

86-719 - 15401

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,401  
DIAMOND DRILLING REPORT

ON CLAIMS

L12481 (DOROTHY), L12480 (INDEPENDENCE)  
L5655 (SEA LION), AND L5654 (GOLDFINCH)

SITUATED IN THE

REVELSTOKE MINING DIVISION

LATITUDE 50° ~~82'15"~~ 49.5'  
LONGITUDE 117° ~~39'15"~~ 39.3'

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

Owner(s): Windflower Mining  
Academy Enterprises Ltd.

HELD UNDER OPTION BY:

Operator: GRANGES EXPLORATION LTD.  
900 - 625 HOWE ST.  
VANCOUVER, BRITISH COLUMBIA  
V6C 2T6

NOVEMBER 18, 1986

G. W. ZBITNOFF  
J. J. LEADER

FILMED

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## ENCLOSURES

DIAMOND DRILL LOGS AND RECORD SHEETS FOR HOLES  
WIN 8 - WIN 44

PLAN SHOWING COLLAR LOCATIONS FOR HOLES  
WIN 8 - WIN 44

SCALE 1:2500

## INTRODUCTION:

The crown grants numbered L12480, L12481, L5655 and L5654 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>Na m e</u>	<u>Size</u>
L - 12480	Independence	1 unit
L - 12481	Dorothy	1 unit
L - 5654	Goldfinch	1 unit
L - 5655	Sea Lion	1 unit

## Location and Access:

The claims are located in the Revelstoke Mining Division, British Columbia. The property lies about 4 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 Incamappleaux (Fish) River on the east, to a high at the northwest boundary on the southeast slope of the Canaplix 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:

A total of 37 diamond drill holes were drilled on the property for a total of 3745.91 m (12,289.73 ft.) These holes were drilled by Diamond (M) Drilling Exploration of Kamloops and Kootenay Exploration Drilling Ltd. of Rossland. The holes were drilled during the period of July 31st to October 5th, 1986 under the supervision of P.J. DeVeaux and W. S. Ferreira - geologists for Granges Exploration Ltd.

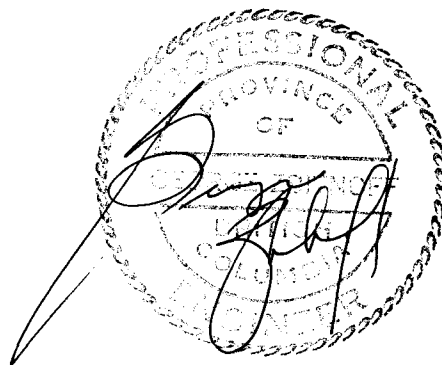
The following is a summary of the drillhole results, but for more information please see appended logs and record sheets or view core at the Windflower property, Trout Lake, B. C.

Diamond Drilling Results

<u>Hole</u>	<u>Claim</u>	<u>Depth</u>	<u>Mineralization</u>
WIN 8	L 12481	102.41 m	60.59 - 61.93 1.34 m @ 13.34 g/t Au 62.85 - 64.40 1.55 m @ 39.05 g/t Au
WIN 9	L 12481	135.02 m	No significant mineralization
Win 10	L 12481	53.95 m	28.65 - 33.83 5.18 m @ 12.16 g/t Au
Win 11	L 12481	70.41 m	26.67 - 32.37 5.7 m @ 4.89 g/t Au
Win 12	L 12481	81.38 m	36.36 - 39.47 3.11 m @ 17.55 g/t Au
Win 13	L 12481	93.57 m	No significant mineralization
Win 14	L 12481	60.96 m	18.74 - 20.63 1.89 m @ 9.6 g/t Au 31.70 - 33.62 1.92 m @ 3.13 g/t Au
Win 15	L 12481	69.49 m	25.91 - 26.82 0.91 m @ 3.7 g/t Au
Win 16	L 12481	51.51 m	45.56 - 47.55 1.99 m @ 0.7 g/t Au
Win 17	L 12481	53.95 m	No significant mineralization
Win 18	L 12481	60.04 m	17.68 - 19.50 1.82 m @ 35.72 g/t Au 21.03 - 22.09 1.06 m @ 2.68 g/t Au 25.60 - 26.82 1.22 m @ 1.41 g/t Au
Win 19	L 12481	63.70 m	Minor Au mineralization
Win 20	L 12481	44.80 m	19.20 - 21.34 2.14 m @ 1.31 g/t Au 24.99 - 25.91 0.92 m @ 2.43 g/t Au
Win 21	L 12481	96.93 m	68.88 - 69.95 1.07 m @ 6.9 g/t Au 71.93 - 75.59 3.66 m @ 4.96 g/t Au
Win 22	L 12481	94.06 m	40.54 - 41.45 0.91 m @ 7.91 g/t Au
Win 23	L 12481	101.49 m	52.73 - 55.01 2.28 m @ 5.51 g/t Au 56.39 - 57.60 1.21 m @ 2.89 g/t Au 58.82 - 61.87 3.05 m @ 4.88 g/t Au 63.61 - 65.99 2.38 m @ 4.62 g/t Au

<u>Hole</u>	<u>Claim</u>	<u>Depth</u>	<u>Mineralization</u>	
Win 24	L 12481	108.5 m	86.87 - 87.78	0.91 m @ 15.02 g/t Au
			89.76 - 90.68	0.92 m @ 1.63 g/t Au
Win 25	L 5655	95.70 m	29.26 - 29.99	0.73 m @ 3.62 g/t Au
Win 26	L 5655	118.87 m	62.18 - 64.01	1.83 m @ 2.01 g/t Au
			96.62 - 99.67	3.05 m @ 1.05 g/t Au
Win 27	L 5655	134.11 m	120.70 - 122.53	1.83 m @ 1.86 g/t Au
Win 28	L 5654	62.48 m	53.34 - 55.47	2.13 m @ 1.86 g/t Au
Win 29	L 5654	88.69 m	53.03 - 54.86	1.22 m @ 1.76 g/t Au
Win 30	L 12481	104.24 m	86.87 - 88.69	1.82 m @ 2.83 g/t Au
Win 31	L 12481	35.35 m	17.37 - 19.81	2.44 m @ 3.52 g/t Au
Win 32	L 12481	102.71 m	74.52 - 76.35	1.83 m @ 10.522 g/t Au
			84.43 - 88.09	3.66 m @ 2.7 g/t Au
Win 33	L 12481	46.02 m	26.82 - 29.57	2.75 m @ 14.302 g/t Au
Win 34	L 12481	76.80 m	56.08 - 59.25	3.17 m @ 46.312 g/t Au
			65.84 - 70.56	4.72 m @ 14.18 g/t Au
Win 35	L 12481	50.29 m	17.98 - 19.81	1.83 m @ 2.24 g/t Au
			24.23 - 25.30	1.07 m @ 4.15 g/t Au
Win 36	L 12481	116.74 m	21.79 - 22.86	1.07 m @ 2.162 g/t Au
			98.75 - 100.58	1.83 m @ 3.951 g/t Au
Win 37	L 12481	68.88 m	32.31 - 34.29	1.98 m @ 1.218 g/t Au
			35.66 - 37.49	1.83 m @ 3.42 g/t Au
Win 38	L 12481	168.55 m	61.35 - 63.40	2.05 m @ 19.83 g/t Au
			131.67 - 132.13	0.46 m @ 3.90 g/t Au
			135.02 - 141.42	6.4 m @ 1.40 g/t Au
Win 39	L 12481	40.54 m	24.54 - 24.99	0.45 m @ 5.69 g/t Au
			27.13 - 27.74	0.61 m @ 5.68 g/t Au
Win 40	L 12481	138.38 m	95.25 - 96.16	0.91 m @ 3.06 g/t Au
			97.84 - 102.26	4.42 m @ 4.005 g/t Au
Win 41	L 12481	72.23	47.24 - 51.82	4.58 m @ 6.867 g/t Au

<u>Hole</u>	<u>Claim</u>	<u>Depth</u>	<u>Mineralization</u>
Win 42	L 12481	192.63 m	30.33 - 38.10 7.72 m @ 32.485 g.t Au
Win 43	L 12481	147.22 m	37.19 - 38.10 0.91 m @ 0.965 g/t Au 42.37 - 43.89 1.52 m @ 8.845 g/t Au 58.83 - 60.06 1.22 m @ 1.804 g/t Au
Win 44	L 12481	98.75 m	57.0 - 64.01 7.01 m @ 5.459 g/t Au 68.28 - 69.80 1.52 m @ 2.40 g/t Au



Breakdown of Expenditures

Claim L 12481 (Dorothy)

Diamond Drilling

Diamond (M) Drilling Exploration 2 Kelso Crescent, Kamloops, V2C 5A2	2300.56 m	\$184,904.00
Kootenay Exploration Drilling Ltd. P.O. Box 519, Rossland, V0G 1Y0	480.95 m	\$ 30,547.44
Total	2781.51 m	\$215,451.44

Assays

Acme Analytical Laboratories Ltd. 825 E. Hastings St. Vancouver, - V6A 1R6	633 @ 12.75	\$ 8,070.75
Eco-Tech Laboratories Ltd. 10041 E. Transcanada Hwy, R.R. #2 - Kamloops, V2C 2S3	1884 @ \$10.50	\$ 19,782.00

Personnel

Supervision:	P. J. DeVeaux	53 days @ \$150.00	\$ 7,950.00
	G. Ryznar	7 days @ \$300.00	2,100.00
Helpers;	B.C. Vanleur	22 days @ \$57.50	1,265.00
	D. Muzylowski	15 days @ \$57.50	862.50
	T. LaFavor	3 days @ \$57.50	172.50
	W.S. Ferreira	3 days @ \$126.90	380.70

Accommodation

Windsor Hotel, Trout Lake B. C. June 31 - August 28, Sept. 7 - Sept. 24	\$ 2,775.22
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Report Preparation and Drafting

J. J. Leader & C. Ulanday - 7.65 days @ \$136.90	\$ 1,047.29
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Administration

TOTAL

\$ 25,985.74

\$285,843.14





Claim L5655 (Sea Lion)

Diamond Drilling

Diamond (M) Drilling Exploration

2, Kelso, Cresc. Kamloops, V2C 5A2

348.68 m

\$26,834.22

Assays

Acme Analytical Laboratories Ltd.

825 E. Hastings St. Vancouver, V6A 1R6

62 @ \$12.75

\$ 790.50

Eco-Tech Laboratories Ltd.

10041 E. Transcanada Hwy, RR #2 Kamloops, V2C 2J3

143 @ \$10.50

\$ 1,501.50

Personnel

Supervision: P. J. DeVeaux 6 days @ \$150.00

\$ 900.00

Accommodation

Windsor Hotel, Trout Lake, B. C.

Aug. 29-Sept. 3

\$ 630.00

Report Preparation and Drafting

J. J. Leader & C. Ulanday 0.9 days @ \$136.90

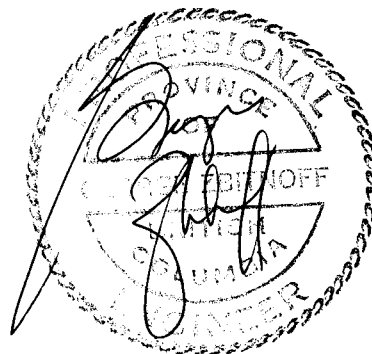
\$ 124.56

Administration

\$ 3,078.08

TOTAL

\$33,858.86



Claim L 12480 (Independence)

Diamond Drilling

Diamond (M) Drilling Exploration  
2, Kelso Cresc., Kamloops, V2C 5A2

464.55 m \$29,683.00

Assays

Acme Analytical Laboratories  
825 E. Hastings St. Vancouver V6A 1R6  
99 @ \$12.75 \$ 1,262.25

Eco-Tech Laboratories  
10041 E. Transcanada Hwy, RR #2, Kamloops V2C 2J3  
335 @ \$10.50 \$ 3,517.50

Personnel

Supervision: P. J. DeVeaux 2 x 150 \$ 1,300.00  
W.S. Ferreira 3 x 126.50 379.50

Helpers: B.C. Vanleur 7 x 57.50 \$ 402.50  
R. LaFavor 3 x 57.50 172.50

Report Preparation & Drafting

J. J. Leader and C. Ulanday 1.05 days @ 136.90 \$ 143.75

Administration \$ 3,686.10

TOTAL \$40,547.10



Claim L 5654 (Goldfinch)

Diamond Drilling

Diamond (M) Drilling Exploration  
2, Kelso Crescent, Kamloops, V2C 5A2  
151.17 m \$11,708.00

Assays

Acme Analytical Laboratories  
825 E. Hastings St. Vancouver, V6A 1R6  
9 @ \$12.75 \$ 114.75

Eco-Tech Laboratories Ltd.  
10041 E. TransCanada Hwy. RR#2, Kamloops, V2C 2J3  
67 @ \$10.50 \$ 703.50

Personnel

Supervision: P. J. DeVeaux 3 days @ \$150.00 \$ 450.00

Accommodation

Windsor Hotel, Trout Lake, B. C.  
Sept. 4-6th \$ 225.00

Report Preparation & Drafting

J. J. Leader & C. Ulanday 0.4 days @ \$136.90 \$ 53.59

Administration \$ 1,325.48

TOTAL \$ 14,580.32



STATEMENT OF QUALIFICATIONS  
GEORGE W. ZBITNOFF  
5160 CLIFF PLACE  
DELTA, B.C.

Name: Zbitnoff, George William

Birth Date: August 15, 1938

Birthplace: Saskatoon, Saskatchewan

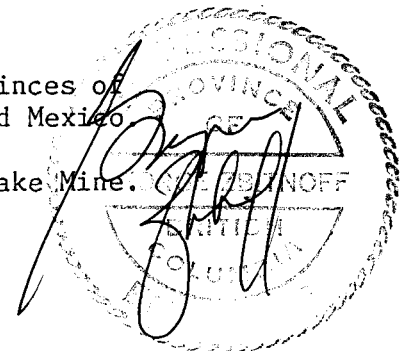
Graduated with Grade 12 matriculation from  
Blaine Lake High School in 1955.

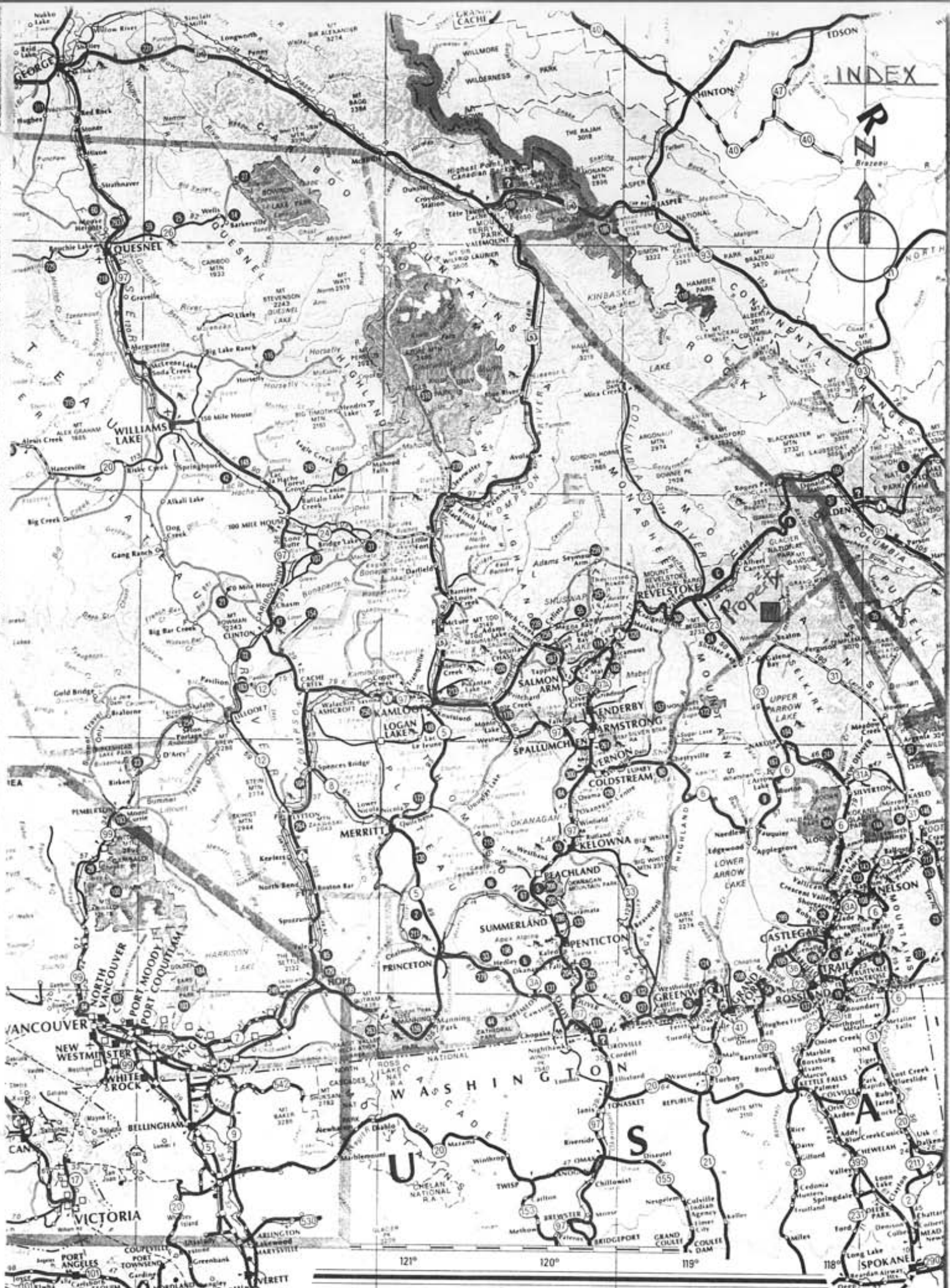
Graduated from University of Saskatchewan with a  
B.A. (Geology and chemistry majors) in 1963.

Professional

- Associations:
- Member of the Association of Professional Engineers of the Province of Manitoba.
  - Member of the Association of Professional Engineers of the Province of British Columbia since 1973.
  - Member of the Canadian Institute of Mining and Metallurgy.

- Experience:
- Pre-graduation experience in geology with the Department of Mineral Resources of Saskatchewan.
  - May 1962 - Two and one half years, field geologist with Hudson Bay Exploration and Development, Flin Flon area.
  - January 1965 - Six years, field and resident geologist with Noranda Exploration Ltd., Flin Flon area.
  - February 1971 - Twelve and one half years, Assistant Manager, Granges Exploration Aktiebolag in Vancouver, B.C.
  - November 1983 to present - Vice President Exploration, Granges Exploration Ltd. in Vancouver, B.C.
  - Active geological experience in all provinces of Canada and parts of the United States and Mexico
  - Participated in the discovery of Trout Lake Mine.





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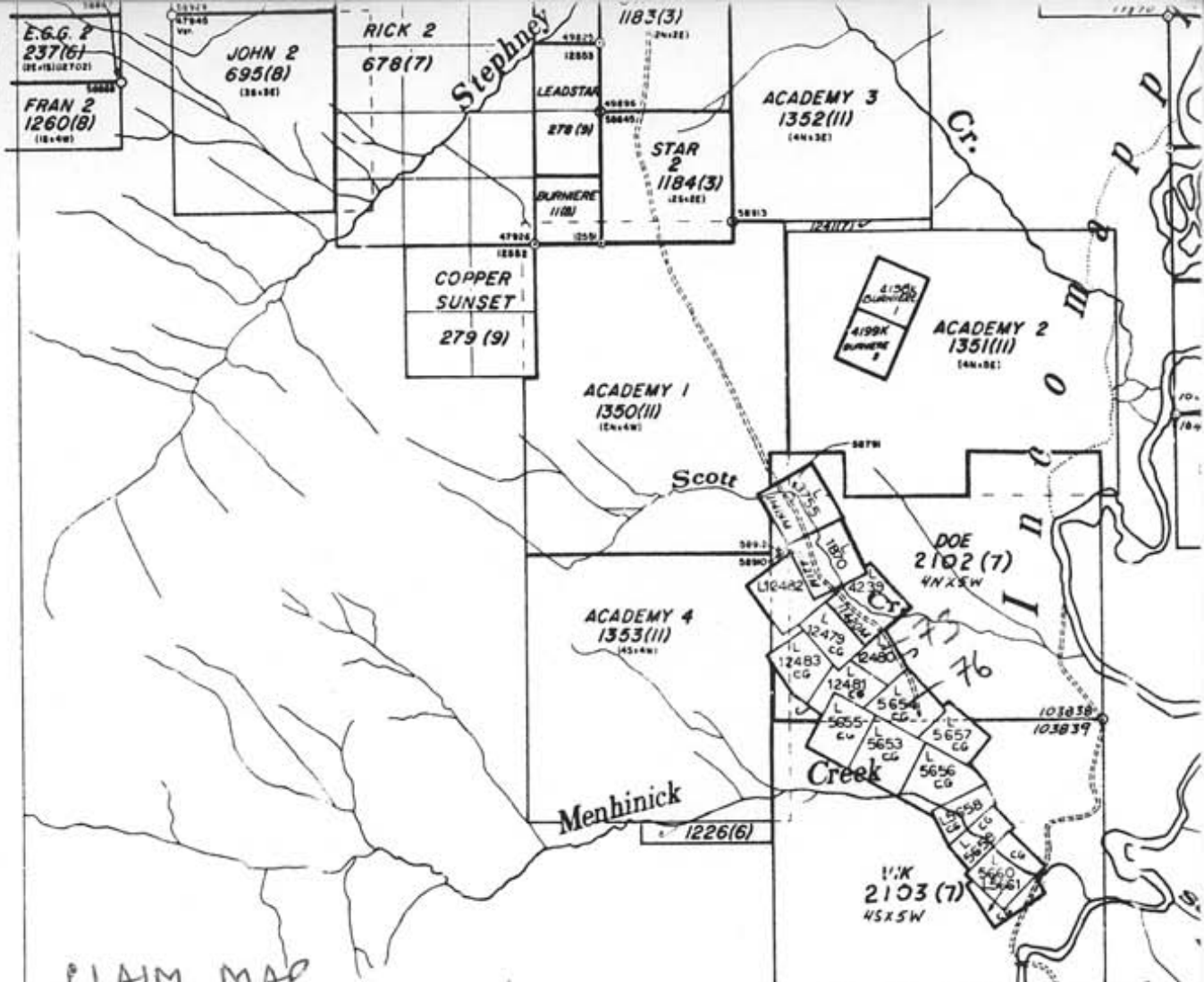


121° 120° 119°

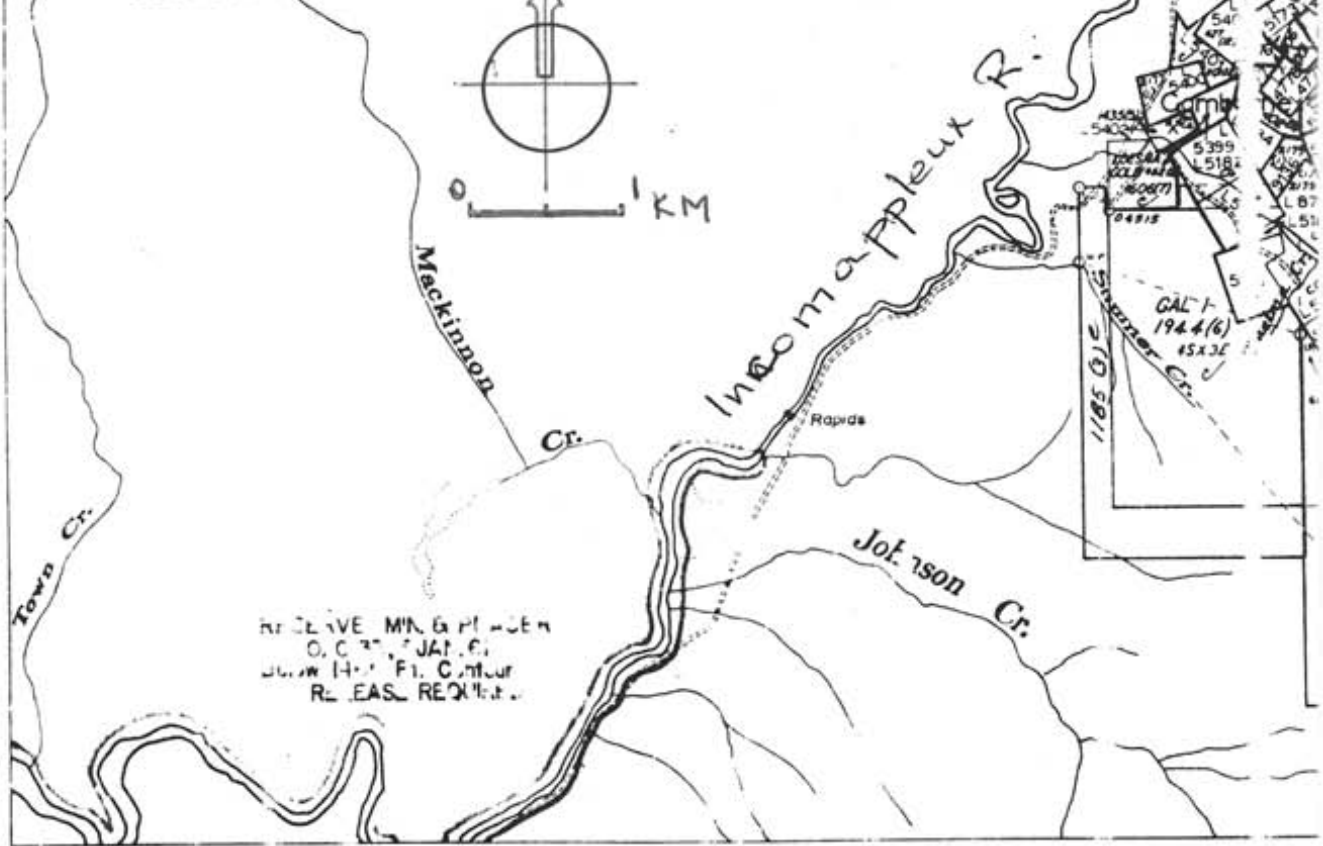
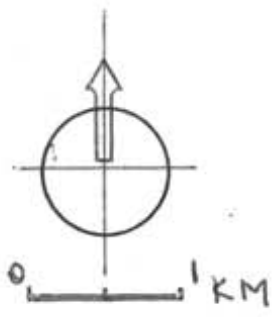
118°

VICTORIA PORT ANGELES PORT TOWNSEND SEQUIM NORDLAND Seattle VERETT

TO WEST



CLAIM MAP  
82K13E



50°45'

117°45'

REVELS OKE MINING DIVISION

TO SOUTH SEE

3

2

1

# GRANGES EXPLORATION LTD. DIAMOND DRILL LOG

15401

P-1 OF 3

Property WINDFLOWER Project No. 224 Depth 102.41 Date Began JULY 31/80  
 Hole No. W10-8 Co ord. 196.5 N Horizontal Length \_\_\_\_\_ Date Completed AUG. 6/80  
 Claim No. L. 124.81 \_\_\_\_\_ 4.1 E Core Size N.R. Drilled By DIAMOND M. DEILING  
 Grid No. \_\_\_\_\_ Angle & Direction -45° W Elevation 1982.8 Logged By P. J. DeJong

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0-2.74	CASING 0-2.13 Gravel & Broken Rock, 2.13-2.74 Bedrock								
2.74-19.81	GREY PHYLITE - Dolomite with ARGILLITE sections Scattered quartz stringers with trace Pyrite Narrow fine grained Micastone beds. Brown carbonate stringers.	2.89	3.35	0.46	47526	0.44	.2		
		3.35	4.63	1.28	47527				
		4.63	5.67	1.04	47527	0.25	.5		
		5.67	6.31	0.64	47528				
	6.70-15.4 CALcareous ARGILLITE	6.31	6.41	0.30	47528	0.18	.2		
	8.84-8.90 quartz vein in Siliceous Dolomite	6.61	7.68	1.07	47529	0.13	.5		
	9.14-9.23 " " " "	7.68	8.84	1.16	waste				
	10.27-10.67 scattered qtz stringers.	8.84	9.29	0.45	47530	0.19	.5		
	11.37-12.65 scattered qtz - carbonate stringers & bands with trace Pyrite.	9.29	10.15	0.86	waste				
		10.15	10.60	0.45	47531	0.12	.4		
	13.10-13.77 scattered qtz inclusions with trace Pyrite	10.60	11.43	0.83	w				
		11.43	12.43	1.00	47532	0.11	.6		
		12.43	12.65	0.22	33	0.06	.3		
19.81-22.49	ARGILLITE Calcareous, with qtz stringers containing trace Pyrite, Light sphalerite and galena Narrow sections of micastone	12.65	13.10	0.45	w				
		13.10	13.77	0.67	47534	0.41	1.2		
		13.77	15.54	1.77	w				
		15.54	15.85	0.31	47535	0.13	.6		
	21.27-21.49 qtz stringers with visible sphalerite, galena & Pyrite.	15.85	16.55	0.70	w				
		16.55	16.82	0.27	47536	0.13	1.0		
		16.82	19.35	2.53	w				
22.49-27.73	WEAKLY MINERALIZED ARGILLITE with GRAPHITE on SUBMERSED PLACES. Scattered qtz - carbonate stringers with trace Pyrite and light colored sphalerite plus galena. Narrow micastone sections.	19.35	19.57	0.22	47537	0.14	.2		
		19.57	21.03	1.46	w				
		21.03	21.27	0.24	47538	0.35	.9		
		21.27	21.49	0.22	32	0.19	1.6		
		21.49	22.49	1.00	w				
		22.49	22.95	0.46	47540	0.27	1.8		
		22.95	23.41	0.46	41	0.35	1.1		
27.73-30.93	GRAPHITIC ARGILLITE Scattered qtz - carbonate stringers. and narrow micastone beds TRACE PYRITE	23.41	23.62	0.21	42	0.26	1.9		
		23.62	24.08	0.46	43	0.20	3.1		
		24.08	24.53	0.45	44	0.31	16.5		
		24.53	24.99	0.46	45	0.27	7.5		
		24.99	25.45	0.46	46	0.13	6.8		
		25.45	26.82	1.37	47	0.23	14.4		
30.93-47.70	LIGHT GREEN SILICEOUS DOLOMITE - MARBLE with light green mica (FUCHSITE - MARIPOSITE).	26.82	27.43	0.61	48	0.15	.8		
		27.43	27.89	0.46	49	0.10	2.0		
		27.89	28.49	0.60	47550	6.36	1.7		
	Scattered qtz stringers & inclusions. TRACE PYRITE	28.49	29.65	1.16	w				
		29.65	29.90	0.31	47551	0.17	.7		

# GRANGES EXPLORATION LTD. DIAMOND DRILL LOG

P-2013

Property WINDFLOATER Project No. 224 Depth ..... Date Begun .....  
 Hole No. W14-8 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	g Au.	Ag.	Cu.	Zn.
30.93 - 47.70	(CONTINUED)	29.96	37.18	7.22	waste				
	41.63 - 42.24 gtz Veining, Trace Pyrite,	37.18	37.82	0.64	47552	0.18	.5		
	43.03 - 47.70 gtz Veining, Trace Pyrite	37.82	41.66	3.84	waste				
		41.66	42.21	0.55	47553	0.16	.5		
		42.21	42.97	0.76	w				
47.70 - 49.68	STROONGLY GRAPHITIC ARGILLITE	42.97	43.80	0.83	47554	0.13	.6		
	with gtz stringers & Veining	43.80	43.95	0.15	lost core				
	Trace Pyrite	43.95	44.41	0.46	47555	0.21	.9		
		44.41	44.71	0.30	w				
		44.71	45.29	0.58	47556	0.31	.6		
49.68 - 53.5	LIGHT GREEN SILICEOUS DOLOMITE - MARBLE	45.29	45.87	0.58	57	0.18	.7		
	Scattered gtz Veining & inclusions. Trace Pyrite.	45.87	46.98	0.61	w				
		46.98	46.94	0.46	47558	0.57	.6		
		46.94	47.85	0.91	57	0.65	.8		
	52.12 - 53.49 gtz Veining - Trace Pyrite.	47.85	48.00	0.15	w				
		48.00	49.28	1.28	47560	0.44	1.6		
		49.28	50.23	0.95	61	0.25	1.2		
53.5 - 57.85	SILICEOUS DOLOMITE - MARBLE with Fucilita	50.23	51.81	1.58	w				
		51.81	52.73	0.92	47562	0.31	.3		
		52.73	53.49	0.76	47563	0.27	.6		
57.85 - 58.49	CALCAREOUS ARGILLITE (GRAPHITIC) and QUARTZ inclusions	53.49	58.46	4.97	w				
		58.46	58.91	0.45	47500	.15	1.6		
		58.91	59.13	0.22	01	1.12	.2		
58.49 - 61.56	WHITE QUARTZ VEIN	59.13	59.34	0.21	02	.79	3.1		
	Trace Pyrite (cubes) light colored spherulite & globules.	59.34	59.80	0.46	03	.75	1.5		
		59.80	60.07	0.27	04	1.13	2.5		
	59.13 - 59.74 GRAPHITIC ARGILLITE INTERLAYERED	60.07	60.26	0.19	05	2.23	19.0		
		60.26	60.59	0.33	06	1.10	1.8	9/9 Au	19.0
		60.59	61.17	0.58	07	0.97	0.2563	3.33	.8
61.56 - 62.48	DOLOMITE - GRAPHITIC ARGILLITE	61.17	61.63	0.46	08	9.69	0.4457	33.21	12.7
	Scattered gtz inclusions with Trace Pyrite	61.63	61.81	0.18	09	0.18	0.0033	0.63	1.8
	Marked MnO Stove sections.	61.81	61.93	0.12	47510	.135	0.7162	4.62	2.4
		61.93	62.48	0.55	11	0.20	0.011	0.70	.2
		62.48	62.85	0.37	12	0.10	0.0037	0.34	.1
	(ARGILLITE)	62.85	63.09	0.24	13	0.92	0.022	3.14	6.8
62.48 - 68.88	QUARTZ VEIN - FAULT Gouge - QUARTZ GRAPHITE ↑ Zone	63.09	63.39	0.30	14	.461	0.1393	15.80	66.7
		63.39	63.55	0.16	15	0.16	0.0026	.06	16.6
	62.9 - 63.4 MINERALIZED to Near Pure SILICIOUS - PYRITE	63.55	63.88	0.33	16	0.72	0.0230	2.47	11.4
	Trace Galena.	63.88	64.46	0.58	17	3.041	1.5813	104.27	24.4
	GRAPHITIC.								




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-3 OF 3

Property... WINDFLOWER Project No. 224 Depth..... Date Begun.....  
 Hole No. WIN-8 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.	Ag.	Cu.	Zn.
62.48 - 68.88 (Continued)	63.4 - 63.55 WHITE QUARTZ VEIN	64.40	64.92	0.52	47518	0.83	.2		
	63.55 - 63.97 FAULT BRECCIA - GROUND (mainly gtz - Pyrite, Sphid.)	64.92	65.22	0.30	19	0.45	.4		
	63.97 - 64.40 BROKEN QUARTZ VEIN WITH GRAPHITIC CARBONATE, TRACE PYRITE, GALENA	65.22	65.68	0.46	20	0.15	.9		
	64.40 - 65.22 FAULT ZONE - gtz, GRAPHITIC ARGILLITE, TRACE PYRITE	65.68	66.14	0.46	21	0.38	1.4		
	65.22 - 67.88 BROKEN QUARTZ & GRAPHITIC ARGILLITE ZONE WITH TRACE PYRITE, GALENA.	66.14	67.05	0.91	22	0.12	.8		
		67.05	67.66	0.61	47520				
		67.66	67.82	0.16	23	0.87	.9		
		67.82	68.27	0.45	24		2.8		
		68.27	68.88	0.61	47525				
68.88 - 102.41 E.O.H.	GRAPHITIC ARGILLITE SCALING QUARTZ CALCITE STRINGERS TRACE Py, GALENA, light colored SPHALERITE in some gtz stringers.								
	ACID TEST								
	@ 56.7 m = 50° 15' (UNCORRECTED)								
	@ 99.3 m = 49° 30' (UNCORRECTED)								
	2.74 METERS CASING & SHOE LEFT IN HOLE								
	HOLE NOT CEMENTED.								

