		by grey-green sericite bands parallel to foln.							
7		✓		rare microlites							
8		✓		silvery sericite prominent on foliation.							
9		✓		mod-strong rusty (Fe ox.) weathering on							
10		✓		fracture surfaces. (weaker after 15.3 m)							
11		✓		minor qtz veining (16.68-16.78)							
12		✓		(6.10-7.54 → broken up dark grey rock,							
13		✓		very siliceous may have argillite component)							
14		✓									
15		✓									
16		✓									
17		✓		17.31-19.80 INTERBEDDED GREY SILICEOUS APHANITIC RHAR RHYOLITE AND BLACK CARBONACEOUS ARGILLITE							
18		✓		- 70% aphanitic rhyolite (as above)							
19		✓		- 30% thinly laminated carbonaceous argillite.							
20		✓		typically 2-3 cm interbeds. up to 10 cm							
21		✓		bedding is approx. parallel to foln. (60°)							
22		✓		(19.80-24.08 - broken core - pebbles)							
23		✓		19.80-31.05 LIGHT GREY - GREENISH APHANITIC RHYOLITE RHFS							
24		✓		dominantly of msu. aphanitic aphyric silica w/							
25		✓		frequent micaceous (ser + muschl) partings.							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					ser A	chl B	co ₃ C	Si D	mt E		
26				RHFS (cont.)							
27				(25.30 - end of Fe oxide weathering on fractures)							
28											
29											
30											
31	31.05			31.05-35.09							
32				RHAR							
33				INTERBEDDED GREY APHANITIC FELSITE AND CARBONACEOUS BLACK ARGILLITE.							
34				- 50% thinly laminated blk argillite							
35	35.09			- 50% dk-lt grey aphanitic siliceous "felsite" (31.39-34.14 → lost core)							
36				- interbeds typically 1-2 cm w/ contacts parallel to foln.							
37											
38				35.09-46.67							
39				RHFS							
40				LIGHT GREY BANDED APHANITIC FELSITE / SILICA EXHALITE?							
41				70% pure white aphanitic silica rhythmically banded w/ - 30% 0.5-5 cm argillaceous to micaceous laminae. (parallel to foln.)							
42				siliceous domains (exhalative?) range from 0.5 cm - 10 cm.							
43				contains ~1% disseminated to rarely banded magnetite							
44				- chl common locally - results in greenish halos in siliceous domains.							
45				- micaceous laminae composed of forest green chl + light brown biotite							
46				- tuffaceous interbeds up to 15 cm (45.93-46.08)							
47				46.67-47.96							
48				EXMT							
49				GREY-GREEN-BLACK BANDED MAGNETITE IRON FORMATION.							
50				- similar appearance to above unit - upper							
51				it marked by increase in magnetite to ~							
52				10% as 1-2 mm bands - fine disseminations.							
53				- 47.00-47.66 → sh. & chl alt. results							
54				in dk grn. siliceous w/ - 40% mt in bands							
55				up to 1.5 cm wide.							
56				- ~20% mt. overall							
57				- 47.05-47.24 - and 47.24-47.44 w/ cts.							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Ser A	Chl B	CO ₂ C	Si D	Mt. E		
72	72.85	RHFS	RHFT	58.33-61.16 GREY-GREEN SERICITIC RHYOLITE LAPILLI TUFF							
73				strong foln. w/ mod sericite altn. 1-2mm foln para- calcite bands. flattened siliceous "lapilli" tht. w/ avg size 1x5mm. Enable.							
74											
75	76	RHFS	ARTF	61.16-65.53 DARK GREY-BLACK TUFFACEOUS ARGILLITE							
76				short interval of carbonaceous arg mixed w/ rhy tuff abv. Ab. ben. core / Flt. zones. Minor sericite.							
77											
78	79	RHFS	ARTF	65.53-69.49 GREENISH GREY APHANITIC FELSITE							
79				broken, blocky tht. interval. Distinct green on fct due to weak sericite altn? Texture is massive aphanitic silica w/ rare microlites. sharp upper and lower contacts.							
80											
81	82	RHFS	ARTF	69.49-70.30 DARK GREY-BLACK TUFFACEOUS ARGILLITE							
82				short interval of finely laminated carbonaceous arg. interbeds (<1mm-1cm) within rock described below							
83											
84	85	RHFS	ARTF	70.30-72.85 GREY MASSIVE APHANITIC FELSITE							
85				fractured looking irregular aphanitic siliceous domains separated by green-brown micaceous partings. calcite blebs and bands common. bull qtz vein cuts through middle of unit (71.33-72.30)							
86											
87	87.22	RHFS	ARTF	72.85-87.22 BLACK CARBONACEOUS ARGILLITE							
88				20-30% tuffaceous component. Mod-strongly graphitic. 74.17-74.37 = grey gouge zone. 84.95-86.66 = blk aphanitic gouge zone. sub-mm foln. parallel calcite blebs common.							
89											
90	91	RHFS	ARTF	87.22-93.24 GREY-PURPLISH VERY FINE GRAINED APHANITIC RHYOLITE ASH TUFF							
91				siliceous unit w/ frequent sub-mm pale qtz. sericite + brown bt partings parallel to foln. (the latter causing a distinct purple tinge). very fine mt (+ pb) flattened on foln. (88.04-88.39 massive f.g. grey carbonate (calcite + dolomite?) w/ sharp contacts.) local calcite beds (~1cm) may be a diagenetic.							
92											
93	93.24	RHFS	ARTF	93.24-93.98 BLACK TUFFACEOUS ARGILLITE							
94				mod. carbonaceous weakly tuffaceous finely laminated arg. shp. contacts.							
95											

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					St A	Chl B	Co ₃ C	S D	Mt. E		
95				93.98-101.14 RHTT							
96				GREY FINEGRAINED - APHANITIC WEAKLY BANDED CALCAREOUS RHYOLITE ASH TUFF.							
97				- siliceous unit w/ indistinct partings							
98				containing ~5% grayish white disseminated -							
99				patchy calcite + 3-5% py as dark brown							
100				fg. irregular patches - bands.							
101				- foliation not as prominent as usual.							
102				unit tends to fracture at low angles to c.g.							
103				- local qtz veining - to 3cm.							
104				- unclear if CO ₂ is alteration or an exhalative							
105				origin.							
106				101.14-105.42 RHFR							
107				GREY MASSIVE APHANITIC FRAGMENTAL RHYOLITE.							
108				- poorly foliated, has irregular jagged fractures							
109				at low angles to c.g. Qtz veins common.							
110				- white aphanitic siliceous domains are separated							
111				by <1mm - 2mm dark grey wavy irregular pyritic partings.							
112				- microlites common rare brown tuffaceous bands							
113				105.42-106.14 RHFS							
114				GREY MASSIVE APHANITIC RHYOLITE							
115				- aphanitic silica w/ weak foliation and indistinct							
116				1mm - rarely 1cm grey discontinuous foln. // bands.							
117				106.14-108.89 ARCB							
118				BLACK CARBONACEOUS ARGILLITE							
119				thinly laminated mod. carbonaceous argillite w/							
120				~30% grey siliceous component // to foln.							
121				strong foln. mostly broken core.							
122				108.89-112.33 RHTT							
123				MEDIUM GREY VERY FINE GRAINED - APHANITIC WEAKLY							
124				BANDED RHYOLITE ASH TUFF.							
125				- strong foln w/ // weak banding (bedding?) on a mm-cm scale.							
126				- sericite very minor. most bands py. (1mm - 1cm) (~3% py)							
127				- Rare traces of sphalerite // to foln.							
128				112.33-114.04 ARCB							
129				BLACK SILICEOUS - CARBONACEOUS ARGILLITE							
130				- thinly laminated mod. carb. arg. - siliceous near upper ct.							
131				- calcareous intervals to 2cm 2-3% fg. foln. // py.							
132				114.04-115.19 SPMS							
133				SPHALERITE RICH MASSIVE SULPHIDE							
134				- very sharp upper and lower contacts at 65°							
135				to core axis (parallel to foln).							
136				- core angle = 65°							
137				- see opposite page for detailed description.							

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
3-5% py - mainly in irregular, wispy bands. some coarser grained disseminations.									
98.68 - tr. diss. cpy in qtz vein. qtz un- 3 cm. 50' to c.a.									
5-7% f.g. disseminated py. in irregular wavy grey bands. 0.5-5 mm wide									
- 3-5% py disseminated (f.g. med. gr.) in grey bands // to foln. Bands up to 1.5 cm.		105.42	106.14	0.72	419080				
- 1% py. foln // 1-3 mm bands.		106.14	108.89	2.75	419081				
SPHALERITE RICH MASSIVE SULPHIDE:		108.89	110.44	1.55	419082				
- grade estimate: 1% Cu, 20% Zn									
- fine grained banded sph + py + tr cpy. intimately mixed w/ fine grained white calcite gangue.		110.44	112.33	1.89	419083				
→ 114.04 - 114.30 → 60% sph, 20% gangue, 17% py, 3% cpy. Mainly fine grained massive - banded red-brown sph. Bands are crude, and sph is well mixed w/ calcite gangue. py bands are better defined. 1-3 mm.		112.33	114.04	1.71	419084				
cpy occurs as fine disseminations, mostly at upper th (114.23 - 114.36 msu sph grades from rd brn + orange)		114.64	115.19	1.15	419085				
→ 114.30 - 114.98 → 50% py, 40% sph 10% gangue. Well banded f.g. red-brn - orange sph and brn. py - bnds 1 mm - 1 cm. slightly coarser diss. py occurs tht int. f.g. grainy to blebby calcite gangue common tht. (continued on page 12)		115.19	116.94	1.75	419086				
		116.94	118.62	1.68	419087				

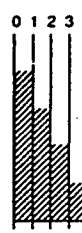
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					ser A	chl B	CO ₃ C	S ₁ D	Fe E		
141				ARGR (139.29 - 139.50 - siliceous pebbles w/ Feox alter py)							
142				(cont.) (140.82 - 142.26 - graphitic fault gouge)							
143											
144				(144.17 - 145.26 - aegirine + XH tuff flt gouge)							
145	144.91			144.91-154.95 GREY FELDSPAR-QUARTZ CRYSTAL TUFF							
146				RPTF - crowded flattened feldspar xHs (avg 1.2 mm) + sparse ovoid blue Qtz eyes							
147				(avg 2x3 mm) in a well foliated dark grey weakly saccitic tuff.							
148				may have minor argillaceous component.							
149				minor Qtz veining							
150				infrequent 5-8 mm fine dark brown py bands (exhalative).							
151				frequent minor gouge zones from 149.54 - 154.95 m.							
152											
153				154.95-156.97 GREY CARBONACEOUS ARGILLITE							
154				ARCB - dirty dark grey "footwall" argillite							
155	154.95			<1% 1-3 mm py. bands.							
156				tuffaceous component - siliceous 1-5 mm bands tht. unit.							
157	156.97			156.97 EOH.							

