

85-906-14597

DIAMOND DRILLING REPORT
ON
CROWN GRANTS L-12481 & L-5654
AND
CLAIM 2102 (DOE)

SITUATED IN THE
REVELSTOKE MINING DIVISION

LATITUDE 50° 41.5'
LONGITUDE 117° 39.5'

N.T.S. 82-K/13-E

FILMED

HELD UNDER OPTION BY:

GRANGES EXPLORATION LTD.
900, 625 HOWE ST.
VANCOUVER, B. C.
V6C 2T6

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

NOVEMBER 18, 1985

C. M. ARMSTRONG
(J. J. LEADER)

14,597

TABLE OF CONTENTS

	PAGE NO.
INTRODUCTION.....	1
CLAIMS.....	1
LOCATION AND ACCESS.....	1
TOPOGRAPHY AND VEGETATION.....	2
GEOLOGY.....	2
DIAMOND DRILLING.....	2
RESULTS & RECOMMENDATIONS.....	3
BREAKDOWN OF EXPENDITURES.....	4 & 5
AUTHORS QUALIFICATIONS.....	6

ENCLOSURES

DIAMOND DRILL LOGS FOR HOLES WIN 1 - WIN 7 INCL.

1 PLAN SHOWING DIAMOND DRILL HOLES

SCALE 1:2500

INTRODUCTION

The Crown Grants numbered L-12480 & L-5654 and Claim 2102 form part of the Windflower property comprised of 14 crown-granted claims, 3 reverted crown-granted claims and 6 located claims.

The property lies approximately 35 Km southeast of Revelstoke and is accessible both from the TransCanada Highway at Revelstoke and B.C. Highway 23 from Revelstoke and Nakusp, by well-maintained roads.

The property is currently held by Granges Exploration Ltd. under an option agreement with Windflower Mining Company.

CLAIMS

The work was carried out on the following claims:

<u>Record No.</u>	<u>Name</u>	<u>Size</u>
L-12481	Dorothy	1 unit
L-5654	Goldfinch	1 unit
2102	Doe	20 units

LOCATION AND ACCESS

The Claims are located in the Revelstoke Mining Division, British Columbia. The property lies about four air kilometers north of Camborne, B. C. and about 35 Km southeast of Revelstoke at Latitude 50° 49.5' N. and Longitude 117° 39.5' W, on mapsheet 82K/13E of the National Topographic System.

Elevations on the property range from 1600-6500 feet (488-1981 m) above sea level, with the lowest point at the Incomappleaux (Fish) River on the east, to a high at the northwest boundary on the southeast slope of the Camaplix Mountain.

Road access to the property is very good as it is situated within an active logging area, with well-maintained haulage roads and branch roads throughout much of the property.

TOPOGRAPHY AND VEGETATION

The claims are located in the rugged Selkirk Mountain system. The main showings are located at about elevation 1040 m on a bench with moderate slopes.

Much of the property consists of heavily timbered and logged-over slopes with some rock bluffs, and with more open alpine areas at higher elevations. Most of the rock outcrop is covered by a heavy layer of moss, making prospecting and geological mapping a slow process.

The area has a high snowfall, but due to a southeast exposure and moderate elevation in the area of the main showings, they are usually snowfree from about early May to late October.

GEOLOGY

The claims are underlain by metamorphic rocks of the early Paleozoic Lardeau group of phyllites and altered greenstone. It includes the Broadview formation that trends in a general northwest direction for 100 miles and is host rock to many prospects and former producing mines. Gold is the principal economic mineral found in quartz veins and altered wall rock.

DIAMOND DRILLING

Seven diamond drill holes were drilled on the property for a total of 606.87 m (1991.0 ft.). The holes were drilled during the period of October 25th, 1985 to November 10, 1985, by Coates Drilling Ltd., of Vancouver, B. C. The program was supervised by Scott Weekes, Project Geologist for Granges Exploration Ltd.

Three of the drill holes were drilled to test V.L.F. electromagnetic anomalies. These holes were WIN-1 and WIN-2 on L-12481, and WIN-5 on Claim 2102. The remaining holes were drilled in the vicinity of a known gold zone where showings and trenches suggested potential mineralization. Two of these holes, WIN-3 and WIN-4 were drilled on L-5654 and the remaining holes WIN-6 and WIN-7 were drilled on L-12481.

RESULTS AND RECOMMENDATIONS

<u>Hole</u>	<u>Claim</u>	<u>Depth</u>	<u>Mineralization</u>
WIN-1	L-12481	98.45 m	47.7-48.31 5% Py 50.9-54.19 2% Py 87.78-91.74 Massive graphite & 5-10% Py
WIN-2	L-12481	96.92 m	17.07-18.59 80% Gr 5% Py 51.36-54.1 2-3% Py 58.83-63.09 60% Gr 5% Py 71.02-72.23 10% PY
WIN-3	L-5654	157.28 m	61.42-62.48 1.98 m @ 0.85 g/t Au
WIN-4	L-5654	48.18 m	64.01-64.92 0.91 @ 6.3 g/t Au 68.88-69.19 0.31 @ 8.1 g/t Au
WIN-5	2102	67.67	21.95-23.49 5% Py & Gr
WIN-6	L-12481	68.28	27.28-29.57 2.29 m @ 6.92 g/t Au, 36.1 g/t Ag
WIN-7	L-12481	43.59	12.19-13.11 0.92 m @ 1.85 g/t Au

The results of the drilling were interesting but inconclusive.

It is recommended that the property be further explored by prospecting and geochemical surveying, especially in the vicinity of the gold showings.

For more information please refer to enclosed logs and record sheets, or view core stored at the field location.

BREAKDOWN OF EXPENDITURES

CROWN GRANT L-12481

Diamond Drilling

D. W. Coates Enterprises Ltd.
7583, Vantage Place
Delta, B. C. -307.24 m \$35,754.30

Core Boxes

51 @ \$10.00 510.00

Assays

Acme Analytical Laboratories Ltd.
852 E, Hastings St. - 29 sludge @ \$9.75 282.75
Vancouver, B. C. -123 core @ \$9.50 1,168.50

Board & Lodging

20 man days @ \$35.00 700.00

Personnel

S. Weekes 10 days @ \$65.00 650.00
K. Shanks 10 days @ \$60.00 600.00

Report Preparation

J. J. Leader 1 day @ \$90.48 90.48

Administratio n

3,975.60

TOTAL

\$43,731.63



CROWN GRANT L5654 AND LOCATED CLAIM 2102 (DOE)

Diamond Drilling

D. W. Coates Enterprises Ltd. 7583 Vantage Place Delta, B. C.	-299.63 m	\$34,867.95
---	-----------	-------------

Core Boxes

49 @ \$10.00		490.00
--------------	--	--------

Assays

Acme Analytical Laboratories Ltd. 852 E. Hastings St. Vancouver, B. C.	- 49 sludge @ \$9.75 - 177 core @ \$9.50	477.75 1,681.50
--	---	--------------------