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

1 OF 1

Property WINDFLOWER Project No. 277 Depth 102.41 Date Began JULY 31 / 86  
 Hole No. W1A-8 Co ord. 196.5 N Horizontal Length ..... Date Completed AUG. 6 / 86  
 Claim No. L12481 4.1 E Core Size NQ Drilled By DIAMONA M DRILLING  
 Grid No. .... Angle & Direction -45° W Elevation ..... Logged By P. J. DeJoux  
DIAMONA M DRILLING

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	% Au <sup>1</sup>	Ag.	Cu.	Zn.
	SLUDGE SAMPLES.								
		4.87	7.92	3.05	47750	.05			
		7.92	10.97	3.05	51	.05			
		10.97	14.02	3.05	52	0.05			
		14.02	17.07	3.05	53	.05			
		17.07	20.11	3.05	54	.05			
		20.11	23.16	3.05	55	.05			
		23.16	26.21	3.0	56	.10			
		26.21	29.26	3.0	57	.05			
		29.26	32.31	3.0	58	.05			
		32.31	35.35	3.0	59	.05			
		35.35	38.40	3.0	47760	.05			
		38.40	41.45	3.0	61	.10			
		41.45	44.50	3.0	62	.35			
		44.50	68.88	24.38	No Sludge				
		68.88	90.22	21.34	63	0.15			
		90.22	96.31	6.09	64	0.10			
		96.31	99.36	3.05	65	0.05			
		99.36	102.41	3.05	47766	0.05			
		E.O.H.							


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

Property WINDFLOWER Project No. 224 Depth 135.02 Date Began AUG. 2/86  
 Hole No. W10-9 Co ord. 196.5 N Horizontal Length \_\_\_\_\_ Date Completed AUG. 4/86  
 Claim No. L 12481 401 E Core Size N.Q. Drilled By DIAMOND M DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -60° W Elevation 1982.8 Logged By P. J. Donahue  
GRID BOUNDARY

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 2.13	CASING								
2.13 - 14.17	ARGILLACEOUS CALCAREOUS PHYLITES & ARGILLITES								
14.17 - 30.78	GRAPHITIC ARGILLITE WITH Limestone sections. scattered quartz stringers minor Pyrite								
30.78 - 34.29	LIGHT GREEN (FUCHSITIC) LIMESTONE - DOLOMITIC								
34.29 - 36.27	GRAPHITIC ARGILLITE								
36.27 - 51.20	LIMESTONE - DOLOMITIC - MARBLE Green mica (FUCHSITIC) scattered qtz stringers - minor Pyrite								
51.20 - 61.26	GRAPHITIC ARGILLITE								
61.26 - 79.4	LIMESTONE - DOLOMITIC - MARBLE scattered qtz stringers								
79.4 - 92.81	STRONGLY GRAPHITIC ARGILLITE - SHEARED & FAULTED. scattered qtz - carbonate stringers with trace Pyrite.								
92.81 - 96.92	LIGHT GREEN (FUCHSITIC) LIMESTONE - DOLOMITIC - MARBLE Silicified with qtz stringers & some chert 94.030 - 94.49 White Quartz vein.								
96.92 - 98.75	STRONGLY GRAPHITIC ARGILLITE								
98.75 - 100.27	CAVE - QUARTZ & PYRITE includes 0.91M Lost Core.								
100.27 - 135.02	GRAPHITIC ARGILLITE - carbonate. scattered qtz - carbonate stringers & chert.								
T.E.O.H.									

ACID TEST @ 84.12 = 58

CASING & SHIRT LEFT IN HOLE

NOT CEASEMENTED.


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

1 OF 1

Property WINDFLOWER Project No. 224 Depth 135.02 Date Began Aug. 2/86  
 Hole No. WIN-9 Co ord. 196.5 N Horizontal Length \_\_\_\_\_ Date Completed Aug. 4/86  
 Claim No. L 12481 \_\_\_\_\_ 4.1 E Core Size N.Q. Drilled By Dimitrova M. Drilica  
 Grid No. N114 Angle & Direction -60° W Elevation \_\_\_\_\_ Logged By P. J. DeJo  
SK10

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	T. Att.	Ag.	Cu.	Zn.
	SLUDGE SAMPLES								
		5.18	8.23	3.05	42800	.05			
		8.23	11.27	3.05	01	.05			
		11.27	14.32	3.05	02	.05			
		14.32	17.37	3.05	03	.05			
		17.37	32.31	14.94	04	.05			
		32.31	90.22	57.91	N.S.				
		90.22	93.27	3.05	42805	.10			
		93.27	96.31	3.05	06	.15			
		96.31	114.00	18.29	42807	.05			
		114.00	135.02	20.42	N.S.				
		<u>F.O.H.</u>							


**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

Plot 2

 Property WINDFLOWER Project No. 224 Depth 53.95 Date Began AUG. 6/86  
 Hole No. W10-10 Co ord. 2064 Horizontal Length ..... Date Completed AUG. 7/86  
 Claim No. L 12481 ..... 395W Core Size NQ Drilled By DIAMOND M. DRILLING  
 Grid No. .... Angle & Direction -80° 180° E Elevation 1990.1 Logged By R. J. DoJoux  
 GRID 853010

INTERVAL =FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 4.57	CASING, GRAVEL, Boulders 0-335, 335-457 Bottom								
4.57 - 20.11	GREY ARGILLACEOUS PHYLLITE								
	Scattered glz stringers & veinings								
	12.19 - 12.67 glz veinings								
	13.93 - 14.38 thin " & stringers								
	17.37 - 18.59 glz - carbonate veinings with large pyrite blebs								
	@ 18.74 1.27cm stringer of silicified pyrite								
20.11 - 22.86	FAULT ZONE - Bandy Brown Rock. Fine glz								
	20.1 - 21.33 - 1.6cm lost core								
22.86 - 28.04	ARGILLITE								
	Scattered glz veinings - some parallel to core								
	Scattered pyrite blebs & cubes								
	1.27cm diametric sections								
28.04 - 32.21	GRAPHITIC ARGILLITE								
	Scattered glz - carbonate veinings with trace pyrite								
	28.34 - 29.10 GRAPHITIC ARGILLITE with glz - carbonate veinings								
	28.65 - 29.11 5 - 10% Pyrite								
	29.11 - 32.21 Strongly GRAPHITIC ARGILLITE - Brecciated with large glz - carbonate fragments. Scattered Pyrite blebs								
32.21 - 37.03	MAIN QUARTZ - PYRITE ZONE								
	32.21 - 32.61 Heavy silicified - Solid Sulphide - PYRITE includes 0.30m lost core								


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P- 2 of 2.

Property WINDFLOWER Project No. 227 Depth ..... Date Began .....

Hole No. W10-10 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.	Ag.	Cu.	Zn.
32.21 - 37.03 (Continued)	33.67 - 33.72 <u>Heavily silicified - Silica Sulphide - Fault Zone</u>								
	33.72 - 33.68 <u>Carbonate - Rich Quartz vein with 10-15% Pyrite</u>								
	33.68 - 33.83 <u>Solid Sulphide - Pyrite</u>								
	33.83 - 34.13 <u>Carbonate</u>								
	34.13 - 34.59 <u>5% Pyrite in Qtz</u>								
	34.59 - 37.03 <u>Bull white - Grey Qtz vein - Tr. Pyrite</u>								
37.03 - 38.71	<u>Graphitic Argillite with Qtz stringers</u>								
38.71 - 53.95	<u>Light Green - Grey (Foliated) Dolomite Marble</u>								
	<u>Scattered Qtz stringers, veins &amp; inclusions</u>								
<u>E.O.H.</u>	43.13 - 43.58 <u>Qtz Veining</u>								
	49.53 - 50.90 <u>Scattered Qtz Veining</u>								
	50.59 - 50.84 <u>0.63 cm stringer of Qtz with visible Galena &amp; light colored sphalerite</u>								
	50.84 - 52.73 <u>Scattered Qtz Veining</u>								
	<u>ACID TEST @ 53.95 m = 75°45'</u>								
	<u>HOLE CEMENTED TOP TO BOTTOM - 4 BAGS.</u>								
	<u>CASING &amp; HOLE PULLING</u>								

# GRANGES EXPLORATION LTD. DIAMOND DRILL RECORD

CORE SAMPLES 1 OF

Property WINDFLOWER Project No. 224 Depth 53.95 Date Began AUG. 6/86  
 Hole No. WH-10 Co ord. 206 N Horizontal Length ..... Date Completed AUG. 7/86  
 Claim No. L. 12481 39.5 W Core Size N.Q. Drilled By DIAMOND M. DRILLING  
 Grid No. .... Angle & Direction -80° N 80° E Elevation ..... Logged By P. J. DePauw  
GRID BIRKING

INTERVAL FEET/METRES	NUMBER	WIDTH	g/t Au.	ppm Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES					
												WIDTH	Au.	Ag.	Cu.	Zn.	
0 - 4.57	CASING	4.57															
4.57 - 17.37	WASTE	12.80															
17.37 - 17.98	47564	0.61	.12	0.5													
17.98 - 18.59	47565	0.61	.16	0.7													
18.59 - 19.20	WASTE	0.61															
19.20 - 20.42	47566	1.22	.04	0.2													
20.42 - 21.33	WASTE	0.91															
21.33 - 22.16	47567	0.83	.18	0.5													
22.16 - 24.84	WASTE	2.68															
24.84 - 26.06	47568	1.22	.89	1.0													
26.06 - 27.12	WASTE	1.06															
27.12 - 27.43	47569	0.31	.23	1.4													
27.43 - 27.73	WASTE	0.30															
27.73 - 28.65	47570	0.92	.60	3.8													
28.65 - 29.15	71	0.50	1.36	4.2													
29.15 - 29.87	72	0.72	3.11	2.5													
29.87 - 30.78	73	0.91	.40	2.6													
30.78 - 31.39	74	0.61	2.08	5.8													
31.39 - 32.00	75	0.61	1.38	5.5													
32.00 - 32.52	76	0.52	1.33	30.8													
32.52 - 33.01	77	0.49	5.08	11.8													
33.01 - 33.49	78	0.48	4.73	24.2													
33.49 - 33.83	79	0.34	15.7	30.0													
33.83 - 33.98	47580	0.15	.18	0.8													
33.98 - 34.47	81	0.49	1.23	11.4													
34.47 - 34.96	82	0.49	.20	1.0													
34.96 - 35.14	83	0.18	.15	0.1													
35.14 - 35.38	84	0.24	.72	0.2													
35.38 - 35.87	85	0.49	1.49	2.6													
35.87 - 36.36	86	0.49	.32	2.4													
36.36 - 36.57	87	0.21	.19	1.3													
36.57 - 37.09	88	0.52	.29	0.8													
37.09 - 37.55	89	0.46	.12	1.8													
37.55 - 38.40	47590	0.85	.10	1.0													
38.40 - 39.16	91	0.76	.48	1.7													
39.16 - 42.36	WASTE	3.20															
42.36 - 43.19	47592	0.83	.81	1.6													
43.19 - 43.64	93	0.45	.95	1.5													
43.64 - 49.47	WASTE	5.83															
49.47 - 50.29	47594	0.82	2.45	1.4													

Use Black Pen Only

63.25' 19.7526 ÷ 3.05



**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL RECORD**

CORE SAMPLES 2 OF 2

Property WIND FLOWER Project No. \_\_\_\_\_ Depth \_\_\_\_\_ Date Began \_\_\_\_\_  
 Hole No. WIN-10 Co ord. \_\_\_\_\_ Horizontal Length \_\_\_\_\_ Date Completed \_\_\_\_\_  
 Claim No. \_\_\_\_\_ Core Size \_\_\_\_\_ Drilled By \_\_\_\_\_  
 Grid No. \_\_\_\_\_ Angle & Direction \_\_\_\_\_ Elevation \_\_\_\_\_ Logged By \_\_\_\_\_

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.			
50.29 - 50.36	47595	0.07	.79	27.3															
50.36 - 50.78	96	0.42	.06	1.0															
50.78 - 51.51	waste	0.73	'																
51.51 - 52.09	47597	0.58	1.12	5.1															
2.09 - 52.79	waste	0.70	3.76						9/7										
52.79 - 53.22	47598	0.43	4.07	1.9		0.43M			4.04										
53.22 - 53.95	waste	0.73				1.411			0.129										
E.O.H.																			
ACID TEST @ 53.95m = 75°45'																			
HOLE CEMENTED - 4 RINGS TOP TO BOTTOM																			
CASING 3 INCH PULLED																			




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

SLUDGE SAMPLES

Property (WINDFLUWER) Project No. 224 Depth 53.95 Date Began AUG 6/86  
 Hole No. WIN-10 Co ord. 206N Horizontal Length Date Completed AUG 7/86  
 Claim No. L 12481 39.5W Core Size N.Q Drilled By Diamond M Drilling  
 Grid No. Angle & Direction -80° N 80° E Elevation 620 Logged By P.J. D.J.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
P-1 OF 1									
		4.87	7.92	3.05	42767	.05			
		7.92	10.97	3.05	68	.05			
		10.97	14.02	3.05	69	.05			
		14.02	17.06	3.05	70	.05			
		17.06	20.11	3.05	71	.05			
		20.11	23.16	3.05	72	.05			
		23.16	26.21	3.05	73	.05			
		26.21	29.26	3.05	74	.45			
		29.26	32.31	3.05	75	.55			
		32.31	35.35	3.04	76	6.40			
		35.35	38.40	3.05	77	1.50			
		38.40	41.45	3.05	78	.25			
		41.45	44.50	3.05	79	.35			
		44.50	47.55	3.05	80	1.90			
		47.55	50.59	3.05	81	.85			
		50.59	53.64	3.05	82	1.95			
		53.64							
		F.O.I.							


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P 1053

 Property WINDFLOWER Project No. 229 Depth 70.41 Date Began Aug 2/86  
 Hole No. WIN-11 Co ord. 180 N Horizontal Length \_\_\_\_\_ Date Completed Aug 9/86  
 Claim No. L. 12481 46.8 W Core Size N.Q. Drilled By DIAMOND M. DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -45° E Elevation 1987.80 Logged By P. J. D. Jones  
 (SRD) Drilling

INTERVAL -FEET/METRES	DESCRIPTION	SAMPLE RECORD																			
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.												
0 - 10.67	CASING 0-9.14 Boulders, Basalt Bedrock 9.14-10.30 Basalt Bedrock 10.30-10.67 Bedrock																				
10.67 - 21.03	ARGILLACEOUS PHYLLITES 15.05 - 15.54 QUARTZ VEINING TRACED PYRITE 16.40 - 16.58 gtz vein " " 20.27 - 21.03 gtz veining " "																				
21.03 - 24.03	GREY DOLOMITE - LIMY PHYLLITE 23.62 - 24.08 Very light brown carbonate alteration																				
24.03 - 27.12	GRAPHITIC ARGILLITE CALCAREOUS, scattered gtz inclusions.																				
27.12 - 35.63	MINERALIZED QUARTZ VEIN very steep contact with hanging wall. dip = 45° - 50°																				
27.12 - 27.89	near solid - sand Sulphide - Pyrite (both fine grain earthy type & coarse cubes. 2-5% SPHALERITE (light color) & GALENA.																				
27.89 - 28.22	gtz vein & near solid Sulphide - Pyrite with sphalerite and Galena as above.																				
28.22 - 29.41	near solid Sulphide - PY (50%) Fine & coarse in QUARTZ																				
29.41 - 30.78	5% Pyrite, 1-2% Galena 1/2% Sphalerite																				
30.78 - 32.00	FAULT ZONE, Broken gtz & graphite																				
32.00 - 32.49	strongly sheared argillite?																				
32.49 - 32.61	MINERALIZED DOLOMITE 5-10% PYRITE																				


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P. 2 of 3

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....

Hole No. WIN-11 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.	Ag.	Cu.	Zn.											
27.12 - 35.63 (Continued)	32.61-33.22 FAULT Gouge 33.22 - 33.80 mineralized Dolomite-marble 5-10% Pyrite with cross cutting qtz veins.																			
	33.80 - 34.44 qtz & calc visible Pyrite																			
	34.44 - 35.05 lost core																			
	35.05 - 35.63 qtz & Graphitic Argillite, Trace Pyrite.																			
35.63 - 38.1	CALCAREOUS GRAPHITIC ARGILLITE scattered qtz stringers & veins. Trace Pyrite. @ 37.79 m 1.27 cm stringer of qtz-carbonate with 40% sphalerite & dolomite @ 45° to core.																			
38.1 - 41.75	Limy ARGILLITE - Siliceous GRAPHITIC. scattered qtz stringers. Trace Pyrite.																			
41.75 - 46.63	LIGHT GREEN FUCHSITIC DOLOMITIC - MARBLE with narrow Graphitic ARGILLITE siliceous inter layers. scattered qtz stringers with trace Pyrite.																			
	44.07 - 44.19 GRAPHITIC ARGILLITE with large Pyrite cubes.																			
46.63 - 47.74	lost core																			
47.74 - 50.9	GRAPHITIC ARGILLITE with DOLOMITIC - MARBLE beds inter layered. 48.16 - 49.31 Strongly sheared siliceous Dolomite with 5% Pyrite & qtz 49.31 - 49.68 qtz vein 50.44 - 50.90 FAULT zone crushed qtz & ARGILLITE																			


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-3 OF 3

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....

Hole No. WIN-11 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.	Ag.	Cu.	Zn.						
50.9 - 67.66	ARGILLACEOUS PHYLLITES with GRAPHITE sections siliceous dolomite beds. scattered glz stringers & veinlets Disseminated Pyrite														
53.64 - 66.63	CONSIDERABLE glz - carbonate veinlets - Trace Py.														
(53.64 - 53.95)	1-2% Galena, Trace Pyrite, Sphalerite														
(54.25 - 54.86)	Strongly sheared (granitic) Bathy Breccia														
65.89 - 67.48	CONSIDERABLE glz veinlets. Trace Py.														
67.66 - 70.41	SHEARED SILICEOUS DOLOMITE - MINOR BLEB														
	scattered glz stringers - Trace Pyrite														
E.D.H.															
	ACID TEST @ 70.41 = 43° 30'														
	HOLE CEASED TO TOP														
	CASING AND SLIME PULLED														

# GRANGES EXPLORATION LTD. DIAMOND DRILL RECORD

CORIE SAMPLES 1 OF 2

Property WINDFLOWER Project No. 224 Depth 70.41 Date Began Aug 8/86  
 Hole No. wid-11 Co ord. 180N Horizontal Length ..... Date Completed Aug 9/86  
 Claim No. L 12481 46.8 W Core Size N.P. Drilled By DIAMOND M. DRILLING  
 Grid No. .... Angle & Direction -45°E Elevation ..... Logged By P. J. Duff  
CORIE DRILLING

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY						AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.				
0 - 10.67	C13116	10.67	0	10.36																
10.67 - 14.63	waste	3.96																		
14.63 - 15.54	47599	0.91	.19	0.6																
15.54 - 16.46	waste	0.92																		
16.46 - 16.64	47600	0.18	.18	0.2																
16.64 - 20.30	waste	3.66																		
20.30 - 21.03	47601	0.73	.19	0.8																
21.03 - 26.67	waste	5.64																		
26.67 - 27.12	47602	0.45	5.17	16.9																
27.12 - 27.58	03	0.46	31.2	30.0'																
27.58 - 27.92	07	0.34	5.53	30.0'																
27.92 - 28.34	05	0.42	.55	1.5																
28.34 - 28.95	06	0.61	.70	2.3																
28.95 - 29.41	07	0.46	2.94	12.9																
29.41 - 29.90	08	0.49	1.62	3.5																
29.90 - 30.48	09	0.58	1.45	3.4																
30.48 - 31.39	47610	0.91	.67	1.8																
31.39 - 32.00	11	0.61	4.63	5.1																
32.00 - 32.37	12	0.37	3.24	5.1																
32.37 - 32.76	13	0.39	1.46	1.9																
32.76 - 33.22	14	0.46	.73	2.4																
33.22 - 33.59	15	0.37	.50	5.6																
33.59 - 33.80	16	0.21	.73	1.6																
33.80 - 34.44	17	0.64	.65	4.9																
34.44 - 35.05	lost core	0.61																		
35.05 - 35.63	47618	0.58	0.26	1.7																
35.63 - 36.57	19	0.94	5.46	2.7																
36.57 - 37.34	20	0.77	0.73	2.0																
37.34 - 37.49	21	0.15	0.23	4.6																
37.49 - 37.70	22	0.21	0.21	3.5																
37.70 - 37.85	23	0.15	0.64	30.0'																
37.85 - 38.37	24	0.52	0.31	2.9																
38.37 - 38.71	waste	0.34																		
38.71 - 39.26	47625	0.55	0.19	3.18																
39.26 - 40.23	waste	0.97																		
40.23 - 40.69	47626	0.46	0.40	2.8																
40.69 - 42.55	waste	1.86																		
42.55 - 42.91	47627	0.36	0.21	0.7																
42.91 - 44.07	waste	1.16																		
44.07 - 44.19	47628	0.12	0.10	0.5																


**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL RECORD**

P-2 OF 2

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....

Hole No. W.V-11 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY						AVERAGES						
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.			
44.19 - 48.10	waste	3.97																	
48.10 - 49.31	47629	1.15	0.33	1.2															
49.31 - 49.68	30	0.37	0.19	0.9															
49.68 - 50.44	31	0.70	0.34	1.9															
50.44 - 50.90	32	0.40	0.30	1.7															
50.90 - 52.42	33	1.52	0.16	1.5															
52.42 - 52.88	waste	0.40																	
52.88 - 53.34	47634	0.40	0.26	1.6															
53.34 - 53.64	waste	0.30																	
53.64 - 54.25	47635	0.61	0.29	4.8															
54.25 - 54.80	30	0.61	0.75	2.1															
54.80 - 55.62	37	0.70	0.61	1.8		0.63	0.01												
55.62 - 56.60	38	0.98	0.28	1.5															
56.60 - 58.52	39	1.92	0.16	0.9															
58.52 - 58.98	40	0.40	0.09	0.6															
58.98 - 60.10	waste	1.12																	
60.10 - 61.63	47641	1.53	0.05	0.9															
61.63 - 65.89	waste	4.26																	
65.89 - 67.05	47642	1.10	0.57	1.2															
67.05 - 68.58	47643	1.53	0.17	0.7															
68.58 - 70.41	waste	1.83																	
F.O.H.																			
ACID TEST @ 70.41 = 48° 30'																			
HOLE CEMENTED TO 1.811m																			
CASING PULLED																			

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

SLUDGE SAMPLES

Property WINDFLOWER Project No. 224 Depth 70.71 Date Began AUG 8/86  
 Hole No. WIN-11 Co ord. 180 N Horizontal Length \_\_\_\_\_ Date Completed AUG 9/86  
 Claim No. 1-12481 468 W Core Size N.Q. Drilled By DIAMOND M DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -45° E Elevation \_\_\_\_\_ Logged By R J DODG

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
	P-1 of 1								
		10.67	13.71	3.0	42808	.05			
		13.71	16.76	3.05	09	.05			
		16.76	19.81	3.05	10	.15			
		19.81	22.86	3.05	11	.05			
		22.86	25.91	3.05	12	.05			
		25.91	28.95	3.05	13	3.15			
		28.95	32.00	3.05	14	2.60			
		32.00	35.05	3.05	15	2.35			
		35.05	38.10	3.05	16	1.25			
		38.10	41.15	3.05	17	.80			
		41.15	44.19	3.05	18	.90			
		44.19	47.24	3.05	19	.50			
		47.24	50.29	3.05	42820	.60			
		50.29	53.34	3.05	21	.55			
		53.34	56.39	3.05	22	1.55			
		56.39	59.43	3.05	23	.85			
		59.43	62.48	3.05	24	1.35			
		62.48	65.53	3.05	25	1.00			
		65.53	68.58	3.05	26	1.95			
		68.58	70.71	1.63	42827	.65			
		F.O.H.							


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P. 1 of 2

Property WINDFLOWER Project No. 224 Depth 81:38 Date Began AUG. 21/86  
 Hole No. WIN-12 Co ord. 180N Horizontal Length \_\_\_\_\_ Date Completed AUG. 10/86  
 Claim No. L12481 46.8 W Core Size N.Q. Drilled By DIAMOND M DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -80°E Elevation 1987.80 Logged By P. J. DeJoux

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 5.48	CASING 0-5.18 BOULDERS, Broken Bedrock 5.18-5.48 Bedrock								
5.48 - 20.57	SILICIFIED LIMY ARGILLACEOUS PHYLLITE with Dolomitic and Graphitic ARGILLITE Beds scattered qtz stringers trace Pyrite. 14.29-14.54 qtz-Rich zone								
20.57 - 22.25	BRECCIATED GRAPHITIC ARGILLITE								
22.25 - 22.55	WHITE QUARTZ VEIN WITH CALCULATE								
22.55 - 23.10	LIGHT GREEN FUCHSITE DOLOMITE - MARBLE								
23.10 - 25.3	BRECCIATED & SILICIFIED GRAPHITIC ARGILLITE qtz inclusions & calcite								
25.3 - 26.39	DOLOMITE - MARBLE								
26.39 - 35.51	BRECCIATED CALCAREOUS & SILICIFIED GRAPHITIC ARGILLITE scattered qtz inclusions								
35.51 - 36.63	BRECCIATED SILICEOUS GRAPHITIC ARGILLITE WITH QUARTZ VEINING								
36.63 - 37.67	WHITE QUARTZ VEIN calcareous with Siderite in Nearing Purite FURTHER CONTACT WITH SWAMP TRACE PYRITE, CHALCOPYRITE OCCASIONAL Large Pyrite Cube. odd clasts of CHALCOPYRITE in Pockets. TRACE ARSENOPYRITE?								
37.67 - 37.73	FAULT Gouge.								




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

Q 2052

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....  
 Hole No. WIN-12 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.	Ag.	Cu.	Zn.
36.63 - 39.16 (continued)	37.73 - 38.01 Near Solid - Solid Sulphide - Pyrite 38.71 - 39.16 Disseminated Pyrite, Chalcopyrite, Galena,								
39.16 - 39.47	GRAPHITIC MARGILLITE. CALCITE, TRACE Pyrite.								
39.47 - 43.64	DOLOMITE - MARBLE IRREGULAR SPECTRUM EUCALCITE. SCATTERED Pyrite Cubes.								
43.64 - 58.52	SILICEOUS & CALCAREOUS GRAPHITIC MARGILLITE Narrow Dolomite Sections Inter-layered Sections with Pyrite Cubes.								
58.52 - 80.16	DOLomite MARBLE 57.11 - 77.72 Juggy section with 10% Pyrite. 78.48 - 79.55 gtz vein @ 20° to Core.								
80.16 - 80.46	WHITE QUARTZ VEIN								
80.46 - 81.38	GRAPHITIC MARGILLITE.								
F.O.H.	ACID TEST @ 67.3 m = 78° HOLE CENTERED TOP TO BOTTOM CASING & SHOT PULLED								

# GRANGES EXPLORATION LTD. DIAMOND DRILL RECORD

1 of 1

Property WINDFLOWER Project No. 224 Depth 81.38 Date Began AUG 9/86  
 Hole No. WV-12 Co ord. 180 N Horizontal Length \_\_\_\_\_ Date Completed Aug 10/86  
 Claim No. L12481 46.8 W Core Size N.O. Drilled By DIAMOND M. DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -80° E Elevation \_\_\_\_\_ Logged By P. J. D. Jones

INTERVAL FEET/METRES	NUMBER	WIDTH	g/T Au.	PPM Ag.	Cu.	Zn.	WIDTH X ASSAY						AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.				
0 - 5.48	CAS146	5.48	0	5.17																
5.48 - 22.25	waste	16.77																		
22.25 - 22.55	47644	0.30	0.02	0.4																
22.55 - 35.51	waste	12.96																		
35.51 - 35.99	47645	0.48	0.19	1.0																
35.99 - 36.36	46	0.37	0.17	1.2																
36.36 - 36.66	47	0.30	6.45	5.7																
36.66 - 37.18	48	0.52	3.71	1.1																
37.18 - 37.73	47649	0.55	3.75	2.7																
37.73 - 38.04	50	0.31	7.02	30.0 <sup>r</sup>		3.114														
38.04 - 38.31	51	0.27	0.19	7.7		10.21														
38.31 - 38.80	52	0.49	29.70	12.6																
38.80 - 39.16	53	0.36	86.4	28.6																
39.16 - 39.47	54	0.31	2.50	3.2																
39.47 - 41.75	waste	2.28																		
41.75 - 42.46	47655	0.71	0.21	0.7																
42.46 - 77.11	waste	34.65																		
77.11 - 78.03	47656	0.92	0.07	1.0																
78.03 - 78.85	waste	0.82																		
78.85 - 79.55	47657	0.70	0.14	0.7																
79.55 - 80.10	waste	0.55																		
80.10 - 80.46	47658	0.36	0.22	0.5																
80.46 - 81.38	waste	0.92																		
E.O.H.																				

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-1 OF 1

Property ... WINDFLOWER ..... Project No. 227 ..... Depth 81.38 ..... Date Began AUG. 9/86 .....  
 Hole No. WIN-12 ..... Co ord. 180 N ..... Horizontal Length ..... Date Completed 11 10/86 .....  
 Claim No. L 12481 ..... 46.8 W ..... Core Size N.2 ..... Drilled By Diamond M. Drilling .....  
 Grid No. .... Angle & Direction -80° E ..... Elevation ..... Logged By P.J. Drilling .....

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
	SLUDGE SAMPLES.								
		5.48	11.27	5.79	42783				
		11.27	14.32	3.05	42784				
		14.32	17.37	3.05	85				
		17.37	20.42	3.05	86				
		20.42	26.51	6.09	87				
		26.51	29.56	3.05	88				
		29.56	32.61	3.05	89				
		32.66	35.66	3.0	90				
		35.66	38.71	3.05	91				
		38.71	41.75	3.05	92				
		41.75	44.80	3.05	93				
		44.80	47.85	3.05	94				
		47.85	53.95	6.10	42795				
		53.95	81.38	27.43	No Sludge				


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

1 of 1

Property WINDFLOWER Project No. 224 Depth 93.57 Date Began Aug. 11/86  
 Hole No. WIN-13 Co ord. 180 N Horizontal Length \_\_\_\_\_ Date Completed Aug. 12/86  
 Claim No. L 12481 \_\_\_\_\_ 46.8W Core Size N.A. Drilled By Diamond M Drilling  
 Grid No. \_\_\_\_\_ Angle & Direction -80° W Elevation 1987.80 Logged By P J D. G.  
Group Boring

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 8.84	CASING								
8.84 - 23.47	Limy ARGILLACEOUS PHYLLITE SILICIFIED with narrow dolomitic beds. trace Pyrite. andely scattered glz stringers								
23.47 - 55.47	GRAPHITIC ARGILLITE CALCAREOUS & SILICIFIED sections Brecciated scattered glz stringers - trace Pyrite.								
55.47 - 63.30	BRECCIATED GRAPHITIC ARGILLITE								
63.30 - 68.88	FAULT ZONE - Brown GRAPHITIC ARGILLITE - FAULT GOUGE sections with glz - trace Pyrite 63.64 - 64.16 Brown glz bit								
68.88 - 93.57	GRAPHITIC ARGILLITE calcareous, scattered glz stringers - trace Pyrite								
<u>F.O.H</u>	70.41 - 70.65 5% fine earthy Pyrite stringers. 83.97 - 85.19 glz stringers & graphitic Argillite with 5% fine earthy Pyrite. 85.65 - 85.95 As Above.								
	ACID TEST @ 62.8 m = 80° @ 93.5 m = 78°								
	HOLE COMPLETE TO BOTTOM - 8 BAGS.								
	CASING & SHOE PULLED.								


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL RECORD**

1 OF 1

Property WINDFLOWER Project No. 224 Depth 93.57 Date Began AUG. 11/86  
 Hole No. WIN-13 Co ord. 180 N Horizontal Length \_\_\_\_\_ Date Completed AUG. 12/86  
 Claim No. L12481 46.8 W Core Size N. Q. Drilled By DIAMOND M DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -80° W Elevation \_\_\_\_\_ Logged By P J DeJo  
GRID BEARING

INTERVAL <del>FEET</del> /METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.			
0 - 8.84	CASING	8.84																	
8.84 - 63.30	waste	54.46																	
63.30 - 63.64	47659	0.34	0.31	1.2															
63.64 - 64.14	60	0.50	0.13	0.1															
64.14 - 65.38	61	1.24	0.26	1.1															
65.38 - 65.68	Lost Core	0.30																	
65.68 - 66.14	47662	0.46	0.23	1.1															
66.14 - 66.44	63	0.30	0.19	1.3															
66.44 - 67.97	64	1.53	0.10	0.9															
67.97 - 68.58	Lost Core	0.61																	
68.58 - 68.88	47665	0.30	0.31	1.1															
68.88 - 70.41	waste	1.53																	
70.41 - 70.65	47666	0.24	0.23	1.7															
70.65 - 83.97	waste	13.32																	
83.97 - 84.58	47667	0.61	0.17	0.8															
84.58 - 85.65	waste	1.07																	
85.65 - 85.95	47668	0.30	0.09	1.0															
85.95 -																			
T.E.O.H.																			

 **GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-1 of 1

Property WINDFLOWER Project No. 224 Depth 93.57 Date Began Aug. 11/86  
Hole No. WV-13 Co ord. 180 H Horizontal Length \_\_\_\_\_ Date Completed Aug. 12/86  
Claim No. L 124 E1 40.8W Core Size N.O. Drilled By D.M.D.  
Grid No. \_\_\_\_\_ Angle & Direction -80°W Elevation \_\_\_\_\_ Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD								
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.	
	SLUDES	11.27	14.32	42E28	3.0					
		14.32	17.37	29	3.0					
		17.37	20.42	42E30	3.0					
		20.42	23.47	31	3.0					
		23.47	26.51	32	3.0					
		26.51	32.61	33	6.1					
		32.61	35.66	34	3.0					
		35.66	38.71	35	3.0					
		38.71	41.75	36	3.0					
		41.75	44.80	37	3.0					
		44.80	47.85	38	3.0					
		47.85	50.90	39	3.0					
		50.90	53.97	42E40	3.0					
		53.97	56.99	41	3.0					
		56.99	60.04	42	3.0					
		60.04	63.09	43	3.0					
		63.09	69.19	44	3.0					
		69.19	72.23	45	3.0					
		72.23	75.28	46	3.0					
		75.28	78.33	47	3.0					
		78.33	84.43	48	6.1					
		84.43	90.52	49	6.1					
		90.52	93.57		3.0					

Use Black Pen Only


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

Property WINDLEBORNE Project No. 224 Depth 60.90 Date Began Aug. 12/86  
 Hole No. W10-14 Coord. 149 N Horizontal Length \_\_\_\_\_ Date Completed Aug. 15/86  
 Claim No. L 12481 45 W Core Size 20 Drilled By Diamond Drill  
 Grid No. \_\_\_\_\_ Angle & Direction 90° E Elevation 1982.80 Logged By R J Dew

P-1 of 2

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0-6.09	CASIO'S 0-5.79 CLAY & Boulders, 5.79-6.1 Bedrock start in Core 6.461								
6.09-8.5	DOLOMITE-MARBLE								
8.5-16.9	GRAPHITIC ARGILLITE to BRECCIATED GRAPHITIC ARGILLITE SILICIFIED & calcareous, scattered glz inclusions & voids.								
16.9-17.67	LIGHT GREEN FOLIATED DOLOMITE-MARBLE carbonate altered to light brown when in parts. 17.68-17.83 glz inclusions with								
17.67-19.05	SILICIFIED GRAPHITIC ARGILLITE & QUARTZ VEINING with narrow Dolomite bedded. TRACE PYRITE.								
19.05-19.96	MAIN QUARTZ VEIN and SOLID SULPHIDE ZONE (Pyrite) 19.05-19.35 glz vein with calcite & graphite. Trace Pyrite. 19.35-19.81 Solid sulphide-pyrite (strongly shored & set) 19.81-19.96 glz & graphite Argillite. trace Pyrite.								
19.96-26.0	GRAPHITIC ARGILLITE & DOLOMITE-MARBLE & QUARTZ VEINING. TRACE PYRITE. East dipping veins.								
26.0-31.7	GRAPHITIC ARGILLITE odd narrow dolomite beds.								
31.7-35.51	GRAPHITIC ARGILLITE & QUARTZ VEINING TRACE PYRITE, CHALCOPYRITE, GALIENA, SPHALERITE 232.61 - visible sphalerite & galena. 233.22 " " " in glz								
35.51-37.61	GRAPHITIC ARGILLITE								



**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P. 2 OF 2

Property WINDFLOWER..... Project No. 024..... Depth..... Date Began.....  
Hole No. W-14..... 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.	Ag.	Cu.	Zn.
37.61 - 42.82	WHITE QUARTZ VEIN WITH ENCLAVE & GRANUL & MARBLE TRACE Pyrite 41.69 - 42.15 soft & porous section.								
42.82 - 50.29	ARGILLACEOUS QUARTZITE								
50.29 - 55.47	FAULT ZONE - gtz & quartz - gtz & granitic Argillite.								
55.47 - 60.90	GRANITIC ARGILLITE								
E.O.H.	ACID TEST @ 52.1 M = 46° 45'  HOLE CEMENTED TOP to BOTTOM - 4 Bags CASING & SHOE PULLED.								