DRILL LOG

PROJECT Wolverine Joint Venture	GROUND ELEV.
HOLE NO. WV00-117	BEARING Grid South
LOCATION 16+410 E 16+850 N	DIP -60°
	TOTAL LENGTH 479 feet 146.00m
LOGGED BY Frank Gish	HORIZONTAL PROJECT
DATE July 11-14 2000	VERTICAL PROJECT
CONTRACTOR DI Drilling Company	ALTERATION SCALE
CORE SIZE HQ	 absent slight moderate intense
DATE STARTED July 11/2000	TOTAL SULPHIDE SCALE
DATE COMPLETED July 14/2000	 traces only < 1% 1% - 3% 3% - 10% > 10%
DIP TESTS Reflex E-Z shot 6.7m -59.2 grid 181 74.4m -58.0 grid 184 144.5m -58.6 grid 182	
COMMENTS Iron Formation 41.75 - 43.13 m 44.10 - 44.45 m massive Sulphides 101.21-107.80 m 110.24-110.62 m hole completed from 83.83 to 146.00m	LEGEND

PAGE 1 OF 11		PROJECT:					HOLE NO. W-00-117				
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ
					A	B	C	D	E		
30				0.0-6.70 Casting							
31				6.70-32.50 Overburden - average 2-3 cm subrounded RHFS and RHAR							
32				32.50-41.75 Grey Massive Aphanitic Felsite							
33		85		RHFS - sericitic partings @ 85-90° - 10% broken core - greenish grey glassy opaque lustre							
34											
35											
36											
37											
38		85									
39											
40											
41				41.75-43.13 Grey Black Green Banded Magnetite Iron EXMT Formation							
42		81		- thin black magnetite bands within fine grained siliceous matrix							
43				- trace Au							
44		90		43.13-45.23 Grey Massive Aphanitic Felsite RHFS - same as unit from 32.50-41.75 - includes EXMT 44.10-44.45							
45				45.23-48.90 Black Carbonaceous Argillite ARCB - 10% RHFS laminae							
46				- increasingly broken down hole							
47											
48											
49				48.90-54.05 ? - green & grey fault breccia?							
50		76		- includes carbonate fragments up to 4cm, subrounded quartz clasts 1-3mm, carbonaceous argillaceous fragments, RHFS fragments							
51				- fine grained green chlorite alt?							
52				matrix							

DRILL LOG

PROJECT Wolverne		GROUND ELEV.	
HOLE NO. WV-00-118		BEARING G5	
LOCATION 16275E 16900N		DIP -60	
		TOTAL LENGTH 139.29	
LOGGED BY G. Bradshaw		HORIZONTAL PROJECT	
DATE July 17		VERTICAL PROJECT	
CONTRACTOR DJ		ALTERATION SCALE  absent slight moderate intense	
CORE SIZE HQ			
DATE STARTED July 14			
DATE COMPLETED July 17		TOTAL SULPHIDE SCALE  traces only < 1% 1% - 3% 3% - 10% > 10%	
DIP TESTS 7.6 m - 59.8 = 184.1 76.2 m - 59.7 133.8 m - 57.9 = 189.5			
COMMENTS Hole #5 of 7 drillholes at 25 m spacings on the mine testing area of the Lynx Zone. Massive sulphide - 103.07 - 104.08 m		LEGEND	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Ser A	chl B	CO ₃ C	Si D	Mt E		
57		✓	✓	RHFS (cont.)							
58		✓	✓								
59		✓	✓								
60		✓	✓								
61		✓	✓								
62		✓	✓								
63		✓	✓								
64		✓	✓								
65		✓	✓								
66		✓	✓								
67	67.20	✓	✓	67.20-69.80 ARTF							
68		✓	✓	BLACK CARBONACEOUS TUFFACEOUS ARGILLITE see 70.35-99.06 below.							
69		✓	✓								
70	69.80	✓	✓	69.80-70.25 EXCA							
71	70.35 EXCA	✓	✓	GREY CALCITE EXHALITE w/ CARBONACEOUS LAMINAE. thin irregularly textured highly calcareous rock w/ ~10% irregular mm-scale carbonaceous laminae which give rock a dark grey colour. The rest of the rock is calcite - but only appears laminated - mainly irregular sub-mm wisps and blebs. broken core w/ mud + clay at upper contact. fault gouge at lower contact. Structure = a small fault at 15° to core axis shows 3.5 cm of displacement on a tightly folded 5mm qtz vein							
72		✓	✓								
73		✓	✓								
74		✓	✓								
75		✓	✓								
76		✓	✓								
77		✓	✓								
78		✓	✓								

looking GW
(305° NW)

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Ser A	chl B	CO ₃ C	Si D	Mt E		
80				EXCA (cont.) - Folding demonstrates "s-style" folding and is consistent w/ previous observations.							
81				70.25-99.06 BLACK CARBONACEOUS TUFFACEOUS ARGILLITE							
82				ARTF - thick sequence of argillite which is generally thinly (sub-mm scale) laminated and carbonaceous.							
83				- contains 5-7% mm scale blebs and bands of siliceous (tuffaceous) material parallel to foliation tht. internal.							
84											
85				- strong presence of calcite locally (may be alteration of tuffaceous material) - it is distributed in a similar fashion to the siliceous material - irregular blebs and wisps sub-parallel to foln.							
86											
87				- fairly well mineralized - see across →							
88				- late qtz veins common.							
89											
90				94.06-94.18 - Fault gouge.							
91											
92				- broken core 72.85-81.49							
93				- structure - qtz layers commonly display drag folding →							
94											
95				12 cm Flt gouge. Overall fairly competent (more like siliceous argillite) except for local broken core + gouge zones.							
96											
97				72.40 - Flt gouge.							
98				99.06-103.07 BLACK STRONGLY GRAPHITIC ARGILLITE							
99				ARGR - sooty, w/ strong graphite coatings on all fractures.							
100				- minor mm-scale qtz-py (tuffaceous) bands parallel to foln.							
101				- generally broken core + fault gouge							
				101.44-101.84 - Fault gouge.							

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Ser A	Chl B	CO ₃ C	Si D	Mt E		
103	103.07	ARGR		103.07-104.08 PYRITE - SPHALERITE MASSIVE SULPHIDE							
				SSMS							
104	104.08	SSMS		sharp upper ct (75°) - sharp irregular lower contact. Somewhat broken core to 103.38 consisting of very fine pyrite w/ a vague fragmental appearance. 103.38 - 104.08 is competent SSMS w/ non-rhythmically banded fine pyrite and fine red-brown to purple sphalerite.							
105				(avg. core angle = 78°)							
106				90% total sulphide w/ 50% py and 40% sph in fairly well defined bands from 0.5 - 4 cm thick. Pb is also present but is difficult to distinguish from py. identified by a moderate magnetism from 103.50 - 103.80. cpy is rare - fine, irr. sub-mm stringers at upper ct.							
107				gonque is composed of mainly V.F.G. carbonate (calcite dominant) interstitial to sulphides although blotches of CO ₂ up to 5 mm are also common.							
108				distinct 10 cm calcareous zones							
109				104.08-115.60 GREY FINE GRAINED - LOCALLY APHANITIC RHUOLITE TUFF.							
110				RHTT							
111				top of unit - moderate chl altn							
112				for ~6 cm Mod. sericite altn							
113				starts at uict and quickly subsides - at 105.08 rock is essentially unaltered.							
114				rock is a fine grained thinly laminated moderately siliceous tuff, though locally, rock appears highly siliceous and ophanitic (like RHEs)							
115				atz veins and sparse blotchy CO ₂ altn common to 106.00.							
116				not typical footwall tuff.							
117											
118											
119											
120											
121											
122				115.60-121.70 BLACK FINELY LAMINATED SILICEOUS ARGILLITE							
123				ARSI							
124				hard and competent unit which is more siliceous than carbonaceous. (not typical for arg.)							
125				124.42-124.66 fault gouge.							
126				10% fault parallel silica - py bonds which are diag folded + contorted.							

PAGE 11		OF 11		PROJECT:		HOLE NO. WW00-118						
DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION		ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
						SPt A	chl B	CO ₃ C	Si D	mt E		
126		ARSL		unit is more broken toward base								
		(cont.)		and ends w/ 45 cm of fault gouge.								
127		121.70-125.49		GREY-GREENISH SERICITE ALTERED								
128		RHLT		RHYOLITE TUFF - LAPILLI TUFF								
		typical footwall		- pervasive sericite altn - (may minor weak chl)								
129		(negligible mineralization)		- thinly laminated grey-greenish ser								
130				w/ frequent +2 cm quartzose lauris								
131				containing rounded tuffaceous to lapilli sized grains.								
132				- abundant calcite - alteration of felsic material.								
133		125.49-139.29		GREY TUFFACEOUS ARGILLITE								
134		ARTE		- "dirty" baking footwall argillite								
		(traces of pyrite)		w/ abundant 1mm-1cm felsic tuffaceous layers intermixed								
135				w/ light grey fine grained calcareous zones and thinly laminated black carbonaceous								
136				zones.								
137				- shot through with calcite blebs and veinlets - most of unit is strongly calcareous (some appears to be alteration of tuffaceous lauris)								
138				- broken core - frequent gouge zones.								
139				- late qtz veins common.								
139.29				- minor sericitic partings.								
140				139.29 - EOH								

DRILL LOG

PROJECT Wolverne JV	GROUND ELEV.
HOLE NO. WV-00-119	BEARING GS
LOCATION 16300E 16880N	DIP -58
LOGGED BY GB.	TOTAL LENGTH 116.13 m
DATE July 20/2000	HORIZONTAL PROJECT
CONTRACTOR DJ	VERTICAL PROJECT
CORE SIZE NQ	ALTERATION SCALE
DATE STARTED July 17/2000	0 1 2 3 absent slight moderate intense
DATE COMPLETED July 20/2000	TOTAL SULPHIDE SCALE
DIP TESTS 5.5 m $\Rightarrow$ -57.6 75.0 m $\Rightarrow$ -55.5 116.1 m $\Rightarrow$ -55.6	0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10%
COMMENTS $\Rightarrow$ Cemented from 200' to bottom. $\Rightarrow$ 3 mineralized zones - py + py semi massive sulphide from 74.98 - 76.08. upper massive sulphide - 88.34 - 89.38 lower massive sulphide - 96.22 - 97.53	LEGEND

MINERALIZATION DESCRIPTION	TOTAL SULPHIDES	SAMPLES			SAMPLE NUMBER	ASSAYS			
		FROM	TO	WIDTH					
⇒ Generally has 3-5% py as mm-scale bands on foln or within silica bands (boudins) as fine-coarse anhedral masses. Also has 2 zones of semi-massive sulphide:									
74.98 - 75.13 ⇒ 15 cm of f.g. banded to diss. py w/ lesser coarse diss. py. 1% cpy - diss at u. ct. (80% sulphides)		74.98	75.70	0.72	419191				
75.70 - 76.08 ⇒ dark green - blk chloritic mtx w/ 20% py, + 2-3% cpy as stockwork style stringers. Top is mainly py w/ sulphides increasing towards base. Last 15 cm is nearly massive sulphide w/ 60% py, 5% cpy and 2% sph in a siliceous mtx.		75.70	76.08	0.38	419192				
		76.08	76.92	0.84	419193				
		76.92	78.71	1.79	419194				
		78.71	88.34	9.63	419195				
⇒ v.f.g. uniform pyritic mtx w/ 5% grey-transparent interstitial silica granule. 22% sph in diffuse to well defined 1 mm - 1 cm bands. <1% cpy also banded - most of cpy is in bottom 4 cm in a "stockwork" w/ lesser pos. interstitial silica and dark green chl.		88.34	89.38	1.04	419196				
		89.38	90.58	1.20	419197				
⇒ 3-5% py - usually assl w/ foln parallel, diag folded, siliceous - calcareous bands.		90.58	92.36	1.78	419198				
		92.36	94.14	1.78	419199				
89.84 - 89.98 atz + cc in fault breccia (?) w/ wispg + buckshot py + 3-4% banded v.f.g. sphalerite.		94.14	96.22	2.08	419200				

[illegible]

DRILL LOG

PROJECT WOLVERINE		GROUND ELEV.	
HOLE NO. WV-00-120		BEARING GS	
LOCATION 16475E 16795N		DIP -75	
		TOTAL LENGTH 119.48	
LOGGED BY G.B.		HORIZONTAL PROJECT	
DATE July 22		VERTICAL PROJECT	
CONTRACTOR DJ		ALTERATION SCALE 0 1 2 3 absent slight moderate intense	
CORE SIZE HQ			
DATE STARTED July 20		TOTAL SULPHIDE SCALE 0 1 2 3 4 traces only < 1% 1% - 3% 3% - 10% > 10%	
DATE COMPLETED July 22			
DIP TESTS 3.7 m $\Rightarrow$ -72.9 176.5 61.0 m $\Rightarrow$ -70.8 182.4 119.5 m $\Rightarrow$ -67.9 184.3			
COMMENTS Hole 7 of 7 on mine test zone. 85.50 - 91.27 $\Rightarrow$ mineralized zone with massive sulphides + semi massive sulphides separated by a barren rhyolite tuff or porphyry. Hole cemented from 181' (55.17m) to bottom.		LEGEND	