Board & Lodging

20 man days @ \$35.00		700.00
-----------------------	--	--------

Personnel

S. Weekes	10 days @ \$65.00	650.00
S. Shanks	10 days @ \$60.00	600.00

Report Preparation

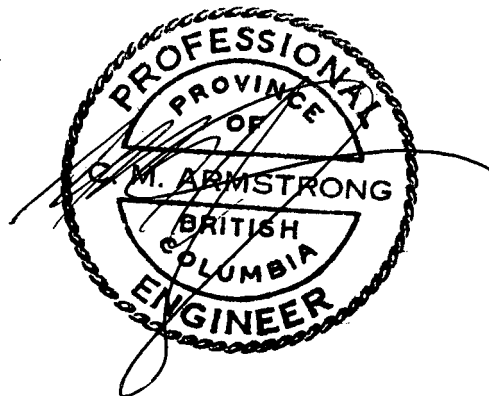
J. J. Leader	1 day @ \$90.48	90.48
--------------	-----------------	-------

Administration

3,955.77

TOTAL

\$43,513.45



CERTIFICATION

I, CHRISTOPHER MACKENDRICK ARMSTRONG of the City of Vancouver, Province of British Columbia, do hereby certify:

THAT I am a practicing Geological Engineer residing at 4085 West 29th Avenue, Vancouver, British Columbia, V6S 1V4, Canada.

THAT I am a registered Professional Engineer in good standing in the Provinces of British Columbia and Ontario.

THAT I received the degree of B.Sc. in Geological Engineering from Queen's University, Kingston, Ontario in 1960, and practiced my profession continuously in the period between leaving university in 1959 and returning to university in 1966.

THAT I enrolled in the Department of Mineral Engineering at the University of British Columbia in 1966, and in the period to 1969 completed course work and research work requirements in an M.A.Sc. program, specializing in bacterial-acid leaching systems; thesis writing was not completed; post graduate courses in economic geology and North American geology also were taken and completed.

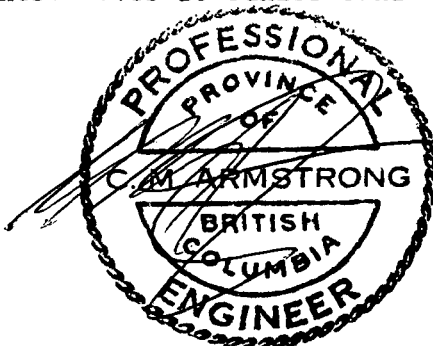
THAT since leaving university in 1969, I have practiced my profession both as a Geological Engineer and as a Specialist-Advisor in ambient temperature-pressure leaching systems.

THAT the following is a true record of my employment and experience:

- | | | | | |
|-----------|--------|---|--|--|
| 1957 | 4 mos. | Junior Geologist. | Noranda Mines Ltd. | Noranda, Quebec. |
| 1958 | 4 mos. | Party Chief. | Hollinger North Shore Exploration Co. Ltd. | New Quebec and Labrador. |
| 1959-1961 | 2 yrs. | Assistant Geologist. | Pickle Crow Gold Mines Ltd. | Pickle Crow, Ontario. Teck Corporation Ltd. |
| 1961-1962 | 1 yr. | Assistant Geologist. | Willroy Mines Ltd. | Manitouwadge, Ontario. |
| 1962-1964 | 2 yrs. | Chief Geologist. | Metal Mines Ltd. | Werner Lake, Ontario. Consolidated Canadian Faraday. |
| 1964-1966 | 2 yrs. | Chief Geologist. | Tegren Goldfields Ltd. | Kirkland Lake, Ontario. Teck Corporation Ltd. |
| 1967 | ½ yr. | Project Geologist. | Mcleese Lake property, | B. C. Geophysical Engineering & Surveys Ltd. Teck Corporation Ltd. |
| 1969-1970 | 1 yr. | Laboratory Manager, Chief Geologist, and Consulting Engineer. | S. M. Industries Ltd. | Vancouver, B. C. |
| 1970- | | Independent Consulting Engineer. | Canada, U.S.A., and Mexico. | |

Senior Clients: Long Lac Mineral Exploration Ltd., H.A. Simons (International) Ltd., Granby Mining Corporation, Du Pont of Canada Exploration Ltd., Bethlehem Copper Corporation, Mining Corporation of Canada (1964) Ltd., E & B Explorations Ltd., Granges Exploration Ltd.

Junior Clients: Over 30 Junior Canadian exploration companies.



Dated at

C. M. Armstrong, P.Eng.
Consulting Engineer


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property Windflower Project No. 274 Depth 98.45 m Date Began Oct 15 /85
 Hole No. Win 1 Co ord. 1450N Horizontal Length 63.51m Date Completed Oct. 17/85
 Claim No. L12481 0450W Core Size NO Drilled By Coates
 Grid No. 1 of 2 Angle & Direction -50°W Elevation Logged By S Weekes

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0-1.22	Casing								
1.22-4.57	Grey - Green Phyllite	1.22	4.57	3.35	35101	.05			
	- weathered	4.57	5.94	1.37	102	.05			
	- chloritic bands	5.94	7.01	1.07	103	.05			
	- minor graphite	7.01	8.23	1.22	104	.05			
	- minor quartz stringers	8.23	9.45	1.22	105	.05			
	- carbonate veinlets	9.45	10.36	0.91	106	.05			
	- strongly crenulated	10.36	10.67	0.31	107	.05			
	- 2% py associated with the graphite	10.67	12.04	1.37	108	.05			
		12.04	14.02	1.98	109	.05			
		14.02	16.60	2.58	110	.05			
4.57-14.94	Graphitic Phyllite	16.60	16.76	0.16	111	.05			
	- qtz stringer zone	16.76	19.20	2.45	112	.05			
	- carbonate veinlets	19.20	20.12	0.92	113	.05			
	- graphite fractures	20.12	21.95	1.83	114	.05			
	- 2-5% graphite usually disseminated in graphite	21.95	23.62	1.67	115	.05			
		23.62	25.30	1.68	116	.05			
		25.30	26.21	0.90	117	.05			
	10.36 - 10.67 - Grey Green Phyllite	26.21	27.74	1.53	118	.05			
		27.74	28.96	1.22	119	.05			
		28.96	31.70	2.74	120	.25			
14.94-23.77	Brecciated Quartzite	31.70	33.53	1.83	121	.05			
	- quartz and quartz-carbonate veinlets & infilling	33.53	35.05	1.52	122	.05			
	- minor graphite, fucsite, chlorite	35.05	37.03	1.98	123	.05			
	- 2-5% py associated with qtz-carbonate veining and graphitic horizons	37.03	38.40	1.37	124	.05			
		38.40	40.08	1.68	125	.05			
		40.08	41.45	1.37	126	.05			
		41.45	42.98	1.53	127	.05			
23.77-26.21	Graphitic Phyllite	42.98	44.50	1.52	128	.05			
	- extensive qtz stringers up to 7cm	44.50	46.02	1.52	129	.05			
	- carbonate veinlets	46.02	47.70	1.68	130	.20			
	- 2-5% py in veinlets and associated with qtz stringers and with graphite	47.70	48.62	0.92	131	.15			
		48.62	49.99	1.37	132	.05			
		49.99	51.51	1.52	133	.05			
		51.51	53.04	1.53	134	.05			
		53.04	54.56	1.52	135	.05			
		54.56	56.08	1.62	136	.05			