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL RECORD**

Property WINDFLOWER Project No. 224 Depth 60.96 Date Began Aug 12/86  
 Hole No. WIN-14 Co ord. 149 N Horizontal Length \_\_\_\_\_ Date Completed Aug. 15/86  
 Claim No. L12481 45 W Core Size N.Q. Drilled By Diamond M Drilling  
 Grid No. \_\_\_\_\_ Angle & Direction -50°E Elevation \_\_\_\_\_ Logged By P. J. DoJ  
GRIP Beakley

INTERVAL FEET/METRES	NUMBER	WIDTH	g/t Au. Ag	PPM Ag.	Cu.	Zn.	WIDTH X ASSAY						AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.				
0 - 6.09	CASING	6.09																		
6.09 - 17.68	waste	11.59																		
17.68 - 18.29	47669	0.61	0.59	1.3																
18.29 - 18.74	70	0.45	0.86	1.4																
18.74 - 19.02	71	0.28	1.27	2.1																
19.02 - 19.35	72	0.33	0.57	1.5																
19.35 - 19.87	73	0.52	32.1	25.0					1.87m	0.50	g/t									
19.87 - 20.63	74	0.76	1.21	1.6					6.20'	0.280	g/t									
20.63 - 21.03	75	0.40	0.95	1.7																
21.03 - 22.03	76	1.00	0.23	0.9																
22.03 - 25.42	waste	3.39																		
25.42 - 25.97	47677	0.55	0.39	0.8																
25.97 - 31.70	waste	5.73																		
31.70 - 32.85	47678	1.15	1.23	3.5					1.92m	3.13	g/t									
32.85 - 33.62	79	0.77	5.97	4.2					6.30'	0.091	g/t									
33.62 - 34.38	80	0.76	0.68	2.1																
34.38 - 34.68	waste	0.30																		
34.68 - 35.35	47681	0.67	0.51	2.2																
35.35 - 35.84	82	0.49	0.30	2.5																
35.84 - 37.55	waste	1.71																		
37.55 - 38.07	47683	0.49	0.34	1.5																
38.07 - 38.22	84	0.18	0.63	0.6																
38.22 - 38.89	85	0.67	0.49	1.1																
38.89 - 39.56	86	0.67	0.17	0.8																
39.56 - 40.23	87	0.67	0.13	1.0																
40.23 - 40.20	88	0.67	0.43	0.7																
40.20 - 41.51	89	0.61	0.12	0.1																
41.51 - 42.12	47690	0.61	0.11	0.6																
42.12 - 42.91	91	0.75	0.28	1.9																
42.91 - 50.29	waste	7.38																		
50.29 - 50.96	47692	0.67	0.32	1.8																
50.96 - 51.26	93	0.30	0.30	1.6																
51.26 - 52.12	lost Core	0.86																		
52.12 - 60.96	waste	8.84																		
IF.O.H.																				



Property WINDFLOWER Project No. 224 Depth 60.90 Date Began 11/12/14/EG  
 Hole No. WIN-14 Co ord. 149N Horizontal Length \_\_\_\_\_ Date Completed Aug 15/EG  
 Claim No. L12484 \_\_\_\_\_ 45W Core Size N.Q. Drilled By D.M.D.  
 Grid No. \_\_\_\_\_ Angle & Direction \_\_\_\_\_ Elevation \_\_\_\_\_ Logged By Q.J.O.

INTERVAL FEET/METRES	DESCRIPTION <u>SLUGS</u>	SAMPLE RECORD								
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.	
		4.87	14.02	9.15	42796	.05				
		14.02	17.07	3.05	97	.05				
		17.07	20.11	3.0	98	37.60				
		20.11	23.16	3.0	42799	54.90				
		23.16	26.21	3.0	44300	15.40				
		26.21	29.26	3.0	44301	13.75				
		29.26	32.31	3.0	302	15.95				
		32.31	35.35	3.0	303	9.55				
		35.35	38.40	3.0	304	4.10				
		38.40	42.55	4.15	305	4.85				
		42.55	50.59	8.0	306	5.25				
		50.59	53.64	3.0	307	1.15				
		53.64	56.69	3.0	308	1.55				
		56.69	59.74	3.0	309	1.20				
		59.74	60.90	1.22	44310	0.85				
		E.O.H.								


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-1 OF 2

Property... WINDFLOW PASS ..... Project No. ... 224 ..... Depth ... 69.49 ..... Date Began ... AUG. 15/86 .....  
 Hole No. ... W10-15 ..... Co ord. ... 149 U ..... Horizontal Length ..... Date Completed ... AUG. 16/86 .....  
 Claim No. ... L 12481 ..... 45 W ..... Core Size ... N.Q. .... Drilled By ... Diamond M Drillers .....  
 Grid No. .... Angle & Direction ... 80° E ..... Elevation ... 1982.80 ..... Logged By ... P. J. O'J .....  
 610 33000

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 4.26	CASING CLAY & Boulder								
4.26 - 4.72	SILICEOUS ARGILLITE								
4.72 - 13.10	ARGILLACEOUS LIMY PHYLLITE								
13.10 - 24.38	BRECCIATE GRAPHITIC ARGILLITE SHEARED & BROKEN with scattered gl3 stringers & inclusions. @ 18.29 0.63 cm stringer fine grain earthy Pyrite @ 21.64 TRACE Pyrite, Sphalerite in gl3 23.25 - 23.50 Irregular gl3, chn. - Trace sphalerite.								
24.38 - 25.97	EXTENSIVE QUARTZ JEWELL TO GRAPHITIC ARGILLITE Jewelling mainly parallel to core (Dipping East). Strongly sheared & broken. Trace sphalerite, Pyrite								
25.97 - 26.21	FAULT GOUGE								
26.21 - 26.91	NEAR SOLID PYRITE - fine earthy type strongly sheared and broken								
26.91 - 39.13	GRAPHITIC PHYLLITE - ARGILLITE low L nearly 0° (Dipping East.) @ -80°								
39.13 - 40.54	BADLY BROKEN - SHEARED MARBLE								
40.54 - 44.50	FAULT ZONE - CAUSE - GOUGE mainly gl3 & graphitic argillite 39.93 - 42.97 - 1.52 m Lost Core 42.97 - 44.50 - 1.30 m Lost Core @ 44.50 Reduced From N.Q. to B.Q. due to CAUSE								


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-2 OF 2

Property... WINDFLOWER Project No. 227 Depth ..... Date Began .....

Hole No. WIN-15 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.	Ag.	Cu.	Zn.
44.50 - 50.39	ARGILLACEOUS PHYLLITE LOW L = 10" 46.0 - 46.32 of 3 shales								
3.29 - 52.12	LIMY PHYLLITE								
52.12 - 67.97	ARGILLACEOUS CALCAREOUS PHYLLITE TO GRAPHITIC ARGILLITE								
67.97 - 69.49	DOLOMITE MARBLE								
<u>L.O.H.</u>	ACID TEST @ 39.82 m = 81° PUT PLUG @ 35.05 AND CEMENT TO TOP OF CASING. CASING PUURED PLUS SHIP.								


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL RECORD**

1 of 1

Property WINDFLOWER Project No. 224 Depth 69.49 Date Began AUG. 15/86  
 Hole No. W10-15 Co ord. 149 N Horizontal Length ..... Date Completed AUG. 16/86  
 Claim No. L12481 45 W Core Size N.O. Drilled By DIAMOND M DRILLING  
 Grid No. .... Angle & Direction -80° E Elevation ..... Logged By P. J. D. J.  
GR. O. BENEFICIARY

INTERVAL FEET/METRES	NUMBER	WIDTH	g Au.	D.P.M. Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES								
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.				
0 - 4.26	CASING	4.26																		
4.26 - 20.11	WASTE	15.85																		
20.11 - 20.42	47694	0.31	0.17	2.1																
20.42 - 21.03	waste	0.61																		
21.03 - 22.09	47695	1.06	0.28	1.4																
22.09 - 23.25	waste	1.16																		
23.25 - 23.56	47696	0.31	0.30	1.2																
23.56 - 24.38	waste	0.82																		
24.38 - 25.14	47697	0.76	0.22	1.3																
25.14 - 25.91	98	0.77	0.16	1.5						917										
25.91 - 26.21	99	0.30	1.16	13.0						0.91m	3.700									2.348
26.21 - 26.82	47700	0.61	4.95	11.5						2.001	0.108	0.17								2.219
26.82 - 27.43	01	0.61	0.38	3.3																
27.43 - 39.10	waste	11.73																		
39.10 - 39.62	47702	0.42	0.15	1.2																
39.62 - 41.15	47703	1.53	0.22	2.5																
41.15 - 42.82	Lost Core	1.67																		
42.82 - 44.50	47704	1.68	0.22	1.1																
44.50 - 46.02	waste	1.52																		
46.02 - 46.63	47705	0.61	0.14	1.8																
46.63 - 69.49	WASTE	22.86																		
E.O.H.																				

# GRANGES EXPLORATION LTD. DIAMOND DRILL LOG

P-1 OF 1

Property WINDFLOWER Project No. 224 Depth 69.49 Date Began Aug. 15/84  
 Hole No. WIN-15 Co ord. 149 N Horizontal Length \_\_\_\_\_ Date Completed Aug. 18/84  
 Claim No. L 12481 45 W Core Size 1.2 Drilled By D. M. T.  
 Grid No. \_\_\_\_\_ Angle & Direction 80°E Elevation \_\_\_\_\_ Logged By PJT

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD									
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.		
	<u>SLUDGE SAMPLES</u>										
		4.24	7.92	3.68	44311	.20					
		7.92	11.97	3.0	44312	.05					
		10.97	14.02	3.0	13	.05					
		14.02	17.07	3.0	14	.05					
		17.07	20.11	3.0	15	.05					
		20.11	23.16	3.0	16	.05					
		23.16	26.21	3.0	17	.15					
		26.21	29.26	3.0	18	1.40					
		29.26	32.31	3.0	19	.45					
		32.31	35.35	3.0	44320	.65					
		35.35	38.40	3.0	21	.05					
		38.40	41.45	3.0	22	.05					
		41.45	47.55	6.1	23	.10					
		47.55	50.59	3.0	24	.15					
		50.59	53.64	3.0	25	.05					
		53.64	56.69	3.0	26	.05					
		56.69	59.74	3.0	27	.05					
		59.74	62.79	3.0	28	.05					
		62.79	65.83	3.0	29	.05					
		65.83	68.88	3.0	4330	.05					
		68.88	69.49	0.61	No Sample						



**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-1 of 2

Property WINDFLOWER Project No. 224 Depth 51.51 Date Began Aug. 10/80  
 Hole No. WIN-16 Co ord. 149 N Horizontal Length ..... Date Completed Aug. 17/80  
 Claim No. L 12481 ..... 45 W Core Size N.R. Drilled By Diamond M Drillers  
 Grid No. .... Angle & Direction 80° W Elevation 1982.80 Logged By R.J.D.  
GRIP Beating

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 2.44	CASING								
2.44 - 15.85	ARGILLACEOUS PHYLLITE TO BRECCIATED GRAPHITIC ARGILLITE WITH DOLOMITE-MARBLE INTERBEDDED.								
	8.23 - 8.35 glz vein								
	10.05 - 10.34 FAULT Gouge								
	11.04 - 11.79 glz vein								
	12.19 - 12.37 glz vein								
15.85 - 22.86	LIGHT GREEN EUCRATIC DOLOMITE-MARBLE								
	21.94 - 22.40 10% Fine partly Pyrite.								
22.86 - 30.78	GRAPHITIC ARGILLITE with PHYLLITE SECTIONS. Siliceous texture with glz stringers.								
	25.14 - 25.23 glz vein								
	27.73 - 28.27 glz-rich section with calcite.								
	@ 28.65 Block of fine early Pyrite								
30.78 - 32.76	GRAPHITIC ARGILLITE with glz stringing - trace Pyrite.								
32.76 - 35.51	GRAPHITIC ARGILLITE silicified, calcareous, & Brecciated								
35.51 - 39.47	SILICIFIED GRAPHITIC ARGILLITE & Qtz Veinlets.								
39.47 - 42.06	GRAPHITIC ARGILLITE siliceous & calcareous.								
	40.93 - 41.21 glz zone with visible Pyrite.								
42.06 - 43.89	GRAPHITIC ARGILLITE with QUARTZ VEINLETS strongly siliceous & Brecciated.								
43.89 - 48.46	FAULT ZONE - Badly Broken GRAPHITIC ARGILLITE								
	47.24 - 47.55 mud zone & gouge								
	44.50 - 46.27 1.52m Lost Core.								

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P. 2 of 3

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....  
Hole No. W.O. -16 Coord. .... 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.	Ag.	Cu.	Zn.
<u>48.40 - 49.83</u>	<u>GRAPHITIC ARBILLITE with glz stringers.</u>								
<u>49.83 - 51.51</u>	<u>LIGHT GREEN TRUENITIC DOLOMITE - MARBLE.</u>								
<u>see H</u>	<u>ACID TEST @ 51.51 = 81°30'</u>								
	<u>HOLE CEMENTED TOP TO BOTTOM - 4 BAG'S</u>								
	<u>CASING &amp; SHOT PULLED.</u>								




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL RECORD**

1071

Property WINDFLOWER Project No. 224 Depth 51.51 Date Began AUG. 16/86  
 Hole No. W10-10 Co ord. 149N Horizontal Length \_\_\_\_\_ Date Completed AUG. 17/86  
 Claim No. L12481 45W Core Size N.Q. Drilled By DIAMOND M. DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -80°W Elevation \_\_\_\_\_ Logged By P. J. D. J.

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES								
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.				
0 - 2.44	CASING	2.44																		
2.44 - 8.23	WASTE	5.79																		
8.23 - 8.41	47706	0.18	0.21	0.03																
8.41 - 11.64	WASTE	3.23																		
11.64 - 11.79	47707	0.15	0.20	0.3																
11.79 - 12.19	WASTE	0.40																		
12.19 - 12.34	47708	0.15	0.37	0.4																
12.34 - 21.64	WASTE	9.30																		
21.64 - 22.25	47709	0.61	0.23	1.2																
22.25 - 25.05	WASTE	2.80																		
25.05 - 25.23	47710	0.18	0.16	0.6																
25.23 - 27.73	WASTE	2.50																		
27.73 - 28.74	47711	1.01	0.24	1.3																
28.74 - 30.78	WASTE	2.04																		
30.78 - 31.33	47712	0.55	0.23	1.4																
31.33 - 32.31	WASTE	0.98																		
32.31 - 32.70	47713	0.39	0.19	1.1																
32.70 - 37.03	WASTE	4.33																		
37.03 - 37.49	47714	0.46	0.18	0.7																
37.49 - 37.94	WASTE	0.45																		
37.94 - 38.83	47715	0.89	0.31	1.6																
38.83 - 39.32	16	0.49	0.34	1.5																
39.32 - 40.90	WASTE	1.58																		
40.90 - 41.15	47717	0.25	0.26	1.3																
41.15 - 43.13	WASTE	1.98																		
43.13 - 44.04	47718	0.91	0.29	1.6																
44.04 - 45.56	Lost Core	1.52																		
45.56 - 47.24	47719	1.68	0.68	2.1						1.14										
47.24 - 47.55	47720	0.31	0.82	1.9						0.24					1.99	0.709				
47.55 - 51.51	WASTE	3.96													6.5'	0.020				
E.O.H.																				



**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

1 OF 1

Property WINDFLOWER Project No. 227 Depth 51.51 Date Began Aug. 14/86  
 Hole No. WIN-10 Co ord. 149 N Horizontal Length \_\_\_\_\_ Date Completed Aug. 17/86  
 Claim No. L12481 45W Core Size N.O. Drilled By D.M.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -80°W Elevation \_\_\_\_\_ Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
	SLUDGE SAMPLES	2.13	14.32	12.19	44251	0.30			
		14.32	17.37	3.0	52	0.05			
		17.37	20.42	3.0	53	0.05			
		20.42	23.47	3.0	54	0.05			
		23.47	26.51	3.0	55	0.05			
		26.51	29.54	3.0	56	0.05			
		29.54	32.61	3.0	57	0.05			
		32.61	35.66	3.0	58	0.05			
		35.66	38.71	3.0	59	0.05			
		38.71	41.75	3.0	44260	0.05			
		41.75	44.80	3.0	61	0.05			
		44.80	47.85	3.0	62	0.05			
		47.85	50.90	3.0	63	1.05			
		50.90	51.51	0.61	44264	0.30			
		E.O.H.							


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

Property WINDFLOWER Project No. 224 Depth 53.95 Date Began AUG. 17/84  
 Hole No. W10-17 Co. ord. 120N Horizontal Length \_\_\_\_\_ Date Completed Aug. 10/84  
 Claim No. 12481 \_\_\_\_\_ 55W Core Size N.O. Drilled By Diamond M Drilling  
 Grid No. \_\_\_\_\_ Angle & Direction -70° E Elevation 1983.4 Logged By P.J.D.J.  
6210 Bearing

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 7.01	CASING, Bedrock @ 6.70								
7.01 - 7.77	ARGILLITE	10.21	10.51	0.30	47721	.07	1.6		
		10.51	11.27	0.76	47722	.01	.9		
		11.27	15.63	4.36	waste				
7.77 - 15.69	LIGHT GREEN (FUCHSITIC) DOLOMITE - MARBLE	15.63	16.61	0.98	47723	.11	2.0		
		16.61	17.02	0.41	waste				
	9.60 - 10.21 Lost Core	17.02	18.87	1.87	47724	.16	2.8		
	10.21 - 10.51 gtz - rich zone	18.87	19.69	0.80	waste				
	10.51 - 10.67 Broken & shattered	19.69	20.42	0.73	47725	.58	1.7		
	10.51 - 11.27 10% Fine Earthy Pyrite.	20.42	21.33	0.91	waste				
		21.33	22.25	0.92	47726	1.56	2.1		
15.69 - 16.6	MINERALIZED DOLOMITE - MARBLE - 20% fine earthy pyrite with gtz veining some gtz veins parallel to core Believed 14.32 & 17.07 - 0.3 meter lost core	22.25	23.47	1.22	27	.22	1.4		
		23.47	53.03	29.56	waste				
		53.03	53.25	0.22	47728	.21	1.0		
		53.25	53.95	0.69	waste				
16.6 - 23.4	STRONGLY SHEARED & BROKEN GRAPHITIC ARGILLITE WITH QUARTZ VEINING TRACE to 3% PYRITE CAUSE @ 21.33 - Reduced to B.Q. 21.33 - 22.25 5% Pyrite - badly sheared & broken Fault zone.								
		8.23	11.27	3.04	44265	.05			
		11.27	14.32	3.05	66	.05			
		14.32	17.37	3.05	67	.05			
		17.37	20.42	3.05	68	.05			
		20.42	23.47	3.05	69	.35			
23.4 - 39.62	ARGILLITE - PHYLLITE 20.42 - 26.97 marble with gtz veining Scattered gtz veinlets & stringers - trace Pyrite.	23.47	26.51	3.04	70	.15			
		26.51	29.56	3.05	71	.20			
		29.56	32.61	3.05	72	.05			
		32.61	35.66	3.05	73	.05			
39.62 - 42.97	MARBLE	35.66	38.71	3.05	74	.05			
		38.71	41.75	3.04	75	.05			
42.97 - 44.80	ARGILLITE	41.75	44.80	3.05	76	.05			
		44.80	47.85	3.05	77	.05			
44.80 - 47.85	MARBLE	47.85	50.90	3.05	78	.05			
		50.90	53.95	3.05	44279	.05			
47.85 - 53.95	ARGILLITE minor gtz stringers.								
F.O.H.	53.03 - 53.25 stringers of fine earthy Pyrite.								
	ACID TEST @ 53.94 = 69'30'								
	HOLE CEMENTED TOP to Bottom. Casing PULLED.								


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

Property WINDFLOWER Project No. 224 Depth 60.07 Date Began AUG 10 1986  
 Hole No. WIN-18 Co ord. 90 N Horizontal Length \_\_\_\_\_ Date Completed Aug 19/86  
 Claim No. 12481 72.7 W Core Size N.Q. Drilled By D. AMOND M DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -60° E Elevation 1991.30 APPROX Logged By P J D. Jarry

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 7.62	CASING								
7.6 - 10.97	MASSIVE QUARTZ VEIN	7.62	8.23	.61	49429	.37	1.0		
		8.23	8.71	.48	30	.14	1.2		
	TRACE PYRITE, SPHALTERITE	8.71	9.20	.29	31	.15	.2		
	DISSEMINATED PYRITE THROUGH TR - 1%	9.20	9.69	.49	32	.08	.3		
	7.62 - 7.92 DOLOMITIC & PYRITIFEROUS	9.69	10.18	.49	33	2.69	.6		
	10.36 - 10.67 Loose Core - Badly Broken - Core?	10.18	10.45	.27	host core				
		10.45	10.97	.52	49434	.47	16.7		
10.97 - 13.10	STRONGLY SUGARED & BADLY BROKEN GRAPHIC ARGILLITE	10.97	11.58	.61	35	.79	1.5		
	CALCAREOUS, BRECCIATED	11.58	13.10	1.52	36	.55	1.5		
13.10 - 13.71	DOLOMITE - MARBLE with glz veining	13.10	13.71	.61	37	.10	1.1		
		13.71	14.32	.61	38	.25	1.8		
13.71 - 15.54	GRAPHIC ARGILLITE	14.32	14.93	.61	39	.25	2.0		
	calcareous, trace Pyrite, minor glz stringers	14.93	15.54	.61	40	.33	1.4		
		15.54	16.15	.61	41	.31	1.4		
15.54 - 17.63	DOLOMITE - MARBLE & QUARTZ VEINING	16.15	16.76	.61	42	.53	1.5		
	trace to 5% Pyrite	16.76	17.37	.61	43	.54	1.1		
		17.37	17.68	.31	44	.50	2.4		
17.63 - 24.08	WHITE to GREY QUARTZ VEIN	17.68	18.59	.91	45	64.0	8.5	1.82m	35.72 g/t
	Brown with very narrow sugared marble sections.	18.59	19.50	.91	46	2.45	2.4		
	trace to 1% Pyrite	19.50	19.96	.46	47	.66	.3		
		19.96	20.42	.46	48	1.35	1.2		
24.08 - 28.65	STRONGLY SUGARED QUARTZ VEIN & MARBLE	20.42	20.88	.46	4949	.23	.3		
	trace to 2% Pyrite	20.88	21.03	.15	waste				
		21.03	21.64	.61	001	3.78	2.2	1.06m	2.68 g/t
28.65 - 35.35	GRAPHIC ARGILLITE & QUARTZ VEINING	21.64	22.09	.45	002	1.20	1.0		
	TRACE PYRITE, CALCAREOUS	22.09	22.70	.61	003	0.52	0.7		
		22.70	23.16	.46	004	0.34	0.9		
35.35 - 35.96	FAULT ZONE - Badly streaked & broken GRAPHIC ARGILLITE	23.16	23.62	.46	005	.23	0.4		
		23.62	24.08	.46	006	.80	1.0		
35.96 - 39.01	GRAPHIC ARGILLITE & glz stringers	24.08	24.53	.45	7	.66	1.1		
	@ 36.73 Irregular Pyrite stringers (lightly folded)	24.53	24.99	.46	8	.74	1.0		
		24.99	25.60	.61	9	.70	1.4		
39.01 - 55.47	ARGILLACEOUS PHYLLITE - GRAPHIC ARGILLITE	25.60	26.21	.61	010	1.68	1.5	1.22m	1.4 g/t
	calcareous, odd glz stringer	26.21	26.82	.61	11	1.15	2.0		
	53.34 - 53.95 Pyrite Bldgs & glz stringers	26.82	27.43	.61	12	0.17	.5		
		27.43	28.04	.61	13	0.37	1.5		
55.47 - 56.39	MARBLE & QUARTZ VEINING parallel to Core	28.04	28.65	.61	14	.11	1.4		
		28.65	29.41	.76	15	.29	1.4		
		29.41	30.48	1.07	016	.23	2.2		




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

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Property WINDFLOWER Project No. 224 Depth 63.70 Date Began Aug. 19/86  
 Hole No. WIN-19 Co ord. 90N Horizontal Length \_\_\_\_\_ Date Completed Aug. 20/86  
 Claim No. 12481 72.7W Core Size N.Q. Drilled By DIAMOND M. DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -80° E Elevation 1991.30 APPROX Logged By P. J. De Jong

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 5.48	CASING								
5.48 - 8.23	BROKEN QUARTZ VEIN & SILICIFIED MARBLE TRACE to 1% Pyrite	5.18	5.79	.61	028	.46	.9		
		5.79	6.40	.61	029	1.00	.7		
		6.40	7.01	.61	030	.59	.9		
		7.01	7.62	.61	31	.38	.5		
8.23 - 25.45	BROKEN WHITE to GREY QUARTZ VEIN with MARBLE Sections about shaly silicified. TRACE to 1% Pyrite	7.62	8.23	.61	32	.09	.7		
		8.23	8.84	.61	33	.03	.8		
		8.84	9.45	.61	34	.33	1.6		
		9.45	10.06	.61	35	.28	1.4		
		10.06	10.67	.61	36	1.13	.6		
25.45 - 63.70	GRANULITE ARGILLITE with ARGILLACEOUS PHYLLITE and the old bed of marble	10.67	10.97	.30	waste				
		10.97	11.43	.46	037	.34	.6		
		11.43	11.88	.45	38	.46	.6		
L.O.H.	32.31 - 32.92 MARBLE	11.88	13.24	1.36	waste				
	33.62 - 33.89 "	13.24	13.71	.45	039	.48	1.2		
	44.82 - 46.48 "	13.71	14.32	.61	040	.86	.7		
	58.47 - 59.59 "	14.32	14.93	.61	41	.37	.5		
		14.93	15.54	.61	42	.39	.4		
		15.54	15.85	.31	43	.04	.1		
		15.85	16.46	.61	44	.03	.1		
	ACID @ 62.18 M = 82°	16.46	17.07	.61	45	.14	1.8		
	HOLE CEMENTED TOP to BOTTOM	17.07	17.37	.30	46	.07	.5		
	CASING PULLED.	17.37	17.98	.61	47	.25	.2		
		17.98	18.59	.61	048	.85	1.2		
		18.59	18.89	.30	lost core				
		18.89	19.50	.61	049	.50	.6		
		19.50	20.11	.61	050	.45	1.0		
		20.11	20.72	.61	51	.30	.4		
		20.72	21.33	.61	52	.50	.4		
		21.33	21.94	.61	53	.50	.9		
		21.94	22.55	.61	54	.22	.8		
		22.55	23.16	.61	55	.21	.4		
		23.16	23.77	.61	56	.18	.2		
		23.77	24.38	.61	57	.26	1.1		
		24.38	24.99	.61	58	.19	.4		
		24.99	25.75	.46	59	.93	1.0		
		25.75	25.97	.52	060	1.42	1.8		
		25.97	27.28	1.31	waste				
		27.28	27.67	.39	061	.84	2.2		
		27.67	28.04	.37	062	1.22	1.2		



**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-2 OF 3

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....

Hole No. W10-19 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION <i>CORE SAMPLES</i>	SAMPLE RECORD								
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.	
		28.04	28.65	.61	063	1.25	1.5	} 1.28m	1.42	g/t
		28.65	28.95	.30	064	2.00	1.8			
		28.95	29.87	.92	65	.40	1.2			
		29.87	30.48	.61	66	.32	1.8			
		30.48	31.09	.61	67	.29	1.9			
		31.09	31.70	.61	68	.36	2.2			
		31.70	32.31	.61	69	.22	2.0			
		32.31	33.07	.76	070	.12	1.6			
		33.07	33.68	.61	71	.15	1.6			
		33.68	34.29	.61	72	.10	1.4			
		34.29	35.20	.91	waste					
		35.20	35.45	.25	073	.19	1.9			
		35.45	36.57	1.12	waste					
		36.57	37.18	.61	074	.03	2.1			
		37.18	40.63	4.45	waste					
		40.63	42.24	.61	075	.03	1.5			
		42.24	48.00	.76	076	.24	1.2			
		48.00	48.77	.77	waste					
		48.77	49.83	1.06	077	.57	1.5			
		49.83	50.29	.46	078	.50	1.4			
		50.29	50.90	.61	079	.03	1.0			
		50.90	51.51	.61	080	.08	0.8			
		51.51	63.70	12.19	waste					
					E.O.H.					



**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-3 OF 3

Property WINDFLOWER Project No. 224 Depth ..... Date Begun .....

Hole No. WIN-19 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.	Ag.	Cu.	Zn.
	<i>SLUDGE SAMPLES</i>								
		5.48	11.27	5.79	44280	.90			
		11.27	14.32	3.05	81	.50			
		14.32	17.37	3.05	82	.99			
		17.37	20.42	3.05	83	.20			
		20.42	23.47	3.05	84	.79			
		23.47	26.51	3.05	85	1.20			
		26.51	29.56	3.05	86	2.10			
		29.56	32.61	3.05	87	.90			
		32.61	35.66	3.05	88	.40			
		35.66	38.71	3.05	89	.30			
		38.71	41.75	3.04	44290	.15			
		41.75	44.80	3.05	91	.35			
		44.80	47.85	3.05	92	.55			
		47.85	50.90	3.05	93	.05			
		50.90	53.95	3.05	94	.45			
		53.95	56.99	3.04	95	.45			
		56.99	60.04	3.05	96	.70			
		60.04	62.18	2.14	97	.70			
		62.18	63.70	1.52	44298	.30			
		E.O.H.							



**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-1 OF 2

Property WINDFLOWER Project No. 224 Depth 44.50 Date Began Aug. 20/66  
 Hole No. WIN-20 Co ord. 67.5 N Horizontal Length \_\_\_\_\_ Date Completed Aug. 21/66  
 Claim No. 12481 \_\_\_\_\_ 84 W Core Size N.Q. Drilled By Diamond M. Drilling  
 Grid No. \_\_\_\_\_ Angle & Direction -47° N47° W Elevation 1991.10 Logged By P. J. D. J.  
GRID BRACING

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 1.98	CASING								
1.98 - 5.49	STRONGLY ALTERED Limy PHYLLITE Heavily stained & oxidized - Juggy scattered gtz stringers.	1.98	3.05	1.07	081	0.40	1.1		
		3.05	3.94	.91	082	.28	1.1		
		3.94	4.57	.61	083	.04	.9		
		4.57	5.48	.91	084	.06	.9		
		5.48	6.25	.77	waste				
5.49 - 8.17	ALTERED SILICEOUS Limy PHYLLITE with gtz stringers 5.49-6.25 Lost Core.	6.25	7.31	1.06	85	.03	.6		
		7.31	8.07	.76	86	.05	1.1		
		8.07	8.68	.61	87	.08	1.0		
8.17 - 18.44	STRONGLY SILICEOUS ALTERED & BLEACHED Limy PHYLLITE to ALTERED DOLOMITE - MARBLE SILICEOUS PYRITE CUBES Sections strongly silicified & quartzitic. Numerous gtz stringers & inclusions (gtz D stringer zone ??)	8.68	9.14	.46	88	.13	1.6		
		9.14	9.75	.61	89	.11	1.3		
		9.75	10.36	.61	090	.09	.6		
		10.36	11.27	.91	91	.03	.6		
		11.27	12.19	.92	92	.08	.6		
		12.19	13.10	.91	93	.11	.7		
		13.10	14.02	.92	94	.22	1.0		
18.44 - 21.03	SILICEOUS ARGILLITE - SILICEOUS & Limy GRAPHITIC ARGILLITE with gtz stringers.	14.02	14.63	.61	95	.11	.7		
		14.63	15.24	.61	96	.21	.8		
		15.24	15.85	.61	97	.15	.5		
21.03 - 30.69	MAJOR QUARTZ - SULPHIDE VEIN	15.85	16.46	.61	98	.64	1.2		
		16.46	17.37	.91	99	.34	1.4		
	21.03 - 21.39 Near Solid - Solid Sulphide - Pyrite with gtz (mainly fine grained Earthy Pyrite)	17.37	18.29	.92	100	.36	.8		
		18.29	18.89	.60	101	.64	1.4		
		18.89	19.20	.31	102	.63	2.2		
	21.39 - 24.38 Massive white gtz vein with scattered large blebs Pyrite (coarse)	19.20	19.51	.31	103	1.64	16.8		
		19.51	20.12	.61	104	.90	2.7		
		20.12	20.57	.45	105	1.79	2.4	2.14m	1.31g/ft
		20.57	21.03	.46	106	.89	2.3		
	24.38 - 27.89 White gtz vein with extensive stringers & blebs of Pyrite (20-40%) 'Altered & calcareous. Core L in Sulphides 45°-90°	21.03	21.34	.31	107	1.73	22.0		
		21.34	21.79	.45	108	.10	4.7		
		21.79	22.25	.46	109	.07	.1		
		22.25	22.71	.46	110	.09	.1		
		22.71	23.16	.45	111	.10	50.1		
		23.16	23.62	.46	112	.06	.7		
		23.62	24.23	.61	113	.48	2.2		
		24.23	24.99	.76	114	.82	2.2		
30.69 - 32.92	SILICIFIED GRAPHITIC ARGILLITE & gtz VEINING Disseminated Pyrite 1%.	24.99	25.45	.46	115	2.34	5.8	0.92m	2.43g/ft
		25.45	25.91	.46	116	2.52	7.4		
		25.91	26.37	.46	117	.53	4.3		
		26.37	26.82	.45	118	.35	2.3		




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P 1 OF 3

Property WINDFLOWER Project No. 224 Depth 96.93 Date Began Aug 21/60  
 Hole No. WIN-21 Co. ord. 607.5 N Horizontal Length \_\_\_\_\_ Date Completed Aug 22/60  
 Claim No. 12481 Core Size N.Q. Drilled By D. Angelo M. Drilling  
 Grid No. \_\_\_\_\_ Angle & Direction ELEV. = 1991.10 Elevation -68° 147' W Logged By R.J.D.  
 \_\_\_\_\_ Grid B-3644

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0-6.4	CASING								
6.4-8.23	ARGILLACEOUS PHYLLITE & DOLOMITE	7.31	8.23	0.92	136	.15	1.4		
		8.23	8.84	0.61	137	.07	.8		
		8.84	9.90	1.06	138	.08	.3		
8.23-24.69	VERY SILICEOUS DOLOMITE - MARBLE EXTENSIVE qtz stringers & inclusions (qtz stringer zone) Argillaceous inclusions. trace Pyrite	9.90	10.36	0.46	139	.14	.4		
		10.36	11.27	0.91	140	.19	.5		
		11.27	12.34	1.07	waste				
		12.34	12.95	0.61	141	.16	.7		
24.69-26.70	STRONGLY SILICEOUS BRECCIATED ARGILLITE & DOLOMITE EXTENSIVE qtz stringers & veins (qtz stringer zone) TRACE PYRITE.	12.95	13.56	0.61	142	.06	.3		
		13.56	14.32	0.76	143	.21	.3		
		14.32	14.93	0.61	144	.12	.2		
		14.93	15.85	0.93	145	.20	.5		
26.70-31.7	PURE WHITE QUARTZ vein - trace Pyrite.	15.85	16.46	0.61	146	.08	.5		
		16.46	17.37	0.91	147	.10	.4		
	26.97-27.34 ARGILLACEOUS DOLOMITE with qtz.	17.37	17.98	0.61	148	.14	.3		
	@ 27.03 0.5cm string Pyrite (fine grained & Earthy)	17.98	18.44	0.46	149	.17	.6		
		18.44	19.05	0.61	150	.19	.8		
		19.05	19.81	0.76	151	.16	.4		
31.7-42.8	DOLOMITE - MARBLE - ARGILLACEOUS LIMY PHYLLITE Scattered qtz stringers & inclusions	19.81	20.42	0.61	152	.24	.9		
		20.42	20.88	0.46	153	.16	.5		
		20.88	21.33	0.45	154	.30	.9		
	32.00-32.61 qtz Veining Partly Vuggy - calcareous.	21.33	21.94	0.61	155	.21	.4		
	33.9E-34.13 qtz Vein.	21.94	22.86	0.92	156	.70	.8		
		22.86	23.47	0.61	157	.20	.5		
		23.47	24.23	0.76	158	.18	.2		
42.8-47.39	DOLOMITE - MARBLE Some Fresh, scattered qtz inclusions.	24.23	25.14	0.91	159	.27	.5		
		25.14	25.91	0.77	160	.37	1.2		
		25.91	26.51	0.60	161	.73	.8		
		26.51	27.12	0.61	162	.88	.6		
47.39-48.77	SILICIFIED & CALCAREOUS GRAPHITIC ARGILLITE scattered qtz stringers TRACE PYRITE	27.12	27.58	0.46	163	.24	.1		
		27.58	28.04	0.46	164	.34	.9		
		28.04	28.50	0.46	165	.28	.3		
		28.50	28.95	0.45	166	.32	.3		
		28.95	29.56	0.61	167	.14	.5		
48.77-52.70	SILICIFIED DOLOMITE - MARBLE QUARTZITE. trace 5% Pyrite.	29.56	30.02	0.46	168	.05	.1		
		30.02	30.78	0.76	169	.03	.1		
		30.78	31.24	0.46	170	.04	.1		
	49.22-50.29 3-5% Pyrite	31.24	31.70	0.46	171	.10	.1		
	TRACE SPHALERITE @ 49.37	31.70	32.00	0.30	172	.10	1.3		
	52.42-52.70 3-5% Pyrite	32.00	32.76	0.76	173	.23	1.5		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

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Property WINDFLOWER Project No. 224 Depth ..... Date Began .....