DEPTH (m)	% CORE REC	LITHOLOGY	STRUCTURE	GEOLOGICAL DESCRIPTION	ALTERATION					FRACTURE INTENSITY	% VEIN QTZ.
					Ser A	chl B	CO ₃ C	Si D	Mt E		
56	EXCP			51.56-54.25 BLACK FINEGRAINED APHANITIC RHYOLITE							
56.03				RHAR ASH TUFF(?) WITH CARBONACEOUS PARTINGS							
57	STGG			rock appears black, but is actually grey							
57.61				mm scale fine siliceous laminae separated							
58				by black carbonaceous partings. Local							
				fragments of light-dark grey grainy							
59	DHLC			cc-rich rock up to 8 cm (exhalite?)							
59.13				very broken core throughout almost							
60				entire interval.							
61				54.25-56.03 DARK GREY-GREEN INTERBEDDED RHYOLITE							
				EXCP TUFF AND CALCITE-PYRITE EXHALITE(?)							
62				W/ CARBONACEOUS PARTINGS.							
				- distinctive green colour - 3-5% banded -							
63				blotchy chl ± diopside.							
				- fol. parallel dark-light grey 3-5 mm							
64				grainy cc bands (20%) within a rhy very							
63.70				similar to RHAR above. (carb. partings)							
65				- minor blotches of ankente.							
				- abundant late white qtz veins.							
66				56.03-57.61 BLACK GRAPHITIC FAULT GOUGE							
				STGG <5% xenitic/rhyolitic fragments.							
67											
68				57.61-59.13 LOST CORE - recovered 10cm of arg. pebbles							
				DHLC							
69				59.13-63.70 GREY MASSIVE APHANITIC RHYOLITE (Flow)							
				RHES							
70				- much more massive than previous							
				RHES units. Poorly foliated - fractures							
71				brittle and irregularly.							
				- weak sub-mm ser. partings on a cm							
72				scale. Abundant tiny microclites.							
				- calcite on fractures and grey cs							
73				white fg. cm scale bands.							
				- minor carbonaceous partings near contact.							
74				63.70-84.32 BLACK GRAPHITIC ARGILLITE / FAULT GOUGE							
				ARGR mixed w/ minor rhy tuff near top of							
75				unit - becomes more graphitic towards							
75.05				base. Thinly laminated.							
76				- min. mm scale cc blebs // to foln.							
				FAULT GOUGE → 75.05 - 80.67. very							
77				graphitic poor recovery.							
				- broken core + poor recovery tht unit.							

**2000 SUMMARY REPORT ON THE
FOOT 1 - 20, 23-70, 83-86, 95-148, 171-174, 180-188, 216F,
217-218, 223-226, 233-308, 333-358, 383-390, 549-550, 575,
579-586, 603F, 605-607, Foot A 11-12, Kink 3,
Arch 1F-10F, Foot 215F, 219F-222F, 227F-231F**

9.0 CHEMEX ASSAY CERTIFICATES



ALS Chemex

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Analytical Chemists * Geochemists * Registered Assayers
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PHONE: 604-984-0221 FAX: 604-984-0218

To: WOLVERINE JOINT VENTURE

701 - 475 HOWE ST.
VANCOUVER, BC
V6C 2B3

A0020132

Comments: ATTN: TERY TUCKER

CERTIFICATE

A0020132

(RDE) - WOLVERINE JOINT VENTURE

Project: WJV
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 19-JUL-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
208	14	Assay ring to approx 150 mesh
226	14	0-3 Kg crush and split
3202	14	Rock - save entire reject
266	14	Special prep procedure
290	14	Assay HF ICP digestion charge

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
997	14	Au g/t: 1 assay ton, grav.	FA-GRAVIMETRIC	0.07	1000.0
384	14	Ag g/t: Gravimetric	FA-GRAVIMETRIC	3	3500
301	14	Cu %: Conc. Nitric-HCl dig'n	AAS	0.01	100.0
312	14	Pb %: Conc. Nitric-HCl dig'n	AAS	0.01	100.0
316	14	Zn %: Conc. Nitric-HCl dig'n	AAS	0.01	100.0
1263	14	Ag ppm: high grade 24 element	AAS	1	200
4031	14	Al %: A22 ICP package	ICP-AES	0.05	30.0
4032	14	Ba ppm: A22 ICP package	ICP-AES	100	50000
4033	14	Be ppm: A22 ICP package	ICP-AES	10	10000
4034	14	Bi ppm: A22 ICP package	ICP-AES	20	50000
4035	14	Ca %: A22 ICP package	ICP-AES	0.05	30.0
4036	14	Cd ppm: A22 ICP package	ICP-AES	10	10000
4037	14	Co ppm: A22 ICP package	ICP-AES	10	100000
4038	14	Cr ppm: A22 ICP package	ICP-AES	10	100000
4039	14	Cu ppm: A22 ICP package	ICP-AES	10	100000
4040	14	Fe %: A22 ICP package	ICP-AES	0.05	30.0
4041	14	K %: A22 ICP package	ICP-AES	0.1	20.0
4042	14	Mg %: A22 ICP package	ICP-AES	0.05	30.0
4043	14	Mn ppm: A22 ICP package	ICP-AES	10	100000
4044	14	Mo ppm: A22 ICP package	ICP-AES	10	100000
4045	14	Na %: A22 ICP package	ICP-AES	0.05	20.0
4046	14	Ni ppm: A22 ICP package	ICP-AES	10	100000
4075	14	Pb %: high grade 24 element	AAS	0.001	10.00
4047	14	Sr ppm: A22 ICP package	ICP-AES	10	100000
4048	14	Ti %: A22 ICP package	ICP-AES	0.05	20.0
4049	14	V ppm: A22 ICP package	ICP-AES	10	50000
4050	14	Zn ppm: A22 ICP package	ICP-AES	20	100000
331	14	As %: conc. Nitric-HCl digestion	AAS	0.01	100.0
348	14	Sb %: HCl-KClO3 digestion	AAS	0.01	100.00
344	14	Hg %: HNO3-KClO3-HCl digestion	AAS	0.001	100.00
444	14	Spec. grav. SG: pulv. material	PYCNOMETER	0.01	20.0
912	14	Ba ppm	XRF	10	50000
9237	14	Se ppm: ICP + ICP-MS package	ICP-MS	0.5	1000

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To: WOLVERINE JOINT VENTURE

701 - 475 HOWE ST.

VANCOUVER, BC

V6C 2B3

Project: WJV

Comments: ATTN: TERY TUCKER

Page .ber :1-A

Total Pages :1

Certificate Date: 11-JUL-2000

Invoice No. :I0020132

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Account :RDE

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CERTIFICATE OF ANALYSIS**A0020132**

SAMPLE	PREP CODE		Au FA g/t	Ag FA g/t	Cu %	Pb %	Zn Ag ppm % AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	
N419010	208	226	1.58	335	0.59	3.29	9.53	>200	0.25	100	< 10	100	1.80	680	30	90	5830	>30.0	< 0.1	< 0.05	750
N419013	208	226	3.77	650	0.14	2.54	19.00	>200	4.10	200	< 10	< 20	0.60	2090	30	60	1350	18.10	1.7	0.25	280
N419014	208	226	0.48	126	0.18	0.53	1.43	121	4.85	400	< 10	< 20	17.55	120	< 10	20	1650	9.65	2.1	2.00	2090
N419015	208	226	3.63	718	0.24	5.76	9.73	>200	3.50	200	< 10	< 20	5.10	680	< 10	40	2170	21.3	1.6	0.50	790
N419016	208	226	0.27	68	0.34	0.41	6.50	66	2.60	300	< 10	< 20	9.15	670	< 10	60	3260	15.60	1.3	2.90	1730
N419017	208	226	< 0.07	18	0.07	0.16	1.73	17	2.15	400	< 10	< 20	12.85	160	< 10	70	610	7.50	1.1	3.40	1480
N419018	208	226	< 0.07	19	0.03	0.06	0.54	20	0.60	300	< 10	< 20	7.70	30	< 10	50	290	>30.0	0.1	0.25	990
N419019	208	226	< 0.07	< 3	0.01	0.01	0.03	2	1.70	400	< 10	< 20	22.5	< 10	< 10	50	130	7.60	0.2	0.55	2720
N419020	208	226	< 0.07	21	0.09	0.09	2.23	20	1.75	300	< 10	< 20	10.15	210	< 10	120	820	8.40	0.8	3.85	1260
N419021	208	226	< 0.07	41	0.15	0.30	4.74	36	2.60	300	< 10	< 20	7.45	480	< 10	90	1490	15.50	1.2	3.60	1350
N419022	208	226	0.14	114	0.48	0.55	5.65	116	3.00	200	< 10	< 20	6.95	530	10	60	4570	19.40	1.3	3.40	1700
N419035	208	226	1.92	531	1.32	3.67	14.95	>200	0.30	100	< 10	100	0.15	1230	70	110	12660	28.5	0.1	0.05	210
N419037	208	226	1.71	280	2.01	0.93	12.05	>200	0.60	100	< 10	120	0.25	1070	80	90	19140	>30.0	0.2	0.15	210
N419038	208	226	1.23	241	2.09	1.70	11.35	>200	0.40	< 100	< 10	< 20	1.35	1040	60	70	19820	>30.0	< 0.1	0.15	610

CERTIFICATION:

*+

** So OVERLIMIT ADDED.



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TO: WOLVERINE JOINT VENTURE

701 - 475 HOWE ST.
VANCOUVER, BC
V6C 2B3

Project: WJV
Comments: ATTN: TERY TUCKER

Page .ber : 1-B
Total Pages : 1
Certificate Date: 11-JUL-2000
Invoice No. : I0020132
P.O. Number :
Account : RDE

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CERTIFICATE OF ANALYSIS

A0020132

SAMPLE	PREP CODE	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	As %	Sb %	HgSpec %	Gr S.G.	Ba XRF ppm	Se ppm
N419010	208 226	50	< 0.05	120	3.02	10	< 0.05	160	83900	0.37	0.03	0.002	4.21	4880	345
N419013	208 226	40	0.05	30	2.25	< 10	0.05	140	>100000	0.45	0.11	0.006	3.72	28200	570
N419014	208 226	10	0.05	< 10	0.440	380	0.05	60	13260	0.05	< 0.01	< 0.001	3.05	15730	345
N419015	208 226	< 10	< 0.05	< 10	5.22	80	0.05	90	82700	0.80	0.07	0.002	3.72	13040	515
N419016	208 226	< 10	0.10	< 10	0.369	120	< 0.05	60	60100	0.10	< 0.01	< 0.001	3.26	8840	635
N419017	208 226	< 10	< 0.05	< 10	0.143	250	< 0.05	30	16360	0.02	< 0.01	< 0.001	2.94	7780	155.0
N419018	208 226	< 10	< 0.05	10	0.050	150	< 0.05	20	4700	0.03	< 0.01	< 0.001	3.88	8480	50.0
N419019	208 226	< 10	< 0.05	10	0.009	370	0.05	50	320	0.02	< 0.01	< 0.001	2.94	21600	10.0
N419020	208 226	< 10	< 0.05	< 10	0.085	320	< 0.05	30	21200	0.01	< 0.01	0.002	2.99	6850	160.0
N419021	208 226	< 10	0.05	< 10	0.279	220	< 0.05	30	44500	0.02	< 0.01	0.003	3.29	8740	565
N419022	208 226	< 10	0.05	< 10	0.498	130	< 0.05	70	52300	0.01	< 0.01	0.003	3.42	8960	915
N419035	208 226	60	< 0.05	120	3.32	< 10	< 0.05	150	>100000	0.09	0.09	0.008	4.14	1900	930
N419037	208 226	40	< 0.05	80	0.854	< 10	< 0.05	100	>100000	0.08	0.03	0.005	4.20	1610	950
N419038	208 226	50	< 0.05	60	1.630	< 10	< 0.05	80	96300	0.10	0.01	0.002	4.60	500	1380

CERTIFICATION:

[Signature]

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WOLVERINE JOINT VENTURE

701 - 475 HOWE ST.
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Project : WJV
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Page 1 of 1
Total Pages : 1
Certificate Date: 27-JUN-2000
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P.O. Number :
Account : RDE