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,597

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Wind Flower Project No. _____ Depth _____ Date Began _____
 Hole No. Win 1 Co ord. _____ Horizontal Length _____ Date Completed _____
 Claim No. _____ Core Size _____ Drilled By _____
 Grid No. 2 of 2 Angle & Direction _____ Elevation _____ Logged By _____

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD								
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.	
26.21-28.96	Brecciated Graphitic Quartzite - fucsite along fractures - extensive secondary quartz veining - minor carbonate - 2-7% py along qtz veins and also in graph also assoc with fucsite	56.08	57.61	1.53	35137	.05				
		57.61	59.13	1.52	138	.05				
		59.13	60.35	1.22	139	.05				
		60.35	62.18	1.83	140	.05				
		62.18	63.70	1.52	141	.05				
		63.70	65.38	1.68	142	.05				
		65.38	67.67	2.29	143	.05				
		67.67	68.58	0.91	144	.05				
		68.58	69.49	0.91	145	.05				
		28.96-38.45	Graphitic Phyllite / Quartz Stringer Zone - strongly crevulated - at least 3 stages of quartz veining - quartz stringers poddy & irregular - up to 40% graphite over small zones - graphite # contains 2-5% py - minor carb.	69.49	71.32	1.83	146	.05		
71.32	72.85			1.51	147	.05				
72.85	74.22			1.37	148	.05				
74.22	75.59			1.37	149	.05				
75.59	77.42			1.83	150	.05				
77.42										
47.70-48.31	massive graphite - 5% py - minor qtz stringers									
50.90-54.19	quartzite - 2% py - trace cpy? - minor graphite									
87.78-91.74	Possible fault - graphitic phyllite, very broken up - massive graphite sections with 5-10% py									
End of Hole	Core Angles									
3.05 - 55°	43.09 - 0°	57.20 - 61°	69.30 - 65°							

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property Windflower Project No. 224 Depth 96.92m Date Began Oct. 27/85
 Hole No. WIN-2 Co ord. 1420 N Horizontal Length 62.52m Date Completed Oct 29/85
 Claim No. L 12481 1400 W Core Size NO Drilled By Coates
 Grid No. 1 of 3 Angle & Direction -50° E Elevation Logged By S. Weekes

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
						g/t			
0-4.57	Casing								
4.57-4.88	Quartz Vein	4.57	4.88	0.31	35165	.15			
	- broken, weathered	4.88	5.33	0.45	166	.05			
	- trace py	5.33	8.53	3.20	167	.05			
	- white	14.02	15.24	1.22	168	.05			
		15.24	15.54	0.30	169	.05			
4.88-24.69	Graphitic Phyllite	16.46	17.07	0.61	170	.10			
	- quartz stringer zone	17.07	17.98	0.91	171	.10			
	- quartz very paddy, irregular	22.25	23.62	1.37	172	.15			
	- very constricted	23.62	24.38	0.76	173	.10			
	- minor qtz-carb veinlets	24.38	24.84	0.46	174	.20			
	- 1-3% py mostly concentrated in	24.84	25.91	1.07	175	.05			
	graphite zones	25.91	28.35	2.44	176	.05			
		30.78	31.70	0.92	177	.05			
		33.38	34.44	1.06	178	.05			
	17.07-18.59	34.44	34.75	0.31	179	.05			
	- 80% graphite	34.75	35.97	1.22	180	.05			
	5% py	35.97	37.80	1.83	181	.05			
		44.50	47.14	2.74	182	.05			
	23.62-24.32	51.21	52.33	1.12	183	.20			
	- very qtz rich zone (70% qtz)	53.64	54.25	0.61	184	.05			
		54.25	56.08	1.83	185	.05			
		58.22	58.98	0.76	186	.05			
24.69-25.76	Quartz Vein	58.98	60.50	1.52	187	.05			
	- white	60.50	60.96	0.46	188	.05			
	- minor graphite	60.96	62.48	1.52	189	.05			
		62.48	64.00	1.52	190	.05			
		64.00	65.53	1.53	191	.05			
25.76-85.04	Graphitic Phyllite	65.53	66.90	1.37	192	.05			
	- qtz veining is very extensive over	70.10	70.71	0.61	193	.05			
	small zones	70.71	72.24	1.53	194	.05			
	- very constricted	72.24	73.76	1.52	195	.05			
	- minor carbonate	73.76	75.29	1.53	196	.05			
	- massive graphite sections with	75.29	76.66	1.37	197	.05			
	up to 7% py	76.66	78.33	1.67	198	.05			

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property Windpower Project No. _____ Depth _____ Date Began _____
 Hole No. WIN-2 Co ord. _____ Horizontal Length _____ Date Completed _____
 Claim No. _____ Core Size _____ Drilled By _____
 Grid No. 12 of 3 Angle & Direction _____ Elevation _____ Logged By _____

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
						g/t			
33.53 - 37.80	- Graphite zone	78.33	79.86	1.53	35199	.05			
	- broken, minor qtz	79.86	81.23	1.37	35200	.05			
	- 2-5% py	81.23	82.45	1.22	201	.05			
		82.45	84.43	1.98	202	.05			
44.50 - 47.24	- 40% qtz	85.65	85.56	0.91	203	.05			
	- carbonate veining more extensive	88.09	89.00	0.97	204	.08			
51.36 - 54.10	- 35% qtz								
	- 2-3% py								
58.22 - 58.83	- Light Green Phyllite								
	- qtz stringers								
	- tr py								
58.83 - 63.09	- 60% graphite								
	- broken up, possible fault								
	- 5% py								
70.41 - 71.02	- light Green Phyllite								
	- qtz stringers								
	- tr py								
71.02 - 72.23	- 10% py								
	- very coarse (up to .7cm)								
85.04 - 96.93	Quartz Chlorite Schist								
	- tightly folded								
	- 5% py disseminated throughout								
	- siliceous								
	- altered								

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property Windflower Project No. _____ Depth _____ Date Began _____
 Hole No. WIN-2 Co ord. _____ Horizontal Length _____ Date Completed _____
 Claim No. _____ Core Size _____ Drilled By _____
 Grid No. 3 of 3 Angle & Direction _____ Elevation _____ Logged By _____

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
						9/t			
	SLUDGE SAMPLE								
		4.88	7.63	2.75	35251	.05			
		7.63	10.97	3.34	252	.05			
		10.97	14.02	3.05	253	.05			
		14.02	17.07	3.05	254	.05			
		17.07	20.12	3.05	255	.10			
		20.12	23.16	3.04	256	.10			
		23.16	26.21	3.05	257	.10			
		26.21	29.26	3.05	258	.05			
		29.26	32.31	3.05	259	.05			
		32.31	35.36	3.05	260	.05			
		35.36	38.40	3.04	261	.05			
		38.40	41.45	3.05	262	.05			
		41.45	44.51	3.05	263	.05			
		44.51	47.55	3.05	264	.05			
		47.55	50.60	3.05	265	.05			
		50.60	53.64	3.04	266	.15			
		53.64	56.69	3.05	267	.05			
		56.69	59.74	3.05	268	.05			
		59.74	62.79	3.05	269	.05			
		62.79	65.84	3.05	270	.10			
		65.84	68.88	3.04	271	.05			
		68.88	71.93	3.05	272	.05			
		71.93	74.98	3.05	273	.05			
		74.98	78.03	3.05	274	.05			
		78.03	81.08	3.05	275	.05			
		81.08	84.12	3.04	276	.05			
		84.12	87.17	3.05	277	.05			
		87.17	90.22	3.05	278	.05			
		90.22	93.27	3.05	279	.05			