Hole No. WIN-21 Co. ord. .... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
52.70-58.82	SILICEOUS GRAPHITIC ARGILLITE with gty stringers. CARBONACEOUS with Dolomite sections.	32.70	33.98	1.22	174	.04	1.1		
		33.98	34.57	0.61	175	.13	1.0		
		34.57	35.35	0.76	176	.10	1.1		
56.39-57.91	Strongly Siliceous Dolomite Marble & gty Veining with 3-20% Pyrite.	35.35	35.96	0.61	177	.06	.9		
		35.96	36.73	0.77	178	.06	.4		
		36.73	37.34	0.61	179	.08	.4		
57.91-58.92	Siliceous Graphitic Argillite with gty stringers & 1-3% Pyrite.	37.34	37.79	0.45	180	.04	.3		
		37.79	38.40	0.61	181	.12	.7		
		38.40	39.01	0.61	182	.08	.6		
58.82-62.5	STRONGLY SHEARED & BROKEN MARBLE & Qtz Veining 3-6% Pyrite	39.01	39.93	0.92	183	.04	.5		
		39.93	40.69	0.76	184	.06	.7		
		40.69	41.45	0.76	185	.09	.9		
62.5-62.8	CAVE	41.45	42.21	0.76	186	.06	1.1		
		42.21	42.82	0.61	187	.07	1.0		
		42.82	55.17	12.35	waste				
62.8-67.3	STRONGLY SHEARED SILICIFIED MARBLE & Qtz Veining 3-7% Pyrite	55.17	55.78	0.61	188	.23	2.2		
		55.78	56.39	0.61	189	.10	1.8		
		56.39	56.99	0.60	190	.23	1.5		
67.3-67.9	BADLY BROKEN WHITE Qtz Vein w. Pyrite.	56.99	57.60	0.61	191	.85	2.3		
		57.60	58.21	0.61	192	.34	2.0		
		58.21	58.82	0.61	193	.29	1.5		
67.9-69.8	QUARTZ BEARING FAULT ZONE & Gouge.	58.82	59.43	0.61	194	.78	1.7		
		59.43	60.04	0.61	195	1.16	1.9		
		60.04	60.65	0.61	196	.22	1.7		
69.8-70.10	STRONGLY SHEARED & BROKEN SOLID SULPHIDE (Pyrite) & QUARTZ	60.65	61.26	0.61	197	.35	1.2		
		61.26	61.87	0.61	198	.61	1.2		
		61.87	62.48	0.61	199	.30	.7		
70.10-83.2	BADLY BROKEN QUARTZ VEIN with well mineralized to near 100% sulphide occurring as Bands and veins. (10-20% Pyrite in sulphide sections.	62.48	63.40	0.92	200	.15	1.0		
		63.40	64.01	0.61	201	.23	1.1		
		64.01	64.77	0.76	202	.12	.8		
76.04-77.42	Lost Core - Cave - Reduced to B.Q. Rnds.	64.77	65.53	0.76	203	.23	1.0		
		65.53	66.14	0.61	204	.20	1.0		
		66.14	66.75	0.61	205	.16	1.1		
81.38-82.45	Lost Core	66.75	67.51	0.76	206	.21	1.4		
		67.51	68.12	0.61	207	.11	.5		
		68.12	68.58	0.46	208	.23	8.3		
83.2-85.34	FAULT ZONE - BADLY BROKEN GRAPHITIC ARGILLITE & QUARTZ	68.58	68.88	0.30	209	.22	6.5		
		68.88	69.34	0.46	210	2.73	6.9	} 1.07m	6.99 g/t
		69.34	69.95	0.61	211	10.2	7.2		
	83.97-85.04 Last Core.	69.95	70.41	0.46	212	.22	6.5		

# GRANGES EXPLORATION LTD. DIAMOND DRILL LOG

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Property WINDFLOWER Project No. 224 Depth ..... Date Began .....

Hole No. WIND 21 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
85.34 - 90.52	Badly Broken Graphitic Argillite & Fault Zone much gl <sub>2</sub> & Calc.	70.41	71.02	0.61	213	1.22	4.0		
		71.02	71.47	0.45	214	.14	.6		
		71.47	71.93	0.46	215	1.14	2.9		
	89.30 - 90.52 Lost Core.	71.93	72.54	0.61	216	3.94	6.5		
		72.54	72.75	0.21	217	.54	3.9		
		72.75	73.30	0.55	218	7.79	9.1		
90.52 - 92.90	Mineralized Quartz Vein & Graphitic Argillite Trace - 2% Pyrite, Trace Sphalerite.	73.30	73.76	0.46	219	11.8	10.1		
		73.76	74.22	0.46	220	1.37	7.9	3.66	4.00 g/t
		74.22	74.67	0.45	221	2.87	11.6	INCL	
		74.67	75.13	0.46	222	6.72	15.9	1.83 m	8.05 g/t
		75.13	75.59	0.46	223	1.98	8.2		
92.90 - 96.62	Graphitic Argillite Trace gl <sub>2</sub> & Pyrite.	75.59	76.04	0.45	224	.71	4.5		
		76.04	77.42	1.38	Lost Core				
		77.42	78.33	0.91	225	.29	3.8		
		78.33	78.94	0.61	226	1.15	6.0		
96.62 - 96.93	MARBLE	78.94	79.55	0.61	227	.57	18.0		
		79.55	80.01	0.46	228	.62	7.0		
	F.O.H.	80.01	80.46	0.45	Lost Core				
		80.46	80.92	0.46	229	.81	2.5		
	Acid Test @ 62.5 m = 70°	80.92	81.38	0.46	230	.04	1.1		
		81.38	82.45	1.07	Lost Core				
	@ 90.5 m = 70°	82.45	82.90	0.45	231	.20	.9		
		82.90	83.36	0.46	232	.55	.9		
		83.36	83.97	0.61	233	.27	1.7		
	HOLE CEMENTED TOP TO BOTTOM	83.97	85.04	1.07	Lost Core				
	CASING PULLED.	85.04	85.34	0.30	234	1.15	2.4		
		85.34	86.26	0.92	235	.20	1.9		
		86.26	87.42	1.16	236	.26	1.7		
		87.42	88.39	0.97	237	.87	2.9		
		88.39	89.30	0.91	238	.32	1.7		
		89.30	90.52	1.22	Lost Core				
		90.52	91.28	0.76	239	.84	2.1		
		91.28	92.05	0.77	240	.56	1.9		
		92.05	92.50	0.45	241	.33	2.0		
		92.50	92.96	0.46	242	.36	2.4		
		92.96	93.88	0.92	243	.45	1.9		
		93.88	96.93	3.05					
	F.O.H.								


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-1 of 1

Property WINDFLOWER Project No. 224 Depth 96.93 Date Began AUG. 21/86  
 Hole No. WIN-21 Co.ord. 67.5 N Horizontal Length ..... Date Completed AUG. 22/86  
 Claim No. 12481 84W Core Size N.Q. Drilled By DIAMOND M DRILLING  
 Grid No. .... Angle & Direction 68° N147°W Elevation ..... Logged By P. J. D. So  
9019 Drilling

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
	SLUDGE SAMPLES								
		6.40	10.97	4.57	44347	2.30			
		10.97	14.32	3.35	44348	.80			
		14.32	17.37	3.05	44349	.60			
		17.37	20.42	3.05	45713	.45			
		20.42	23.96	3.54	45714	.45			
		23.96	26.52	2.56	15	.65			
		26.52	29.57	3.05	16	2.10			
		29.57	32.61	3.04	17	.45			
		32.61	35.66	3.05	18	.15			
		35.66	38.71	3.05	19	.05			
		38.71	41.76	3.05	45720	.05			
		41.76	44.81	3.05	21	.05			
		44.81	47.85	3.04	22	.05			
		47.85	50.90	3.05	23	.55			
		50.90	53.95	3.05	24	.50			
		53.95	57.00	3.05	25	.45			
		57.00	60.05	3.05	26	1.85			
		60.05	63.09	3.04	27	1.80			
		63.09	66.14	3.05	28	.65			
		66.14	69.19	3.05	29	.50			
		69.19	72.24	3.05	45730	4.30			
		72.24	75.29	3.05	31	7.50			
		75.29	78.33	3.04	32	1.50			
		78.33	81.38	3.05	33	.80			
		81.38	84.43	3.05	34	.55			
		84.43	87.48	3.05	35	.80			
		87.48	90.53	3.05	36	1.30			
		90.53	93.57	3.04	37	.65			
		93.57	96.62	3.05	38	.95			
		96.62							
					F.O.H.				

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-1 OF 2

Property WINDFLOWER Project No. 224 Depth 74.06 Date Began Aug. 23/86  
 Hole No. WIN-22 Co. ord. 1144 Horizontal Length ..... Date Completed Aug. 27/86  
 Claim No. L-12481 88W Core Size 1.2 Drilled By D.M.D.  
 Grid No. .... Angle & Direction -57° 535' E Elevation 1992.60 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 6.40	CASING	CORE SAMPLES							
6.40 - 21.6	BRECCIATED GRAPHITIC ARGILLITE FAULT Gouge @ 17.06	18.59	19.20	0.61	247	.79	1.5		
		19.20	19.81	0.61	245	.15	2.3		
		19.81	20.42	0.61	246	.21	2.6		
		20.42	21.03	0.61	247	.10	2.0		
		21.03	21.64	0.61	248	.12	1.8		
21.6 - 25	QUARTZ VEIN & GRAPHITIC ARGILLITE SHEARED - trace Pyrite. 22.7-23.16 Lost Core	21.64	22.40	0.76	249	.18	1.0		
		22.40	22.70	0.30	250	.17	2.6		
		22.70	23.16	0.46	Lost Core				
		23.16	23.68	0.52	251	.31	1.4		
25 - 37.58	SHEARED GRAPHITIC ARGILLITE Brecciated in Pz-15.	23.68	24.69	1.01	252	.06	2.5		
		24.69	27.49	2.8	waste				
		27.49	28.1	0.61	253	.06	1.1		
37.58 - 38.7	STRONGLY SHEARED GRAPHITIC ARGILLITE & QUARTZ VEIN trace Pyrite	28.1	28.71	0.61	254	.36	1.5		
		28.71	39.32	0.61	255	.37	1.5		
		39.32	40.08	0.76	256	.56	2.0		
38.7 - 40.08	SHEARED GRAPHITIC ARGILLITE	40.08	40.54	0.46	257	.44	1.0		
40.08 - 46.02	QUARTZ VEIN & SULPHIDES SOME ARGILLITE Sections. trace to horizontal sulphide. 40.84-41.3 Sulphide - Near Sulphide - Pyrite. 43.23-44.28 Blocks of SPHALERITE	40.54	41.15	0.61	258	10.80	6.9	0.71m	7.91 g/t
		41.15	41.45	0.30	259	2.03	5.8		
		41.45	42.06	0.61	260	.56	3.2		
		42.06	42.67	0.61	261	.67	1.5		
		42.67	43.13	0.46	262	.44	1.3		
		43.13	43.74	0.61	263	.08	.6		
		43.74	44.35	0.61	264	.35	1.7		
40.02 - 48.92	GRAPHITIC ARGILLITE	44.35	44.80	0.45	265	1.10	1.8		
		44.80	45.26	0.46	266	.55	3.5		
48.92 - 49.83	GRAPHITIC ARGILLITE & QUARTZ VEINING trace Pyrite	45.26	46.02	0.76	267	.92	2.1		
		46.02	46.63	0.61	268	.16	1.6		
49.83 - 52.12	GRAPHITIC ARGILLITE	46.63	47.24	0.61	269	.03	.1		
		47.24	48.92	1.68	waste				
52.12 - 62.18	ARGILLACEOUS PHYLLITE - GRAPHITIC ARGILLITE	48.92	49.37	0.45	270	.21	3.0		
		49.37	49.83	0.46	271	.08	1.3		
62.18 - 62.8	FAULT GouGE	49.83	74.06	24.23	waste				
62.8 - 64.16	GRAPHITIC ARGILLITE	FE. O. II.							
64.16 - 66.60	BADLY BROKEN GRAPHITIC ARGILLITE (FAULT ZONE) associated quartz veins trace Pyrite.								
66.60 - 67.36	MARBLE								

**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-2 OF 2

Property WINDFLOWER Project No. 224 Depth 74.06 Date Began Aug 23/86  
 Hole No. WIN-22 Coord. 114 N Horizontal Length ..... Date Completed 11 24  
 Claim No. L-12481 88 W Core Size NQ Drilled By DMO  
 Grid No. .... Angle & Direction -57° 53' S 12° E Elevation ..... Logged By PT

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
67.30-74.06	GRAPHITIC ARGILLITE with ARGILLACEOUS PHYLLITE sections INTERLAYERED								
67.97-68.58	FAULT Surface								
73.91-74.06	MARBLE with 1% disseminated Pyrite.								
	ACID TEST @ 74.06 = 56° 30'								
	HOLE CEMENTED.								
	CASING PULLED.								





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Property WINDFLOWER Project No. 224 Depth 74.06 Date Began Aug. 23/06  
 Hole No. WIN-22 Co ord. 114 N Horizontal Length ..... Date Completed Aug. 24/06  
 Claim No. 12481 80W Core Size H.Q. Drilled By Diamond M Drillings  
 Grid No. .... Angle & Direction -57°53'5"E Elevation ..... Logged By P.J.D.90

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
	SLUDGE SAMPLES								
		6.4	10.47	4.57	45900	.05			
		10.97	14.02	3.05	901	.05			
		14.02	17.07	3.05	902	.05			
		17.07	20.12	3.05	903	.05			
		20.12	23.16	3.04	904	.15			
		23.16	26.21	3.05	05	.05			
		26.21	29.26	3.05	06	.05			
		29.26	32.31	3.05	07	.05			
		32.31	35.36	3.05	08	.05			
		35.36	38.40	3.04	09	.05			
		38.40	41.45	3.05	45910	.05			
		41.45	44.50	3.05	11	.45			
		44.50	47.55	3.05	12	.25			
		47.55	50.59	3.04	13	.05			
		50.59	53.64	3.05	14	.10			
		53.64	56.69	3.05	15	.05			
		56.69	59.74	3.05	16	.05			
		59.74	62.79	3.05	17	.05			
		62.79	65.84	3.05	18	.05			
		65.84	68.88	3.04	19	.05			
		68.88	71.93	3.05	45920	.05			
		71.93	74.07	3.05	21	.05			
		74.07							

# GRANGES EXPLORATION LTD. DIAMOND DRILL LOG

P-1 of 2

Property WINDFLOWER Project No. 224 Depth 101.49 Date Began AUG. 24/80  
 Hole No. W10-23 Co. ord. 114N Horizontal Length \_\_\_\_\_ Date Completed AUG. 25/80  
 Claim No. L-12481 \_\_\_\_\_ 88W Core Size 1/2 Drilled By D. M. D.  
 Grid No. \_\_\_\_\_ Angle & Direction -77° S 35° E Elevation 1992.60 Logged By P. J. D.

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 6.40	CASING		CORE			gwt	PPM		
6.40 - 51.81	GRAPHITIC ARGILLITE	7.77	8.53	0.76	272	.03	.5		
	Sections containing gtz stringers & veinlets.	8.53	14.87	6.34	waste				
	Calcareous. Trace Pyrite.	14.87	16.00	1.13	273	.03	.8		
		16.00	17.68	1.68	ARGITE				
		17.68	17.98	0.30	274	.03	1.3		
	7.78 - 8.53 Broken gtz vein	17.98	26.67	8.69	waste				
	14.87 - 16.00 gtz Veining	26.67	27.43	0.76	275	.04	1.5		
	17.68 - 17.98 Irregular Pyrite stringers.	27.43	32.61	5.18	waste				
	26.67 - 27.43 Scattered gtz stringers with Pyrite blebs.	32.61	32.92	0.31	276	.36	1.9		
	32.61 - 32.92 TRACE to 10% Pyrite	32.92	38.95	6.03	waste				
	38.95 - 51.81 Scattered gtz Veining	38.95	39.77	0.82	277	.05	1.2		
	(45.11 - 45.41 white gtz vein with trace to 10% Pyrite blebs.	39.77	40.38	0.61	278	.07	.8		
	(40.38 - 40.84 Lost Core)	40.38	40.84	0.46	Lost Core				
	(42.52 - 43.28 Lost Core)	40.84	41.75	0.91	279	.12	1.0		
		41.75	42.52	0.77	280	.14	1.5		
51.81 - 56.69	MASSIVE WHITE QUARTZ VEIN	42.52	43.43	0.91	Lost Core				
	Scattered sections of well mineralized to near-solid	43.43	43.58	0.15	281	.19	1.9		
	Sulphide - Pyrite.	43.58	44.65	1.07	282	.09	1.5		
		44.65	45.11	0.46	283	.35	2.2		
56.69 - 58.80	MINERALIZED ENLARGED CALCITIC SCHIST with gtz & Pyrite	45.11	45.41	0.30	284	3.44	9.4		
	10% Pyrite.	45.41	45.72	0.31	285	.33	1.3		
	58.06 - 58.37 gtz calcite vein with diss. Py (5%)	45.72	46.17	0.45	286	.18	1.0		
		46.17	46.48	0.31	287	.15	1.2		
58.80 - 61.87	QUARTZ VEIN & NEAR SOLID SULPHIDE - PYRITE	46.48	47.09	0.61	288	.15	.8		
		47.09	47.85	0.76	289	.09	1.2		
61.87 - 63.87	BULL WHITE QUARTZ VEIN - TRACE Pyrite	47.85	48.46	0.61	290	.08	2.1		
		48.46	49.07	0.61	291	.4	1.7		
63.87 - 64.92	BULL WHITE QUARTZ VEIN & NEAR SOLID SULPHIDE - Pyrite	49.07	49.68	0.61	292	.10	1.4		
		49.68	50.29	0.61	293	.23	1.7		
64.92 - 65.99	ENLARGED CALCITIC SCHIST & NEAR SOLID SULPHIDE - PY (fine grained)	50.29	50.90	0.61	294	.54	2.4		
		50.90	51.20	0.30	295	.31	2.4		
		51.20	51.81	0.61	296	.14	3.1		
65.99 - 69.19	WHITE QUARTZ VEIN with TRACE Pyrite	51.81	52.73	0.92	297	.82	1.0		
		52.73	53.18	0.45	298	10.50	5.2		
	@ 68.79 TRACE SPHALERITE & GALENA.	53.18	53.64	0.46	299	2.42	3.2		
		53.64	54.10	0.46	300	2.99	6.3	2.29%	5.51g/t
69.19 - 70.80	GRAPHITIC ARGILLITE with gtz veinlets	54.10	54.56	0.46	301	6.71	7.1		
	Trace Pyrite.	54.56	55.01	0.45	302	5.01	8.2		
		55.01	55.47	0.46	303	1.26	5.7		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

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Property WINDFLOWER Project No. 224 Depth ..... Date Began .....

Hole No. WIN-23 Co. ord. .... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
70.86 - 72.84	DOLOMITE & GRAPHITIC ARGILLITE with qty stringers. Trace Pyrite.	55.47	55.93	0.46	304	.24	1.0		
		55.93	56.39	0.46	305	.35	1.0		
		56.39	57.15	0.76	306	3.89	8.0	1.21m	2.89g/t
		57.15	57.60	0.45	307	1.20	4.8		
72.84 - 89.76	GRAPHITIC ARGILLITE Calcereous, scattered qty stringers Narrow sections of Marble - some Fuchsite.	57.60	58.06	0.46	308	.62	4.7		
		58.06	58.82	0.76	309	.56	5.1		
		58.82	59.28	0.46	310	3.06	5.8		
		59.28	59.74	0.46	311	1.12	1.8		
		59.74	60.04	0.30	312	1.62	7.2		
		60.04	60.65	0.61	313	12.80	4.1	3.05m	4.99 g/t
60.65	61.41	0.76	314	.96	1.2	INCL.:			
61.41	61.87	0.46	315	8.55	9.6	1.83m	6.81 g/t		
89.76 - 90.52	GREY QUARTZ VEIN	61.87	62.48	0.61	316	.12	.1		
		62.48	63.07	0.61	317	.11	.1		
		63.07	63.61	0.54	318	.03	.1		
		63.61	64.01	0.40	319	6.29	6.4		
90.52 - 101.49	DOLOMITE - MARBLE Fuchsite. Trace Pyrite. F.O.H.	64.01	64.61	0.60	320	.48	.4		
		64.61	65.38	0.77	321	6.69	5.3	2.38m	4.62 g/t
		65.38	65.99	0.61	322	5.01	7.4		
		65.99	66.44	0.45	323	.24	.1		
		66.44	66.90	0.46	324	.09	.1		
		66.90	67.36	0.46	325	.03	.1		
		67.36	67.82	0.46	326	.07	.1		
		67.82	68.42	0.60	327	.13	.1		
		68.42	68.88	0.46	328	.57	25.7		
		68.88	69.19	0.31	329	.25	1.4		
		69.19	69.80	0.61	330	.22	2.0		
		69.80	70.41	0.61	331	.22	1.8		
		70.41	70.86	0.45	332	.05	1.8		
		70.86	89.21	18.35	waste				
89.21	89.76	0.55	333	.53	.2				
89.76	90.52	0.76	334	.04	.3				
90.52	91.13	0.61	335	.08	.4				
91.13	101.49	10.36	waste						
	F.O.H.								


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

Property WINDFLOWER Project No. 224 Depth 101.49 Date Began AUG. 24/84  
 Hole No. WIN - 23 Co ord. 114 N Horizontal Length \_\_\_\_\_ Date Completed Aug. 25/84  
 Claim No. 124 E1 \_\_\_\_\_ 88 W Core Size N.Q. Drilled By Diamond M. Drilling  
 Grid No. \_\_\_\_\_ Angle & Direction - 77° S35° E Elevation \_\_\_\_\_ Logged By P. J. Dole

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
	<u>SLUDGE SAMPLES</u>								
		<u>6.4</u>	<u>7.92</u>	<u>1.52</u>	<u>45739</u>	<u>.05</u>			
		<u>7.92</u>	<u>11.28</u>	<u>3.36</u>	<u>45740</u>	<u>.05</u>			
		<u>11.28</u>	<u>14.33</u>	<u>3.05</u>	<u>41</u>	<u>.05</u>			
		<u>14.33</u>	<u>17.38</u>	<u>3.05</u>	<u>42</u>	<u>.05</u>			
		<u>17.38</u>	<u>20.43</u>	<u>3.05</u>	<u>43</u>	<u>.05</u>			
		<u>20.43</u>	<u>23.47</u>	<u>3.04</u>	<u>44</u>	<u>.05</u>			
		<u>23.47</u>	<u>26.52</u>	<u>3.05</u>	<u>45</u>	<u>.05</u>			
		<u>26.52</u>	<u>29.57</u>	<u>3.05</u>	<u>46</u>	<u>.05</u>			
		<u>29.57</u>	<u>32.61</u>	<u>3.04</u>	<u>47</u>	<u>.05</u>			
		<u>32.61</u>	<u>35.66</u>	<u>3.05</u>	<u>48</u>	<u>.05</u>			
		<u>35.66</u>	<u>38.71</u>	<u>3.05</u>	<u>49</u>	<u>.05</u>			
		<u>38.71</u>	<u>41.76</u>	<u>3.05</u>	<u>45950</u>	<u>.05</u>			
		<u>41.76</u>	<u>44.81</u>	<u>3.05</u>	<u>45951</u>	<u>.05</u>			
		<u>44.81</u>	<u>47.85</u>	<u>3.04</u>	<u>52</u>	<u>.95</u>			
		<u>47.85</u>	<u>50.90</u>	<u>3.05</u>	<u>53</u>	<u>.30</u>			
		<u>50.90</u>	<u>53.95</u>	<u>3.05</u>	<u>54</u>	<u>1.10</u>			
		<u>53.95</u>	<u>57.00</u>	<u>3.05</u>	<u>55</u>	<u>1.10</u>			
		<u>57.00</u>	<u>60.05</u>	<u>3.05</u>	<u>56</u>	<u>1.45</u>			
		<u>60.05</u>	<u>62.69</u>	<u>3.04</u>	<u>57</u>	<u>5.55</u>			
		<u>62.69</u>	<u>66.14</u>	<u>3.05</u>	<u>58</u>	<u>2.10</u>			
		<u>66.14</u>	<u>69.19</u>	<u>3.05</u>	<u>59</u>	<u>.50</u>			
		<u>69.19</u>	<u>72.24</u>	<u>3.05</u>	<u>45960</u>	<u>.20</u>	<u>.20</u>		
		<u>72.24</u>	<u>75.29</u>	<u>3.05</u>	<u>61</u>	<u>.25</u>			
		<u>75.29</u>	<u>78.33</u>	<u>2.05</u>	<u>62</u>	<u>.25</u>			
		<u>78.33</u>	<u>81.38</u>	<u>3.05</u>	<u>63</u>	<u>.05</u>			
		<u>81.38</u>	<u>84.43</u>	<u>3.05</u>	<u>64</u>	<u>.05</u>			
		<u>84.43</u>	<u>87.48</u>	<u>3.05</u>	<u>65</u>	<u>.05</u>			
		<u>87.48</u>	<u>90.53</u>	<u>3.05</u>	<u>66</u>	<u>.05</u>			
		<u>90.53</u>	<u>93.57</u>	<u>3.04</u>	<u>67</u>	<u>.05</u>			
		<u>93.57</u>	<u>96.62</u>	<u>3.05</u>	<u>68</u>	<u>.05</u>			
		<u>96.62</u>	<u>99.67</u>	<u>3.05</u>	<u>69</u>	<u>.15</u>			
		<u>99.67</u>	<u>101.50</u>	<u>1.83</u>	<u>45970</u>	<u>.25</u>			


**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

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Property WINDFLOWER Project No. 224 Depth 105.51 Date Began Aug. 27/86  
 Hole No. WIN-24 Co. ord. 114 N Horizontal Length \_\_\_\_\_ Date Completed Aug. 28/86  
 Claim No. L 12481 88W Core Size N.Q. Drilled By D.M.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -89° 53'S E Elevation 1992.60 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0-6.4	RISING								
			CORE			g/MT	P.P.M.		
6.4-13.71	GRAPHITIC ARGILLITE	15.91	16.30	0.39	336	.07	.8		
	calcareous - scattered qtz stringers & veinlets.	16.30	16.91	0.61	337	.10	1.3		
	arrow dolomite sections	16.91	17.68	0.77	338	.03	1.2		
		17.68	18.89	1.21	339	.05	1.2		
		18.89	19.66	0.77	340	.09	1.1		
13.71-16.15	Dolomite	19.66	20.27	0.61	341	.21	1.6		
		20.27	21.49	1.22	Lost Core				
	16.00-16.15 qtz-rich	21.49	22.10	0.61	342	.11	1.0		
		22.10	40.5	0.61	waste				
16.15-20.88	GRAPHITIC ARGILLITE (21 above)	40.5	41.15	0.65	343	.04	1.2		
		41.15	41.97	0.82	waste				
20.88-21.49	FAULT SOUGE - CLAY - SAND	41.97	42.36	0.39	344	.03	.9		
		42.36	43.77	1.41	waste				
21.49-22.09	QUARTZ VEIN & GRAPHITIC ARGILLITE	43.77	44.50	0.73	345	.04	.9		
		44.50	47.79	3.29	waste				
		47.79	48.67	0.88	346	.10	1.4		
22.09-84.43	GRAPHITIC ARGILLITE with scattered qtz stringers & veinlets	48.67	49.83	1.16	waste				
	with narrow sections of ARGILLITE, Pyrite and Dolomite	49.83	50.29	0.46	347	.38	1.8		
	calcareous, trace Pyrite	50.29	51.02	0.73	waste				
		51.02	51.63	0.61	348	.61	2.0		
	20.27-21.49 Lost Core	51.63	52.73	1.10	waste				
	22.55-22.70 FAULT - CARB	52.73	53.28	0.55	349	.37	8.4		
	@ 55.47 REDUCED TO B.Q. Sized PDS.	53.28	57.70	4.42	waste				
	60.96-61.26 QUARTZ VEIN	57.70	58.21	0.45	350	.07	2.1		
	64.41-64.42 " "	58.21	58.98	0.77	351	.12	1.9		
	64.01-84.43 increase in qtz stringers & veinlets.	58.98	60.04	1.06	waste				
		60.04	60.80	0.76	352	.16	1.8		
		60.80	60.96	0.16	353	.03	1.4		
84.43-90.83	WHITE QUARTZ VEIN scattered Pyrite	60.96	64.01	3.05	waste				
	trace to 20% Pyrite as patches, blebs	64.01	64.16	0.15	354	.07	1.2		
		64.16	66.14	1.98	waste				
89.30-90.83	GRAPHITIC ARGILLITE & qtz with	66.14	67.65	0.91	355	.09	1.7		
	sections of Near-silic Pyrite	67.65	67.97	0.92	356	.06	1.6		
90.52-90.83	2.54 cm qtz & H.S.S. stringer Pyrite	67.97	68.88	0.91	357	.08	1.2		
	nearly parallel to core	68.88	69.80	0.92	358	.09	2.2		
		69.80	70.71	0.91	359	.07	1.6		
		70.71	82.45	11.74	waste				
90.83-94.64	GRAPHITIC ARGILLITE	82.45	83.36	0.40	360	.21	1.7		
	calcareous, brecciated, qtz stringers	83.36	83.82	0.46	361	.05	1.8		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-2 of

Property... WINDFLOWER Project No. 224 Depth ..... Date Begun .....

Hole No. WLN-24 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET / METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
94.64 - 96.62	MARBLE WITH GRAPHITIC ARGILLITE	83.82	84.43		362	.13	2.7		
		84.43	84.88		363	.50	1.9		
		84.88	85.34		364	.06	.5		
96.62 - 102.4	GRAPHITIC ARGILLITE	85.34	85.80		365	.09	2.5		
		85.80	86.26		366	.03	1.0		
		86.26	86.87		367	.19	1.4		
102.4 - 108.51	SAND - SNGR	86.87	87.32	.45	368	2.17	3.7	} 0.91m	15.02 g/t
		87.32	87.78	.46	369	27.60	14.0		
		87.78	88.24	.46	370	.79	2.8		
<u>Foot.</u>	108.35 - 1	88.24	88.69	.45	371	.25	1.5		
		88.69	89.30	.61	372	.23	1.9		
		89.30	89.76	.46	373	.05	5.7		
	ACID @ 99.36 = 89°	89.76	90.22	.46	374	2.21	6.6	} 0.92m	1.63 g/t
		90.22	90.68	.46	375	1.06	5.9		
		90.68	91.13		376	.62	2.3		
	HOLE CEMENTED	91.13	91.74		377	.21	2.4		
		91.74	93.57		waste				
		93.57	94.18		378	.09	1.8		
	CASING PULLED	94.18	96.37		waste				
		96.31	96.62		379	.07	1.7		
		96.62	102.71		waste				
		102.71	105.40		380	.50	2.6		
		105.40	108.51		381	.34	2.1		



**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

Property WINDFLOWER Project No. 224 Depth 108.51 Date Began Aug. 27/86  
 Hole No. WIN-24 Coord. 114 N Horizontal Length \_\_\_\_\_ Date Completed Aug. 28/86  
 Claim No. L-124 E1 88W Core Size 1/4" Drilled By D.M.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -89° 53'S E Elevation -89° 53'S E Logged By P.J.D.