CERTIFICATE OF ANALYSIS

A0020609

SAMPLE	PREP CODE	Weight grams	Au FA g/t	Ag FA g/t	Cu %	Pb %	Zn %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
N419085	208 294	6800.0	4.18	296	0.71	1.05	27.2	>200	1.15	1000	< 10	20	2.40	3510	80	90	7050	21.2	0.5	0.15

CERTIFICATION:

David Lee



ALS Chemex

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To: WOLVERINE JOINT VENTURE

701 - 475 HOWE ST.
VANCOUVER, BC
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Project: WJV
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Total Pages: 1
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Account: RDE

CERTIFICATE OF ANALYSIS

A0020609

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	As %	Sb %	HgSpec %	Gr Ba S.G.	XRF ppm	Se ppm
N419085	208 294	630	< 10	< 0.05	10	1.055	< 10	< 0.05	40	>100000	0.46	0.06	0.004	3.95	3800	800

CERTIFICATION:

[Signature]



ALS Chemex

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Project: WJV
Comments: ATTN: TERRY TUCKER

Page Number: 1-A
Total Pages: 1
Certificate Date: 07-AUG-2000
Invoice No.: I0023541
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Account: RDE

CERTIFICATE OF ANALYSIS A0023541

SAMPLE	PREP CODE	Weight grams	Au g/t RUSH	Ag g/t RUSH FA	Cu %	Pb %	Zn %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
N419170	258 295	8840.0	0.23	48	0.12	0.75	2.28	50	2.95	300	< 10	< 20	8.50	190	< 10	70	930	6.25	1.5	2.80
N419171	258 295	4740.0	3.36	751	1.21	3.32	14.30	>200	0.80	< 100	< 10	60	0.80	1180	50	150	12690	23.2	0.4	0.10
N419172	258 295	19240.0	1.03	445	0.84	4.18	16.15	>200	0.60	< 100	< 10	< 20	0.30	1440	10	50	8720	28.9	0.1	0.15
N419173	258 295	14040.0	1.10	258	1.67	2.07	14.65	>200	0.65	100	< 10	20	1.75	1380	30	60	17230	29.1	0.2	0.10
N419174	258 295	9461.0	0.10	27	0.10	0.21	1.22	29	5.50	400	< 10	< 20	14.05	110	< 10	40	930	5.50	2.2	2.70
N419175	258 295	2081.0	1.07	220	1.25	1.13	12.60	>200	0.20	< 100	< 10	200	0.90	1300	100	70	12850	>30.0	< 0.1	0.15

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212 Brooksbank Ave., North Vancouver

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PHONE: 604-984-0221 FAX: 604-984-0218

To: WOLVERINE JOINT VENTURE

701 - 475 HOWE ST.

VANCOUVER, BC

V6C 2B3

Project: WJV

Comments: ATTN: TERRY TUCKER

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P.O. Number:

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CERTIFICATE OF ANALYSIS

A0023541

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	As %	Sb %	HgSpec %	Gr S.G.	Ba XRF ppm	Se ppm
N419170	258 295	2190	20 <	0.05	< 10	0.723	350	0.05	60	22500 <	0.01 <	0.01	0.001	3.06	4420	720
N419171	258 295	290	80 <	0.05	120	3.17	40 <	0.05	490>	100000	0.21	0.14	0.009	4.07	2620	720
N419172	258 295	200	< 10 <	0.05	10	3.94	20 <	0.05	50>	100000	0.24	0.03	0.001	4.66	430	2080
N419173	258 295	420	< 10 <	0.05	20	1.985	50 <	0.05	30>	100000	0.07	0.01	0.001	4.51	780	2370
N419174	258 295	1050	10	0.15	10	0.199	280	0.05	110	11940 <	0.01 <	0.01 <	0.001	3.01	9910	700
N419175	258 295	330	10 <	0.05	340	1.100	10 <	0.05	70>	100000	0.01	0.01	0.002	3.92	290	1700

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Account : RDE

CERTIFICATE OF ANALYSIS

A0023689

SAMPLE	PREP CODE		Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
N419176	205	226	10	< 1	2.8	60	0.8	2.16	730	0.5	2	0.21	1.0	6	150	66
N419177	205	226	5	< 1	1.6	20	0.2	1.93	1100	0.5	< 2	0.25	< 0.5	5	172	65

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CERTIFICATE OF ANALYSIS

A0023689

SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
N419176	205 226	4.95	0.40	0.40	400	2	0.06	24	310	78	122	0.09	77	< 10	232
N419177	205 226	4.76	0.35	0.35	345	2	0.03	25	180	8	155	0.09	83	< 10	52

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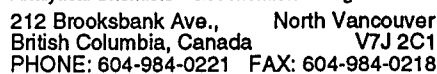
• PLEASE NOTE

CERTIFICATE OF ANALYSIS **A0024254**

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CERTIFICATION

* INTERFERENCE: HIGH Cu ON Bi AND P.



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Certificate Date: 07-AUG-2000

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CERTIFICATE OF ANALYSIS

A0024255

SAMPLE	PREP CODE	Weight grams	Au FA g/t	Ag FA g/t	Cu %	Pb %	Zn %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
419187	208 226	5880.0	4.04	874	0.43	2.49	28.9	>200	0.25	100	< 10	< 20	0.45	3280	40	20	4670	21.0	< 0.1	0.05
419196	208 226	6360.0	1.16	304	2.40	1.86	17.00	>200	0.05	< 100	< 10	220	0.15	1500	150	50	24500	>30.0	< 0.1	< 0.05
419201	208 226	3400.0	4.38	1040	0.50	2.40	6.64	>200	0.10	100	< 10	< 20	3.35	490	10	70	5390	>30.0	< 0.1	< 0.05
419202	208 226	5080.0	1.85	707	0.39	3.89	15.95	>200	0.05	100	< 10	< 20	3.35	1300	10	40	3800	28.4	< 0.1	< 0.05
419208	214 290	140.0	4.38	198	2.38	2.92	24.1	193	0.80	100	< 10	120	0.10	980	< 10	< 10	25200	14.40	0.3	< 0.05

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A0024255

SAMPLE	PREP CODE	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	Pb % AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	Zn ppm (ICP)	As %	Sb %	HgSpec %	Gr S.G.	Ba XRF ppm	Se ppm
419187	208 226	390	40	< 0.05	40	2.66	< 10	< 0.05	110	>100000	0.18	0.22	0.011	4.46	1500	375
419196	208 226	310	20	< 0.05	50	1.845	< 10	< 0.05	50	>100000	0.10	0.03	0.006	4.71	350	1945
419201	208 226	1090	90	< 0.05	100	2.66	180	< 0.05	90	61300	0.24	0.34	0.003	4.56	340	355
419202	208 226	1060	50	< 0.05	30	3.83	140	< 0.05	20	>100000	0.09	0.11	0.008	4.66	540	260
419208	214 290	90	80	0.05	60	3.03	220	< 0.05	30	>100000	0.06	0.01	0.002	4.39	>50000	5.0

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To: WOLVERINE JOINT VENTURE

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CERTIFICATE OF ANALYSIS

A0024256

SAMPLE	PREP CODE		Weight grams	Au FA g/t	Ag FA g/t	Cu %	Pb %	Zn %	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)	Fe % (ICP)	K % (ICP)	Mg % (ICP)
419210	208	226	1880.0	7.12	1550	0.48	1.87	25.1	>200	1.95	300	< 10	< 20	0.65	2390	10	90	4950	18.55	1.0	0.20
419212	208	226	2300.0	0.26	88	0.42	0.22	8.25	96	2.10	300	< 10	20	1.25	730	10	120	4270	17.05	1.1	0.75
419213	208	226	100.0	5.48	192	2.55	3.34	25.6	183	0.80	100	< 10	< 20	0.10	1000	< 10	< 10	25300	14.40	0.3	< 0.05
419215	208	226	6410.0	2.12	608	1.40	3.14	16.75	>200	0.45	100	< 10	20	1.00	1430	60	140	14240	25.5	0.1	0.10
419216	208	226	2180.0	3.49	674	10.80	0.19	0.93	>200	4.20	400	< 10	100	2.10	120	80	40	100000	23.3	1.3	2.60

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419210	208 226	460	< 10	< 0.05	10	1.820	< 10	< 0.05	50	>100000	0.15	0.27	0.011	3.91	3320 1160
419212	208 226	480	< 10	0.05	< 10	0.227	30	< 0.05	60	71200	0.01	0.01	0.003	3.52	2580 705
419213	208 226	90	70	0.05	70	3.01	230	< 0.05	30	>100000	0.06	< 0.01	0.002	4.38	>50000 10.0
419215	208 226	430	50	< 0.05	60	3.04	10	< 0.05	170	>100000	0.33	0.12	0.004	4.26	2140 1430
419216	208 226	1080	< 10	0.15	< 10	0.166	60	< 0.05	250	9480	0.01	< 0.01	< 0.001	3.58	5720 3330

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CERTIFICATE OF ANALYSIS

A0032774

SAMPLE	PREP CODE	Au ppb FA+AA	As ppm	Sb ppm	Hg ppb	Ag ppm AAS	Al % (ICP)	Ba ppm (ICP)	Be ppm (ICP)	Bi ppm (ICP)	Ca % (ICP)	Cd ppm (ICP)	Co ppm (ICP)	Cr ppm (ICP)	Cu ppm (ICP)
N419007	205 294	50	122	26	700	5.0	4.27	100	4.5	< 2	3.21	7.5	8	350	139
N419008	205 294	25	93	22	680	2.6	2.81	100	3.5	< 2	1.93	8.0	6	246	86
N419009	205 294	70	66	22	870	7.6	2.40	110	3.0	2	1.96	33.5	9	262	397
N419023	205 294	85	84	17.5	450	8.6	3.77	100	5.0	< 2	1.33	6.0	7	177	842
N419024	205 294	55	78	13.0	260	2.6	3.07	100	3.5	< 2	1.41	4.0	6	240	66
N419025	205 294	20	140	28	450	3.2	3.20	130	1.5	< 2	2.61	4.5	5	211	119
N419026	205 294	< 5	2	12.5	90	1.4	7.13	160	1.5	< 2	1.84	2.0	12	71	63
N419027	205 294	< 5	1	1.6	110	1.0	9.18	580	2.5	< 2	2.48	< 0.5	10	46	30
N419028	205 294	< 5	< 1	1.0	60	1.0	1.89	230	< 0.5	2	0.31	< 0.5	7	272	57
N419029	205 294	15	39	9.2	210	1.6	3.33	140	2.0	< 2	2.67	0.5	6	277	61
N419030	205 294	50	45	14.0	140	1.4	3.92	120	2.5	< 2	2.18	0.5	7	279	64
N419031	205 294	25	36	9.8	140	0.8	3.27	130	2.0	< 2	1.63	< 0.5	6	164	42
N419032	205 294	30	39	9.2	240	1.2	6.34	130	3.5	< 2	1.45	7.5	5	114	40
N419033	205 294	50	51	10.5	290	1.4	5.08	110	3.0	< 2	2.43	4.0	5	148	40
N419034	205 294	105	100	17.0	< 10	4.8	7.13	180	3.0	< 2	1.11	65.5	6	78	323
N419039	205 294	180	246	42	640	9.6	3.19	100	5.0	< 2	2.82	7.5	7	272	941
N419040	205 294	100	57	44	310	8.4	2.51	100	2.0	158	1.09	4.5	8	212	684
N419041	205 294	20	< 1	8.2	30	1.4	6.61	550	1.0	134	0.93	< 0.5	21	82	55
N419042	205 294	20	< 1	11.0	10	19.0	6.66	110	1.5	292	1.41	< 0.5	20	52	267
N419043	205 294	45	101	9.4	560	13.4	7.82	130	2.5	30	5.14	61.0	19	25	340
N419082	205 294	15	35	12.5	150	1.0	3.58	120	3.5	< 2	0.54	< 0.5	12	165	64
N419083	205 294	20	26	9.8	100	1.0	4.02	170	4.0	< 2	0.56	< 0.5	10	110	74
N419084	205 294	165	123	25	330	4.0	3.31	110	4.0	< 2	2.17	2.5	11	164	126
N419086	205 294	20	14	15.0	50	0.6	4.07	310	1.5	< 2	1.13	< 0.5	11	171	75
N419087	205 294	< 5	< 1	12.5	20	0.4	4.21	240	2.5	< 2	0.88	< 0.5	13	150	141
N419193	205 294	50	106	10.5	11380	6.8	8.08	70	2.5	< 2	5.51	89.0	11	49	1635
N419194	205 294	85	201	29	2340	4.8	4.57	90	3.5	2	2.07	15.0	7	304	128
N419195	205 294	30	50	14.5	600	3.6	2.56	100	2.0	< 2	7.74	12.0	5	155	281
N419197	205 294	270	262	160	1960	31.4	4.27	80	4.0	< 2	3.42	80.0	13	188	773
N419198	205 294	60	118	13.0	230	2.0	5.33	100	4.0	2	3.88	2.5	11	143	37
N419199	205 294	95	78	18.5	150	3.4	2.44	80	3.0	< 2	0.73	2.0	4	137	55
N419200	205 294	390	388	87	1990	28.8	2.44	90	4.5	6	4.30	33.5	6	235	251
N419203	205 294	115	185	24	630	6.2	3.35	60	2.5	< 2	6.19	11.5	11	92	173
N419209	205 294	205	102	28	1380	5.2	7.27	120	3.0	< 2	1.55	1.0	5	100	22
N419211	205 294	30	67	22	320	6.6	5.80	90	1.5	< 2	3.44	6.0	9	54	88
N419214	205 294	15	16	34	480	2.0	6.43	110	2.0	< 2	5.54	9.5	14	50	303
N419217	205 294	235	12	14.0	120	56.4	5.14	90	0.5	32	0.24	3.5	17	38	8100