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Windflower Project No. 224 Depth 157.18 Date Began Oct 29 / 85
 Hole No. WIN-3 Co ord. 0+60N Horizontal Length 101.46 Date Completed Nov 3 / 85
 Claim No. L 5654 0+41E Core Size NA Drilled By Coates
 Grid No. 1 of 5 Angle & Direction -50°W Elevation Logged By S. Weekes

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD													
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.						
0-3.96	Casing	4.27	8.23	3.96	35205	.05									
3.96-9.45	Overburden	14.63	15.09	0.46	206	.05									
9.45-35.36	Light Grey Phyllite	15.09	15.85	0.76	207	.05									
		15.85	18.14	2.29	208	.05									
	-very hard	18.14	20.08	1.94	209	.05									
	-minor graphitic horizons	22.86	23.77	0.91	210	.05									
	-chlorite layers form good foliation	23.77	24.08	0.31	211	.05									
	-contorted	24.08	25.60	1.52	212	.05									
	-low to med metamorphic grade	25.60	26.21	0.61	213	.05									
	-pyrite disseminated through out	26.21	27.13	0.92	214	.15									
	but concentrated in graphitic	27.13	27.43	0.30	215	.05									
	layers (2-3%)	27.43	28.04	0.61	216	.05									
		30.94	32.00	1.06	217	.05									
		32.00	32.31	0.31	218	.05									
	21.03 - 21.33	32.31	33.83	1.52	219	.05									
	Light Green dirty Quartzite	33.83	35.66	1.83	220	.10									
	-some chlorite, very weak	35.66	36.73	1.07	221	.05									
	foliation	36.73	38.10	1.37	222	.05									
		38.10	39.47	1.37	223	.05									
	24.08 - 24.38	39.47	40.23	0.76	224	.05									
	Quartz Vein	40.23	41.76	1.53	225	.05									
	-minor chlorite/graphite	41.76	42.37	0.61	226	.05									
	-2-3% Py	42.37	44.20	1.83	227	.05									
		44.20	44.50	0.30	228	.15									
	25.54 - 25.91	44.50	45.57	1.07	229	.05									
	Quartz Vein	45.57	46.48	0.91	230	.05									
	-2-3% Py	46.48	47.85	1.37	231	1.6									
		47.85	48.77	0.92	232	.10									
	26.82 - 27.12	48.77	49.38	0.61	233	.10									
	Light Green dirty Quartzite	49.38	50.60	1.22	234	.05									
	-3% Py	50.60	52.43	1.83	235	.05									
		53.93	54.56	0.61	236	.05									
	32.16 - 32.46	54.56	56.24	1.68	237	.05									
	Quartz Vein	56.24	57.91	1.67	238	.05									
	-minor graphite	57.91	59.74	1.83	239	.05									
	-2-3% Py	59.74	61.42	1.68	240	.05									
		61.42	62.48	1.06	241	.60									
		62.48	63.40	0.92	242	1.15				1.98		0.85		g/t Au	
		63.40	64.31	0.91	243	.15				M					

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597


**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property Windflower Project No. Depth Date Begun

Hole No. WIN-3 Co ord. Horizontal Length Date Completed

Claim No. Core Size Drilled By

Grid No. 2 of 5 Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD									
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu	Zn	Pb	Fe
						g/t					
35.36-47.55	Quartz Stringer Zone / Graphitic Phyllite - quartz veins up to .4m - usually broken up - massive graphite lenses - 5-7% py	64.31	65.84	1.53	35244	.05					
		65.84	67.06	1.22	245	.05					
		67.06	67.36	0.30	246	.05					
		67.36	69.65	2.29	247	.05					
		69.65	71.02	1.37	248	.05					
		71.02	71.78	0.76	249	.05					
		71.78	72.54	0.76	250	.05					
		72.54	73.76	1.22	36261	.05					
47.55-62.48	Light Grey Phyllite - chlorite layers define a good foliation - minor Qtz stringers - trace carbonate - py disseminated through out (3%) - grades into Graphitic Phyllite	73.76	74.98	1.22	202	.05					
		74.98	76.50	1.52	203	.05					
		76.50	78.03	1.53	204	.05					
		78.03	79.25	1.22	205	.05					
		79.25	80.77	1.52	206	.05					
		80.77	81.84	1.07	207	.05					
		81.84	83.52	1.68	208	.05					
		83.52	84.73	1.21	209	.05					
62.48-88.70	Graphitic Phyllite - chloritic layers - minor Qtz stringers - contorted - strong foliation - 3% py disseminated throughout - minor pyrite stringers	84.73	85.34	0.61	210	.05					
		85.34	86.56	1.22	211	.05					
		86.56	87.48	0.92	212	.05					
		87.48	88.09	0.61	213	.05					
		88.09	93.57	5.48	214	.05					
		93.57	94.95	1.38	215	.05					
		94.95	96.32	1.37	215	.05					
		102.41	103.63	1.22	216	.05					
		103.63	105.46	1.83	217	.05					
	69.80 - 70.71	105.46	106.98	1.52	218	.05					
	Graphite	106.98	107.59	0.61	219	.05					
	- broken up (fault?)	115.21	115.98	0.77	220	.05					
	- 7-10% pyrite	115.98	117.04	1.06	221	.05					
		117.04	117.35	0.31	222	.05					
	71.93 - 72.70	120.40	121.01	0.61	223	.05					
	Dirty Quartzite	121.01	122.53	1.52	224	.05					
	- minor calcite	122.53	124.20	1.67	225	.05					
		124.20	126.19	1.99	226	.05					
		126.19	127.56	1.37	227	.05					
		127.56	129.24	1.68	228	.05					
		129.24	130.45	1.21	229	.05					
		130.45	131.98	1.53	230	.05					
		131.98	133.81	1.83	231	.05					
					232	.05					

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Wind Flower Project No. _____ Date Began _____
 Hole No. WIN-3 Co ord. _____ Horizontal Length _____ Date Completed _____
 Claim No. _____ Core Size _____ Drilled By _____
 Grid No. 3 of 5 Angle & Direction _____ Elevation _____ Logged By _____

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD									
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.		
						g/t					
88.70-121.01	Dirty Quartzite - original bedding is evident in some places - minor chlorite - very mottled - sections become very carbonaceous rich and may be called a dirty marble w) associated with talc on fractures - 1-2% py - disseminated	133.81	135.64	1.83	36237	.05					
		135.64	136.86	1.22	233	.05					
		136.86	138.38	1.52	234	.05					
		138.38	140.06	1.68	235	.05					
		140.06	141.58	1.52	236	.05					
		141.58	143.10	1.52	237	.05					
		143.10	144.02	0.92	238	.05					
		144.02	145.39	1.37	239	.05					
		145.39	146.91	1.52	240	.05					
		146.91	148.44	1.53	241	.05					
		148.44	150.26	1.82	242	.05					
		150.26	151.79	0.91	243	.05					
		151.79	153.97	2.13	244	.05					
		153.97	154.84	0.92	245	.05					
121.01-157.28	Graphitic Phyllite - graphite and chlorite form good foliation - contorted (tight folds) - minor qtz stringers - trace carbonaceous - 3% py concentrated in the graphite	154.84	156.67	1.83	36246	.05					
	123.44- 124.51 - phyllite is sheared - extensive quartz stringers up to 20 cm - broken graphite zones - 5-10% py										
	148.74- 154.23 - sheared graphite - 15% qtz - 5-10% py										
End of Hole											
	Core Angles										
	28.04 - 55°	85.34 - 62°	118 - 90°	132 - 57°							