INTERVAL FEET / METRES	DESCRIPTION <u>SLUGS</u>	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
	<u>SLUGS</u>								
		<u>6.40</u>	<u>11.27</u>	<u>4.87</u>	<u>45971</u>	<u>.02</u>			
		<u>11.27</u>	<u>14.32</u>	<u>3.0</u>	<u>45972</u>	<u>.02</u>			
		<u>14.32</u>	<u>17.37</u>	<u>3.0</u>	<u>73</u>	<u>.02</u>			
		<u>17.37</u>	<u>20.42</u>	<u>3.0</u>	<u>74</u>	<u>.02</u>			
		<u>20.42</u>	<u>23.47</u>	<u>3.0</u>	<u>75</u>	<u>.09</u>			
		<u>23.47</u>	<u>26.51</u>	<u>3.0</u>	<u>76</u>	<u>.12</u>			
		<u>26.51</u>	<u>29.54</u>	<u>3.0</u>	<u>45978</u>	<u>.13</u>			
		<u>29.54</u>	<u>32.61</u>	<u>3.0</u>	<u>79</u>	<u>.35</u>			
		<u>32.61</u>	<u>35.66</u>	<u>3.0</u>	<u>45980</u>	<u>.27</u>			
		<u>35.66</u>	<u>38.71</u>	<u>3.0</u>	<u>81</u>	<u>.39</u>			
		<u>38.71</u>	<u>41.76</u>	<u>3.0</u>	<u>82</u>	<u>.28</u>			
		<u>41.76</u>	<u>44.81</u>	<u>3.0</u>	<u>83</u>	<u>.10</u>			
		<u>44.81</u>	<u>47.85</u>	<u>3.0</u>	<u>84</u>	<u>.28</u>			
		<u>47.85</u>	<u>50.90</u>	<u>3.0</u>	<u>85</u>	<u>.35</u>			
		<u>50.90</u>	<u>53.95</u>	<u>3.0</u>	<u>86</u>	<u>.54</u>			
		<u>53.95</u>	<u>57.0</u>	<u>3.0</u>	<u>87</u>	<u>.32</u>			
		<u>57.0</u>	<u>60.05</u>	<u>3.0</u>	<u>88</u>	<u>.06</u>			
		<u>60.05</u>	<u>63.09</u>	<u>3.0</u>	<u>89</u>	<u>.17</u>			
		<u>63.09</u>	<u>66.14</u>	<u>3.0</u>	<u>45990</u>	<u>.02</u>			
		<u>66.14</u>	<u>69.19</u>	<u>3.0</u>	<u>91</u>	<u>.04</u>			
		<u>69.19</u>	<u>75.28</u>	<u>6.09</u>	<u>92</u>	<u>.02</u>			
		<u>75.28</u>	<u>81.38</u>	<u>6.1</u>	<u>93</u>	<u>.02</u>			
		<u>81.38</u>	<u>93.27</u>	<u>11.89</u>	<u>Not Recd</u>				
		<u>93.27</u>	<u>96.31</u>	<u>3.0</u>	<u>45994</u>	<u>.25</u>			
		<u>96.31</u>	<u>99.36</u>	<u>3.0</u>	<u>95</u>	<u>.47</u>			
		<u>99.36</u>	<u>102.41</u>	<u>3.0</u>	<u>96</u>	<u>.17</u>			
		<u>102.41</u>	<u>105.46</u>	<u>3.0</u>	<u>97</u>	<u>.86</u>			
		<u>105.46</u>	<u>108.51</u>	<u>3.0</u>	<u>45998</u>	<u>.05</u>			
					<u>F.O.H.</u>				


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

Property WINDFLOWER Project No. 224 Depth 95.70 Date Began Aug. 22/89  
 Hole No. WIN-25 Co. ord. 145.5 W Horizontal Length 65.26 Date Completed Aug. 30/89  
 Claim No. L-5655 30.7 N Core Size N.Q. Drilled By D.M.D.  
 Grid No. Angle & Direction 43° E Elevation 1999.0 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 15.5	CASING								
15.5 - 21.64	ARGILLACEOUS PHYLLITE - ARGILLITE WITH GRAPHITE calcareous, add glz stringer.	27.98	28.65	0.67	382	.28	1.9		
		28.65	29.26	0.61	383	.12	1.8		
		29.26	29.56	0.30	384	4.42	13.0	0.73m	3.62g/l
		29.56	29.99	0.43	385	3.06	.8		
21.64 - 29.26	GRAPHITIC ARGILLITE calcareous - add glz stringer	29.99	30.48	0.49	386	.72	1.5		
		30.48	31.09	0.61	387	.22	1.1		
	27.98 - 29.26 glz stringers & nodules.	31.09	31.70	0.61	388	.04	.9		
		31.70	32.31	0.61	389	.09	.9		
		32.31	34.44	2.13	waste				
29.26 - 29.99	GREY - WHITE QUARTZ VEIN with Sulphides - Pyrite. hanging wall contact very sharp	34.44	35.05	0.61	390	.07	.8		
		35.05	35.51	0.46	391	.03	.9		
		35.51	51.97	16.46	waste				
	29.26 - 29.50 Well mineralized - dark solid Sulphide - Pyrite trace sphalerite	51.97	53.64	1.67	392	.04	1.0		
	29.56 - 29.99 white - grey glz vein - trace Pyrite	53.64	54.40	0.76	393	.05	1.0		
		54.40	55.50	1.10	waste				
		55.50	56.69	1.13	394	.04	1.0		
29.99 - 32.3	STRONGLY SILICEOUS MARBLE & QUARTZ VEINING calcareous, trace Pyrite	56.69	58.82	3.26	waste				
		58.82	60.04	1.22	395	.03	1.0		
		60.04	62.48	2.74	waste				
		62.48	63.40	0.92	396	.08	1.2		
32.3 - 70.71	Slightly SILICEOUS ARGILLACEOUS DOLOMITE scattered glz stringers - trace Pyrite	63.40	64.92	1.52	waste				
		64.92	65.38	0.46	397	.07	1.6		
		65.38	65.83	0.45	398	.06	1.6		
	34.44 - 35.51 glz stringers with trace Pyrite.	65.83	66.14	0.31	399	.03	1.1		
	64.92 - 66.14 Irregular glz vein with Galena & Pyrite	66.14	67.30	1.16	400	.03	1.2		
	65.38 - 65.83 Graphitic nodules	67.30	70.71	3.41	waste				
	66.14 - 67.30 scattered glz nodules.	70.71	71.32	0.61	401	.06	1.7		
		71.32	71.93	0.61	402	.03	.9		
		71.93	72.54	0.61	403	.11	.9		
70.71 - 74.06	QUARTZ VEIN & DOLOMITE - MARBLE TRACE PYRITE	72.54	73.15	0.61	404	.03	1.3		
	73.70 - 74.06 Fuchsite	73.15	74.06	0.91	405	.06	1.1		
		74.06	74.67	0.61	406	.10	1.6		
		74.67	75.50	0.83	407	.05	1.8		
74.06 - 76.72	Slightly MINERALIZED QUARTZ VEIN & GRAPHITIC ARGILLITE Fuchsite, TR to 2% Pyrite	75.50	75.80	0.30	408	.05	1.8		
		75.80	79.55	3.75	waste				
	BLEBS OF SPHALERITE	79.55	79.85	0.30	409	.05	1.3		
	TRACE GALENA	79.85	81.07	1.23	waste				
		81.07	81.38	0.31	410	.05	1.6		




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

Property WINDFLOWER Project No. 224 Depth 95.70 Date Began .....

Hole No. WIN-25 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. L-5655 Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
76.72 - 77.87	BARRELATED ARGILLACEOUS DOLOMITE & GRANITIC ARGILLITE	81.38	82.75	1.37	waste				
		82.75	83.51	0.76	411	.52	2.1		
		83.51	84.24	0.73	waste				
77.87 - 79.55	DOLOMITE - MARBLE	84.24	84.88	0.64	412	.31	2.4		
		84.88	85.34	0.46	413	.30	2.2		
		85.34	86.10	0.76	414	.26	1.4		
79.55 - 79.85	QUARTZ VEIN	86.10	86.50	0.40	415	.03	1.8		
		86.50	90.74	4.24	waste				
		90.74	91.44	0.70	416	.09	1.3		
79.85 - 95.7	GRANITIC ARGILLITE WITH QUARTZ STRINGS & VEINETS	91.44	92.05	0.61	waste				
		92.05	92.35	0.30	417	.04	1.4		
		92.35	95.70	3.35	waste				
<u>F.O.H.</u>	old SPEC SPHALERITE NARROW ARGILLACEOUS PHYLLITE STRIPS TRACE PYRITE								
					<u>SLUGS</u>				
		15.54	20.11	4.57	45922	.02			
		20.11	23.10	3.0	23	.02			
		23.10	26.21	3.0	24	.02			
		26.21	29.26	3.0	25	.02			
		29.26	32.31	3.0	26	.95			
		32.31	35.35	3.0	27	.24			
		35.35	38.40	3.0	28	.14			
		38.40	41.45	3.0	29	.03			
		41.45	44.50	3.0	45930	.09			
		44.50	47.55	3.0	31	.02			
		47.55	50.59	3.0	32	.07			
		50.59	53.64	3.0	33	.12			
		53.64	56.69	3.0	34	.16			
		56.69	59.74	3.0	35	.19			
		59.74	62.79	3.0	36	.06			
		62.79	65.83	3.0	37	.18			
		65.83	68.88	3.0	38	.12			
		68.88	71.93	3.0	39	.11			
		71.93	78.03	6.1	45940	.08			
		78.03	81.07	3.0	41	.12			
		81.07	84.12	3.0	42	.68			
		84.12	87.17	3.0	43	.37			
		87.17	90.22	3.0	44	.15			
		90.22	93.27	3.0	45	.10			
		93.27	95.70	2.43	45940	.19			


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

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Property WINDFLOWER Project No. 227 Depth 118.87 Date Began Aug. 30/86  
 Hole No. W.V. - 24 Co ord. 30.7 N Horizontal Length 26.73 Date Completed Sept. 1/86  
 Claim No. L-5655 145.5 W Core Size N.O. Drilled By D.M.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -77° E Elevation 1999.0 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 6.40	CASING					9/MT	RRM		
6.4 - 8.99	DOLOMITE	56.39	56.69	0.3	418	.07	4.3		
8.99 - 56.39	ARGILLACEOUS PHYLLITE scattered gls stringers & concretions. old unconsolidated section of Dolomite-marble.	56.69	58.21	1.52	white				
		58.21	58.82	0.61	419	.49	4.1		
		58.82	59.43	0.61	420	.25	2.8		
		59.43	60.04	0.61	421	1.16	4.0		
		60.04	60.65	0.61	422	.67	2.0		
		60.65	61.26	0.61	423	.58	2.0		
56.39 - 58.21	SAND & GRAVEL (FAULT ZONE) 56.69 - 57.91 lost core.	61.26	61.57	0.31	424	1.04	2.6		
		61.57	62.18	0.61	425	.83	1.9		
		62.18	62.79	0.61	426	3.29	3.0	1.83m	2.01g/r
58.21 - 62.49	QUARTZ VEIN & GRAPHITIC ARGILLITE trace pyrite, not spec sphalerite, galena.	62.79	63.40	0.61	427	.54	2.1		
		63.40	64.01	0.61	428	2.30	2.9		
		64.01	64.61	0.60	429	.34	2.6		
62.49 - 76.04	CALCAREOUS GRAPHITIC ARGILLITE scattered gls stringers. 75.59 - 76.04 gls chimney.	64.61	65.22	0.61	430	.80	1.6		
		65.22	65.83	0.61	431	.43	1.8		
		65.83	66.44	0.61	432	.57	1.6		
		66.44	67.05	0.61	433	.39	1.7		
76.04 - 80.40	SILICEOUS DOLOMITE - MARBLE with gls concretions. Trace Pyrite yellow carbonaceous alteration.	67.05	67.66	0.61	434	.14	1.6		
		67.66	68.27	0.61	435	.18	2.0		
		68.27	68.88	0.61	436	.07	1.5		
80.40 - 82.60	SLIGHTLY MINERALIZED STRONGLY SILICEOUS DOLOMITE - MARBLE Trace to 20% Pyrite fine & coarse. Carbonate often to yellow color.	68.88	69.49	0.61	437	.04	2.3		
		69.49	69.80	0.31	438	.34	2.4		
		69.80	75.59	5.79	white				
		75.59	76.75	1.16	439	.11	2.2		
82.60 - 85.34	MINERALIZED GRAPHITIC ARGILLITE - ALTERED ARGILLACEOUS DOLOMITE - ARGILLACEOUS PHYLLITE and QUARTZ VEINING Trace to 20% Pyrite in parts.	76.75	80.40	3.71	white				
		80.40	81.07	0.61	440	.24	1.6		
		81.07	81.68	0.61	441	.05	1.7		
		81.68	82.29	0.61	442	.15	2.0		
		82.29	82.90	0.61	443	.62	2.5		
85.34 - 95.40	GRAPHITIC ARGILLITE with sections of gls stringers & concretions. old unconsolidated section Dolomite.	82.90	83.51	0.61	444	.28	3.5		
		83.51	84.12	0.61	445	.23	2.6		
		84.12	84.73	0.61	446	.28	2.9		
95.4 - 102.26	QUARTZ VEINING - ARGILLACEOUS PHYLLITE - GRAPHITIC ARGILLITE Trace Pyrite calcareous.	84.73	85.34	0.61	447	.29	2.5		
		85.34	88.54	3.2	white				
		88.54	89.21	0.67	448	.24	2.4		
102.26 - 107.44	GRAPHITIC ARGILLITE - ARGILLACEOUS PHYLLITE with scattered gls stringers & concretions. calcareous.	89.21	91.53	2.32	white				
		91.53	92.20	0.67	449	.08	1.8		
		92.20	95.4	0.67	white				
		95.4	96.01	0.61	450	.13	2.2		

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

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Property WINDFALLS Project No. 224 Depth ..... Date Begun .....

Hole No. WIN - 20 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	CORRE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
107.44-108.20	Quartz vein with sections of Dolomite	96.01	96.62	0.61	451	.30	1.3		
		96.62	97.23	0.61	452	2.24	1.8		
		97.23	97.84	0.61	453	.44	2.5		
108.20-118.87	Granitic Argillite - Argillaceous Phyllite with Dolomite sections	97.84	98.45	0.61	454	.43	2.2	3.05	1.05g/T
		98.45	99.06	0.61	455	1.00	1.6		
		99.06	99.67	0.61	456	1.16	1.4		
		99.67	100.20	0.61	457	.19	1.3		
	<u>Scattered thin stringers &amp; dendrites.</u> <u>Trace Pyrite</u>	100.20	100.89	0.61	458	.31	1.5		
		100.89	101.50	0.61	459	.35	1.9		
	109.73 - 110.33 thin Veining & Dolomite	101.50	102.11	0.61	460	.38	1.7		
	111.80 - 113.68 thin stringers & Veining	102.11	102.41	0.30	461	1.75	2.4		
		102.41	104.12	1.71	462	.41	2.3		
		104.12	106.98	2.86	waits				
		106.98	107.44	0.46	463	.30	2.5		
		107.44	108.20	0.76	464	.11	.9		
		108.20	109.73	1.53	waits				
		109.73	110.40	0.67	465	.10	1.5		
		110.40	111.80	1.40	waits				
		111.80	112.47	0.61	466	.27	2.6		
		112.47	113.08	0.61	467	.07	2.0		
					E.O.D.				
					SLUGS				
		6.4	11.27	4.87	45947	.02	.5		
		11.27	14.32	3.0	45948	.02	.5		
		14.32	17.37	3.0	45949	.02	.5		
		17.37	20.42	3.0	751	.02	.5		
		20.42	23.47	3.0	752	.02	.5		
		23.47	29.56	6.1	753	.02	.5		
		29.56	32.61	3.0	754	.02	1.0		
		32.61	35.66	3.0	755	.02	.5		
		35.66	41.75	6.1	756	.02	.5		
		41.75	44.80	3.0	757	.02	.5		
		44.80	47.85	3.0	758	.02	1.0		
		47.85	50.90	3.0	759	.02	.5		
		50.90	53.95	3.0	760	.02	.5		
		53.95	56.99	3.0	761	.03	3.0		
		56.99	60.04	3.0	762	.29	4.5		
		60.04	63.09	3.0	763	.47	2.5		
		63.09	66.14	3.0	764	.52	3.5		
		66.14	69.19	3.0	765	.44	4.5		



P-3 OF 3

Property . WINDFLOWER ..... Project No. 224 ..... Depth ..... Date Began .....  
 Hole No. W12-26 ..... Co ord. .... Horizontal Length ..... Date Completed .....  
 Claim No. .... Core Size ..... Drilled By .....  
 Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION SLUDGES	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		69.19	72.23	3.04	766	.32	3.0		
		72.23	75.28	3.0	767	.39	2.5		
		75.28	78.33	3.0	768	1.16	2.5		
		78.33	81.38	3.0	769	1.13	2.0		
		81.38	84.43	3.0	770	.45	3.0		
		84.43	90.52	6.1	771	1.45	2.5		
		90.52	93.57	3.0	772	.30	2.5		
		93.57	96.62	3.0	773	.68	1.5		
		96.62	99.67	3.0	774	.47	2.0		
		99.67	102.71	3.0	775	1.15	2.5		
		102.71	105.76	3.0	776	.74	2.0		
		105.76	108.81	3.0	777	.33	1.0		
		108.81	111.86	3.0	778	.37	1.0		
		111.86	114.91	3.0	779	.26	1.5		
		114.91	117.95	3.0	780	.20	2.5		
					<u>E.O. II.</u>				


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-1 012

Property WINDFLOWER Project No. 227 Depth 134.11 Date Began Sept. 1/86  
 Hole No. WIN-27 Co ord. 605 Horizontal Length 18.66 Date Completed Sept. 3/86  
 Claim No. L5655 144.5 W Core Size N.O. Drilled By D. M. D.  
 Grid No. \_\_\_\_\_ Angle & Direction -82° 56' E Elevation \_\_\_\_\_ Logged By P. J. D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 3.96	CASINGS								
3.96 - 5.03	Limy ARGILLACEOUS PHYLLITE with scattered gtz stringers.	18.87	19.50	0.61	468	.05	1.2		
		19.50	23.92	4.42	waste				
		23.92	24.29	0.37	469	.10	.9		
5.03 - 10.97	DOLOMITE - MARBLE with scattered gtz stringers & Venoles.	24.29	34.96	10.67	waste				
		34.96	35.14	0.18	470	.03	1.1		
10.97 - 43.43	Limy ARGILLACEOUS PHYLLITE & GREY PHYLLITE scattered gtz stringers & Venoles. Narrow Argillaceous sections old narrow Dolomite - marble sections. SPITTED FOLDS & CRUMPLED.	35.14	44.04	8.90	waste				
		44.04	44.44	0.40	471	.15	1.1		
		44.44	45.23	0.79	472	.15	2.3		
		45.23	46.63	1.40	473	.10	2.1		
		46.63	47.30	0.67	474	.13	2.0		
		47.30	54.04	10.74	WASTE				
	18.87 - 19.50 white - gray gtz vein - stained	54.04	54.52	0.52	475	.14	1.2		
	23.92 - 24.29 " - " " " - "	54.52	55.17	0.61	476	.05	1.2		
	34.74 - 34.90 " - " " " - "	55.17	55.65	0.48	WASTE				
		55.65	56.08	0.43	477	.07	2.0		
		56.08	56.99	0.91	478	.12	2.2		
43.43 - 45.26	DOLOMITE - MARBLE with scattered gtz stringers & Venoles.	56.99	57.76	0.77	479	.09	1.8		
		57.76	57.91	0.15	480	.04	1.8		
	43.87 - 44.44 white - gray gtz vein.	57.91	58.52	0.61	waste				
	44.44 - 45.23 laminated with Pyrite (5%) fine gtz.	58.52	59.43	0.91	481	.06	1.4		
		59.43	61.17	0.79	waste				
		61.17	61.96	0.79	482	.03	.9		
45.26 - 54.04	Limy ARGILLITE (+ GRAPHITE) & Dolomite with gtz stringers.	61.96	63.09	1.13	483	.04	1.3		
		63.09	64.37	1.28	waste				
		64.37	64.77	0.40	484	.07	1.3		
54.04 - 55.17	MARBLE & QUARTZ VEINING - trace to 2% Pyrite.	64.77	73.76	8.99	waste				
		73.76	73.97	0.21	485	.13	1.9		
		73.97	75.65	1.68	waste				
55.17 - 57.60	GRAPHITE ARGILLITE	75.65	75.95	0.30	486	.15	2.0		
		75.95	79.85	3.90	waste				
	55.78 - 56.08 gtz vein & Graphite Argillite with Pyrite (1%) De calcite in gtz	79.85	80.46	0.61	487	.05	1.3		
		80.46	82.60	2.14	waste				
		82.60	83.06	0.46	488	.12	1.0		
57.60 - 60.96	MARBLE - scattered gtz stringers - trace Pyrite.	83.06	100.28	17.22	waste				
		100.28	101.31	1.03	489	.04	1.5		
		101.31	101.92	0.61	490	.03	1.2		
60.96 - 65.75	GRAPHITE ARGILLITE scattered Pyrite stringers & spec. & gtz stringers. @ 63.85 - 2.54 cm MED ZONE.	101.92	102.71	0.79	491	.03	.9		
		102.71	103.32	0.61	492	.06	.8		
		103.32	103.93	0.61	493	.04	1.2		

# GRANGES EXPLORATION LTD. DIAMOND DRILL LOG

P-2 of 2

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....  
 Hole No. W.N.-27 Co.ord. .... Horizontal Length ..... Date Completed .....  
 Claim No. .... Core Size ..... Drilled By .....  
 Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
65.75 - 71.63	Limy Grey Phyllite well foliated odd glz stringers, some Argillaceous sections	103.93	104.54	0.61	494	.03	1.1		
		104.54	105.24	0.70	495	.05	1.2		
		105.24	106.37	1.13	waste				
		106.37	106.98	0.61	496	.08	1.4		
71.63 - 107.99	Limy Graphitic Argillite with scattered glz stringers. minor argillaceous Phyllite sections. scattered pyrite stringers & spots. @ 73.91 - 2.54 cm Band of Pyrite Bldgs in glz @ 75.77 - 1.27 cm " " " " " " 76.65 - 77.20 Grey glz vein 82.60 - 83.06 " " "	106.98	107.92	0.94	497	.05	1.8		
		107.92	108.35	0.43	498	.04	2.2		
		108.35	109.27	0.92	499	.14	1.6		
		109.27	111.10	1.83	waste				
		111.10	111.55	0.45	500	.04	1.4		
		111.55	112.10	0.55	501	.24	6.8		
107.99 - 116.64	SILICIFIED DOLOMITE - MARBLE with Argillaceous sections. glz stringers, trace - 1% Pyrite in place	112.10	112.77	0.67	502	.12	2.7		
		112.77	113.38	0.61	503	.09	1.6		
		113.38	114.3	0.92	504	.58	2.1		
		114.3	114.60	0.30	505	.19	3.0		
116.64 - 112.40	Breken & Smeared Limy Argillaceous Phyllite with glz stringers.	114.60	115.21	0.61	506	2.17	2.8		
		115.21	115.67	0.46	507	.15	1.4		
112.40 - 114.60	STRONGLY SILICIFIED ARGILLACEOUS DOLOMITE with glz inclusions. Trace Pyrite.	115.67	116.13	0.46	508	.15	1.6		
		116.13	116.74	0.61	509	.56	1.8		
		116.74	117.19	0.45	510	.76	1.8		
114.60 - 124.97	VERY STRONGLY SILICIFIED DOLOMITE - MARBLE with glz stringers. Trace to 3% Pyrite in place	117.19	117.65	0.46	511	1.09	1.7		
		117.65	118.20	0.55	512	.49	1.5		
		118.20	118.87	0.67	513	.28	1.2		
		118.87	119.48	0.61	514	.62	1.2		
121.40 - 122.07	FAULT Gouge	119.48	120.70	1.22	515	.54	1.8		
124.97 - 134.11	Dolomite - Marble with scattered glz stringers.	120.70	121.31	0.61	516	1.00	2.0		
		121.31	121.76	0.45	517	1.26	2.0		1.82
E-0.4	@ 125.27 Reduced to B.Q. size core.  ACID TEST @ 76 = 86° 100.8 = 86° 134.11 = 86° 30'	121.76	121.92	0.16	518	2.01	2.6		
		121.92	122.53	0.61	519	2.23	730.0		
		122.53	122.83	0.30	520	.14	2.6		
		122.83	123.44	0.61	521	.36	1.8		
		123.44	124.05	0.61	522	.26	2.1		
		124.05	124.36	0.31	523	.16	1.6		
		124.36	124.97	0.61	524	.42	1.4		
		124.97	134.11	9.14	waste				
Casing & SHOT LEFT IN HOLE  HOLE NOT CEMENTED.	SHOTS	3.96	11.27	7.31	781	.02	.5		
		11.27	14.32	3.0	782	.03	1.0		
		14.32	23.47	9.15	783	.16	.5		
		23.47	26.51	3.0	784	.02	1.0		
		26.51	134.11	107.60	No Shty				


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

Property WINDFLOWER Project No. 224 Depth 62.48 Date Began Sept. 7/80  
 Hole No. WIN-28 Co ord. 3.5 Horizontal Length 44.18 Date Completed Sept. 5/80  
 Claim No. L5054 10W Core Size N.O. Drilled By D.M.D.  
 Grid No. Angle & Direction -75°E Elevation 1965.75 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 9.45	CASING								
			CORE						
9.45 - 25.29	LIMY GREY PHILLITE & DOLOMITE odd narrow section marble sericitic & chloritized in parts widely scattered qtz stringers.	13.56	14.14	0.58	525	11.55	3.2		
		14.14	21.49	7.35	waste				
		21.49	22.25	0.76	526	0.64	1.0		
		22.25	22.86	0.61	527	0.48	1.2		
		22.86	27.43	4.57	waste				
		27.43	28.04	0.61	528	0.44	0.5		
	13.56-14.14 qtz vein	28.04	28.65	0.61	529	0.41	0.5		
	21.49-22.86 Sericitic with qtz stringers.	28.65	29.04	0.39	530	0.39	0.9		
		29.04	29.47	0.43	531	0.27	0.7		
25.29 - 26.51	YELLOW GREEN MARBLE	29.47	29.87	0.40	532	0.35	0.7		
		29.87	30.93	1.06	waste				
26.51 - 52.12	GREY DOLOMITE to LIMY PHILLITE widely scattered qtz veinlets	30.93	31.70	0.77	533	0.29	0.8		
		31.70	32.92	1.22	waste				
		32.92	34.13	1.21	534	0.29	0.7		
		34.13	34.74	0.61	kerf				
	27.43-29.87 scattered qtz veinling	34.74	35.35	0.61	535	0.39	0.7		
	30.93-36.27 " " veinlets with trace Pyrite.	35.35	36.27	0.92	536	0.31	0.7		
	(34.13-34.74 last core.)	36.27	37.64	1.37	waste				
	37.64-39.33 qtz veinlets	37.64	38.40	0.76	537	0.34	0.8		
	* @ 45.72 intersected win-4?	38.40	39.01	0.61	538	0.29	1.1		
		39.01	39.93	0.92	539	0.25	0.8		
		39.93	52.12	12.19	waste				
52.12 - 55.4	DOLOMITE & QTZ VEINLING 54.40-55.17 TR - 5% Pyrite.	52.12	52.73	0.61	540	0.25	0.8		
		52.73	53.34	0.61	541	0.23	0.7		
		53.34	53.95	0.61	542	1.17	1.5		
55.4 - 60.96	ARGILLITE with scattered qtz stringers.	53.95	54.40	0.45	543	2.44	1.3		
		54.40	54.96	0.56	544	2.36	1.3		
60.96 - 61.26	QUARTZ VEINLING	54.96	55.47	0.51	545	2.64	1.6		
		55.47	60.96	5.49	waste				
61.26 - 61.72	DOLOMITE	60.96	61.26	0.30	546	0.03	0.9		
61.72 - 62.48	LIMY ARGILLITE	61.26	62.48	1.22	waste				
F.O.H.									
	ACID TEST @ 53.34 = 43°30'	3.96	11.27	7.31	7E1				
	HOLE CEMENTED TOP to BOTTOM	11.27	14.32	3.05	7E2				
		14.32	23.47	9.15	7E3				
		23.47	26.51	3.04	7E4				
	CASING PULLED.	26.51	62.48	35.97	NO SAMPLE				


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P 1 of 2

Property WINDFLOWER Project No. 224 Depth 88.69 Date Began Sept. 5/84  
 Hole No. WIN-29 Co ord. 25.35 Horizontal Length 62.71 Date Completed Sept. 6/84  
 Claim No. L5654 23 W Core Size N.O. Drilled By D.M.D.  
 Grid No. Angle & Direction -45° E Elevation 1964.92 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 10.0	CRJING 0 - 9.14 clay sand Boulders, Bedrock 9.14 START OF CORES 10.12		CORE						
10.12 - 10.6	WHITE QUARTZ VEIN slightly stained - carbonate?	10.12	10.60	0.48	547	6.11	0.2		
		10.60	16.21	5.61	waste				
		16.21	16.58	0.37	548	0.03	0.6		
		16.58	18.68	2.10	waste				
10.6 - 31.70	LIMY GREY PHYLLITE - GREY DOLOMITIC with scattered gtz stringers.	18.68	19.20	0.52	549	0.03	0.6		
		19.20	21.03	1.83	waste				
		21.03	21.45	0.42	550	0.03	0.6		
	16.2 - 16.6 gtz vein	21.45	26.42	4.97	waste				
	18.7 - 19.2 gtz vein	26.42	26.82	0.40	551	0.41	0.6		
	26.4 - 26.82 gtz vein	26.82	30.93	4.11	waste				
	30.93 - 31.18 gtz vein	30.93	31.18	0.25	552	0.03	0.7		
		31.18	38.92	7.74	waste				
31.70 - 49.68	GREY DOLOMITIC & LIMY GREY PHYLLITE with scattered gtz stringers.	38.92	39.93	1.01	553	0.05	0.9		
		39.93	41.97	2.04	waste				
	32.40 - 33.01 Dolomite - marble	41.97	42.27	0.30	554	0.09	0.8		
	38.92 - 39.93 gtz vein & Dolomite	42.27	42.67	0.40	555	0.11	1.3		
	41.97 - 42.67 gtz vein	42.67	46.63	3.96	waste				
	46.63 - 47.09 gtz vein	46.63	47.09	0.46	556	0.06	0.7		
	48.10 - 48.92 gtz vein	47.09	49.68	2.59	waste				
		49.68	50.29	0.61	557	0.18	1.3		
49.68 - 59.13	ZONE OF QUARTZ VEINING INTERLAYERED WITH DOLOMITIC and LIMY PHYLLITE with some ARGILLITEOUS sections, CALCAREOUS with trace Pyrite	50.29	50.78	0.49	558	0.03	0.9		
		50.78	51.42	0.64	559	0.03	1.2		
		51.42	51.81	0.39	560	0.07	1.2		
		51.81	52.42	0.61	561	0.05	0.9		
	49.68 - 50.78 Mineralized gtz carbonate vein (1-4% Pyrite) with sections of Dolomite and/or Phyllite.	52.42	53.03	0.61	562	0.06	1.2		
		53.03	53.67	0.64	563	1.03	1.9		
		53.67	54.25	0.58	564	1.50	1.9		
59.13 - 68.88	GREY ARGILLITE - LIMY PHYLLITE & GREY DOLOMITIC interlayered scattered gtz stringers.	54.25	54.86	0.61	565	0.25	1.0		
		54.86	55.32	0.46	566	0.28	1.5		
		55.32	55.78	0.46	567	0.08	1.0		
68.88 - 69.19	FAULT ZONE (Broken Phyllite and/or Dolomite and gtz)	55.78	56.39	0.61	568	0.11	2.6		
		56.39	56.99	0.60	569	0.06	0.7		
69.19 - 71.93	LIMY PHYLLITE - SILICEOUS DOLOMITIC siliceous and gtz stringers & inclusions	56.99	57.60	0.61	570	0.04	0.5		
		57.60	58.21	0.61	571	0.05	0.6		
		58.21	58.82	0.61	572	0.04	0.4		
71.93 - 74.98	STRONGLY SILICEOUS ZONE (gtz Veining & siliceous Phyllite - Dolomite)	58.82	59.13	0.31	573	0.08	0.8		
		60.35	61.11	0.76	574	0.05	0.8		
		61.11	62.02	0.91	waste				
		62.02	62.33	0.31	575	0.06	0.9		






**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P. 1003

Property WINDFLOWER Project No. 224 Depth 104.24 Date Began Sept. 7/80  
 Hole No. WIN-30 Co ord. 202 N Horizontal Length 23.44 Date Completed Sept. 10/80  
 Claim No. L 12481 65 W Core Size 1.2 Drilled By D. M. D.  
 Grid No. \_\_\_\_\_ Angle & Direction -77° N 89° 30' E Elevation 2000.41 Logged By P. J. D.

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD			
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.
0 - 5.79	CASING.			SAMPLE WIDTH				
5.79 - 23.31	Limy PHYLITIC & DOLOMITE with ARBILLAGIOUS Sections scattered qtz stringers & Venoles.	13.50	14.37	592	1.01	0.03	0.9	
		14.57	19.20	WASTE	4.63			
		19.20	19.81	593	0.61	0.03	0.9	
		19.81	24.17	W	5.61			
23.31 - 29.50	DOLOMITE scattered qtz stringers & Venoles.	24.17	24.47	594	0.30	0.03	0.8	
		24.47	26.21	W	1.74			
29.50 - 30.17	GRAPHITIC ARBILLAGITE with Pyrite stringers.	26.21	26.82	595	0.61	0.03	0.8	
		26.82	31.09	W	4.27			
30.17 - 38.62	DOLOMITE scattered qtz stringers & Venoles. 37.79 - 38.62 FUCSITIC DOLOMITE	31.09	31.45	596	0.36	0.03	0.6	
		31.45	43.72	W	14.27			
		43.72	46.02	597	0.80	0.05	1.1	
38.62 - 40.14	Limy GRAPHITIC ARBILLAGITE	46.02	49.37	W	3.35			
		49.37	49.68	598	0.31	0.04	0.9	
40.14 - 43.77	DOLOMITE 40.14 - 40.54 FUCSITIC	49.68	53.03	W	3.35			
		53.03	53.49	599	0.46	0.04	0.7	
		53.49	56.39	W	2.90			
43.77 - 46.02	GRAPHITIC ARBILLAGITE - Limy	56.39	56.84	600	0.45	0.03	1.3	
		56.84	60.04	W	3.20			
46.02 - 48.10	BRECCIATED GRAPHITIC ARBILLAGITE - Limy scattered qtz stringers.	60.04	60.65	601	0.61	0.06	1.4	
		60.65	61.26	602	0.61	0.08	1.4	
		61.26	61.72	603	0.46	0.06	0.9	
48.10 - 61.72	Limy GRAPHITIC ARBILLAGITE - scattered qtz stringers.	61.72	62.18	604	0.46	0.04	1.1	
		62.18	62.79	605	0.61	0.09	1.2	
61.72 - 62.18	FAULT GOUGE	62.79	63.39	606	0.60	0.09	1.4	
		63.39	64.31	607	0.92	0.07	1.4	
62.18 - 78.33	BRECCIATED Limy GRAPHITIC ARBILLAGITE scattered qtz stringers, - qtz & calcite fragments	64.31	65.22	608	0.91	0.07	1.6	
		65.22	65.83	609	0.61	0.06	1.2	
		65.83	66.50	610	0.67	0.07	1.1	
78.33 - 81.34	QUARTZ VEINING & BRECCIATED Limy GRAPHITIC ARBILLAGITE	66.50	67.51	W	1.01			
		67.51	68.58	611	1.07	0.07	1.0	
81.34 - 86.87	BRECCIATED Limy GRAPHITIC ARBILLAGITE with qtz stringers. 83.45 - 83.97 FAULT GOUGE - sand.	68.58	69.49	612	0.91	0.09	0.7	
		69.49	70.41	613	0.92	0.08	0.8	
		70.41	71.32	614	0.91	0.09	0.9	
86.87 - 88.39	FAULT GOUGE 87.17 - 88.39 Lost Core.	71.32	72.23	615	0.91	0.10	0.7	
		72.23	73.15	616	0.82	0.09	1.0	
		73.15	73.70	617	0.61	0.06	0.9	
88.39 - 104.24	VERY BADLY BROKEN QUARTZ VEIN with scattered PYRITE and GRAPHITIC ARBILLAGITE CORE RECOVERY VERY POOR.	73.70	74.37	618	0.61	0.08	1.2	
		74.37	75.13	WASTE	0.76			
		75.13	75.68	619	0.55	0.15	0.9	

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-2 OF 3

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....  
 Hole No. WIN-30 Coord. .... Horizontal Length ..... Date Completed .....  
 Claim No. .... Core Size ..... Drilled By .....  
 Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	CORE SAMPLE WIDTH				SAMPLE RECORD			
		FROM	TO	-WIDTH-	SAMPLE	Au.	Ag.	Cu.	Zn.
<u>EE-39-104.24</u>	<u>CENT:</u>	75.08	76.33	WASTE	2.64				
	EE 39 - EE 69 white gtz vein	76.33	79.25	620	0.92	0.23	0.8		
	EE 69 - 90.22 Lost Core	79.25	79.25	621	0.60	0.06	0.6		
<u>F.O.H.</u>	90.22 - 90.43 white gtz vein	79.25	80.37	622	0.52	0.50	1.1		
	90.43 - 92.35 Lost Core	80.37	81.07	Lost Core	0.70				
	92.35 - 92.50 gtz vein & HIGH Sulphur Sulphide.	81.07	81.53	623	0.46	0.09	0.5		
		81.53	81.84	624	0.31	0.10	0.6		
	92.50 - 95.70 Lost Core	81.84	82.60	625	0.76	0.13	0.7		
		82.60	83.45	626	0.85	0.27	1.5		
	95.70 - 96.19 gtz vein & GRAPHITE ARGILLITE - Badly Brecciated - 50% Recovery.	83.45	83.66	627	0.21	0.56	1.6		
		83.66	84.12	Lost Core	0.46				
		84.12	84.73	628	0.61	0.20	1.5		
	96.19 - 96.77 gtz vein & HIGH Sulphur Sulphide.	84.73	85.34	629	0.61	0.24	1.5		
		85.34	85.95	630	0.61	0.23	1.0		
	96.77 - 97.84 Lost Core	85.95	86.41	631	0.46	0.21			
		86.41	86.87	632	0.46	0.38			
	97.84 - 98.14 gtz vein & GRAPHITE ARGILLITE & Sulphide - 30% Pyrite.	86.87	87.17	633	0.30	1.66	5.9	0.498	
		87.17	88.39	Lost Core	1.22	1.82m		2.375	gr/t
		88.39	88.69	634	0.30	12.75	730.0	3.825	0.069 oz/t
	98.14 - 98.45 Lost Core	88.69	90.22	Lost Core	1.53				6'
		90.22	90.37	635	0.15	.45	2.7		
	98.45 - 98.75 Brecciated gtz vein.	90.37	90.83	Lost Core	0.46				
		90.83	90.89	636	0.06	.41	5.6		
	98.75 - 100.28 Lost Core	90.89	92.35	Lost Core	1.46				
		92.35	92.50	637	0.15	.08	1.2		
	100.28 - 100.95 QUARTZ vein & GRAPHITE ARGILLITE	92.50	95.70	Lost Core	3.20				
		95.70	95.95	638	0.25	1.54	730.0		
	100.95 - 101.5 Lost Core	95.95	96.19	Lost Core	0.24				
		96.19	96.80	639	0.61	3.51	5.0		2.102 oz/t
	101.5 - 101.80 Badly Brecciated QUARTZ vein & GRAPHITE ARGILLITE.	96.80	97.84	Lost Core	1.04				2'
		97.84	98.14	640	0.30	.94	4.9		
	101.80 - 104.24 Lost Core	98.14	98.45	Lost Core	0.31				
		98.45	98.75	641	0.30	.72	2.1		
<u>F.O.H.</u>		98.75	100.28	Lost Core	1.53				
		100.28	100.84	642	0.56	.20	1.8		
	ACID TEST @ 104.24 = 78° 45'	100.84	101.50	Lost Core	0.61				
	HOLE CEMENTED - TO BOTTOM.	101.50	101.80	643	0.30	.08	0.9		
	CASING PULLED.	101.80	104.24	Lost Core	2.44				
		FEU.H.							