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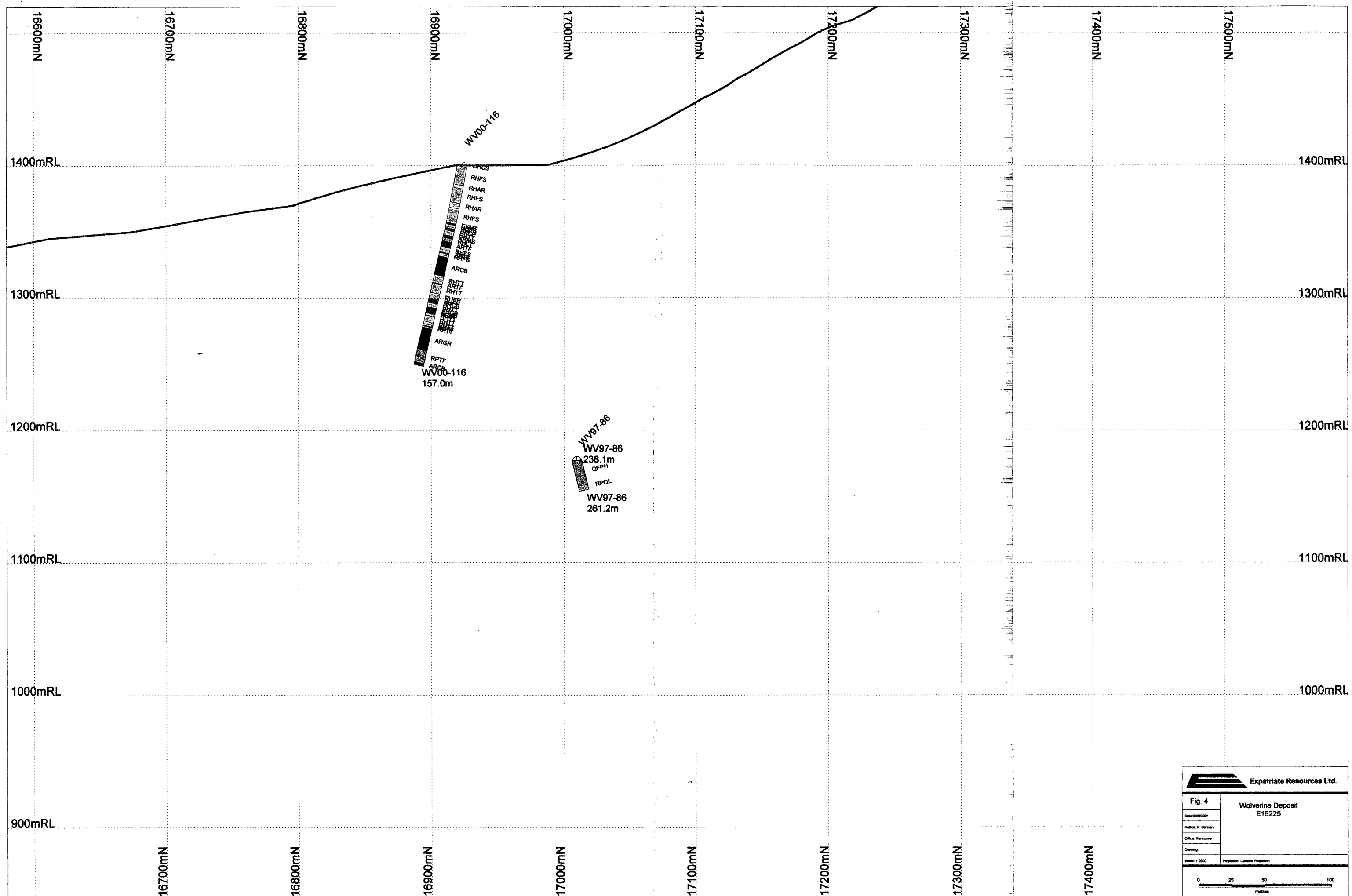
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SAMPLE	PREP CODE	Fe % (ICP)	K % (ICP)	Mg % (ICP)	Mn ppm (ICP)	Mo ppm (ICP)	Na % (ICP)	Ni ppm (ICP)	P ppm (ICP)	Pb ppm AAS	Sr ppm (ICP)	Ti % (ICP)	V ppm (ICP)	W ppm (ICP)	Zn ppm (ICP)
N419007	205 294	3.12	1.53	0.32	350	12	0.03	133	4870	56	138	0.09	440	< 10	700
N419008	205 294	2.20	1.24	0.27	260	41	0.03	120	1580	22	74	0.08	561	< 10	948
N419009	205 294	2.29	0.97	0.24	345	7	0.01	75	1120	250	85	0.06	198	< 10	4290
N419023	205 294	3.04	1.69	0.44	245	6	0.04	70	1410	36	47	0.09	182	< 10	844
N419024	205 294	3.00	1.37	0.29	200	6	0.03	76	2460	18	54	0.08	149	< 10	620
N419025	205 294	3.05	0.79	0.58	230	10	0.05	71	2690	102	45	0.05	245	< 10	976
N419026	205 294	4.76	1.43	5.24	370	2	0.25	6	350	20	60	0.08	20	< 10	246
N419027	205 294	4.55	2.95	5.37	440	4	0.15	< 1	460	24	66	0.11	23	< 10	234
N419028	205 294	6.56	0.25	0.45	250	3	0.03	28	600	2	221	0.09	88	< 10	34
N419029	205 294	2.42	1.63	0.34	470	5	0.01	49	2720	24	131	0.12	283	< 10	226
N419030	205 294	2.37	2.02	0.42	295	4	0.01	47	3890	26	122	0.14	285	< 10	134
N419031	205 294	1.67	1.76	0.37	255	3	0.01	36	1250	20	84	0.12	214	< 10	172
N419032	205 294	1.64	3.37	0.70	265	13	0.03	39	620	72	75	0.17	248	< 10	730
N419033	205 294	2.15	2.71	0.60	350	13	0.03	43	880	68	122	0.14	232	< 10	502
N419034	205 294	3.59	3.15	0.43	235	4	0.06	9	400	192	60	0.17	61	< 10	5850
N419039	205 294	3.57	1.43	0.36	295	33	0.03	162	7690	274	92	0.09	650	< 10	1370
N419040	205 294	2.69	1.18	0.39	110	12	0.03	69	3380	120	32	0.05	365	< 10	558
N419041	205 294	5.88	2.10	3.59	850	3	0.04	3	460	54	44	0.11	21	< 10	132
N419042	205 294	8.16	2.51	4.31	1035	1	0.05	4	450	64	71	0.13	55	< 10	138
N419043	205 294	6.39	4.82	8.41	1385	10	0.11	25	190	206	212	0.14	425	< 10	5410
N419082	205 294	2.77	1.30	0.60	180	1	0.01	52	200	12	76	0.09	157	< 10	170
N419083	205 294	1.81	1.56	0.66	150	< 1	0.01	36	230	12	70	0.12	192	< 10	52
N419084	205 294	3.25	1.41	0.77	820	11	< 0.01	99	2430	38	114	0.11	425	< 10	498
N419086	205 294	2.20	1.88	0.82	570	< 1	< 0.01	58	280	18	123	0.15	176	< 10	156
N419087	205 294	2.51	2.05	0.81	530	1	< 0.01	78	190	16	144	0.15	167	< 10	94
N419193	205 294	5.59	4.50	3.56	1705	8	0.04	6	220	872	241	0.15	89	< 10	9580
N419194	205 294	2.62	2.30	0.49	265	66	0.04	161	2560	62	124	0.13	1005	< 10	1080
N419195	205 294	2.30	1.34	0.34	750	6	0.04	46	830	202	446	0.06	151	< 10	1400
N419197	205 294	5.69	1.99	1.30	1200	17	0.01	85	1390	436	134	0.14	495	< 10	8450
N419198	205 294	2.71	2.61	1.74	1315	5	0.02	48	1260	18	163	0.19	216	< 10	350
N419199	205 294	2.37	1.12	0.28	115	4	0.01	55	1040	8	48	0.07	135	< 10	298
N419200	205 294	3.23	1.16	0.29	385	47	< 0.01	182	4170	242	210	0.08	1275	< 10	2360
N419203	205 294	6.04	1.64	1.06	1425	4	< 0.01	38	260	222	231	0.10	133	< 10	1280
N419209	205 294	2.75	3.60	0.54	245	4	0.06	12	510	52	122	0.18	91	< 10	160
N419211	205 294	3.12	3.33	1.98	1140	3	0.03	2	330	122	204	0.15	26	< 10	800
N419214	205 294	4.35	3.92	3.93	1450	3	0.04	< 1	310	18	375	0.18	19	< 10	1315
N419217	205 294	4.11	0.77	2.94	360	1	0.98	3	450	184	18	0.05	19	< 10	650

CERTIFICATION:

**2000 SUMMARY REPORT ON THE
FOOT 1 - 20, 23-70, 83-86, 95-148, 171-174, 180-188, 216F,
217-218, 223-226, 233-308, 333-358, 383-390, 549-550, 575,
579-586, 603F, 605-607, Foot A 11-12, Kink 3,
Arch 1F-10F, Foot 215F, 219F-222F, 227F-231F**