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Wind Flower Project No. _____ Depth _____ Date Began _____
 Hole No. WIN-3 Co ord _____ Horizontal Length _____ Date Completed _____
 Claim No. _____ Core Size _____ Drilled By _____
 Grid No. 4 of 5 Angle & Direction _____ Elevation _____ Logged By [Signature]

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag	Cu.	Zn
	SLUDGE SAMPLES					g/t			
		4.88	7.92	3.04	35281				
		7.92	10.97	3.05	782				
		10.97	14.02	3.05	783				
		14.02	17.07	3.05	784				
		17.07	20.12	3.05	785	.05			
		20.12	23.16	3.04	35286				
		23.16	26.21	3.05	787	.05			
		26.21	29.26	3.05	788				
		29.26	32.31	3.05	789				
		32.31	35.26	3.05	790	.20			
		35.26	38.40	3.04	791				
		38.40	41.45	3.05	792				
		41.45	44.50	3.05	793				
		44.50	47.55	3.05	794				
		47.55	50.60	3.05	795				
		50.60	53.64	3.04	796				
		53.64	56.69	3.05	797	.05			
		56.69	59.74	3.05	798				
		59.74	62.79	3.05	35051				
		62.79	65.84	3.05	052	.05			
		65.84	68.88	3.04	053	.20			
		68.88	71.93	3.05	054	.05			
		71.93	74.98	3.05	055	.05			
		74.98	78.02	3.05	056	.05			
		78.02	81.08	3.05	057	mag			
		81.08	84.12	3.04	058	.05			
		84.12	87.17	3.05	059	.05			
		87.17	90.22	3.05	060	.05			
		90.22	93.27	3.05	061	.05			
		93.27	96.32	3.05	062				
		96.32	99.36	3.04	063	.05			
		99.36	102.41	3.05	064	.05			
		102.41	105.46	3.05	065	.05			
		105.46	108.51	3.05	066	.05			
		108.51	111.56	3.05	067	.05			
		111.56	114.60	3.04	068	.15			
		114.60	117.65	3.05	069	.05			
		117.65	120.70	3.05	070	.05			

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597



GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Windflower Project No. _____ Depth _____ Date Began _____
 Hole No. WIN-3 Co ord. _____ Horizontal Length _____ Date Completed _____
 Claim No. _____ Core Size _____ Drilled By _____
 Grid No. 5 of 5 Angle & Direction _____ Elevation _____ Logged By [Signature]

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
	<u>SLUDGE SAMPLES</u>					<u>0/E</u>			
		<u>120.70</u>	<u>123.74</u>	<u>3.05</u>	<u>071</u>	<u>.05</u>			
		<u>123.74</u>	<u>126.80</u>	<u>3.05</u>	<u>072</u>	<u>.05</u>			
		<u>126.80</u>	<u>129.84</u>	<u>3.04</u>	<u>073</u>	<u>.05</u>			
		<u>129.84</u>	<u>132.89</u>	<u>3.05</u>	<u>074</u>	<u>.05</u>			
		<u>132.89</u>	<u>135.94</u>	<u>3.05</u>	<u>075</u>	<u>.05</u>			
		<u>135.94</u>	<u>138.99</u>	<u>3.05</u>	<u>076</u>	<u>.05</u>			
		<u>138.99</u>	<u>142.03</u>	<u>3.05</u>	<u>077</u>	<u>.05</u>			
		<u>142.03</u>	<u>145.08</u>	<u>3.04</u>	<u>078</u>	<u>.15</u>			
		<u>145.08</u>	<u>148.13</u>	<u>3.05</u>	<u>079</u>				
		<u>148.13</u>	<u>151.18</u>	<u>3.05</u>	<u>080</u>				
		<u>151.18</u>	<u>154.22</u>	<u>3.05</u>	<u>081</u>				

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597



**GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG**

Property Windflower Project No. 224 Depth 74.68 Date Began Nov-3/85
 Hole No. WIN-4 Co. ord. 0+00 B.L Horizontal Length 48.18 Date Completed Nov-6/85
 Claim No. L 5654 0+44 E Core Size NA Drilled By Coates
 Grid No. Angle & Direction -50° W Elevation Logged By S. Weekes

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au. g/t	Ag g/t	Cu g/t	Zn g/t
0-3.65	Casing	3.67	3.18	1.51	26247	.05	NIL		
3.65-67.67	Light Green Phyllite	3.18	6.86	1.68	248				
	- chlorite bands form good foliation	6.86	8.23	1.37	249				
	- also sericitic in sections	8.23	9.45	1.22	250				
	- silicified	9.45	11.28	1.83	251				
	- top 3m weathered	11.28	12.80	1.52	252				
	- graphite found throughout the hole	12.80	14.17	1.37	253				
	and in places forms a graphitic	14.17	16.31	2.14	254				
	phyllite	16.31	17.37	1.06	255				
	- contains qtz blebs and qtz	17.37	19.20	1.83	256				
	stringers, trace carbonate	19.20	20.42	1.22	257				
	- 2-3% py	20.42	21.79	1.37	258				
		21.79	23.16	1.37	259				
		23.16	23.77	0.67	260				
		23.77	25.30	1.53	261				
		25.30	26.21	0.91	262				
		26.21	28.04	1.83	263				
		28.04	29.87	1.83	264				
		29.87	30.48	0.61	265				
		30.48	32.00	1.52	266				
		32.00	32.77	0.77	267				
		32.77	34.14	1.37	268				
		34.14	35.66	1.52	269				
		35.66	37.34	1.68	270	.05			
		37.34	38.86	1.52	271	.05			
		38.86	40.54	1.68	272	.05			
		40.54	41.91	1.37	273	1.15			
		41.91	43.28	1.37	274	0.40			
		43.28	43.59	0.31	275	.25			
		43.59	45.11	1.52	276	.05			
		45.11	46.82	0.91	277	.05			
		46.82	47.85	1.03	278	.15			
		47.85	51.21	3.36	279	.05			
		51.21	52.73	1.52	280	.35			
		52.73	53.95	1.22	281	.05			
		53.95	54.56	0.61	282	.40			
		54.56	55.47	0.91	283	.05			
		55.47	56.39	0.92	284	.15			
		56.39	56.69	0.31	285	.05			

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,597

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Project No. Depth Date Began
 Hole No. WIN-4 Co ord. Horizontal Length Date Completed
 Claim No. Core Size Drilled By
 Grid No. Angle & Direction Elevation Logged By