**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-3 OF 3

Property WINDFLOWER Project No. 224 Depth ..... Date Begun .....

Hole No. WIN-31 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.	Ag.	Cu.	Zn.
	<u>SLUDGES.</u>								
		<u>5.79</u>	<u>11.27</u>	<u>5.48</u>	<u>E01</u>				
		<u>11.27</u>	<u>17.37</u>	<u>6.10</u>	<u>E02</u>				
		<u>17.37</u>	<u>29.50</u>	<u>12.19</u>	<u>E03</u>				
		<u>29.50</u>	<u>32.61</u>	<u>3.05</u>	<u>E04</u>				
		<u>32.61</u>	<u>35.66</u>	<u>3.05</u>	<u>E05</u>				
		<u>35.66</u>	<u>38.71</u>	<u>3.05</u>	<u>E06</u>				
		<u>38.71</u>	<u>41.75</u>	<u>3.04</u>	<u>E07</u>				
		<u>41.75</u>	<u>44.80</u>	<u>3.05</u>	<u>E08</u>				
		<u>44.80</u>	<u>47.85</u>	<u>3.05</u>	<u>E09</u>				
		<u>47.85</u>	<u>50.90</u>	<u>3.05</u>	<u>E10</u>				
		<u>50.90</u>	<u>53.95</u>	<u>3.05</u>	<u>E11</u>				
		<u>53.95</u>	<u>60.04</u>	<u>6.09</u>	<u>E12</u>				
		<u>60.04</u>	<u>63.09</u>	<u>3.05</u>	<u>E13</u>				
		<u>63.09</u>	<u>66.14</u>	<u>3.05</u>	<u>E14</u>				
		<u>66.14</u>	<u>81.38</u>	<u>15.24</u>	<u>E15</u>				
		<u>81.38</u>	<u>84.43</u>	<u>3.05</u>	<u>E16</u>				
		<u>84.43</u>	<u>87.47</u>	<u>3.04</u>	<u>E17</u>				
		<u>87.47</u>	<u>92.35</u>	<u>4.88</u>	<u>E18</u>				
		<u>92.35</u>	<u>93.27</u>	<u>0.92</u>	<u>E19</u>				
		<u>93.27</u>	<u>96.31</u>	<u>3.04</u>	<u>E20</u>				
		<u>96.31</u>	<u>99.36</u>	<u>3.05</u>	<u>E21</u>				
		<u>99.36</u>	<u>102.41</u>	<u>3.05</u>	<u>E22</u>				
		<u>102.41</u>	<u>104.24</u>	<u>1.83</u>	<u>E23</u>				
		<u>F.O.H.</u>							

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-1 of 2

Property WINDFLOWER Project No. 224 Depth 35.35 Date Began Sept. 7/86  
 Hole No. WIN-31 Coord. 253 N Horizontal Length \_\_\_\_\_ Date Completed Sept. 10/86  
 Claim No. L 12481 20.9 W Core Size 1.0 Drilled By Konstanty Expl. Drilling Ltd  
 Grid No. \_\_\_\_\_ Angle & Direction -60°E Elevation 2008.70 Logged By P. J. D.

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 4.57	CASING								
4.57 - 16.92	LIMY GRAPHITIC ARGILLITE - Scattered glz stringers. 12.13-14.32 mineralized with Pyrite 3-20% 16.91-17.37 Lost Core	4.57	5.48	0.91	644	0.03	0.5		
		5.48	6.61	1.13	WASTE				
		6.61	7.32	0.71	645	0.04	0.7		
		7.32	8.63	1.31	W				
		8.63	9.14	0.51	646	0.06	0.4		
16.92 - 17.37	Lost Core REARDED as SAND & FAULT Gouge	9.14	11.27	2.13	W				
		11.27	12.13	0.86	647	0.14	0.5		
17.37 - 20.42	MAIN QUARTZ VEIN & SULPHIDE ZONE	12.13	12.68	0.55	648	0.08	0.4		
		12.68	13.41	0.73	649	0.09	0.4		
	17.37-17.68 glz & SOLID SULPHIDE - Pyrite with 1-3% sphaeritic (cherry colored).	13.41	13.87	0.46	650	0.08	0.5		
		13.87	14.33	0.46	651	0.10	0.4		
	17.68-17.98 Grey Ribbon Quartz with 20% Pyrite, Argillite, visible Pb-Zn	14.33	14.78	0.45	652	0.10	0.6		
		14.78	15.24	0.46	653	0.4	0.8		
	17.98-18.29 massive white glz vein with stringers & Blobs Pyrite	15.24	16.15	0.91	654	0.10	0.7		
		16.15	16.91	0.76	655	0.51	0.7		
	18.29-18.44 calcite, calcosite & glz - Tr. Pyrite	16.91	17.37	0.46	Lost Core				
	18.44-19.20 MASSIVE WHITE QUARTZ VEIN	17.37	17.68	0.31	656	7.67	730.0		
	19.20-20.42 glz Veining - Dolomite - Argillite with trace Pyrite.	17.68	17.98	0.30	657	2.91	26.1		
		17.98	18.29	0.31	658	.79	730.04		
		18.29	18.44	0.15	659	.81	1.9		3.57g 102g
20.42 - 24.84	DOLOMITE - MARBLE with QTZ veining	18.44	18.90	0.46	660	1.63	1.1		
		18.90	19.35	0.45	661	7.52	2.0		
	21.64-22.25 TRACE to 15% Pyrite.	19.35	19.81	0.46	662	1.83	1.2		
	22.25-22.85 ARGILLITE with Tr. Py.	19.81	20.42	0.61	663	.56	0.4		
	22.85-23.77 scattered large Blobs Pyrite.	20.42	21.03	0.61	664	0.82	0.7		
	24.05-24.23 white glz vein.	21.03	21.64	0.61	665	0.07	0.2		
		21.64	22.34	0.70	666	0.04	0.3		
24.84 - 25.91	ARGILLITE scattered glz stringers.	22.34	23.01	0.67	667	0.06	1.5		
		23.01	23.47	0.46	668	0.03	1.2		
25.91 - 32.00	DOLOMITE scattered glz stringers with Tr. to 1% Py.	23.47	23.93	0.46	669	0.04	1.4		
		23.93	24.23	0.30	670	0.03	0.6		
		24.23	24.84	0.61	671	0.03	1.0		
32.00 - 35.35	BROKEN DOLOMITE & QUARTZ veining	24.84	24.99	0.15	672	0.06	1.7		
		24.99	25.45	0.46	673	0.13	2.3		
		25.45	26.06	0.61	674	0.03	1.0		
E.O.H.	HOLE CEMENTED TOP to BOTTOM	26.06	26.52	0.46	675	0.03	0.7		
		26.52	27.58	1.06	WASTE				
	CASING PULLED	27.58	28.19	0.61	676	0.03	0.8		
		28.19	28.90	0.77	677	0.04	0.7		



**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P. 2 of 2

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....  
Hole No. WIN-31 Co ord. .... Horizontal Length ..... Date Completed .....  
Claim No. .... Core Size ..... Drilled By .....  
Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET / METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		28.46	32.46	3.50	waste				
		32.46	32.92	0.46	678	0.23	1.6		
		32.92	33.53	0.61	679	0.12	0.3		
		33.53	34.14	0.61	680	0.05	1.2		
		34.14	34.75	0.61	681	0.04	1.4		
		34.75	35.05	0.30	lost core				
		35.05	35.36	0.31	682	0.03	1.5		
		35.36							
					F.O.H.				
					SLUDGES				
		11.28	14.33	3.05	1401	.05			
		14.33	17.37	3.04	1402	.63			
		17.37	20.42	3.05	03	2.05			
		20.42	23.47	3.05	04	1.36			
		23.47	26.52	3.05	05	.84			
		26.52	29.57	3.05	06	.32			
		29.57	32.61	3.04	07	.49			
		32.61	35.36	2.75	1408	.52			
					F.O.H.				

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-1 OF

Property WINDFLOWER Project No. 227 Depth 102.71 Date Began Sept. 10/86  
 Hole No. WIN-32 Coord. 202 H Horizontal Length 43.40 Date Completed Sept. 12/86  
 Claim No. L-124E1 65W Core Size N.Q. Drilled By D.M.D.  
 Grid No. Angle & Direction -70° 18' 30" Elevation 2000.41 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	ppAg.	Cu.	Zn.
0 - 6.10	CASING								
6.10 - 37.19	LIMY PHYLLITE - GREY DOLOMITE WITH ARGILLACEOUS SECTIONS INTERLAYERED. TRACE PYRITE IN PARTS SCATTERED Qtz stringers & veinlets.	14.33	15.18	0.85	6E3	0.03	0.8		
		15.18	16.67	1.49	waste				
		16.67	17.37	0.70	6E4	0.04	0.6		
		17.37	22.40	5.03	waste				
		22.40	22.80	0.40	6E5	0.03	0.6		
		22.80	25.60	2.80	waste				
37.19 - 39.93	BRECCIATED ARGILLITE with Qtz stringers & fragments trace Pyrite.	25.60	26.21	0.61	6E6	0.03	0.5		
		26.21	26.52	0.31	waste				
		26.52	27.28	0.76	6E7	0.04	0.6		
39.93 - 44.65	FUCHSITIC DOLOMITE	27.28	27.89	0.61	6E8	0.04	0.4		
		27.89	28.35	0.46	KodCov				
44.65 - 61.26	GRAPHITIC ARGILLITE Limy - scattered Qtz - calcareous stringers	28.35	29.11	0.76	waste				
		29.11	29.57	0.46	6E9	0.03	0.4		
		29.57	31.55	1.98	waste				
	56.84 - 57.24 Qtz vein.	31.55	32.10	0.61	690	0.03	0.5		
		32.10	32.52	0.36	W				
61.26 - 69.19	BRECCIATED GRAPHITIC ARGILLITE Limy - Qtz stringers & fragments. @ 61.44 V. calc.	32.52	33.07	0.55	691	0.04	0.6		
		33.07	37.19	4.12	W				
		37.19	37.80	0.61	692	0.03	0.5		
		37.80	38.40	0.60	693	0.04	0.5		
69.19 - 72.54	GRAPHITIC ARGILLITE with Qtz veins & veinlets.	38.40	39.01	0.61	694	0.03	0.7		
		39.01	39.93	0.92	695	0.03	0.9		
		39.93	56.85	16.92	W				
72.54 - 74.52	QUARTZ VEINING & GRAPHITIC ARGILLITE	56.85	57.30	0.45	696	.05	2.0		
		57.30	60.17	2.87	W				
	73.0 - 73.5 Fault gouge - Qtz & Graphitic Argillite.	60.17	60.90	0.79	697	.07	.9		
	74.12 - 74.25 " " " " " "	60.90	62.79	1.83	W				
		62.79	63.80	1.07	698	.09	1.0		
		63.80	69.19	5.33	W				
74.52 - 77.20	MAIN QUARTZ VEIN & SULPHIDE ZONE	69.19	70.10	0.91	699	.08	1.2		
		70.10	71.02	0.92	700	.10	.9		
	74.52 - 75.89 Qtz vein with bands of N.S.S. - Pyrite,	71.02	71.63	0.61	701	.23	3.3		
	(75.13 - 75.44 Qtz - carbonate vein with Sphalerite)	71.63	72.54	0.91	702	.18	1.7		
	75.89 - 77.20 Qtz vein with trace Pyrite.	72.54	73.15	0.61	703	0.75	.5		
		73.15	73.61	0.46	704	0.93	.5		
		73.61	74.07	0.46	705	1.06	1.6		
77.20 - 101.19	LIMY GRAPHITIC ARGILLITE with scattered Qtz veinlets.	74.07	74.52	0.45	706	0.76	2.5		
		74.52	74.98	0.46	707	24.4	15.0	11.22	
	101.19 - 101.34 Qtz veinlets, 101.80 - 102.17 Qtz boulders.	74.98	75.44	0.46	708	4.72	5.8	2.17	

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P. 2 OF 3

Property WINDFLOSTER Project No. 224 Depth ..... Date Begun .....  
 Hole No. WIN-32 Co ord. .... Horizontal Length 43.40 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.	Ag.	Cu.	Zn.
101.19-102.71	MARBLE	75.44	75.90	0.46	709	5.74	30.0	2.64	
	scattered 1/3 Veinlets.	75.90	76.35	0.45	710	8.24		3.708	19.743
		76.35	76.81	0.46	711	0.75	20		1.23
		76.81	77.27	0.46	712	0.75			
		77.27	77.72	0.45	713	3.09	3.07		
		77.72	78.18	0.46	714	1.15	1.15		
		78.18	78.63	0.45	715	1.02	1.02		
		78.63	79.10	0.47	716	.26			
		79.10	79.55	0.45	717	.26			
		79.55	80.10	0.61	718	.34			
		80.10	80.77	0.61	719	.24			
		80.77	81.38	0.61	720	.56			
		81.38	81.99	0.61	721	.40			
		81.99	82.60	0.61	722	1.07			
		82.60	83.21	0.61	723	1.30			
		83.21	83.82	0.61	724	0.60			
		83.82	84.43	0.61	725	0.70			
		84.43	85.04	0.61	726	0.95		2.400	
		85.04	85.34	0.30	Waste	3.251		.50	
		85.34	85.95	0.61	727	2.48		1.5128	
		85.95	86.56	0.61	728	2.69		1.6100	
		86.56	87.17	0.61	729	2.85		1.7225	
		87.17	87.78	0.61	730	1.64		1.0004	
		87.78	88.09	0.31	731	2.15		1.1055	
		88.09	88.70	0.61	732	.35		7.3026	1.6000 2.7 g/l
		88.70	89.31	0.61	733	.11			
		89.31	90.22	0.91	734	.17			
		90.22	97.08	6.86	Waste				
		97.08	97.54	0.46	735	.06			
		97.54	98.15	0.61	736	.02			
		98.15	99.36	1.21	Waste				
		99.36	99.67	0.31	737	1.07			
		99.67	100.28	0.61	738	0.10			
		100.28	101.35	1.07	739	0.70			
		101.35	101.86	0.51	Waste				
		101.86	102.17	0.31	740	.14			
					e.o.d.				




**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL RECORD**

P-3 OF 3

Property W.I.V.O.F. LOWER Project No. 227 Depth ..... Date Began .....

Hole No. W.I.V. - 32 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.			
		5	SLUDGES																
6.10 - 11.28	824	5.18																	
11.28 - 14.33	825	3.05																	
14.33 - 17.37	826	3.04																	
17.37 - 20.42	827	3.05																	
20.42 - 23.47	28	3.05																	
23.47 - 26.52	29	3.05																	
26.52 - 29.57	8 30	3.05																	
29.57 - 32.61	31	3.04																	
32.61 - 38.71	32	6.10																	
38.71 - 41.76	33	3.05																	
41.76 - 44.81	34	3.05																	
44.81 - 47.85	35	3.04																	
47.85 - 50.90	36	3.05																	
50.90 - 53.95	37	3.05																	
53.95 - 57.00	38	3.05																	
57.00 - 60.05	39	3.05																	
60.05 - 63.09	8 40	3.04																	
63.09 - 66.14	41	3.05																	
66.14 - 69.19	42	3.05																	
69.19 - 72.24	43	3.05																	
72.24 - 75.26	44	3.02																	
75.26 - 78.33	45	3.07																	
78.33 - 81.38	46	3.05																	
81.38 - 84.43	47	3.05																	
84.43 - 87.48	48	3.05																	
87.48 - 90.53	49	3.05																	
90.53 - 93.57	8 50	3.04																	
93.57 -																			


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL RECORD**

P-1 OF 3

Property WINDFLOWER Project No. 224 Depth 46.02 Date Began Sept. 12/86  
 Hole No. W.V. - 33 Coord. 253.1 Horizontal Length \_\_\_\_\_ Date Completed Sept. 12/86  
 Claim No. L-12481 \_\_\_\_\_ 209W Core Size 1.2 Drilled By Kennedy Eng. Drilling  
 Grid No. \_\_\_\_\_ Angle & Direction -75°E Elevation 2008.70 Logged By P.J.P.

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES								
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.				
<b>CORE</b>																				
0 - 3.35	Casing	3.35																		
3.35 - 3.90	741	0.61	.03	1.2																
3.90 - 4.57	742	0.61	.05	1.3																
4.57 - 5.18	743	0.61	.06	1.0																
5.18 - 5.85	744	0.67	.03	.9																
5.85 - 6.23	745	0.38	.05	.9																
6.23 - 7.07	746	0.84	.04	.9																
7.07 - 7.44	747	0.37	.03	1.2																
7.44 - 8.84	wash	1.40																		
8.84 - 9.62	748	0.78	.03	.03																
9.62 - 10.30	749	0.68	.09	.09																
10.30 - 11.12	750	0.82	.05	.05																
11.12 on																				
(See sheet 2)																				

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-20F3

Property WINDFLOWER Project No. 224 Depth 410.02 Date Began Sept. 10/80  
 Hole No. WIN-33 Co ord. 253 N Horizontal Length \_\_\_\_\_ Date Completed Sept. 12/80  
 Claim No. L-12481 \_\_\_\_\_ 20.9 W Core Size N.Q. Drilled By KOOTENAY EXPL. DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -75° E Elevation 2008.70 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 3.35	CASING								
3.35 - 10.97	LIMY GRAPHITIC ARGILLITE scattered glz stringers & veinlets.	14.78	15.24	0.46	1001	.04	1.8		
		15.24	15.70	0.46	1002	.07	1.5		
		15.70	16.15	0.45	03	.05	1.5		
		16.15	16.61	0.46	04	.05	.5		
10.97 - 14.32	PHYLLITE	16.61	17.07	0.46	05	.47	1.2		
		17.07	17.37	0.30	06	.58	.7		
14.32 - 18.89	LIMY GRAPHITIC ARGILLITE scattered glz stringers & veinlets.	17.37	18.90	1.53	walk				
		18.90	19.35	0.45	1007	.65	.7		
	15.51 - 15.69 15% Pyrite, 3% glz	19.35	19.81	0.46	08	.49	1.0		
		19.81	20.27	0.46	09	.39	1.8		
18.89 - 20.11	QUARTZ VEINING WITH CARBONATE TRACED Pyrite.	20.27	21.34	1.07	walk				
		21.34	21.95	0.61	1010	.65	1.2		
20.11 - 20.73	ARGILLACEOUS PHYLLITE	21.95	22.55	0.60	11	.51	1.2		
		22.55	23.53	1.18	w				
20.73 - 23.77	GRAPHITIC ARGILLITE scattered glz stringers & veinlets.	23.53	24.08	0.53	1012	.52	1.0		
		24.08	24.54	0.46	13	1.03	1.6		
		24.54	25.30	0.76	14	1.18	1.5		
23.77 - 26.52	QUARTZ VEINING & LIMY SILICEOUS GRAPHITIC ARGILLITE	25.30	25.91	0.61	15	0.90	1.4		
		25.91	26.52	0.61	16	0.64	1.0		
		26.52	26.82	0.30	17	1.05	A.9		
26.52 - 29.41	MAIN QUARTZ VEIN & SULPHIDE ZONE	26.82	27.28	0.46	18	13.4	30.	6.164	
		27.28	27.74	0.46	19	3.91	21.0	1.7986	
	26.52 - 26.82 glz - carbonate vein - trace Pyrite.	27.74	28.19	0.45	1020	32.1	30.	14.445	
	26.82 - 27.74 DISSEMINATED SULPHIDE WITH GLZ - CARBONATE.	28.19	28.65	0.46	21	11.2	21.3	5.152	
	27.74 - 29.02 glz with bands of NSS - SS - Pyrite.	28.65	29.11	0.46	22	3.81	30.	1.7526	
	29.02 - 29.41 glz vein with 5-10% Pyrite.	29.11	29.57	0.46	23	14.2	A.5	6.532	35.8942
		29.57	30.02	0.45	24	0.95	1.2		2.75
	Core & in Sulphides = 10' - 15'	30.02	30.48	0.46	25	0.72	1.0		
		30.48	31.09	0.61	26	0.64	1.2		
		31.09	31.55	0.46	27	.71	1.7		
29.41 - 32.00	SILICEOUS DOLOMITIC - MARBLE & SILICEOUS ARGILLITE with glz stringers & 2-3% Pyrite.	31.55	32.00	0.45	28	.73	1.9		
		32.00	32.40	0.46	29	.66	1.0		
		32.40	32.92	0.46	1030	.51	.9		
32.00 - 33.22	QUARTZ VEIN WITH CARBONATE	32.92	33.22	0.30	31	.59	1.1		
		33.22	33.99	0.77	32	.48	1.5		
	32.61 - 33.22 Brecciated - trace Pyrite, Sphalerite.	33.99	34.38	0.39	33	.44	1.0		
		34.38	34.81	0.43	34	.49	.9		
33.22 - 34.38	SILICEOUS LIMY ARGILLITE WITH GLZ STRINGERS TR. Pyrite.	34.81	35.20	0.39	35	.62	1.4		
		35.20	35.60	0.40	1036	.37	.8		

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-3 OF 3

Property WINDFLOWER Project No. 227 Depth ..... Date Begun .....  
 Hole No. WIN-33 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.	Ag <sup>+</sup>	Cu.	Zn.
34.32-35.23	MASSIVE WHITE QUARTZ JEW	35.66	36.58	0.92	1037	.21	.9		
		36.58	37.19	0.61	1038	.29	.9		
35.23-37.19	SILICEOUS PHYLLITE - Dolomite	37.19	37.64	0.45	1039	.33	18.7		
	Trace to 3% Pyrite in Parts.	37.64	38.10	0.46	1040	.91	5.0		
		38.10	38.96	0.46	1041	.74	2.6		
37.19-39.47	SILICEOUS Dolomite - PHYLLITE with f <sub>3</sub> calcite veins	38.56	39.01	0.45	1042	.59	1.9		
	Trace Pyrite, Sphalerite - galena in veins.	39.01	39.47	0.46	1043	.13	1.9		
	Trace - 5% Pyrite in Dolomite & Phyllite.	39.47	40.39	0.92	1044	.38	1.8		
		40.39	40.72	0.33	1045	.39	1.5		
		42.06	42.52	0.46	1046	.22	1.7		
		42.52	42.98	0.46	1047	.32	1.8		
39.47-46.02	SILICEOUS Dolomite - MARBLE & Limy Argillite	44.81	45.72	0.91	1048	.24	1.7		
	with f <sub>3</sub> stringers & Veins	45.72	46.02	0.30					
	<u>E.O.H.</u>								
	ACID @ 46.02 = 76°	3.35	5.18	1.83	1409	.06			
		5.18	8.23	3.05	1410	.07			
		8.23	11.28	3.05	1411	.09			
	HOLE CENTERED 60° to BOTTOM	11.28	14.33	3.05	1412	.35			
		14.33	17.37	3.05	1413	.32			
	RASING PULLED	17.37	20.42	3.05	1414	.21			
		20.42	23.47	3.05	1415	.45			
		23.47	26.52	3.05	1416	.98			
		26.52	29.57	3.05	1417	4.61			
		29.57	32.61	3.04	1418	1.50			
		32.61	35.66	3.05	1419	2.71			
		35.66	38.71	3.05	1420	3.32			
		38.71	41.76	3.05	1421	2.32			
		41.76	44.81	3.05	1422	1.72			
		44.81	46.02	1.21	1423	.47			


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-1 OF 3

Property WINDFLOWER Project No. 224 Depth 76.80 Date Began Sep. 12/86  
 Hole No. WIN-34 Co ord. 253 N Horizontal Length \_\_\_\_\_ Date Completed Sep. 13/86  
 Claim No. L 124 E1 22 E Core Size NQ Drilled By D.M.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -50° W Elevation 2000.6 Logged By P.J.O.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag ppm	Cu.	Zn.
0-2.74	CASING								
2.74-3.05	QUARTZ VEIN & LIMY PHYLLITE & DOLOMITE	2.74	3.05	0.31	1049	.72	1.3	.223	
3.05-3.51	trace pyrite in gtz & phyllite - Dolomite	3.05	3.51	0.46	1050	.52	1.5	.239	
3.51-3.96		3.51	3.96	0.45	51	.71	1.2	.319	
3.96-4.42		3.96	4.42	0.46	52	.48	.9	.221	
4.42-4.88	Grey Limy PHYLLITE & DOLOMITE with gtz JEWELTS	4.42	4.88	0.46	53	1.00	1.0	.460	
4.88-5.33	trace pyrite	4.88	5.33	0.45	54	1.56	1.3	.702	
5.33-5.79		5.33	5.79	0.46	55	.54	.9	.248	
5.79-6.40	QUARTZ VEIN & Dolomite - Phyllite	5.79	6.40	0.61	56	.54	1.9	.329	3.198
6.40-7.01		6.40	7.01	0.61	57	.75	.7	.457	4.27m 0.7499
7.01-7.47	Grey Dolomite - PHYLLITE with scattered gtz stringers & Jewels.	7.01	7.47	0.46	58	.32	.6		14.0' 0.02202
7.47-7.92		7.47	7.92	0.45	59	.29	.6		
7.92-8.23		7.92	8.23	0.31	1060	.31	.5		
8.23-8.84	Grey Dolomite - Limy ARGILLACEOUS PHYLLITE	8.23	8.84	0.61	61	.36	.8		
8.84-9.45	old gtz stringers	8.84	9.45	0.61	62	.18	1.1		
9.45-10.00		9.45	10.00	0.61	63	.18	1.1		
10.00-10.67	WHITE QUARTZ VEIN	10.00	10.67	0.61	64	.39	1.1		
10.67-11.28		10.67	11.28	0.61	1065	.36	.9		
11.28-30.48	Limy ARGILLACEOUS PHYLLITE & DOLOMITE	11.28	30.48	19.20	waste				
30.48-30.94	scattered gtz stringers & Jewels.	30.48	30.94	0.46	1066	.29	.8		
30.94-31.39	gtz stringer	30.94	31.39	0.45	67	.20	1.0		
31.39-31.76	gtz stringer	31.39	31.76	0.37	68	.17	1.0		
31.76-32.80	gtz vein	31.76	32.80	1.10	waste				
32.80-33.22		32.80	33.22	0.42	1069	.29	1.5		
33.22-34.44	Dolomite & Limy ARGILLITE INTERLAYERED	33.22	34.44	1.22	waste				
34.44-34.75	trace Pyrite in Py.	34.44	34.75	0.31	1070	.25	.7		
34.75-35.97	Scattered gtz stringers	34.75	35.97	1.22	waste				
35.97-36.42		35.97	36.42	0.45	1071	.25	1.4		
36.42-36.79	widely scattered gtz carbonate stringers	36.42	36.79	0.37	72	.12	.8		
36.79-37.19	with double sphalerite & galena.	36.79	37.19	0.40	73	.23	1.0		
37.19-39.32		37.19	39.32	2.13	W				
39.32-39.84	3% scattered gtz - carbonate Veining with Cu. & Pb.	39.32	39.84	0.52	1074	.15	1.3		
39.84-40.23		39.84	40.23	0.39	75	.19	.9		
40.23-41.97		40.23	41.97	1.74	W				
41.97-42.37	MAIN QUARTZ VEIN and SULPHIDE ZONE (East Vein)	41.97	42.37	0.40	1076	.19	1.4		
42.37-42.98		42.37	42.98	0.61	77	.29	1.4		
42.98-43.80	gtz in -HSS-SS- Pyrite, Tr -2% CPY	42.98	43.80	0.82	78	.24	1.8		
43.80-44.62	trace sphalerite, Galena.	43.80	44.62	0.82	79	.18	1.0		
44.62-45.35	Carbonate (Rich)	44.62	45.35	0.73	1080	.24	1.2		
45.35-45.72	Carbonate - Rich with Bands of HSS- Py.	45.35	45.72	0.37	1081	.26	2.7		

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-2 023

Property WINDFLOWER Project No. 224 Depth ..... Date Begun .....  
 Hole No. WIN-34 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.	Ag.	Cu.	Zn.
<del>59.26</del> - 59.25	607.	45.72	46.30	0.58	10E2	.18	1.4		
59.25 - 59.34	increase in chalcopyrite to 3% TR Pb-Zn.	46.30	46.94	0.64	10E3	.73	.9		
	Grade = 12-45°	46.94	47.34	0.40	84	.19	.7		
	(57.02 - 57.49 Lost Core.)	47.34	48.40	1.12	Waste				
		48.40	49.23	0.77	10E5	.18	.3		
		49.23	49.80	0.57	W				
59.25 - 60.29	Dolomite - Limy ARGILLITE TR Py glz stringer	49.80	50.60	0.80	10E6	.28	1.9		
		50.60	50.90	0.30	E7	.11	2.0		
60.29 - 61.36	QTZ veinings with Limy ARGILLITE TR Pyrite.	50.90	51.21	0.29	E8	.22	2.5		
		51.21	51.82	0.61	E9	.12	.6		
61.36 - 64.31	Limy ARGILLITE & Dolomite	51.82	53.64	1.82	W				
		53.64	54.28	0.64	1020	.15	.8		
64.31 - 71.02	NEW WHITE QUARTZ VEIN & SULPHIDE ZONE (WAST VEIN)	54.28	54.83	0.55	91	.22	.7		
		54.83	55.17	0.34	92	0.42	.5	.143	
	Trace to 40% Pyrite & patches, Blobs, Bands.	55.17	55.53	0.36	93	1.65	4.9	.594	1.116
	Chalcopyrite, trace chalcopyrite.	55.53	56.08	0.55	94	0.69	2.0	.379	1.25m 0.893
		56.08	56.54	0.46	95	12.4	30.0	5.704	54.82 56.08
	64.37 - 64.52 Sulphide & glz mud zone	56.54	57.00	0.46	910	25.7	30.0	11.822	
	64.52 - 64.61 Broken glz	57.00	57.49	0.49	Last Core	8.59	30.0	4.204	
	64.61 - 65.83 Lost Core.	57.49	57.85	0.36	1097	8.59	30.0	3.092	
	65.83 - 69.19 Lost Core.	57.85	58.40	0.55	98	80.40	30.0	44.22	
		58.40	58.83	0.43	99	170.00	30.0	73.10	11-20"
		58.83	59.25	0.42	1100	11.10	30.0	4.667	3.17m 46.312
71.02 - 71.48	Lost Core	59.25	59.74	0.49	01	.34	1.1	.166	56.08 - 59.25
		59.74	60.29	0.55	02	.71	1.5	.330	
71.48 - 76.81	Limy ARGILLITE & Dolomite	60.29	60.81	0.52	03	6.32	1.0	3.281	151.41
		60.81	61.36	0.55	04	1.38	.7	.759	5.28m 28.67
	scattered glz stringers & veinlets	61.36	62.18	0.82	05	.26	.9		56.08 - 61.36
	glz veinlets	62.18	63.09	0.91	06	.22	1.6		
		63.09	63.61	0.52	07	.37	2.3		
		63.61	64.10	0.49	08	.27	2.7		
		64.10	64.31	0.21	09	.21	2.3		
		64.31	64.62	0.31	1110	.46	3.7		
	ACID TEST @ 76.80 = 45° 30'	64.62	65.84	1.22	Waste				
	16oz CEMENTED	65.84	66.29	0.45	1111	25.73	8.1	1.228	
	CASING PULLED.	66.29	66.75	0.46	12	66.7	30.0	30.450	
		66.75	67.21	0.46	13	20.20	30.0	9.292	
		67.21	67.67	0.46	14	.35	1.1	.253	
		67.67	68.12	0.45	15	13.40	10.2	6.03	
		68.12	68.58	0.46	1110	19.2	7.5	3.45	


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-3 of 3

Property WINDFLEWICK Project No. 224 Depth ..... Date Begun .....

Hole No. WIN-34 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.	PPM	Cu.	Zn.	
		68.58	68.88	0.30	1117	7.72	9.1	2.316		
		68.88	69.19	0.31	LOST CORE	7.72		2.393		
		69.19	69.65	0.46	1118	9.54	2.0	4.388		
		69.65	70.10	0.45	1119	4.90	5.6	2.205		
		70.10	70.56	0.46	1120	10.7	10.8	4.922	4.72m	14.18g
		70.56	71.02	0.46	1121	1.01	.8	.400	15.5'	0.413oz
		71.02	71.48	0.46	LOST CORE		.		65.84	70.56m
		71.48	71.93	0.45	1122	.29	.3			
		71.93	72.24	0.31	1123	.21	.3			
		75.04	75.74	0.70	1124	.25	.9			
		75.74	76.80	1.06	WASTE	.				
					<u>EOH</u>					
					<u>SLUDGES</u>					
		2.74	8.23	5.49	851					
		8.23	11.28	3.05	852					
		11.28	14.33	3.05	853					
		14.33	17.37	3.00	854					
		17.37	20.42	3.05	855					
		20.42	23.47	3.05	856					
		23.47	26.52	3.05	857					
		26.52	29.57	3.05	858					
		29.57	32.61	3.04	859					
		32.61	35.66	3.05	860					
		35.66	38.71	3.05	861	1.31	15.0			
		38.71	41.76	3.05	862	0.59	24.0			
		41.76	44.81	3.05	863	0.25	47.0			
		44.81	47.86	3.04	864	.02	12.0			
		47.86	53.96	6.10	865	.02	4.5			
		53.96	57.00	3.05	866	3.02	29.5			
		57.00	60.05	3.05	867	63.10	172.0			
		60.05	63.09	3.04	868	20.30	50.0			
		63.09	66.14	3.05	869	4.10	11.0			
		66.14	69.19	3.05	870	31.10	34.5			
		69.19	72.24	3.05	871	15.60	18.0			
		72.24	75.29	3.05	872	10.70	16.0			

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P 1 of 2

Property WINDFLOWER Project No. 224 Depth 50.29 Date Began Sept. 13/86  
 Hole No. WIN-35 Co ord. 277 N Horizontal Length \_\_\_\_\_ Date Completed Sept. 17/86  
 Claim No. L 12481 7E Core Size N.Q. Drilled By KOOTEKAY EXPL. DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -45° W Elevation 2003.42 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag. P.P.M.	Cu.	Zn.
0 - 5.18	Casing								
5.18 - 23.90	Limy ARGILLITE & Limy PHYLLITE & Dolomite scattered glg stringers & veinlets.	15.64	16.31	0.67	1125	.24	0.7		
	15.64 - 16.31 scattered glg veinlets.	17.98	18.59	0.61	1126	2.05	2.5		
	17.98 - 19.81 " " veinlets	18.59	19.20	0.61	27	1.22	1.4	1.83m	2.24 g/t
		19.20	19.81	0.61	1128	3.46	1.7	(6.0'	0.065 g/t)
		19.81	23.99	4.18	waste				
23.90 - 24.23	SILICEOUS DOLOMITE with narrow sections of ARGILLITE containing 5% Pyrite mineralization.	23.99	24.23	0.24	1129	72	.8		
		24.23	24.69	0.46	1130	6.21	11.3		
		24.69	24.90	0.21	31	4.84	6.6	1.07m	4.15 g/t
24.23 - 24.69	MINERALIZED TO SOLID SULPHIDE with glg & Carbonate. 25 to 100% Pyrite.	24.90	25.30	0.40	32	1.41	4.6	(3.51'	0.121 g/t)
		25.30	25.91	0.61	33	.87	1.8		
		25.91	26.70	0.79	34	.47	0.5		
24.69 - 28.04	SILICEOUS DOLOMITE - Limy PHYLLITE with ARGILLITE sections. scattered narrow glg veinlets.	26.70	27.43	0.73	35	.25	.4		
		27.43	28.04	0.61	36	1.06	.6		
		28.04	33.53	5.49	waste				
		33.53	33.92	0.39	1137	.26	.6		
28.04 - 50.29	MAINLY SILICEOUS DOLOMITE with narrow Limy PHYLLITE & ARGILLITE sections.	33.92	35.05	1.13	waste				
		35.05	35.48	0.43	1138	.90	.3		
		35.48	36.79	1.31	waste				
		36.79	37.37	0.58	1139	.30	.3		
		37.37	39.84	2.47	waste				
		39.84	40.39	0.55	1140	.21	.8		
		40.39	42.85	2.46	waste				
		42.85	48.37	0.52	1141	.27	.7		
		48.37	50.29	1.92	waste.				
		E.O.H							
	ACID TEST = 44° 30'								
	HOLE CEMENTED								
	CASING PULLED.								