**10.0 DRILL HOLE CROSS SECTIONS
FIGURES 4-14**



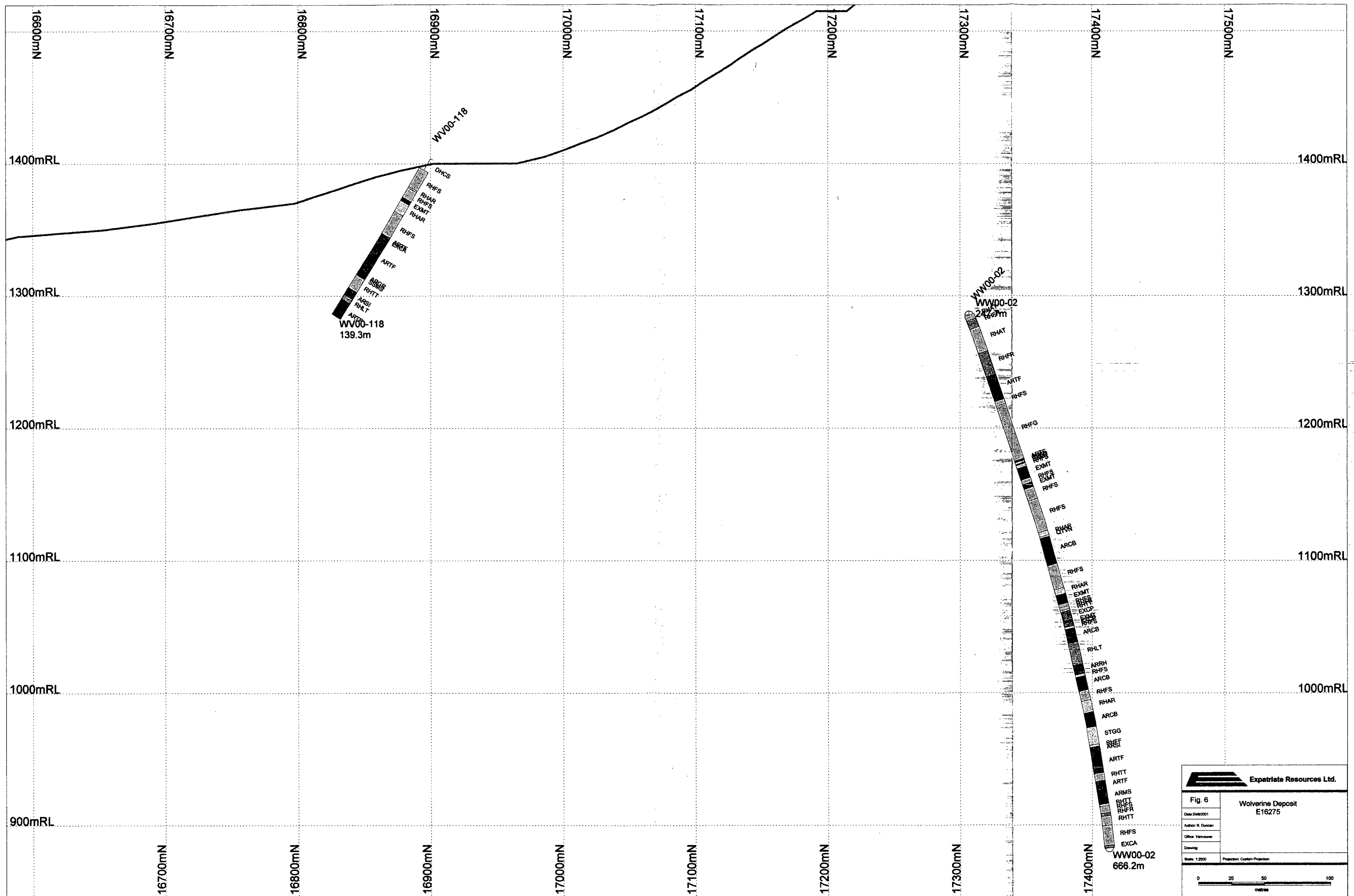
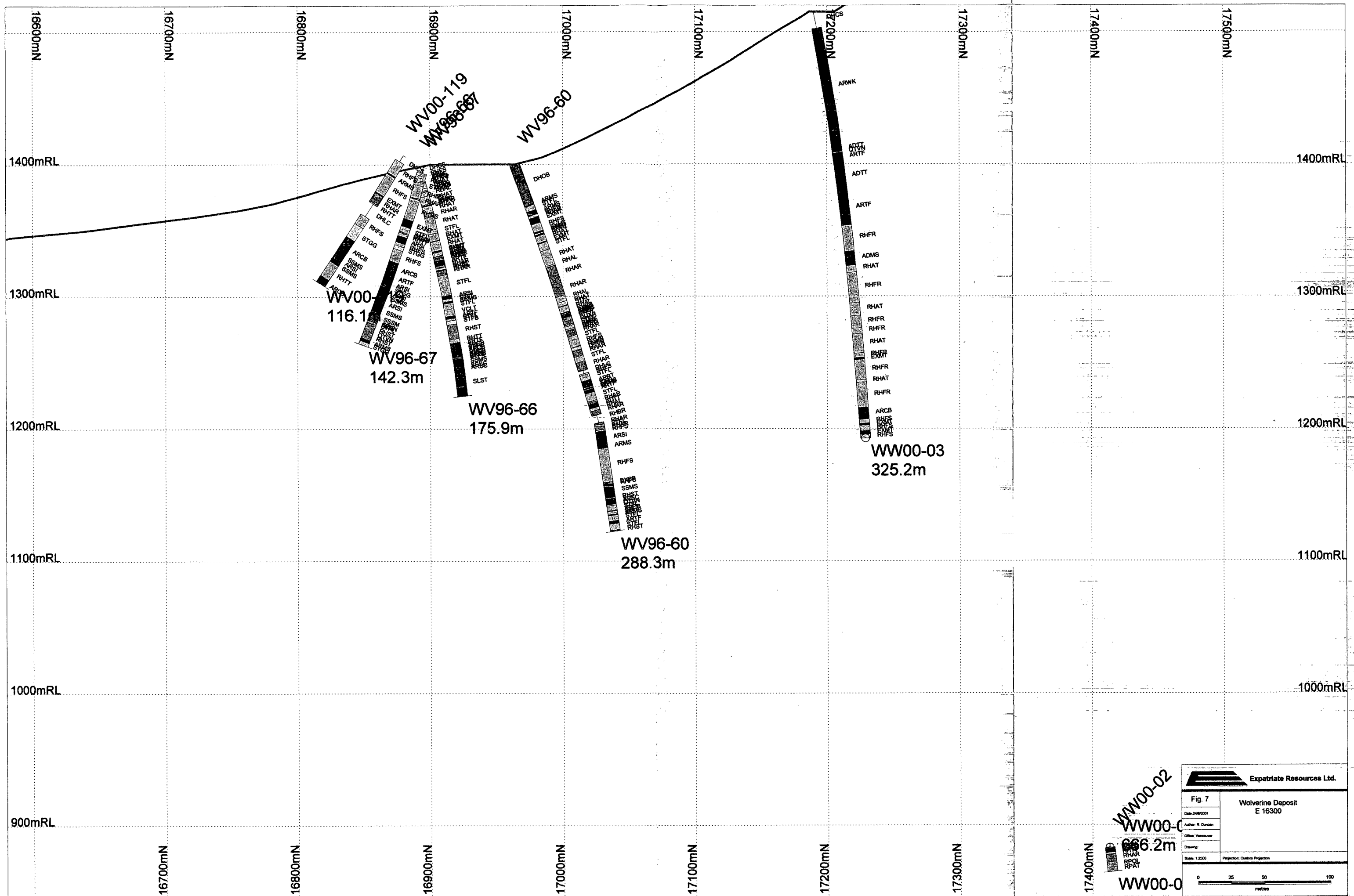
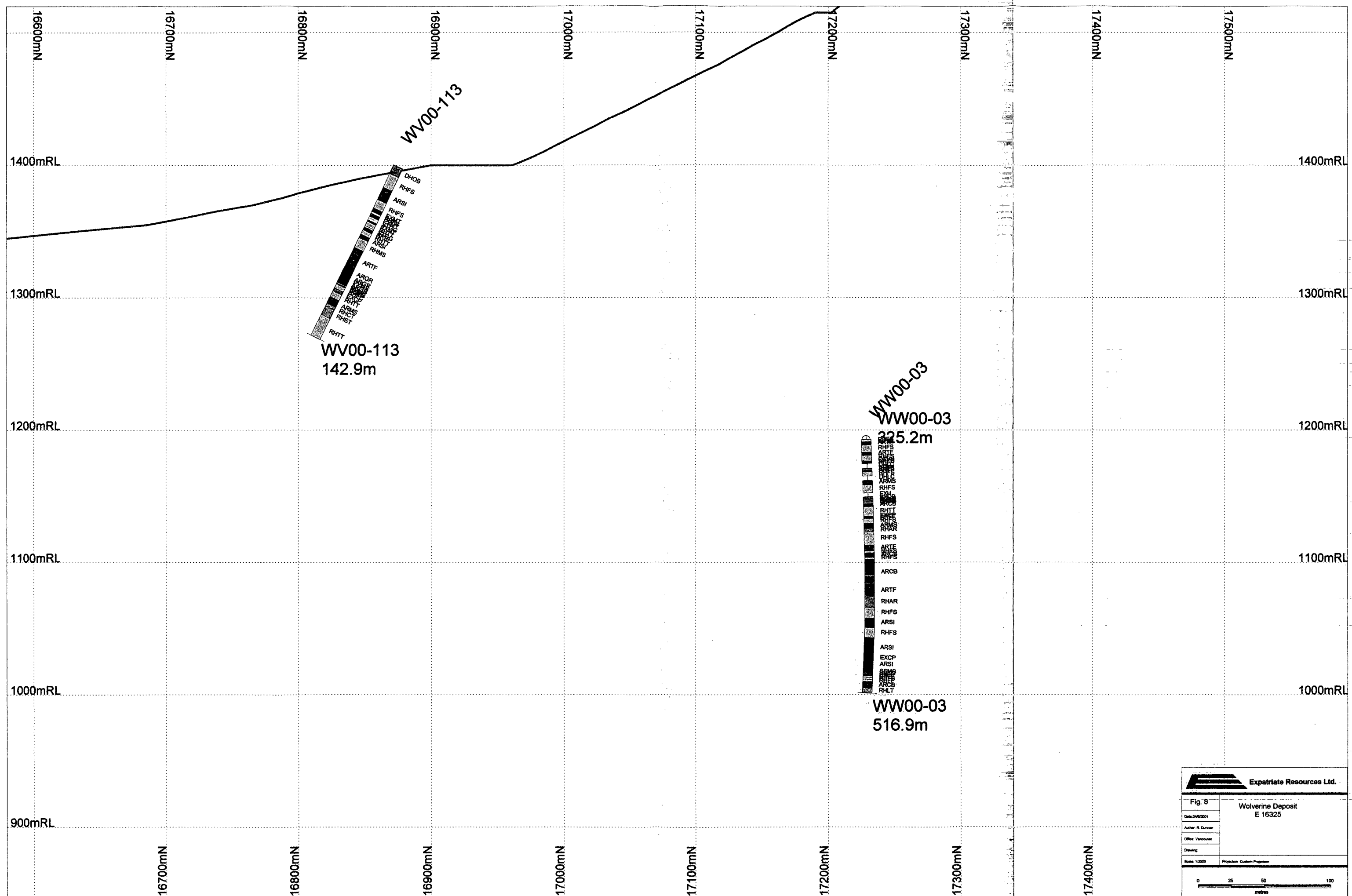
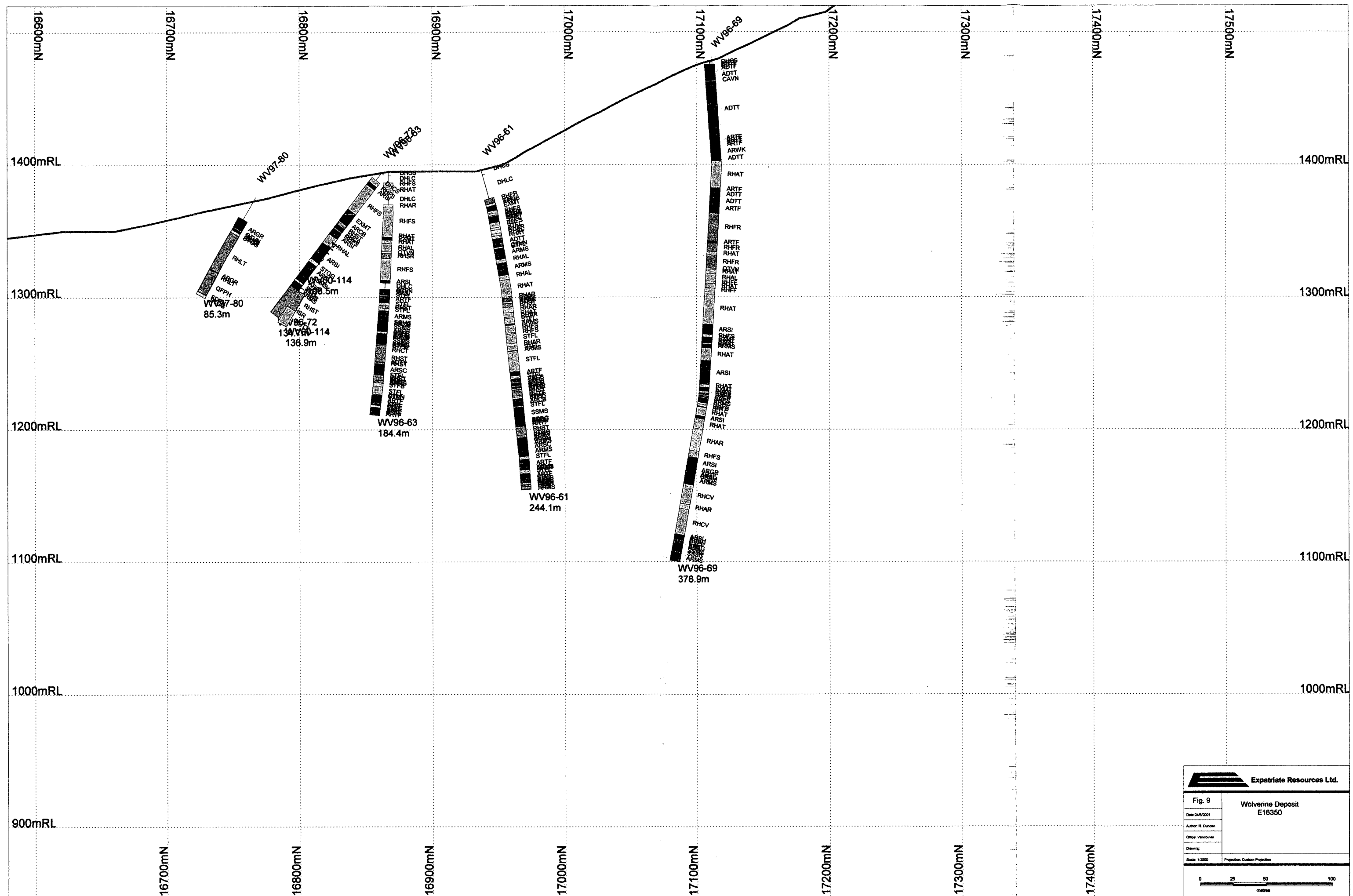