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD									
		FROM	TO	WIDTH	SAMPLE	Au. g/t	Ag.	Cu	Zn	Pb	Fe
53.95-56.69	- Quartz Stringer Zone	53.69	57.61	0.92	36286	.30					
	- sericitic	57.61	57.91	0.30	287	.15					
	- 40% qtz	57.91	58.83	0.92	288	.05					
	- veins to 30cm	58.83	59.74	0.91	289	.05					
	- 2-5% py	61.72	62.48	0.76	290	.05					
		62.48	62.94	0.46	291	.05					
		62.94	64.01	1.07	292	.05					
56.69-58.83	- Graphitic Quartz Stringer Zone	64.01	64.92	0.91	293	6.30					
	- 30% qtz	64.92	65.99	1.07	294	0.75					
	- 5-10% py	65.99	67.06	1.07	295	0.25					
		67.06	67.36	0.30	296	0.15					
		67.36	67.67	0.31	297	0.10					
62.48-62.79	- Quartz Vein	67.67	68.88	1.21	298	.05					
	- 2-3% py	68.88	69.19	0.31	299	8.10					
		69.19	70.71	1.52	300	0.10					
65.98-67.67	- Quartz Stringer Zone										
	- sericitic										
	- 40% quartz										
	- veins to 30cm										
	- 3% py										
	- possible galena?										
67.67-74.68	Graphitic Phyllite										
	- chloritic										
	- broken up sections										
	- 2-3% py										
	- minor qtz blebs and stringers										
End of Hole											
	Core Angles										
	34.13 - 60°	38.10 - 55°	67.59 - 85°								

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,597

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Windflower Project No. 224 Depth 67.67 Date Began Nov 6 / 85
 Hole No. WIN-5 Co ord. 3+60N Horizontal Length 43.65 Date Completed Nov 7 / 85
 Claim No. 2102 (DOE) 3+35E Core Size NQ Drilled By Coates
 Grid No. _____ Angle & Direction -50° W Elevation _____ Logged By S. Weekes

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0-1.22	Casing					0/t			
1.22-17.37	Inter layered Phyllite and Quartzite	1.83	3.05	1.22	36303	.05			
	- light green	3.05	5.18	2.13	304				
	- silicified	5.18	5.94	0.76	305				
	- chlorite forms poor to fair foliation	5.94	7.32	1.38	306				
	- 1% py	7.32	8.08	0.76	307				
		8.08	8.53	0.45	308				
		10.36	10.97	0.61	309				
	1.22-3.05	10.97	11.89	0.92	310				
	- broken, oxidized	11.89	12.50	0.61	311				
	- 3-5% py	12.50	13.72	1.22	312				
		13.72	14.02	0.30	313				
	3.05-5.18	14.02	15.24	1.22	314				
	- fault gouge	15.24	16.50	1.26	315				
	- 1.98m core lost	16.50	16.92	0.42	316				
		16.92	17.37	0.45	317				
	16.15-16.46	17.37	18.59	1.22	318				
	- Quartz vein	18.59	20.42	1.83	319				
	- massive, white	20.42	21.79	1.37	320				
		21.79	23.47	1.68	321				
17.37-24.08	Graphite Chlorite Phyllite	23.47	24.99	1.52	322				
	- fair to good foliation	24.99	26.52	1.53	323				
	- minor silicified sections	26.52	28.04	1.52	324				
	- strong banding formed by	28.04	29.57	1.53	325				
	graphite rich layers	32.77	33.99	1.22	326				
	- 1-3% py	33.99	35.36	1.37	327				
		35.36	36.27	0.91	328				
	21.95-23.47	36.27	36.88	0.61	329				
	- very graphitic section	59.74	60.96	1.22	330				
	- broken up minor quartz	60.96	62.18	1.22	331				
	- 5% py	62.18	62.64	0.46	332				
		62.64	63.40	0.76	333				
		63.40	64.01	0.61	334				

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Windflower Project No. 224 Depth 68.28 Date Began Nov 9 /85
 Hole No. WIN-6 Co ord. 2+10N Horizontal Length 44.04 Date Completed Nov 10 /85
 Claim No. L 12481 O+28W Core Size NQ Drilled By Coates
 Grid No. Angle & Direction -50°E Elevation Logged By S. P. ...

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD																		
		FROM	TO	WIDTH	SAMPLE	Au. g/t	Ag. g/t													
0-1.22	Casing																			
1.22-19.81	light Green Phyllite - chloritic - minor sericite - trace carbonate - good foliation - some zones intensely silicified	20.42	21.95	1.53	36335	.05	1.5													
		21.95	22.25	0.29	336	.05	0.5													
		22.25	23.32	1.07	337	.05	1.5													
		23.32	24.69	1.37	338	.05	1.5													
		24.69	26.21	1.52	339	1.05	2.5													
		26.21	27.28	1.08	340	0.55	1.5													
		27.28	28.04	0.76	341	6.35	23.0													
		28.04	28.65	0.61	342	13.70	83.5	2.29M	6.92											
		28.65	29.57	0.92	343	2.90	15.5		36.1											
		29.57	31.39	1.82	344	0.15	1.5													
		31.39	32.31	0.92	345	.10	1.0													
		32.31	32.61	0.30	346	.05	0.5													
		32.61	33.53	0.93	347	.10	3.0													
		33.53	34.14	0.61	348	.10	0.5													
		34.14	35.36	1.22	349	.05	2.5													
		35.36	36.12	0.76	350	.05	1.0													
		36.12	37.34	1.22	35001	.15	.5													
		61.26	61.87	0.61	002	.05	1.0													
19.81-34.44	Graphite Chlorite Phyllite - good foliation - minor quartz stringers / blebs - trace carbonate	61.87	62.33	0.46	003	.05	.5													
		62.33	63.09	0.76	004	.05	.5													
		28.22	29.57																	
	Quartz vein - 25% pyrite - 1% galena - trace cpy - trace silver?																			
		33.53	34.44																	
	Quartz vein - 1% py																			

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

14,597

GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Windflower Project No. _____ Depth _____ Date Began _____
 Hole No. WIN-6 Co ord. _____ Horizontal Length _____ Date Completed _____
 Claim No. _____ Core Size _____ Drilled By [Signature]
 Grid No. _____ Angle & Direction _____ Elevation _____ Logged By [Signature]

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD								
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.	
34.44-36.69	Chlorite Sericite Phyllite - fair to poor foliation - possible fucsite blebs - silicified - trace py									
44.50 - 48.46	- broken up - highly altered - possible fault									
56.69-68.28	Graphite Chlorite Phyllite - good foliation - banding formed by alternating quartz and graphite/chlorite rich layers - 2-3% pyrite									
61.87- 62.18	Quartz vein									
65.84- 66.45	- broken up - very graphitic - fault									
End of Hole	Mineralization									
28.22- 29.57	25% py, 1% ga, tr Ag?, tr cp									
	Core Angles									
33.33- 8°	36.58 - 32°	57.61 - 34°								