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL RECORD**

P-2 OF 2

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....

Hole No. WIN-35 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	NUMBER	WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH X ASSAY					AVERAGES							
							WIDTH	Au.	Ag.	Cu.	Zn.	WIDTH	Au.	Ag.	Cu.	Zn.			
		SLUDGE																	
5.18 - 7.62	1424	2.44	.52	1.5															
7.62 - 10.67	1425	3.05	.38	1.0															
12.67 - 13.72	24	3.05	.06	.5															
13.72 - 16.76	27	3.05	.02	.5															
16.76 - 19.81	28	3.05	2.65	1.0															
19.81 - 22.86	29	3.05	.02	1.0															
22.86 - 25.91	30	3.05	4.11	1.0															
25.91 - 28.96	31	3.05	1.05	6.0															
28.96 - 32.00	32	3.04	.40	3.5															
32.00 - 35.05	33	3.05	.46	2.0															
35.05 - 38.10	34	3.05	.32	3.0															
38.10 - 41.15	35	3.05	.56	4.0															
41.15 - 44.20	36	3.05	.99	4.0															
44.20 - 47.24	37	3.05	.28	3.5															
47.24 - 50.29	38	3.05	.25	2.5															
50.29 -																			


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P 1 of 4

Property WINDFLOWER Project No. 224 Depth 116.74 Date Began Sept. 12/86  
 Hole No. WIN-30 Co ord. 253N Horizontal Length \_\_\_\_\_ Date Completed Sept. 13/86  
 Claim No. L-12481 \_\_\_\_\_ 22E Core Size N.Q. Drilled By D.M.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -50°W Elevation 2000.6 Logged By PJD

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 2.44	CASING					g/MT	PPM		
2.44 - 21.49	LIMY SILICEOUS PHYLLITE & SILICEOUS DOLOMITE	2.44	3.05	0.61	1142	.22	-.5		
		3.05	3.80	0.75	1143	.12	-.7		
		3.80	4.27	0.47	44	.31	1.2		
	Extensively qtz enriched & veined	4.27	4.57	0.30	45	.13	-.8		
	@ 15.24 - 5.0 cm mud zone	4.57	5.18	0.61	Lost Core				
	4.57 - 5.18 Lost Core	5.18	6.49	1.31	waste				
21.49 - 22.86	QUARTZ VEINING & MASSIVE WHITE QUARTZ VEIN	6.49	7.07	0.58	1146	.95	1.0		
		7.07	7.62	0.55	waste				
		7.62	8.23	0.61	1147	.19	1.0		
22.86 - 45.72	LIMY SILICEOUS PHYLLITE & ARGILLITE & SILICIFIED DOLOMITE	8.23	8.84	0.61	1148	.09	1.0		
		8.84	9.45	0.61	49	.13	.4		
	Scattered qtz stringers & veinlets with trace Pyrite.	9.45	10.21	0.76	1150	.09	.8		
45.72 - 47.91	QUARTZ VEINING & SILICEOUS DOLOMITE	10.21	12.04	1.83	waste				
	Trace Pyrite in P.H.	12.04	12.59	0.55	1151	.05	.6		
		12.59	13.14	0.55	1152	.18	.7		
		13.14	13.56	0.42	53	.10	1.2		
47.91 - 57.45	SILICEOUS DOLOMITE & LIMY PHYLLITE & ARGILLITE Interbedded	13.56	14.33	0.77	54	.04	.7		
		14.33	15.42	1.09	waste				
	Scattered qtz stringers & veinlets with trace Pyrite.	15.42	15.73	0.31	1155	.42	.9		
	@ 52.58 - 2.54 cm Pyrite stringer	15.73	16.46	0.73	56	.06	.7		
	53.86 - 54.04 Trace SPHALERITE.	16.46	18.20	1.74	waste				
	56.00 - 56.89 qtz vein	18.20	18.59	0.39	1157	.10	.8		
		18.59	19.51	0.92	58	.14	.7		
57.45 - 61.57	SILICEOUS LIMY GRAPHITIC ARGILLITE & PHYLLITE	19.51	20.12	0.61	59	.11	1.2		
		20.12	20.94	0.82	1160	.05	.7		
	Extensive qtz veinlets, Veinlet - trace Pyrite.	20.94	21.49	0.55	61	.08	.9		
		21.49	21.79	0.30	62	.25	.7		
61.57 - 66.20	ALTERED & NUGGY DOLOMITE with GRAPHITIC ARGILLITE	21.79	22.16	0.37	63	2.83	2.6	1.07%	212g
	veinlets.	22.16	22.86	0.70	64	1.81	.8	3.3'	.063g
	Trace Pyrite & up to 2% in P.H. at large Blk.	22.86	23.47	0.61	65	.29	.9		
		23.47	24.23	0.76	66	.25	1.0		
66.20 - 69.25	DOLOMITE	24.23	24.99	0.76	67	.29	1.4		
	Siliceous & Brecciated.	24.99	25.73	0.74	68	.13	.8		
		25.73	26.82	1.09	waste				
69.25 - 69.43	MUD & SAND ZONE	26.82	27.49	0.67	1169	.12	1.2		
		27.49	28.59	1.10	waste				
69.43 - 69.80	DOLOMITE	28.59	29.57	0.98	1170	.05	1.2		
		29.57	31.88	2.31	waste				
69.80 - 70.71	LOST CORE - FAULT ZONE	31.88	32.77	0.89	1171	.09	1.3		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-2 OF 4

Property WINOFLOWER Project No. 224 Depth ..... Date Began .....

Hole No. WIN-36 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.	Ag.	Cu.	Zn.
70.71-73.09	GRAPHITIC ARBILLITE & DOLOMITE T. Subbed	32.77	42.37	9.60	waste				
	71.02-71.43 Brown & black	42.37	42.58	0.21	1172	.05	.66		
		42.58	45.72	3.14	waste				
73.09-74.58	LIGHT GREEN FUCHSITE DOLOMITE	45.72	46.33	0.61	1173	.12	.7		
		46.33	46.94	0.61	1174	.06	.4		
74.58-75.80	SILICEOUS ARBILLITE	46.94	47.55	0.61	1175	.07	.4		
		47.55	47.91	0.36	76	.02	.4		
75.96-77.11	LIGHT GREEN FELDSPATH DOLOMITE	47.91	48.25	0.34	77	.05	1.1		
		48.25	49.13	0.88	78	.03	.6		
77.11-83.58	SILICEOUS GREY DOLOMITE-MARBLE	49.13	52.33	3.20	waste				
		52.33	53.04	0.71	1179	.04	.7		
83.58-84.34	DARK GREY SILICEOUS DOLOMITE-ARGILLITE	53.04	54.04	1.00	waste				
		54.04	54.47	0.43	1180	1.03	.7		
84.34-95.55	GREY DOLOMITE-MARBLE TRAC FUCHSITE in Pts.	54.47	56.60	1.53	waste				
	@ 88.69 Reduced to B.Q. Core	56.60	56.85	0.25	1181	.08	.4		
	89.02-89.61 trace Pyrite	56.85	57.45	0.60	82	.07	.8		
	95.09-95.40 Fuchsite	57.45	57.91	0.46	83	.06	1.1		
		57.91	58.52	0.61	84	.09	1.1		
		58.52	58.87	0.37	85	.06	1.2		
95.55-104.27	WHITE QUARTZ VEIN and SULPHIDE ZONE	58.87	59.19	0.30	86	.05	.9		
		59.19	59.87	0.70	87	.27	1.2		
	95.55-96.01 Grey qtz vein trace Pyrite (subsampled)	59.87	61.57	1.68	w				
	96.01-102.41 white qtz vein - scattered patches, & bands SS - Pyrite	61.57	62.36	0.79	1188	.07	1.1		
		62.36	62.85	0.49	89	.18	.9		
	LOST CORE 97.69-97.84, 102.41-102.90, 103.63-104.12	62.85	63.55	0.70	90	.08	.9		
		63.55	64.31	0.76	91	.09	1.1		
104.27-116.74	BRECCIATED LIMY GRAPHITIC ARG	64.31	65.07	0.76	92	.07	.9		
		65.07	65.68	0.61	93	.06	.9		
	qtz-carbonate fragments	65.68	66.20	0.52	1194	.05	.8		
E.O.H.		66.20	89.00	22.8	waste				
		89.00	89.61	0.61	1195	.08	1.1		
	ACID TEST @ 100.9 = 60"	89.61	95.09	5.48	waste				
		95.09	95.70	0.61	1196	.53	1.2		
	HOLE CEMENTED	95.70	96.41	0.31	97	.16	.2		
		96.41	96.31	0.30	98	2.49	6.6	0.30	2.499
	CASING PULLED.	96.31	96.77	0.46	99	.17	.2	1.0'	0.0720
		96.77	97.23	0.46	1200	.07	.2		
		97.23	97.69	0.46	1201	.14	1.2		
		97.69	97.84	0.15	lost Core				
		97.84	98.30	0.46	1202	.80	3.1		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-3 OF 4

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....

Hole No. WIN-36 Co ord ..... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		98.30	98.75	0.45	1203	.05	.1		
		98.75	99.21	0.46	1204	2.02	.1	0.929	
		99.21	99.67	0.46	1205	5.41	12.4	2.486	
		99.67	100.12	0.45	1206	3.99	8.3	1.795	7.231
		100.12	100.58	0.46	1207	4.39	18.3	2.019	1.831
		100.58	101.04	0.46	08	.70	4.1		6.0
		101.04	101.50	0.46	09	.12	.1		0.115
		101.50	101.95	0.45	1210	.22	.4		
		101.95	102.41	0.46	11	.20	.5		
		102.41	102.90	0.49	lost core				
		102.90	103.63	0.73	1212	.44	.5		
		103.63	104.12	0.49	lost core				
		104.12	104.27	0.15	1213	.23	1.3		
		104.27	116.74	12.47	waste				
					E.O.H.				
					SLUDGES				
		2.44	5.18	2.74	873	0.06	1.5		
		5.18	8.23	3.0	874	1.61	2.5		
		8.23	11.28	3.0	875	.04	1.0		
		11.28	14.33	3.0	876	.02	.5		
		14.33	17.37	3.0	877	.72	1.0		
		17.37	20.42	3.0	878	.27	1.0		
		20.42	23.47	3.0	879	11.30	6.5		
		23.47	26.52	3.0	880	2.10	1.5		
		26.52	29.57	3.0	881	2.69	2.5		
		29.57	32.61	3.0	882	.18	.5		
		32.61	35.66	3.0	883	.85	1.5		
		35.66	38.71	3.0	884	.22	6.0		
		38.71	41.76	3.0	885	.09	1.5		
		41.76	44.81	3.0	886	.02	1.5		
		44.81	47.85	3.0	887	.74	1.0		
		47.85	50.90	3.0	888	.22	1.0		
		50.90	53.95	3.0	889	.10	1.0		
		53.95	57.00	3.0	890	.14	2.5		
		57.00	60.05	3.0	891	.21	1.0		
		60.05	63.09	3.0	892	.09	1.5		
		63.09	66.14	3.0	893	.24	.5		
		66.14	69.19	3.0	894	.02	.5		
		69.19	72.34	3.0	895	.02	.5		




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-1 OF 2

Property WINDFLOWER Project No. 224 Depth 68.88 Date Began Sept. 17/86  
 Hole No. WIN-37 Coord. 270 H 111 Horizontal Length \_\_\_\_\_ Date Completed Sept. 18/86  
 Claim No. L-12481 \_\_\_\_\_ 7E Core Size N.Q. Drilled By K.E.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -61° 30' Elevation 2003.42 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 4.26	CASING								
4.26 - 28.80	ARGILLACEOUS PHYLLITE - DOLOMITTE - ARGILLITE scattered sections of gtz veining, veinlets & stringers TRACE Pyrite & Pz	7.9	8.17	0.27	1214	.32	1.7		
		8.17	9.96	1.79	Waste				
		9.96	10.57	0.61	1215	.06	.6		
		10.57	12.07	1.47	Waste				
	9.96 - 28.80 gtz veinlets, veining & stringers	12.07	12.95	0.91	1216	.07	.7		
		12.95	14.02	1.07	Waste				
28.80 - 33.68	STRONGLY SILICEOUS DOLOMITTE & QUARTZ VEINING with Argillaceous sections. TRACE Pyrite.	14.02	15.02	1.00	1217	.08	.7		
		15.02	15.78	0.76	Waste				
		15.78	16.30	0.52	1218	.07	1.0		
33.68 - 38.40	MAIN QUARTZ VEIN & SULPHIDE ZONE (WEST VEIN)	16.30	18.22	1.92	Waste				
		18.22	18.96	0.74	1219	.80	1.1		
	33.68 - 33.83 gray gtz vein - TR. Py.	18.96	19.75	0.79	1220	1.81	2.0		0.79m 1.81g
	33.83 - 33.98 Near Solid - Solid Sulphide - Pyrite.	19.75	21.09	1.34	Waste				
	33.98 - 34.59 gray-white gtz vein, TR - 5% Py.	21.09	21.64	0.55	1221	.15	.8		
	34.59 - 35.66 massive gtz vein - TR. Py.	21.64	22.25	0.61	22	.08	.8		
	35.66 - 36.27 white gtz vein to Near Solid Sulphide - Py.	22.25	23.10	0.91	23	.09	.8		
	36.27 - 36.88 white gtz vein	23.10	25.45	2.29	Waste				
	36.88 - 37.49 white gtz vein & Near Solid Sulphide - Py	25.45	26.48	1.03	1224	.09	1.7		
	37.49 - 37.79 Lost Core	26.48	27.67	1.19	Waste				
	37.79 - 38.40 white gtz vein - Trace Py.	27.67	28.25	0.58	1225	.08	.9		
		28.25	28.80	0.55	Waste				
38.40 - 39.29	SILICEOUS DOLOMITTE & QUARTZ VEINING - TR. Pyrite.	28.80	29.47	0.67	1226	.23	.7		
		29.47	29.87	0.40	1227	.06	.7		
39.29 - 41.45	LIMY PHYLLITE with gtz stringers & veinlets.	29.87	30.78	0.91	1228	.04	.7		
		30.78	31.54	0.76	29	.19	1.3		
41.45 - 42.36	QUARTZ VEINING & SILICIFIED DOLOMITTE - Trace Pyrite	31.54	32.31	0.77	1230	.05	1.2		
		32.31	33.13	0.82	31	1.01	.8	.82g	
42.36 - 44.50	SILICEOUS DOLOMITTE & gtz stringers TRACE Pyrite.	33.13	33.53	0.40	32	1.56	.9	.624	
		33.53	33.83	0.30	33	1.04	1.4	1.318	2.412
44.50 - 65.53	LIMY ARGILLACEOUS PHYLLITE & DOLOMITTE sections with gtz stringers & veinlets.	33.83	34.29	0.46	34	1.41	6.4	.648	1.98m 1.218g
		34.29	34.74	0.45	35	.34	1.4	.153	6.5' 0.035
		34.74	35.20	0.46	36	.26	.7		
65.33 - 68.88	SILICEOUS DOLOMITTE	35.20	35.66	0.46	37	.13	1.7		
	65.55 - 66.14 gtz veining.	35.66	36.12	0.46	38	8.86	73.	4.015	
		36.12	36.42	0.30	39	.54	3.3	.162	
		36.42	36.88	0.46	1240	.08	.1	.037	6.2' 0.2
	ACID TEST @ 62.4 M = 61°	36.88	37.49	0.61	41	3.26	9.2	1.988	1.83m 3.42g
		37.49	37.79	0.30	Lost Core				6.0' 0.100
	HOLE CEMENTED TOP-BOTTOM - CASING PULLER.	37.79	38.25	0.46	1242	.31	1.2		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-2 of 2

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....

Hole No. WIN-37 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		38.25	38.80	0.41	1243	.16	1.1		
		38.80	39.32	0.40	1244	.16	1.2		
		39.32	39.80	0.48	waite				
		39.80	40.60	0.80	1245	.09	1.2		
		40.60	41.45	0.85	waite				
		41.45	41.75	0.30	1246	2.25	2.44		
		41.75	42.06	0.31	1247	.93	.8		
		42.06	42.30	0.30	48	.29	.8		
		42.30	44.90	2.60	waite				
		44.90	45.87	0.97	1249	.13	2.2		
		45.87	50.29	4.42	waite				
		50.29	50.59	0.30	1250	.06	1.0		
		50.59	58.06	7.47	waite				
		58.06	58.67	0.61	1251	.08	.6		
		58.67	65.53	7.40	waite				
		65.53	66.14	0.61	1252	.10	.7		
			F.O.H.						
			SLURRIES						
		4.88	7.92	3.05	1439	1.26	1.5		
		7.92	10.97	3.05	1440	.95	1.5		
		10.97	14.02	3.05	41	.34	.5		
		14.02	17.07	3.05	42	.57	1.5		
		17.07	20.11	3.0	43	4.95	2.5		
		20.11	23.16	3.0	44	1.01	2.0		
		23.16	26.21	3.0	45	.11	1.0		
		26.21	29.26	3.0	46	.45	2.0		
		29.26	32.31	3.0	47	.38	1.5		
		32.31	35.35	3.0	48	.76	2.0		
		35.35	38.40	3.0	49	8.79	38.0		
		38.40	41.45	3.0	1450	1.31	5.5		
		41.45	44.50	3.0	1451	.79	6.0		
		44.50	47.55	3.0	52	.71	5.0		
		47.55	50.59	3.0	53	.79	5.5		
		50.59	53.64	3.0	54	.60	3.5		
		53.64	56.69	3.0	55	.52	2.5		
		56.69	59.74	3.0	56	.59	2.0		
		59.74	62.79	3.0	57	.81	3.5		
		62.79	65.83	3.0	58	.32	1.0		
		65.83	68.88	3.0	1459	.67	1.0		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-1 OF 5

Property WINNIFLOWFER Project No. 224 Depth 168.55 Date Began Sept. 15/86  
 Hole No. WIN-38 Co ord. 2534 Horizontal Length \_\_\_\_\_ Date Completed Sept. 18/86  
 Claim No. L-12481 42E Core Size N.Q. Drilled By D.M.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -60° W Elevation 2006.12 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0-8.53	CASING					7/4T	P.P.M.		
8.53-22.55	Limy ARGILLACEOUS PHYLLITE & DOLOMITE with scattered glz stringers, veinlets & veining	9.0	9.48	0.48	1253	.06	.3		
		9.48	10.12	0.64	waste				
		10.12	10.91	0.79	1254	.30	1.7		
		10.91	11.58	0.67	1255	.12	.9		
	9.05-9.48 glz vein	11.58	15.91	4.33	waste				
	10.12-11.58 scattered glz veining	15.91	16.27	0.36	1256	.07	.5		
	15.91-16.27 glz veinlets	16.27	17.49	1.22	waste				
	17.49-17.77 glz veining	17.49	17.77	0.28	1257	.05	.6		
		17.77	22.55	4.78	waste				
22.55-24.62	QUARTZ VEINING & Limy PHYLLITE & DOLOMITE - TR. PY	22.55	23.04	0.49	1258	.47	.7		
		23.04	23.47	0.43	1259	.17	1.5		
24.62-26.21	SILICEOUS GREY PHYLLITE	23.47	24.17	0.70	1260	1.12	.7		
		24.17	24.62	0.45	61	.13	.7		
26.21-31.54	QUARTZ VEINING & STRONGLY SILICEOUS Limy GREY PHYLLITE & DOLOMITE - TRACE PYRITE.	24.62	26.21	1.59	waste				
		26.21	26.82	0.61	1262	.23	1.0		
		26.82	27.28	0.46	63	.09	.5		
31.54-39.62	Limy & SILICEOUS GREY ARGILLACEOUS PHYLLITE & DOLOMITE with glz stringers & veinlets. - trace Pyrite	27.28	27.58	0.30	64	1.04	.6		
		27.58	28.19	0.61	65	.52	.8		
		28.19	28.80	0.61	66	.04	.5		
		28.80	29.41	0.61	67	.76	.7		
39.62-40.69	QUARTZ VEINS & STRONGLY SILICEOUS DOLOMITE - TR. PY.	29.41	30.02	0.61	68	.17	1.1		
		30.02	30.63	0.61	69	.06	.6		
40.69-48.09	Limy ARGILLACEOUS & SILICEOUS PHYLLITE - DOLOMITE - TR. PY.	30.63	30.93	0.30	1270	.17	.5		
		30.93	31.54	0.61	71	.43	.8		
48.09-51.51	QUARTZ VEINING & SILICEOUS DOLOMITE with Argillaceous sections - trace Pyrite	31.54	33.22	1.68	waste				
		33.22	33.83	0.61	1272	.44	.9		
		33.83	34.44	0.61	1273	.03	.7		
51.51-60.26	STRONGLY SILICEOUS ARGILLACEOUS PHYLLITE & DOLOMITE scattered glz stringers & veinlets. - trace Pyrite	34.44	35.05	0.61	74	.09	.8		
		35.05	35.81	0.76	75	.02	.7		
		35.81	38.71	2.90	waste				
60.26-61.35	QUARTZ VEINING & Limy PHYLLITE - trace Pyrite	38.71	39.32	0.61	1276	.12	.9		
		39.32	39.62	0.30	77	.25	1.0		
61.35-63.39	BROKEN LIMONITE - GREY QUARTZ VEIN	39.62	40.23	0.61	78	.27	1.2		
		40.23	40.69	0.46	79	.12	.8		
	62.05-62.23 Last Core.	40.69	44.77	4.08	waste				
		44.77	45.72	0.95	1280	.23	.5		
63.39-64.01	Limy ARGILLACEOUS PHYLLITE	45.72	46.33	0.61	waste				
		46.33	46.94	0.61	1281	1.03	.7		
		46.94	47.39	0.45	1282	1.03	.5		




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-2 OF 5

Property WINDFLOWATER Project No. 224 Depth ..... Date Begun .....

Hole No. WIN-38 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.	Ag.	Cu.	Zn.
64.01 - 66.44	SHEARED & Broken Dolomite - Marble qtz stringers. Trace Pyrite	47.39	47.85	0.46	1283	<.03	.7		
		47.85	48.46	0.61	1284	<.03	.6		
		48.46	49.07	0.61	85	<.03	.4		
66.44 - 75.47	Lime & Siliceous Argillite - Phyllite strongly siliceous with numerous qtz stringers & dolomite. Trace Pyrite.	49.07	49.68	0.61	86	<.03	.5		
		49.68	50.29	0.61	87	<.03	.4		
		50.29	50.90	0.61	88	<.03	.5		
		50.90	51.51	0.61	89	<.03	.5		
75.47 - 75.71	Broken Quartz Vein	51.51	52.12	0.61	1290	.05	.7		
		52.12	52.73	0.61	91	<.03	.7		
75.71 - 82.41	Dolomite - Marble	52.73	53.03	0.36	92	.34	.8		
		53.03	54.10	1.07	93	.03	.8		
		54.10	59.83	5.73	waste				
82.41 - 83.06	Lime Phyllite - Argillite Trace Pyrite	59.83	60.35	0.52	1294	.03	.3		
		60.35	61.02	0.67	95	.26	.7		
		61.02	61.35	0.33	96	.32	.7		
85.34 - 86.54	Foliated Marble - Dolomite	61.35	62.05	0.70	97	26.0	12.7	18.2	
		62.05	62.63	0.58	Lost Core	22.0		12.76	
86.54 - 89.91	Lime Grey Argillite - Black Dolomite	62.63	63.09	0.46	1298	18.0	7.3	8.28	45.60
		63.09	63.40	0.31	99	4.58	4.1	1.42	2.05m 19.83
		63.40	66.60	3.20	waste				6.7' 0.578
89.91 - 92.11	Foliated Marble Siliceous.	66.60	67.17	0.57	1300	.19	.7		
		67.17	70.80	0.83	waste				
		70.80	71.63	0.83	1301	.61	.5		
92.11 - 95.09	Lime Graphitic Argillite - Black Dolomite qtz veinlets Trace Pyrite 92.96-93.57 Lost Core.	71.63	73.51	1.88	waste				
		73.51	74.37	0.86	1302	.49	.5		
		74.37	75.47	1.10	waste				
95.09 - 95.25	SURFACED MARBLE	75.47	76.01	0.54	1303	.36	.6		
		76.01	81.23	5.22	waste				
		81.23	81.93	0.70	1304	.11	.8		
99.36 - 117.65	Siliceous Marble 99.42 - 99.67 Lost Core Trace Pyrite.	81.93	82.14	0.21	waste				
		82.14	82.90	0.76	1305	.08	.6		
		82.90	91.89	8.99	waste				
		91.89	92.35	0.46	1306	.06	1.0		
117.65 - 119.17	MAINLY QUARTZ VEIN WITH MARBLE - Dolomite - Argillaceous Phyllite Trace to 5% Pyrite in qtz	92.35	92.96	0.61	1307	.16	1.1		
		92.96	93.57	0.61	Lost Core				
		93.57	94.18	0.61	1308	.16	1.2		
		94.18	94.49	0.31	1309	.06	1.1		
119.17 - 128.01	ZONE OF QUARTZ VEINING IN Siliceous Dolomite - Marble Siliceous Black Marble & Siliceous Argillite. Trace Pyrite Trace Sphalerite & 128.17	94.49	95.09	0.60	1310	.07	1.1		
		95.09	95.77	0.68	1311	.14	.7		
		95.77	96.31	0.54	1312	.39	.3		
121.40 - 121.61	grey qtz vein								

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-3025

Property WINDFLOWER Project No. 224 Depth ..... Date Began .....  
 Hole No. WIN-38 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.	Ag.	Cu.	Zn.	
128.01 - 131.67	SILICEOUS LIMY ARBULLITE scattered gl3 stringers.	96.31	96.77	0.46	1313	1.52	.7			
		96.77	97.23	0.46	1314	1.97	.9			
		97.23	97.84	0.61	15	1.09	1.8			
131.67 - 135.02	MINERALIZED SILICEOUS LIMY ARBULLITE & QUARTZ VEINING	97.84	98.29	0.45	16	2.32	15.3			
	TR - 20% Pyrite as fine earthy type	98.29	98.75	0.46	17	.18	7.5			
	134.32 - 134.54 gl3 carbonate vein.	98.75	99.36	0.61	18	.28	2.4			
		99.36	99.67	0.31	best core					
		99.67	99.97	0.30	1319	.49	1.1			
135.02 - 136.55	QUARTZ VEINING & LIMY SILICEOUS ARBULLITE Trace Pyrite	99.97	117.65	17.68	waste					
		117.65	118.02	0.37	1320	.05	.9			
		118.02	118.56	0.54	21	.14	1.5			
136.55 - 139.57	SLIGHTLY MINERALIZED SILICEOUS LIMY ARBULLITE gl3 stringers & veinlets Trace to 10% Pyrite	118.56	119.17	0.61	22	.11	1.5			
		119.17	119.78	0.61	23	.20	1.3			
		119.78	120.39	0.61	24	.43	2.1			
	138.35 - 138.68 grey gl3 vein.	120.39	121.16	0.77	25	.10	.8			
		121.16	121.61	0.45	26	.05	.5			
139.59 - 144.78	BROKEN WHITE TO GREY QUARTZ VEIN - Trace Pyrite Matrix of ARBULLITE & MARBLE	121.61	122.22	0.61	27	.08	.9			
	142.52 - 144.47 Lost Core	122.22	122.88	0.61	28	.10	1.0			
	144.72 - 144.93 Lost Core	122.88	123.44	0.61	29	.08	1.0			
	(141.73 - 144.78 FAULT ZONE)	123.44	124.05	0.61	1330	.06	.9			
		124.05	124.66	0.61	31	.31	1.4			
		124.66	125.27	0.61	32	1.37	1.8			
144.78 - 147.22	BROKEN GRANITIC ARBULLITE & QUARTZ VEINING (FAULT ZONE)	125.27	125.88	0.61	33	.17	1.6			
	146.42 - 146.91 SILICEOUS MARBLE	125.88	126.49	0.61	34	.15	1.5			
		126.49	127.10	0.61	35	.09	1.1			
		127.10	127.55	0.45	36	.09	1.0			
147.22 - 148.53	SILICEOUS LIMY GRANITIC ARBULLITE & gl3 stringers.	127.55	128.01	0.46	37	.19	1.6			
		128.01	129.17	1.16	waste					
148.53 - 149.65	SILICEOUS FUCHSITIC MARBLE	129.17	129.32	0.15	1338	.22	1.4			
		129.32	129.84	0.52	waste					
149.65 - 168.55	SILICEOUS LIMY GRANITIC ARBULLITE scattered gl3 stringers & veinlets Trace Pyrite	129.84	130.30	0.46	1339	1.79	1.6			
		130.30	131.67	1.37	waste					
E.O.H.		131.67	132.13	0.46	1340	3.90	2.5	1.79	0.46	3.90
		132.13	132.59	0.46	41	.45	1.9	1.207	1.5	0.1130
		132.59	132.64	0.45	42	.20	1.2			131.67 - 132.13
	ACID TEST @ 159.7 = 57° 15'	132.64	133.00	0.70	43	.47	1.6			
		133.00	134.32	0.52	44	.54	1.8			
	HOLES CEMENTED	134.32	134.54	0.22	45	.15	2.4			
		134.54	135.02	0.48	46	.76	2.9			
	CASING PULLED.	135.02	135.48	0.46	1347	2.31	1.7	1.06		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-4055

Property WINDFLOWER Project No. 274 Depth ..... Date Begun .....

Hole No. WIN-38 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		135.48	136.03	0.55	1348	1.28	.7	.704	
		136.03	136.85	0.82	1349	.28	1.5	.229	
		136.85	137.46	0.61	1350	.52	1.4	.317	
		137.46	138.32	0.87	51	1.01	2.2	.878	
		138.32	138.68	0.36	52	.89	2.7	1.320	
		138.68	138.99	0.31	53	1.19	2.9	.369	
		138.99	139.60	0.61	54	1.80	2.9	1.098	
		139.60	140.36	0.76	55	3.99	7.3	3.032	
		140.36	140.81	0.45	56	.53	1.8	.238	9.989
		140.81	141.42	0.61	57	1.22	1.2	.744	64m 1.409
		141.42	141.88	0.46	58	.11	.2		21' 0.040
		141.88	142.52	0.64	59	.17	.8		135.02- 141.42
		142.52	144.47	1.95	lost core				
		144.47	144.72	0.25	1360	.15	.9		
		144.72	144.93	0.21	lost core				
		144.93	145.51	0.58	1361	.81	1.2		
		145.51	145.90	0.39	62	.42	.6		
		145.90	146.45	0.55	63	1.14	1.5		
		146.45	146.82	0.37	64	.75	.8		
		146.82	147.52	0.70	65	.49	1.0		
		147.52	148.53	1.01	66	.34	1.6		
		148.53	150.57	2.04	67	.49	1.3		
		150.57	151.97	1.40	waste				
		151.97	152.70	0.73	1368	.41	1.6		
		152.70	153.31	0.61	1369	.36	1.6		
		153.31	153.92	0.61	70	.27	1.4		
		153.92	154.38	0.46	71	.17	1.1		
		154.38	155.99	1.61	waste				
		155.99	156.24	0.25	1372	.18	1.0		
		156.24	158.55	12.31	waste				
					F.O.H.				


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

Property WINDFLOWER Project No. 224 Depth 168.55 Date Began Sept. 15/86  
 Hole No. WIN-38 Co ord. 253 N Horizontal Length \_\_\_\_\_ Date Completed Sept. 18/86  
 Claim No. L-124E1 42E Core Size 1.2 Drilled By D. M. D.  
 Grid No. \_\_\_\_\_ Angle & Direction -60° W Elevation 2006.12 Logged By P. J. D.