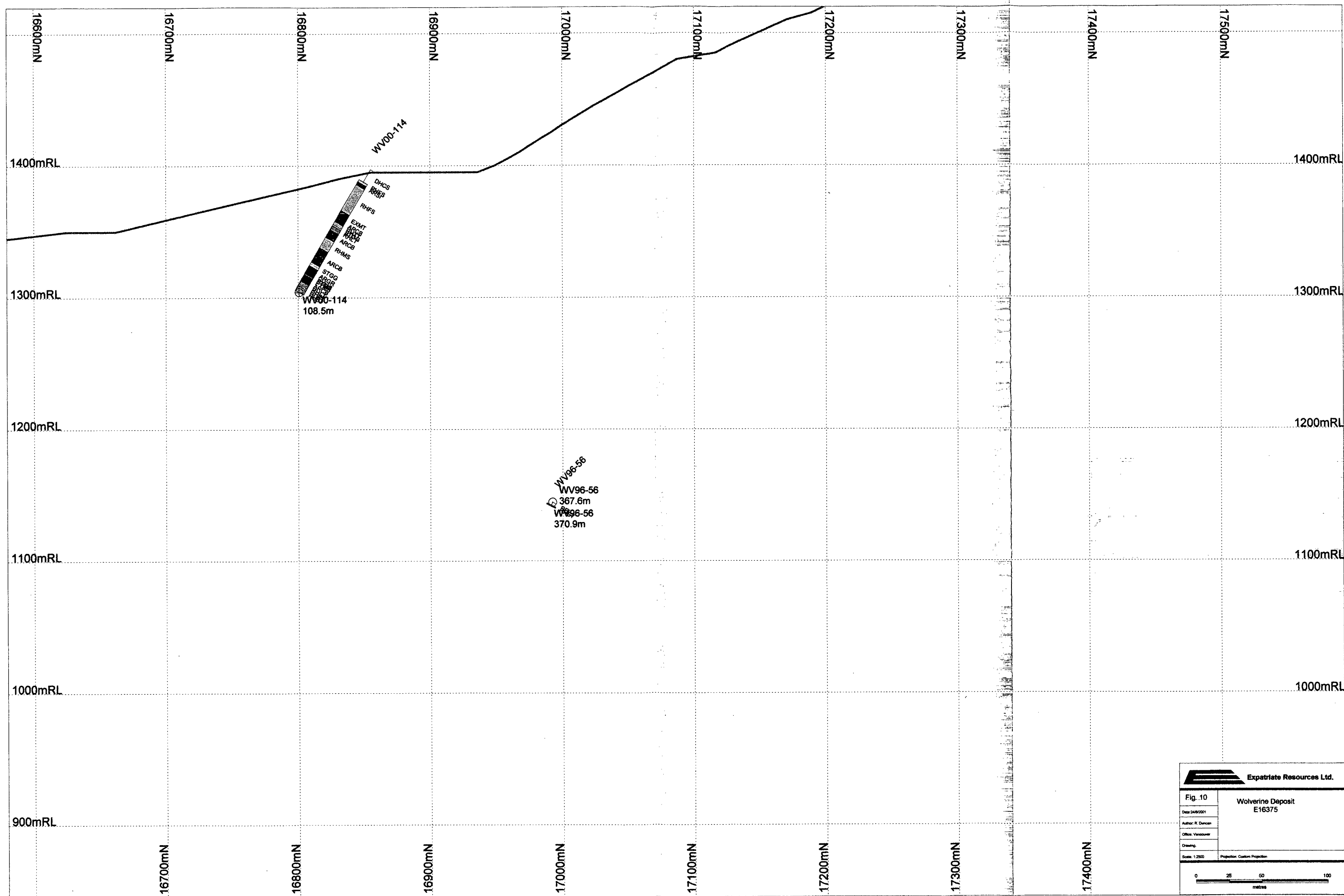
Fig. 6	Wolverine Deposit E16275
Date: 24/06/2011	
Author: R. Duncan	
Office: Vancouver	
Drawing:	
Scale: 1:2500	Projection: Custom Projection



WW00-02
WW00-
66.2m
RHR
RPL
RPA
WW00-0







Expatriate Resources Ltd.

Fig. 10

Wolverine Deposit E16375

Date: 24/05/2001

Author: R. Duncan

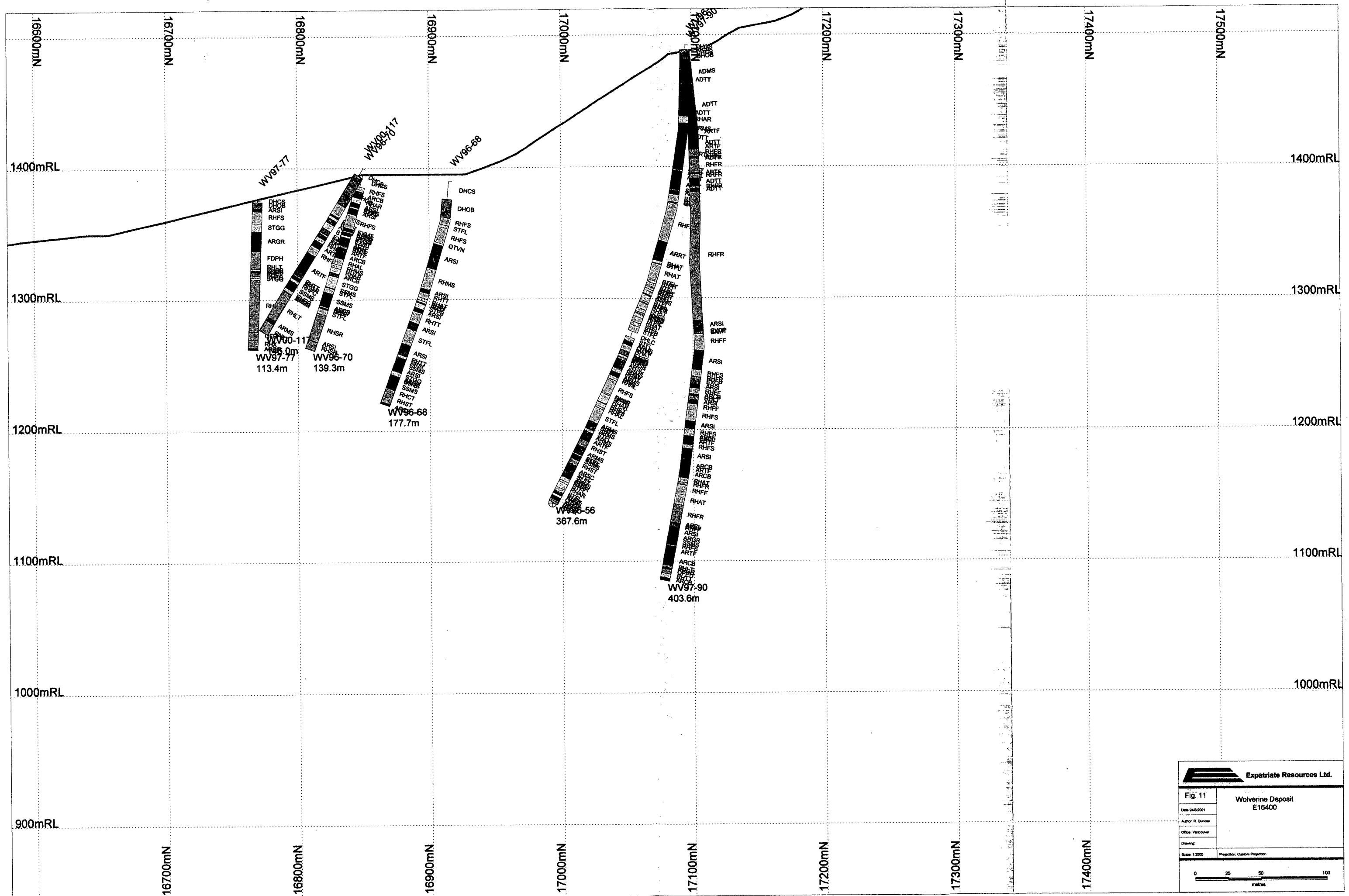
Office: Vancouver

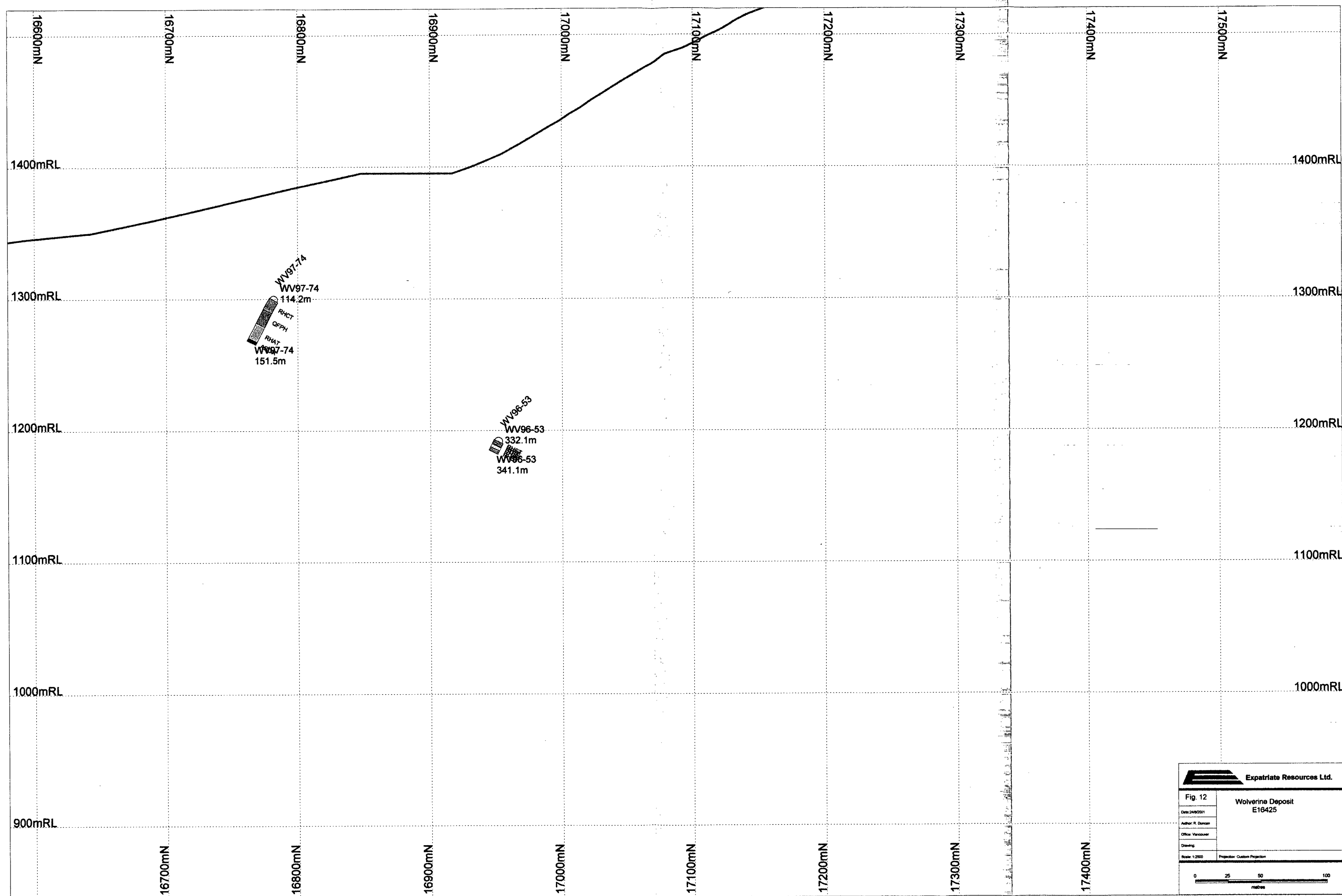
Drawing:

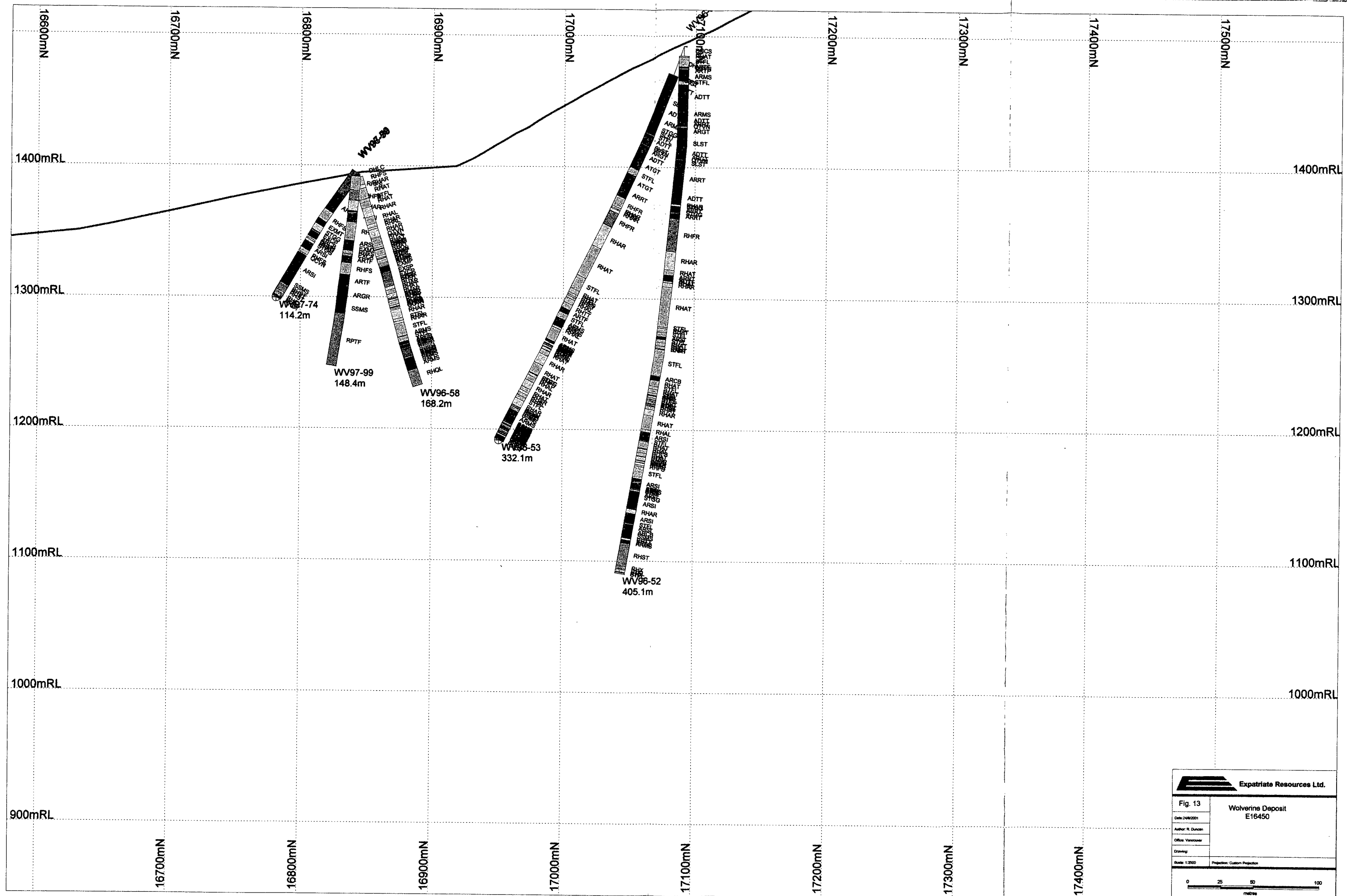
Scale: 1:2500

Projection: Custom Projection

0 25 50 100 metres







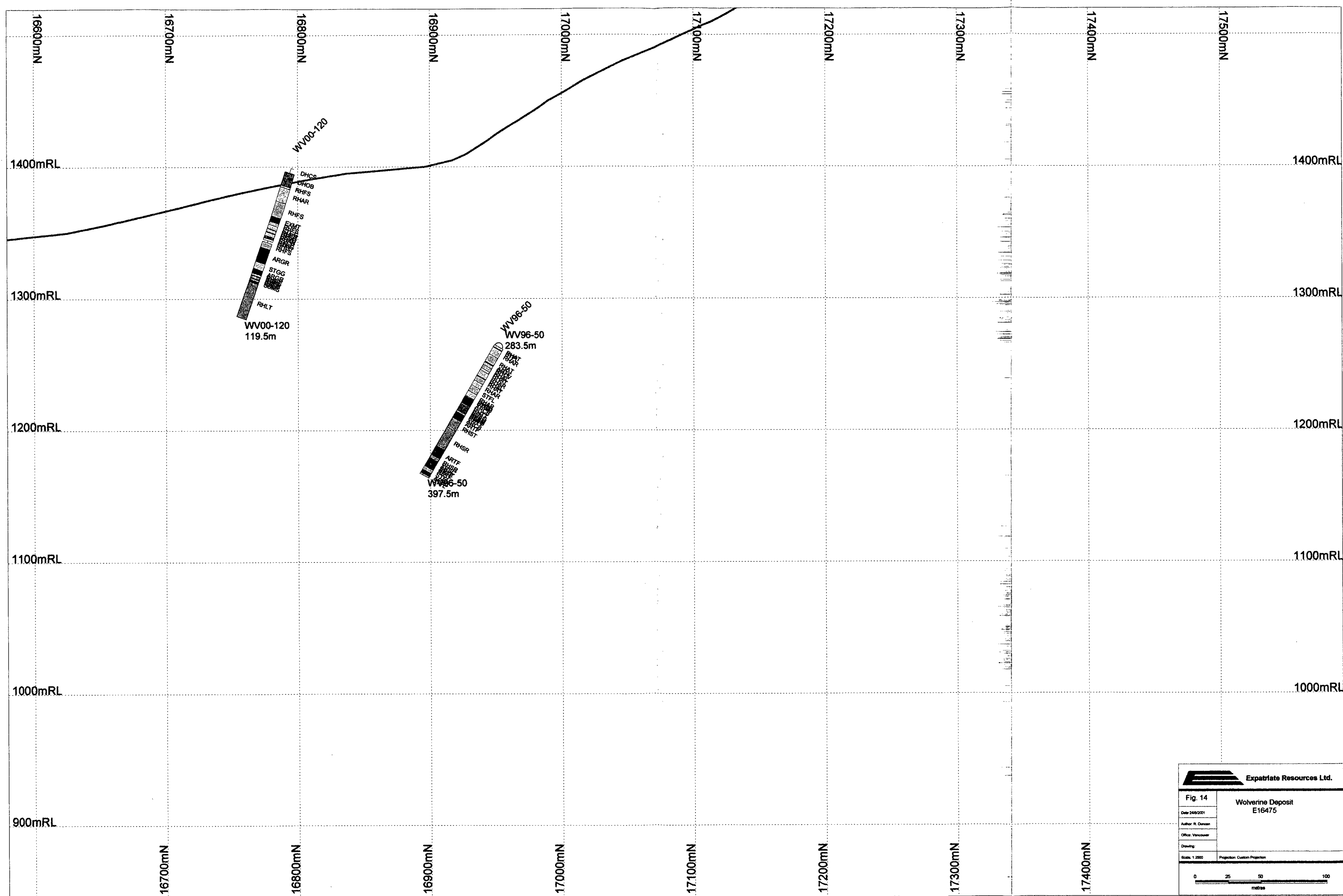


TABLE 1 WOLVERINE PROJECT ROCK CODES

DHOB Overburden
DHLC Lost Core
DHCS Casing
DHNL No Log

STRUCTURE / VEINS

STFL Fault
STGG Fault Gouge
STFB Fault Breccia

CAVN Calcite Vein
CRVN Carbonate Vein
QTVN Quartz Vein
QCVN Quartz-Carbonate Vein

ANDESITIC VOLCANICS

ADMS Andesite
ADTT Andesite Tuff
ADFF Andesite Fine Tuff
ADTF Andesite Lapilli Tuff

RHYOLITIC VOLCANICS

RHFS Aphanitic Rhyolite
RHMS Massive Rhyolite

RHFR Rhyolite Fragmental

RHTT Rhyolite Tuff
RHFF Rhyolite Fine Tuff
RHLT Rhyolite Lapilli Tuff
RHAL Banded Lapilli-Ash Tuff
RHAT Argillaceous Lapilli Tuff
RHST Sericitic Rhyolite Tuff
RHCT Chloritic Rhyolite Tuff
RHRS Sericitic Lapilli Tuff
RHCL Chloritic Lapilli Tuff

RPAT Argillaceous Quartz-Eye Feldspar
Crystal Tuff

RPQL Quartz-Eye Rhyolite Lapilli Tuff
RPTF Quartz-Eye Feldspar Crystal Tuff

FDPH Feldspar Porphyry
QFPH Quartz-Feldspar Porphyry

EXHALITES

EXCP Calcite-Pyrite Exhalite
EXSP Silica-Pyrite Exhalite
EXMT Banded Magnetite Iron Formation
EXMP Pyritic Banded Magnetite Iron
Formation

SEDIMENTS & VOLCANICLASTICS

ARMS Argillite
ARCB Carbonaceous Argillite
ARRT Carbonaceous Argillite with Rhyolite
Lapilli
ARGR Graphitic Argillite
ARSI Siliceous Argillite
ARTF Tuffaceous Argillite
ARQE Black Quartz-Eye Bearing Argillite
RHAR Interbedded Rhyolite / Argillite
ARRH Interbedded Argillite / Rhyolite
ARGT Interbedded Black Argillite/Green Tuff
ARWK Interbedded Black Argillite/Greywacke
SLST Siltstone
LMST Limestone

SULPHIDE ASSEMBLAGES

SSMS Massive Sulphides
PYMS Massive Sulphide (py-rich)
SPMS Massive Sulphide (sph-rich)
CPMS Massive Sulphide (cpy-rich)
CSMS Massive Sulphide (cpy+sph)
PMMS Massive Sulphide (polymetallic)

PYSM Semi-Massive Sulphides (py)
SPSM Semi-Massive Sulphides (sph)
CPSM Semi-Massive Sulphides (cpy)
CSSM Semi-Massive Sulphides (cpy+sph)
PMSM Semi-Massive Sulphides (polymetallic)