LOCAL BRANCH
CURRENT REPORT

14,597

14

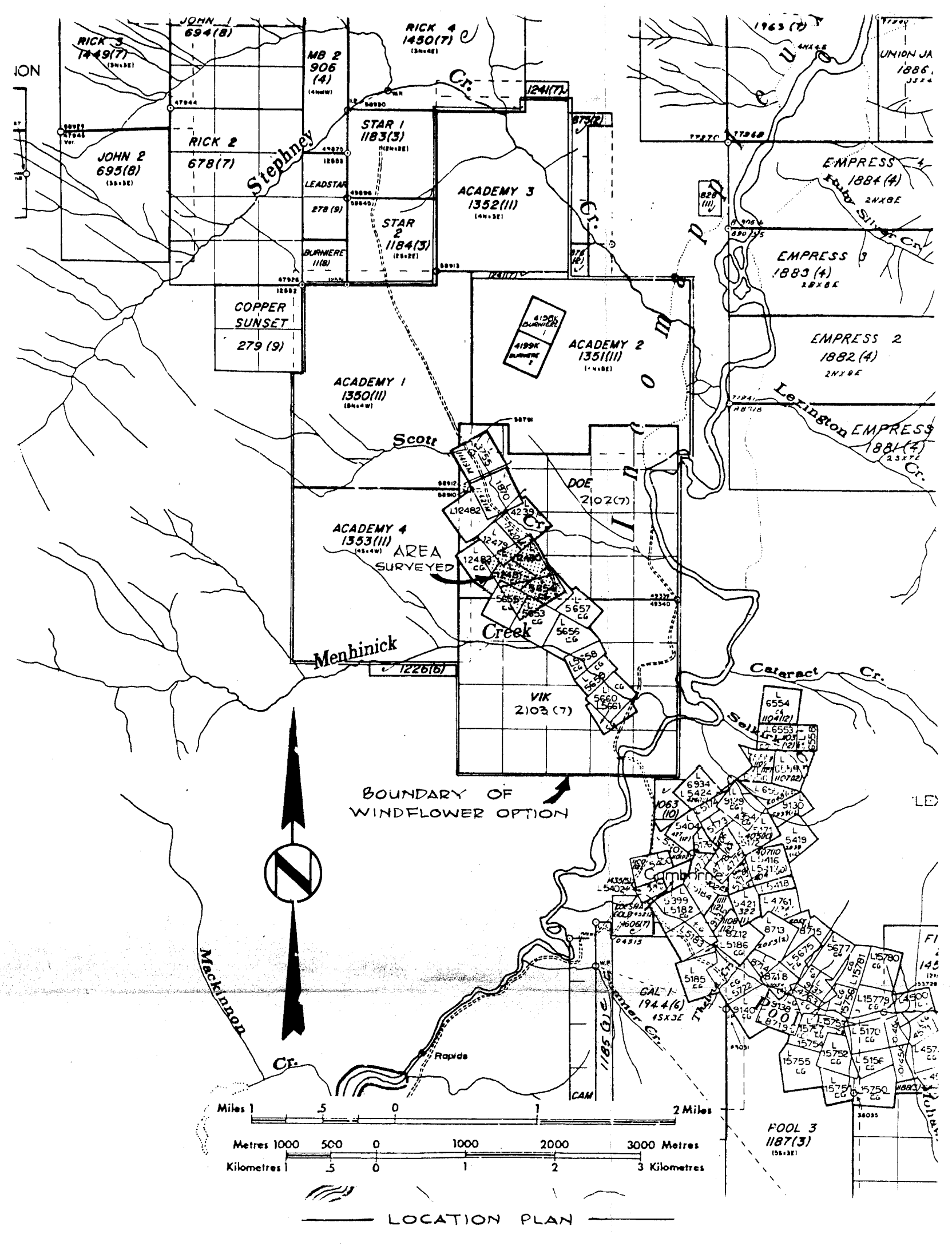
GRANGES EXPLORATION LTD.
DIAMOND DRILL LOG

Property Wind Tower Project No. 224 Depth 43.59 Date Began Nov 10/85
 Hole No. WIN-7 Co ord. 1450 N Horizontal Length 28.12 Date Completed Nov 10/85
 Claim No. L 12481 0+25 W Core Size NQ Drilled By Cookes
 Grid No. Angle & Direction -50° W Elevation Logged By 5 Weeks

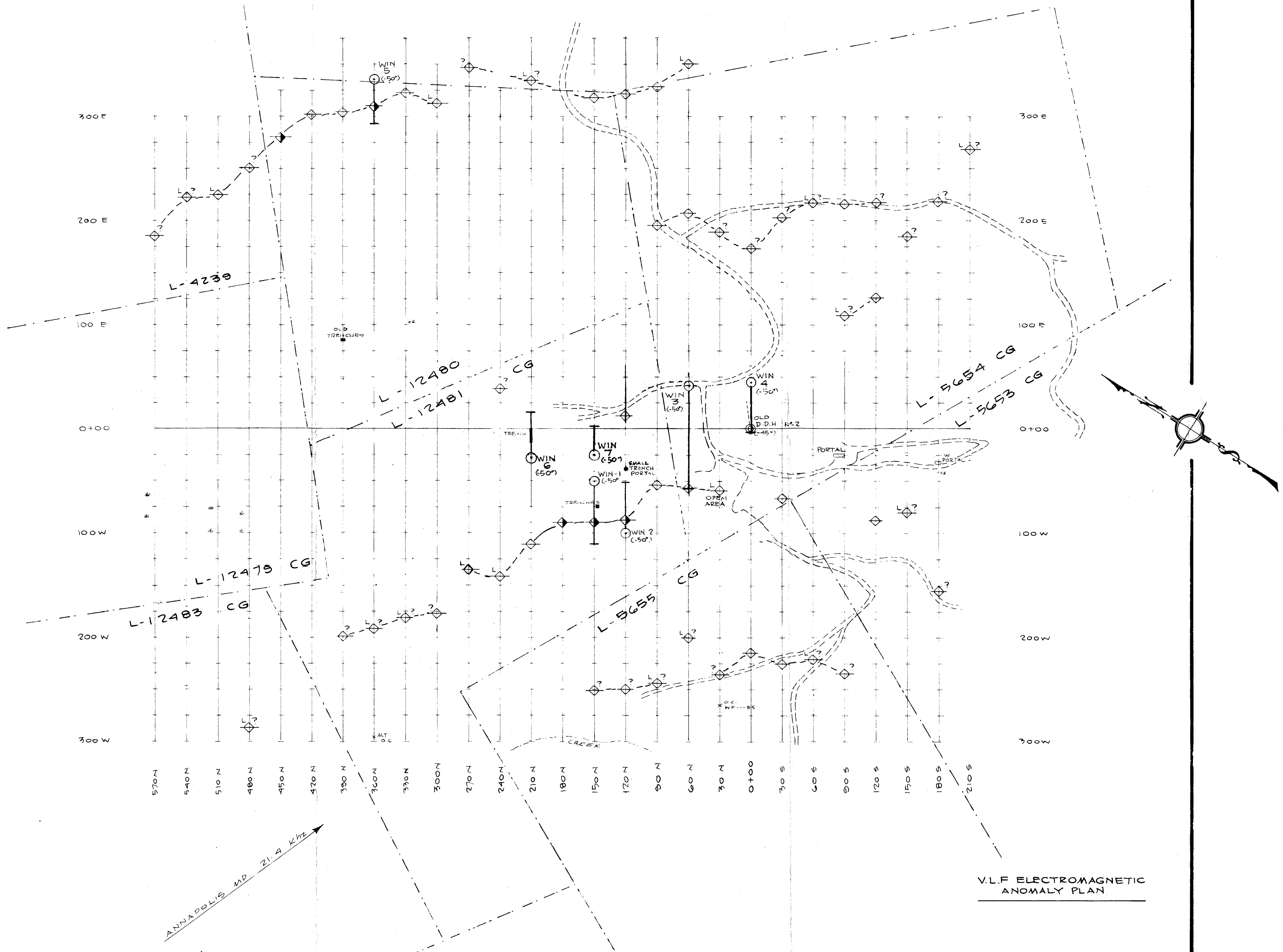
INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au	Ag	Cu	Zn
0-8.23	Casing								
8.23-25.60	Light Green Phyllite	10.36	11.28	0.92	35005	.05	-		
	- sericitic	11.28	12.19	0.91	006	.20	-		
	- chloritic	12.19	13.11	0.92	007	1.85	-		
	- fair foliation	13.11	14.02	0.91	008	0.90	-		
	- sections highly silicified	14.02	15.54	1.52	009	.35	-		
	- trace carbonate	15.54	16.76	1.22	010	.10	-		
		16.76	17.53	0.77	011	.05	-		
	11.28-11.73	17.53	18.14	0.61	012	.05	-		
	Quartz Vein	18.14	19.05	0.91	013	.05	-		
25.60-34.75	Graphite Chlorite Phyllite	19.05	19.81	0.76	014	.05	-		
	- good foliation	19.81	21.64	1.83	015	.05	-		
	- banded (alternating qtz and graphite chlorite layers)	21.64	23.01	1.37	016	.25	-		
		23.01	23.47	0.46	017	.05	-		
	- 1% py								
	- trace carbonate								
	- contorted								
34.75-43.59	Light Green Phyllite								
	- minor interlayered quartzite								
	- sericitic, chloritic								
	- poor - fair foliation								
	- silicified								
	- trace carbonate								
End of Hole									
	Core Angles								
	10.36 - 54°	37.19 - 58°							

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

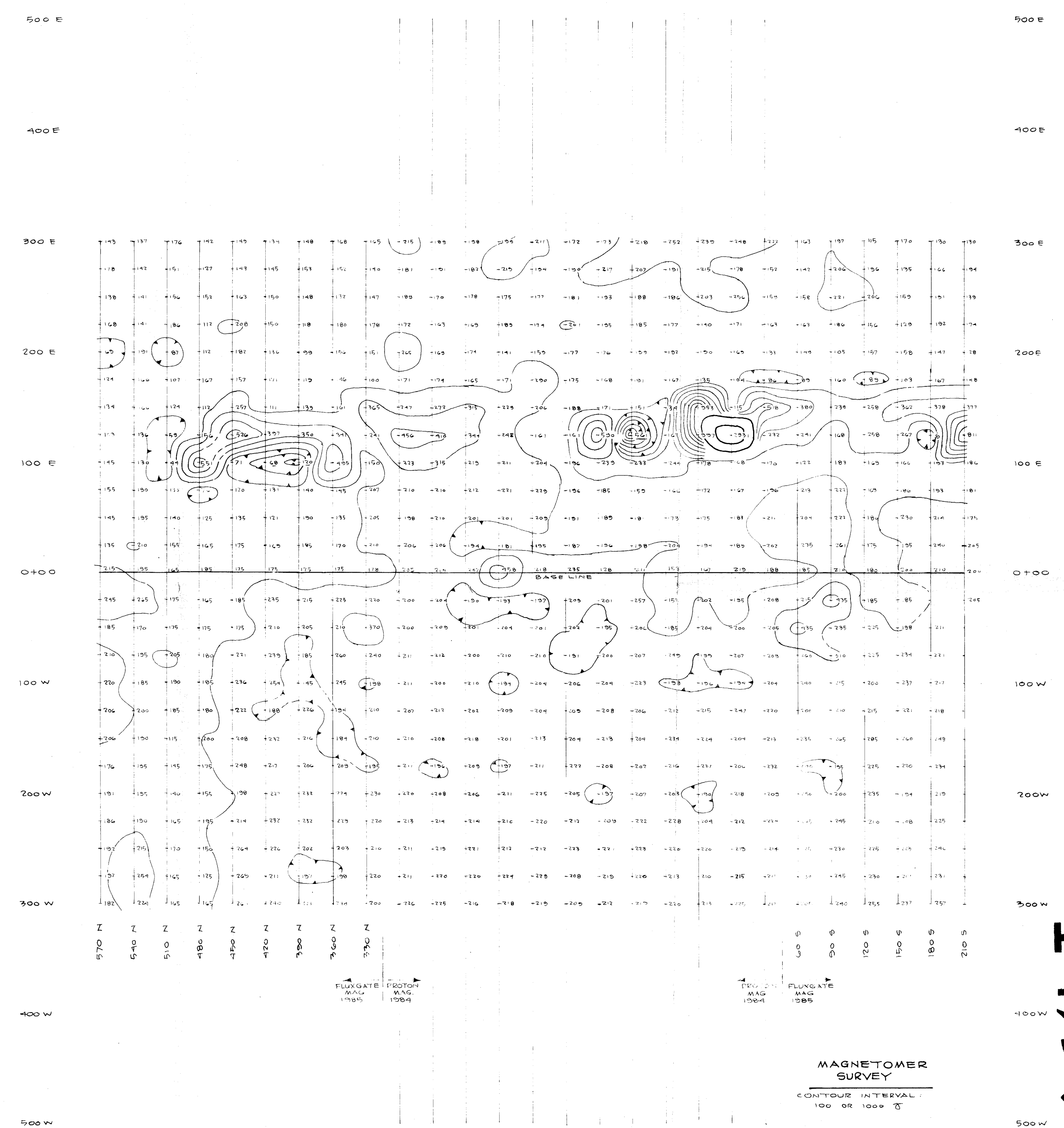
14,597



POE 2102 (7)



- KEY**
- Indicates locations shown by tilt angle and field strength components are not considered.
 - FIRST PRIORITY ANOMALY
 - SECOND PRIORITY ANOMALY
 - THIRD PRIORITY ANOMALY
 - DOUBTFUL ANOMALY



SURVEYED BY S. WHEELER & M. TAYLOR
AUG 15 - SEPT 1, 1985
INSTR: MAGNETOMETER - SCINTEX ME-2
ELECTROMAGNETIC - PHOENIX VLF-2
TRANSMITTER SITE: ANANAPUS, B.C.
OPERATING FREQUENCY: 21.4 kHz

DRAWN BY: M.P.
DATE: SEPT, 1985

GRANGES EXPLORATION LTD.
VANCOUVER, B.C.

PLAN OF
MAGNETIC & VLF ELECTROMAGNETIC SURVEYS
WINDFLOWER OPTION
FOUR LANE AREA
REVELSTOCK MINING DIVISION, B.C.

SCALE: 1:2500
PROJECT No: 224
N.T.S. No: D3 K-12 B

14,597
 GEOLOGICAL BRANCH
 ASSESSMENT REPORT