INTERVAL FEET/METRES	DESCRIPTION <u>SLUDGES</u>	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
						<u>9/1</u>	<u>9/1</u>		
		<u>8.53</u>	<u>17.38</u>	<u>8.84</u>	<u>902</u>	<u>.04</u>	<u>.5</u>		
		<u>17.37</u>	<u>20.42</u>	<u>3.05</u>	<u>903</u>	<u>.06</u>	<u>.5</u>		
		<u>20.42</u>	<u>23.47</u>	<u>3.05</u>	<u>904</u>	<u>.14</u>	<u>1.0</u>		
		<u>23.47</u>	<u>29.57</u>	<u>6.10</u>	<u>905</u>	<u>.27</u>	<u>.5</u>		
		<u>29.57</u>	<u>35.66</u>	<u>6.09</u>	<u>906</u>	<u>1.99</u>	<u>1.0</u>		
		<u>35.66</u>	<u>44.47</u>	<u>9.15</u>	<u>907</u>	<u>.43</u>	<u>.5</u>		
		<u>44.81</u>	<u>53.95</u>	<u>9.14</u>	<u>908</u>	<u>.13</u>	<u>.5</u>		
		<u>53.95</u>	<u>63.09</u>	<u>9.14</u>	<u>909</u>	<u>20.80</u>	<u>4.0</u>		
		<u>63.09</u>	<u>66.14</u>	<u>3.05</u>	<u>910</u>	<u>8.80</u>	<u>5.5</u>		
		<u>66.14</u>	<u>69.19</u>	<u>3.05</u>	<u>911</u>	<u>3.42</u>	<u>1.0</u>		
		<u>69.19</u>	<u>75.29</u>	<u>6.10</u>	<u>912</u>	<u>1.05</u>	<u>1.0</u>		
		<u>75.29</u>	<u>78.33</u>	<u>3.04</u>	<u>913</u>	<u>.19</u>	<u>.5</u>		
		<u>78.33</u>	<u>81.38</u>	<u>3.05</u>	<u>914</u>	<u>.15</u>	<u>.5</u>		
		<u>81.38</u>	<u>84.43</u>	<u>3.05</u>	<u>915</u>	<u>.71</u>	<u>.5</u>		
		<u>84.43</u>	<u>87.48</u>	<u>3.05</u>	<u>916</u>	<u>.49</u>	<u>.5</u>		
		<u>87.48</u>	<u>90.53</u>	<u>3.05</u>	<u>917</u>	<u>.06</u>	<u>.5</u>		
		<u>90.53</u>	<u>93.57</u>	<u>3.04</u>	<u>918</u>	<u>.09</u>	<u>.5</u>		
		<u>93.57</u>	<u>96.62</u>	<u>3.05</u>	<u>919</u>	<u>1.12</u>	<u>.5</u>		
		<u>96.62</u>	<u>99.67</u>	<u>3.05</u>	<u>920</u>	<u>3.30</u>	<u>2.5</u>		
		<u>99.67</u>	<u>102.72</u>	<u>3.05</u>	<u>921</u>	<u>.16</u>	<u>1.0</u>		
		<u>102.72</u>	<u>105.77</u>	<u>3.05</u>	<u>922</u>	<u>.45</u>	<u>1.0</u>		
		<u>105.77</u>	<u>108.81</u>	<u>3.04</u>	<u>923</u>	<u>1.02</u>	<u>.5</u>		
		<u>108.81</u>	<u>111.86</u>	<u>3.05</u>	<u>924</u>	<u>.11</u>	<u>.5</u>		
		<u>111.86</u>	<u>114.91</u>	<u>3.05</u>	<u>925</u>	<u>.09</u>	<u>.5</u>		
		<u>114.91</u>	<u>117.46</u>	<u>3.05</u>	<u>926</u>	<u>.37</u>	<u>1.0</u>		
		<u>117.46</u>	<u>121.01</u>	<u>3.05</u>	<u>927</u>	<u>.15</u>	<u>1.5</u>		
		<u>121.01</u>	<u>133.20</u>	<u>12.19</u>	<u>928</u>	<u>.75</u>	<u>1.0</u>		
		<u>133.20</u>	<u>136.25</u>	<u>3.05</u>	<u>929</u>	<u>.67</u>	<u>1.5</u>		
		<u>136.25</u>	<u>139.29</u>	<u>3.04</u>	<u>930</u>	<u>.59</u>	<u>3.0</u>		
		<u>139.29</u>	<u>142.34</u>	<u>3.05</u>	<u>931</u>	<u>1.75</u>	<u>1.5</u>		
		<u>142.34</u>	<u>145.39</u>	<u>3.05</u>	<u>932</u>	<u>.52</u>	<u>2.0</u>		
		<u>145.39</u>	<u>148.44</u>	<u>3.05</u>	<u>933</u>	<u>1.22</u>	<u>2.0</u>		
		<u>148.44</u>	<u>151.49</u>	<u>3.05</u>	<u>934</u>	<u>.73</u>	<u>2.0</u>		
		<u>151.49</u>	<u>163.68</u>	<u>12.19</u>	<u>935</u>	<u>.92</u>	<u>1.0</u>		
		<u>EOH</u>							


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-1 OF 3

Property Wind Flower Project No. 224 Depth 40.54 Date Began Sept. 19/86  
 Hole No. Win-39 Co ord. 307N Horizontal Length \_\_\_\_\_ Date Completed Sept. 24/86  
 Claim No. L-12481 \_\_\_\_\_ 17E Core Size N.Q. Drilled By K.E.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -45°W Elevation 2005.95 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD									
		FROM	TO	WIDTH	SAMPLE	Au g/MT	Ag g/MT	Cu	Zn		
0 - 3.05	CASING	4.16	5.09	0.93	21563	.10	.3				
		5.09	6.10	1.01	21564	.03	.3				
3.05 - 19.50	Very Strongly Siliceous Argillaceous Phyllite - Dolomite	6.10	7.01	0.91	21565	.03	.4				
	NUMEROUS QUARTZ STRINGERS & VEINLETS - TRACE PYRITE	7.01	7.92	0.91	21566	.04	.4				
		7.92	8.84	0.92	21567	.03	.3				
19.50 - 27.12	Limy Argillaceous Phyllite - Limy Argillite - Siliceous Dolomite	10.24	11.13	0.92	21568	.03	.3				
	scattered gl. stringers & veinlets	11.13	12.04	0.91	21569	.03	.5				
	TRACE PYRITE	12.65	13.26	0.61	21570	.03	.5				
		13.26	14.37	1.07	21571	.03	.4				
27.12 - 27.89	MAIN QUARTZ - SULPHIDE ZONE (WEST VEIN)	14.33	15.24	0.91	21572	.05	.4				
	MINERALIZED TO SOLID SULPHIDE - PYRITE	15.24	16.15	0.91	21573	.03	.4				
	ARGILLACEOUS - QUARTZ - CARBONATE ROCK	16.15	17.07	0.92	21574	.03	.3				
		17.07	17.68	0.61	21575	.03	.4				
27.89 - 28.95	Limy Argillite to Graphitic Argillite	17.68	18.29	0.61	21576	.03	.4				
		18.29	18.90	0.61	21577	.03	.7				
28.95 - 29.87	Dolomite - Marble	18.90	19.20	0.30	21578	.03	.5				
		19.20	19.51	0.31	21579	.03	.4				
29.87 - 30.78	SHEARED AND BROKEN QUARTZ VEINING & GRAPHITIC ARGILLITE	19.51	20.12	0.61	21580	.08	1.2				
	TRACE TO 1% PYRITE	20.12	20.73	0.61	21581	.03	1.1				
		20.73	21.64	0.91	21582	.49	1.5				
30.78 - 34.50	Limy & Silicified Graphitic Argillite - minor gl. veinlets	23.26	24.54	1.28	21583	.12	.8				
		24.54	24.99	0.45	21584	5.69	1.5				
34.50 - 36.03	Siliceous & Argillaceous Dolomite - trace Pyrite	24.99	25.48	0.49	21585	.12	.9				
	gl. stringers	25.48	25.60	0.12	21586	.03	.5				
		25.60	26.37	0.77	21587	.29	1.3				
36.03 - 36.30	QUARTZ VEIN	26.37	26.73	0.36	21588	.03	.5				
		26.73	27.13	0.40	21589	.11	.5				
36.30 - 40.54	Siliceous Dolomite	27.13	27.43	0.30	21590	1.42	2.4				
	gl. stringers	27.43	27.74	0.31	21591	9.80	25.3				
F.O.H.		27.74	27.92	0.18	21592	.23	1.6				
		27.92	28.35	0.43	21593	.03	1.2				
		28.35	28.96	0.61	21594	.05	1.0				
	ACID TEST @ 39.6 = 45°	29.87	30.33	0.46	21595	.12	.6				
		30.33	30.78	0.45	21596	.40	2.5				
		30.78	31.39	0.61	21597	.66	1.4				
	HOLES CENTERED - TOP to BOTTOM	34.14	34.75	0.61	21598	.28	1.1				
		34.75	35.66	0.91	21599	.06	.6				
	CASING PULLED.	35.66	36.27	0.61	21600	.17	.8				
		36.27	36.88	0.61	21601	.39	1.7				
		36.88	37.49	0.61	21602	.10	.4				






**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-1 of 4

Property... Wind Flowers ..... Project No. 224 ..... Depth 138.38 ..... Date Began Sept. 15/86  
 Hole No. Win-40 ..... Co ord. 284 N ..... Horizontal Length ..... Date Completed Sept. 21/86  
 Claim No. 4-12481 ..... 49 E ..... Core Size NA ..... Drilled By D.M.D.  
 Grid No. .... Angle & Direction -53° W ..... Elevation 2013.70 ..... Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 1.52	CASING	4.26	4.87	0.61	1373	.14	.6		
		4.87	5.48	0.61	1374	.27	.6		
1.52 - 12.19	STRONGLY OXIDIZED & LEACHED LIMY & SILICEOUS GREY PHYLLITE - ARGILLITE - DOLOMITIC with scattered glz stringers & v. nodules. Veggy sections - 1% Pyrite in Parts End of oxidation @ 12.19	5.48	6.09	0.61	1375	.15	.7		
		6.09	6.70	0.61	1376	.16	.5		
		6.70	7.16	0.46	1377	.09	.6		
		7.16	7.46	0.30	1378	.03	.3		
		7.46	8.01	0.55	1379	.05	.8		
		8.01	8.53	0.52	1380	2.03	.7		
	7.16 - 7.46 glz veinings Lost Core 8.53 - 9.14	8.53	9.14	0.61	lost core				
	10.97 - 12.19 less oxidized	9.14	9.75	0.61	1381	.03	.6		
		9.75	10.36	0.61	1382	.06	.6		
12.19 - 27.73	LIMY GREY PHYLLITE - ARGILLITE - DOLOMITIC scattered glz stringers - trace Pyrite.	10.36	10.97	0.61	1383	.04	.7		
		10.97	11.58	0.61	1384	.04	.9		
		11.58	12.19	0.61	1385	.03	.8		
	14.38 - 15.02 glz v. nodules with trace Pyrite in Siliceous Dolomite	12.19	13.10	0.91	1386	2.03	.7		
		13.10	13.71	0.61	1387	2.03	.6		
	15.02 - 15.54 Lost Core	14.38	15.02	0.64	1388	.04	.4		
	26.21 - 26.97 glz veinings TRACE Sphalerite.	15.02	15.54	0.52	lost core				
		24.84	25.29	0.45	1389	.05	.9		
		26.06	26.97	0.91	1390	.04	.6		
27.73 - 37.18	As Above with glz veinings & TRACE Pyrite	26.97	27.73	0.76	1391	.05	1.0		
		27.73	28.19	0.46	1392	.07	1.1		
	27.73 - 28.19 glz vein	28.19	28.95	0.76	1393	.18	.7		
	28.80 - 28.95 visible sphalerite.	28.95	29.56	0.61	1394	.19	.6		
	29.87 - 30.17 glz vein	29.56	30.17	0.61	1395	.14	.6		
	30.17 - 30.48 Lost Core	30.17	30.48	0.31	lost core				
	32.00 - 32.92 glz veinings	30.48	31.30	0.82	1396	.08	.9		
	36.57 - 37.18 glz vein	31.30	32.00	0.70	42930	.76	.8		
		32.00	32.31	0.31	42931	1.01	.9		
		32.31	32.92	0.61	42932	.32	.6		
37.18 - 55.38	As Above with scattered glz stringers & v. nodules	32.92	33.68	0.76	42933	.25	.7		
		34.96	35.66	0.70	42934	.91	1.4		
	53.40 - 54.10 grey-white glz vein	36.57	37.18	0.61	42935	.21	1.0		
		53.40	54.10	0.70	1397	.54	.5		
		55.78	56.39	0.61	1398	.27	.4		
55.38 - 56.99	GREY-WHITE glz veinings	56.39	56.99	0.60	1399	.04	.3		
		56.99	57.91	0.92	1400	.04	.5		
56.99 - 69.19	As Above with scattered glz stringers.	69.19	69.98	0.79	951	.07	.4		
		69.98	70.77	0.79	952	.08	.4		
	65.38 - 66.29 DOLOMITIC	71.68	72.54	0.86	953	.03	.5		




**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P 2 OF 4

Property ..... Project No. .... Depth ..... Date Began .....

Hole No. Win-40 ..... 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.	Ag.	Cu.	Zn.
69.19 - 70.77	BROKEN DOLOMITE & LIMY ARGILLITE with glz Veining TRACE PYRITE	79.21	79.47	0.22	954	.87	.9		
		84.64	85.10	0.46	955	.07	1.0		
		86.41	87.02	0.61	956	.08	.8		
77 - 75.44	SILICEOUS DOLOMITE & LIMY ARGILLITE & PHYLLITE SECTIONS with scattered glz Veining 71.09 - 72.05 glz Veining TRACE PYRITE 72.23 - 72.54	88.08	88.88	0.80	957	.05	.7		
		90.06	90.37	0.31	958	.05	1.1		
		90.37	90.83	0.46	959	.06	1.5		
		90.83	91.50	0.67	960	.09	2.9		
		91.50	91.96	0.46	961	.07	8.7		
75.44 - 84.34	LIMY ARGILLITE with narrow DOLOMITE SECTIONS TRACE PYRITE odd glz stringer @ 79.31 0.63 cm PYRITE stringer 81.71 - 82.05 trace Pyrite	91.96	92.66	0.70	962	.06	1.2		
		92.66	93.11	0.45	963	.13	.7		
		93.11	93.57	0.46	964	1.62	4.2		
		93.57	93.88	0.31	965	.76	2.1		
		93.88	94.18	0.30	966	1.88	2.8		
84.34 - 93.11	FUCHSITIC DOLOMITE - MARBLE with narrow ARGILLITE SECTIONS. TRACE PYRITE 84.94 - 86.13 ARGILLITE - occasional glz stringer & Veinit. 90.66 - 90.70 2.54 cm glz carbonate stringer @ 30" to Core 91.95 - 91.96 1-5% PYRITE 92.66 - 93.11 glz Veining TRACE Pyrite	94.18	94.70	0.52	967	.09	1.3		
		94.70	95.25	0.55	968	.13	1.6		
		95.25	95.70	0.45	969	2.65	2.2	0.11m	3.06 g/t
		95.70	96.16	0.46	970	4.65	3.9		0.039 g/t
		96.16	96.47	0.31	971	.26	.7		
		96.47	97.23	0.76	972	.05	1.2		
		97.23	97.84	0.61	973	.03	.6		
3.11 - 95.25	MINERALIZED SURFACED FUCHSITIC DOLOMITE - MARBLE 5-80% PYRITE 93.11 - 93.57 50% Pyrite 93.57 - 94.18 20% Pyrite 94.18 - 95.25 5% Pyrite	97.84	98.23	0.39	974	3.24	3.1		
		98.23	98.54	0.31	975	12.0	23.9		
		98.54	98.90	0.36	976	2.15	3.2		
		98.90	99.36	0.46	977	.14	.4		
		99.36	99.82	0.46	978	3.51	2.7	4.42m	4.005 g/t
95.25 - 96.47	QUARTZ VEIN & NEAR-SOLID PYRITE (MAIN ZONE) - WEST VEIN	99.82	100.12	0.30	979	4.25	2.2		0.117 g/t
		100.12	100.58	0.46	980	8.25	7.4		
		100.58	101.04	0.46	981	3.57	3.5		
96.47 - 97.84	SLIGHTLY MINERALIZED SILICEOUS DOLOMITE - MARBLE 1-3% PYRITE	101.04	101.19	0.15	982	1.46	1.9		
		101.19	101.49	0.30	983	2.31	2.6		
		101.49	101.80	0.31	984	2.67	2.3		
		101.80	102.26	0.46	985	5.82	4.0		
97.84 - 103.93	QUARTZ VEIN & MINERALIZED to NEAR-SOLID SULPHIDE - PYRITE (MAIN ZONE - WEST VEIN) 98.25 - 98.54 well mineralized GRAPHITE ARGILLITE with 30% Pyrite	102.26	102.56	0.30	986	1.58	8.2		
		102.56	103.02	0.46	987	.08	.1		
		103.02	103.48	0.46	988	.13	.3		
103.93 - 106.07	BADLY BROKEN GRAPHITE ARGILLITE - QUARTZ & SULPHIDE (FALL ZONE) 105.74 - 106.07 Core - Broken Dolomite - Mud - Glz. Lost Core 104.54 - 104.85, 105.61 - 105.74	103.48	103.93	0.45	989	.05	.1		
		103.93	104.24	0.31	990	1.61	1.4		
		104.24	104.54	0.30	991	.18	1.0		
		104.54	104.85	0.31	Lost Core	host core			
		104.85	105.61	0.76	992	.59	2.9		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-3 of 4

Property WINDFLOWER Project No. 224 Depth ..... Date Begun .....

Hole No. WIN-40 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.	Ag.	Cu.	Zn.
106.07-106.56	FUCHSITE DOLOMITE - MARBLE	105.61	105.76	0.15	lost core				
		105.76	106.07	0.31	993	.80	2.7		
106.56-107.59	LOST CORE	106.07	106.56	0.49	994	.03	.8		
		106.56	107.59	1.03	lost core				
107.59-108.20	CRATE - Bouldy (Pebbles) gtz & Sulphide - Pyrite	107.59	108.20	0.61	995	1.98	1.8		
		108.20	108.81	0.61	996	.06	.5		
108.20-110.64	MASSIVE FUCHSITE DOLOMITE - MARBLE	108.81	109.42	0.61	997	.06	.4		
		109.42	110.03	0.61	998	.03	1.0		
110.64-111.25	WEAKLY MINERALIZED SILICEOUS & LIMY ARGILLITE - DOLOMITE to FUCHSITE DOLOMITE	110.03	110.64	0.61	999	.03	1.1		
	TRACE to 2% PYRITE	110.64	111.10	0.46	1000	.03	.8		
		111.10	111.71	0.61	42937	.23	1.3		
		111.71	112.01	0.30	42938	1.25	2.2		
111.25-111.77	STRONGLY SULFURED ARGILLITE - DOLOMITE - QUARTZ WITH FUCHSITE 1-3% PYRITE	112.01	112.47	0.46	42937	.40	3.8		
		112.47	112.93	0.46	42940	1.02	3.7		
		112.93	113.23	0.30	42941	.29	.7		
111.77-114.7	MASSIVE CHALCITE QUARTZ VEIN WITH PITCHBLAND & BITUMEN OF FINE GRAINED PYRITE (MAIN ZONE - <del>VEIN</del> VEIN)	113.23	113.54	0.31	42942	.23	1.3		
	114.14-114.45 Vein Sulphide - Pyrite	113.54	113.99	0.45	42943	.55	1.5		
		113.99	114.45	0.46	42944	3.39	2.7		
		114.45	115.06	0.61	42945	.25	1.0		
114.7-115.67	SLIGHTLY MINERALIZED FUCHSITE MARBLE - PYRITE 1-3%	115.06	115.67	0.61	42946	.03	1.0		
		115.67	116.43	0.76	42947	.14	1.4		
115.67-117.34	SLIGHTLY MINERALIZED GRAPHITIC ARGILLITE - 1-5% PYRITE Limy - gtz stringer	116.43	117.04	0.61	42948	.31	1.3		
	117.04-117.73 gtz Veinlets	117.04	117.65	0.61	42949	.02	1.0		
		122.65	123.14	0.49	21551	.08	.9		
		123.14	123.75	0.61	21552	.10	1.1		
117.34-120.30	BRECCIATED GRAPHITIC ARGILLITE WITH Fragments of gtz - Dolomite - Marble	123.75	124.36	0.61	21553	.06	1.0		
		124.36	124.97	0.61	21554	.06	.9		
		124.97	125.58	0.61	21555	.11	.7		
120.30-137.00	MINERALIZED DOLOMITE - MARBLE 1-10% PYRITE 123.44-123.74 Fuchsite with 10% Pyrite	125.58	126.19	0.61	21556	2.34	.6		
		133.50	134.11	0.61	21557	.03	.7		
		134.11	134.72	0.61	21558	.03	.5		
137.0-138.37	LIMY GRAPHITIC ARGILLITE WITH NARROW DOLOMITE-MARBLE beds.	134.72	135.33	0.61	21559	.11	.6		
		135.33	135.94	0.61	21560	.03	.7		
E.O.H.		135.94	136.55	0.61	21561	.03	.7		
	ACID Test @ 104.5 & 138.3E = 50° 45'	136.55	137.01	0.46	21562	.13	1.3		
	HOLES CEMENTED				E.O.H.				
	CASING PULLED.								


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-40F4

Property... Wind Flows ..... Project No. ... 224 ..... Depth ..... Date Began .....  
 Hole No. ... Win-40 ..... Co ord. .... Horizontal Length ..... Date Completed .....  
 Claim No. .... Core Size ..... Drilled By .....  
 Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET / METRES	DESCRIPTION	SLUGS			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	g/Au.	g/Ag.	Cu.	Zn.
	Sludges	6.52	7.92	6.40	937	.04	.5		
		7.92	10.97	3.05	938	.09	.5		
		10.97	14.02	3.05	939	.02	.5		
		14.02	17.07	3.05	940	.05	.5		
		17.07	20.12	3.05	941	.02	.5		
		20.12	23.16	3.04	942	.02	.5		
		23.16	26.21	3.05	943	.02	.5		
		26.21	29.26	3.05	944	.04	1.5		
		29.26	32.31	3.05	945	.34	.5		
		32.31	35.36	3.05	946	.59	.5		
		35.36	38.40	3.04	947	.27	.5		
		38.40	41.45	3.05	948	.17	.5		
		41.45	44.50	3.05	949	.09	.5		
		44.50	47.55	3.05	950	.39	1.0		
		156	166			.29	6.0		
		166	176			.37	1.5		
		176	186			.92	.5		
		186	196			.30	.5		
		196	216			.10	.5		
		216	236			1.54	.5		
		236	246			.02	.5		
		246	256			.51	.5		
		256	266			.27	.5		
		266	276			.22	.5		
		276	286			.09	.5		
		286	306			.35	1.5		
		306	316			1.65	3.0		
		316	326			1.82	2.0		
		326	336			7.40	7.0		
		336	346			2.64	2.5		
		346	366			4.75	4.5		
		366	376			3.07	2.5		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

B.1 OF 3

Property WINDFLOWER Project No. 224 Depth 72.23 Date Began Sept. 27/86  
 Hole No. WIN-41 Co ord. 307N Horizontal Length \_\_\_\_\_ Date Completed Sept. 27/86  
 Claim No. L-12481 17E Core Size N.Q. Drilled By K. EXPL. DRILLING  
 Grid No. \_\_\_\_\_ Angle & Direction -65°W Elevation 2005.95 Logged By P. J.D.  
(S21D)

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 2.13	CASING	Core Samples							
		4.27	4.88	0.61	21809	.03	.5		
2.13 - 34.74	SILICEOUS DOLOMITE - PHYLITIC-ARGILLITE Scattered sections of QUARTZ stringers & Veinlets	4.88	5.49	0.61	21810	.03	.2		
		5.49	6.10	0.61	11	.04	.6		
		6.10	6.71	0.61	12	.04	.4		
34.74 - 39.53	SILICEOUS limy ARGILLITE - glz stringers & Veinlets TRACE PIRITE	6.71	7.32	0.61	13	.05	.3		
		7.32	7.92	0.60	14	.03	.3		
		7.92	8.53	0.61	21815	.05	.4		
39.53 - 44.80	DOLOMITE - MARBLE Scattered glz stringers	8.53	9.14	0.61	16	.04	.6		
		9.14	9.75	0.61	17	.30	.4		
		9.75	10.36	0.61	18	.33	.4		
44.80 - 46.78	SUPERFICED & BROKEN DOLOMITE with ARGILLACEOUS SECTIONS Scattered glz stringers & veinlets.	10.36	10.97	0.61	19	.03	.5		
		10.97	11.58	0.61	21820	.11	.5		
		11.58	12.19	0.61	21	.04	.6		
46.78 - 51.51	MAIN QUARTZ VEIN & SULPHIDE ZONE	12.19	12.80	0.61	22	.04	.5		
		12.80	13.41	0.61	23	.10	.3		
	46.78 - 47.24 glz vein - TRACE PIRITE	13.41	14.02	0.61	24	.03	.5		
	47.24 - 51.91 Dglz vein - Solid Sulphide - PIRITE	14.02	14.63	0.61	21825	2.03	.6		
		14.63	15.24	0.61	26	.04	.6		
51.91 - 60.2	DOLOMITE with ARGILLACEOUS SECTIONS & glz Veining	15.24	15.85	0.61	27	.10	.4		
		15.85	16.46	0.61	28	2.03	1.5		
	54.56 - 54.74 glz vein with coarse Pirite (5%)	16.46	17.07	0.61	29	.07	.7		
	55.17 - 55.65 grey glz vein	17.07	17.68	0.61	21830	.04	.8		
	56.23 - 57.60 glz Veining	17.68	18.29	0.61	31	.05	.9		
	58.21 - 58.67 Dglz Veining - Coarse Pirite, TR = 3%	18.29	18.90	0.61	32	.03	.8		
		18.90	19.51	0.61	33	.03	.6		
		19.51	20.03	0.52	34	.04	.8		
60.2 - 72.23	GREY DOLOMITE WITH PHYLITIC & ARGILLACEOUS SECTIONS 2nd glz Veinlets BRECCIATED - TRACE PIRITE	20.03	20.42	0.39	21835	.06	1.2		
		20.42	21.03	0.61	36	.19	1.3		
		21.03	21.64	0.61	37	.25	.8		
F.D.H.	60.04 - 62.08 grey glz veinlets.	21.64	22.25	0.61	38	.11	1.0		
	62.08 - 68.58 glz vein - Trace Sphalerite.	22.25	22.86	0.61	39	.65	1.3		
		22.86	23.47	0.61	21840	.16	1.2		
		23.47	24.08	0.61	41	.08	.8		
	ACID TEST @ 68.6 = 60° 30'	24.08	24.69	0.61	42	.03	.6		
		24.69	27.86	2.62	43	.44	.7		
	HOLE CEMENTED TOP TO BOTTOM	27.86	32.00	0.61	44	.04	.9		
		32.00	46.73	0.51	45	.33	1.0		
	CASING PULLED.	46.73	47.24	0.51	46	.33	1.0		
		47.24	47.70	0.46	46	21.5	30	7.37	
		47.70	48.66	0.46	21847	11.1	22.1	5.10	


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P. 2 OF 3

Property wind flower Project No. 224 Depth ..... Date Began .....

Hole No. win. 41 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. L-12481 Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		48.16	48.62	0.46	21848	.99	2.8	0.455	
		48.62	49.07	0.45	49	.23	3.3	.103	
		49.07	49.53	0.46	21850	6.97	8.4	3.250	
		49.53	50.08	0.55	51	10.8	23.0	5.940	
		50.08	50.60	0.52	52	12.72	13.7	1.414	
		50.60	51.05	0.45	53	.59	1.9	1.265	
		51.05	51.51	0.46	54	8.16	18.2	3.753	
		51.51	51.82	0.31	21855	4.01	18.3	1.243	32.013
		51.82	52.43	0.61	56	.41	1.4		4.73m 16.768
		52.43	53.04	0.61	57	.30	1.0		15.5ft 0.197
		53.04	54.56	0.30	58	3.27	5.1		0.30 3.279
		54.56	54.86	0.30	58	3.27	5.1		0.30 3.279
		54.86	55.32	0.46	59	.29	.7		1.0 0.095
		55.32	55.63	0.31	21860	.15	.5		
		55.63	56.24	0.61	61	.09	1.1		
		56.24	56.57	0.33	62	.36	1.3		
		56.57	57.00	0.43	63	.58	1.0		
		57.00	57.61	0.61	64	.16	1.1		
		57.61	58.13	0.52	21865	.21	1.4		
		58.13	58.67	0.54	66	.47	.5		
		58.67	60.05	0.61	no sample	.22	.9		
		60.05	60.66	0.60	67	.30	1.0		
		60.66	61.26	0.60	67	.30	1.0		
		61.26	61.72	0.46	68	.36	1.1		
		61.72	61.97	0.25	69	.27	1.9		
		61.97	64.01	0.46	21870	.10	.9		
		64.01	64.47	0.46	71	.07	.9		
		64.47	66.90	0.46	72	.19	.7		
		66.90	67.36	0.46	72	.19	.7		
		67.36	68.12	0.76	73	.54	.8		
		68.12	68.43	0.31	74	.12	.4		
		68.43	68.95	0.52	4875	.12	.8		
		68.95	72.23	3.28	waste				
					END				




**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P-1 OF 8

Property Wind Flower Project No. 224 Depth 192.63 Date Began Sept. 21/86  
 Hole No. Win-42 Co ord. 284 N Horizontal Length \_\_\_\_\_ Date Completed Sept. 25/86  
 Claim No. L-12481 \_\_\_\_\_ 49E Core Size N.Q. Drilled By D.M.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -65° W Elevation 2013.70 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	g Au	g Ag	Cu.	Zn.
0 - 6	CASING	3.90	4.42	0.46	21606	.05	.5		
		4.42	5.06	0.64	21607	.14	.4		
6 - 30.1	SILICEOUS PHYLLITE - ARGILLITE - DOLOMITE scattered gtz stringers & veinlets.	5.06	5.58	0.52	21608	.05	.5		
		5.58	6.10	0.52	21609	.60	.6		
		6.10	6.55	0.45	21610	.04	.4		
30.1 - 40.2	QUARTZ VEIN & QUARTZ VEININGS WHITE TO GREY. CHALCOPYRITIC & GRAPHITIC IN PARTS. DISSEMINATED PYRITE (TR to 5%) DISSEMINATED GOLD IN PARTS - IN gtz and along fractures filled with chlorite and/or GRAPHITE TRACE SPHALERITE & GALENA & CHALCOPYRITIC 32.91 - 34.44 MODERATE to HIGH VISIBLE GOLD. 37.18 - 37.49 VISIBLE GOLD. LOST CORE 39.16 - 40.23	6.55	7.01	0.46	21611	.06	.4		
		10.73	11.22	0.49	21612	.06	.5		
		11.22	11.89	0.67	21613	.31	.5		
		11.89	12.50	0.61	21614	.05	.6		
		12.50	13.11	0.61	21615	.19	.8		
		13.11	13.72	0.61	21616	.07	.8		
		13.72	14.02	0.30	lost core				
		14.02	14.33	0.31	21617	.07	.8		
		17.53	18.14	0.61	21618	.16	.4		
		18.14	18.75	0.61	21619	.08	.3		
		18.75	19.35	0.60	21620	.08	.6		
40.2 - 44.65	QUARTZ VEINING & SILICEOUS PHYLLITE - ARGILLITE - DOLOMITE TR to 1% Pyrite	22.86	23.47	0.61	21621	.07	.5		
		23.47	24.08	0.61	21622	.10	.5		
		24.08	24.69	0.61	21623	.07	.5		
44.65 - 136.0	SILICEOUS PHYLLITE - ARGILLITE - DOLOMITE scattered gtz stringers & veinlets.	24.69	25.30	0.61	21624	.08	.8		
		25.30	25.79	0.49	21625	.07	.4		
		25.79	26.52	0.73	21626	.06	.6		
136.0 - 137.1	QUARTZ VEIN	26.52	27.19	0.67	21627	.09	.7		
		27.19	27.68	0.49	21628	.08	.6		
137.1 - 147.8	SILICEOUS PHYLLITE - ARGILLITE - DOLOMITE	27.68	28.19	0.51	21629	.09	.6		
		28.19	28.80	0.61	21630	.07	.7		
147.8 - 153	QUARTZ VEINING - GRAPHITIC ARGILLITE - DOLOMITE Slight to moderate Pyrite (2-10%) in parts. @ 152 TRACE SPHALERITE & GALENA	28.80	29.26	0.46	21631	.06	.5		
		29.26	29.72	0.46	21632	.08	.8		
		29.72	30.02	0.30	21633	.23	6.7		
		30.02	30.33	0.31	21634	.07	.8		
153 - 159.86	GRAPHITIC ARGILLITE with scattered gtz veinlets & common NW-SE fault zone TRACE PYRITE	30.33	30.78	0.45	21635	2.17	1.6	.976	
		30.78	31.09	0.31	21636	1.66	.7	.514	
		31.09	31.39	0.30	21637	6.70	3.0	2.10	
		31.39	31.85	0.46	21638	3.07	1.4	1.412	
159.86 - 161.39	DOLOMITE	31.85	32.16	0.31	21639	9.02	3.1	2.796	
		32.16	32.61	0.45	21640	1.42	1.4	.639	
161.39 - 163.6	QUARTZ VEIN & DOLOMITE Light - moderate Pyrite (1-10%)	32.61	33.07	0.46	21641	2.41	1.7	1.108	
		33.07	33.38	0.31	21642	335	720	103.85	
		33.38	33.68	0.30	21643	162	29.6	48.60	
		33.68	34.29	0.61	21644	92.2	22.1	56.85	


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P. 2 OF 8

Property ..... Project No. .... Depth ..... Date Began .....

Hole No. Win-42 ..... 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.	Ag.	Cu.	Zn.
163.6 - 163.98	BADLY BROKEN GRAPHITE ARGILLITE - QUARTZ & M.C.D (FAULT ZONE)	34.29	34.59	0.30	21645	50.8	14.1	15.24	
		34.59	34.90	0.31	21646	.78	.6	.242	
		34.90	35.36	0.46	21647	.44	.6	.202	
163.98 - 166.11	LOST CORE	35.36	35.66	0.30	21648	.91	.9	.273	
		35.66	35.97	0.31	21649	9.06	3.0	2.808	
166.11 - 177.4	GRAPHITE ARGILLITE & scattered qtz stringers & veinlets. TRACE PYRITE	35.97	36.42	0.45	21650	.70	.7	.315	
		36.42	36.88	0.41	21651	4.18	1.8	1.714	
		36.88	37.19	0.31	21652	6.08	2.8	1.895	
177.4 - 186.2	QUARTZ VEINING & GRAPHITE ARGILLITE TRACE PYRITE 183.1E - 183.5 FAULT ZONE	37.19	37.49	0.30	21653	20.5	10.5	6.15	
		37.49	37.80	0.31	21654	296	1.1	.017	7.77
		37.80	38.10	0.30	21655	7.33	.6	2.199	7.77
186.2 - 192.63	GRAPHITE ARGILLITE scattered qtz stringers & E.O.H.	38.10	38.40	0.30	21656	.03	.2	.009	
		38.40	38.71	0.31	21657	2.86	.2	.886	
		38.71	39.17	0.46	21658	1.22	3.6	.561	
	ACID TEST @ 149 M = 66° 15'	39.17	40.23	1.06	lost core	1.22		1.293	
		40.23	40.54	0.31	21659	1.66	1.6	.514	
		40.54	41.00	0.46	21660	.09	.9		
	@ 181 M = 66° 15'	41.00	41.45	0.45	21661	.03	.8		
		41.45	41.91	0.46	21662	.14	1.2		
		41.91	42.37	0.46	21663	.03	1.0		
	HOLE CEMENTED TOP TO BOTTOM.	42.37	42.82	0.45	21664	.03	.9		
		42.82	43.43	0.61	21665	.08	.5		
		43.43	43.59	0.16	lost core	.			
		43.59	44.04	0.45	21666	.85	1.1		
		44.04	44.65	0.61	21667	.40	.4		
		44.65	45.11	0.46	21668	.64	1.1		
		45.11	45.72	0.61	21669	.12	.7		
		45.72	46.18	0.46	21670	.03	.6		
		46.18	46.63	0.45	21671	.04	.5		
		46.63	47.09	0.46	21672	.04	.8		
		47.09	47.55	0.46	21673	.21	.4		
		47.55	48.01	0.46	21674	.03	10.9		
		48.01	48.46	0.45	21675	.03	0.6		
		48.46	48.92	0.46	21676	.03	.7		
		48.92	49.07	0.15	lost core	.			
		49.07	49.38	0.31	21677	.03	.8		
		49.38	49.68	0.30	21678	.03	1.0		
		49.68	50.38	0.70	21679	.51	.7		
		50.38	50.60	0.22	21680	.04	.8		
		53.49	54.10	0.61	21681	.03	.6		




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

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Property Wind Flower Project No. 224 Depth ..... Date Began .....

Hole No. Win-42 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. L-12481 Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		54.10	54.71	0.61	21682	.03	0.6		
		54.71	55.32	0.61	21683	.03	0.4		
		55.32	55.93	0.61	21684	.04	0.4		
		55.93	56.39	0.46	21685	.03	.5		
		56.39	57.00	0.61	21686	.08	.6		
		57.00	57.61	0.61	21687	.14	.7		
		57.61	58.22	0.61	21688	1.12	.5		
		58.22	58.92	0.70	21689	.03	.4		
		58.92	59.44	0.52	21690	.03	.4		
		59.44	59.83	0.39	21691	.05	.3		
		61.57	62.18	0.61	21692	.07	.4		
		62.18	62.79	0.61	21693	.16	.7		
		62.79	62.09	0.30	21694	.03	.4		
		62.09	63.70	0.61	21695	.03	.7		
		63.70	64.31	0.61	21696	.03	.6		
		64.31	64.92	0.61	21697	.05	.6		
		64.92	65.53	0.61	21698	.03	.8		
		65.53	66.14	0.61	21699	.05	.9		
		66.14	66.75	0.61	21700	.04	.7		
		66.75	67.36	0.61	21701	.03	.7		
		67.36	67.82	0.46	21702	.30	.7		
		67.82	68.28	0.46	21703	.41	1.0		
		68.28	68.73	0.45	21704	.26	1.2		
		68.73	69.19	0.46	21705	.04	1.1		
		69.19	69.80	0.61	21706	.11	.8		
		69.80	70.41	0.61	21707	.05	.9		
		70.41	71.02	0.61	21708	.03	.7		
		71.02	71.63	0.61	21709	.03	.5		
		71.63	71.93	0.30	21710	.03	.8		
		81.53	82.27	0.74	21711	.03	.9		
		82.27	82.91	0.64	21712	.51	.7		
		82.91	83.52	0.61	21713	.02	.6		
		83.52	84.12	0.60	21714	.15	.9		
		84.12	84.73	0.61	21715	.07	.8		
		84.73	85.34	0.61	21716	.03	.3		
		89.86	90.46	0.60	21717	.03	.5		
		90.46	91.14	0.68	21718	.03	.7		
		99.97	100.59	0.61	21719	.03	.6		
		103.02	103.63	0.61	21720	.03	.4		
		104.85	105.16	0.31	21721	.09	1.4		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

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Property Wind Flower Project No. 224 Depth ..... Date Began .....

Hole No. WIN-42 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. L-12481 Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET / METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		105.16	105.77	0.61	21722	.08	0.6		
		105.77	106.38	0.61	21723	.04	0.4		
		106.38	106.99	0.60	21724	.03	.5		
		106.99	107.59	0.61	21725	.10	1.0		
		107.59	108.20	0.61	21726	.09	.9		
		108.20	108.81	0.61	21727	.09	1.4		
		108.81	109.42	0.61	21728	.17	0.7		
		109.42	110.03	0.61	21729	.06	.6		
		110.03	110.64	0.61	21730	.08	.6		
		110.64	111.25	0.61	21731	.08	.7		
		111.25	111.86	0.31	21732	.07	.6		
		128.63	129.24	0.61	21733	.07	.7		
		129.24	129.84	0.60	21734	.27	.4		
		131.06	131.67	0.61	21735	.18	.6		
		131.67	132.28	0.61	21736	.16	.6		
		132.28	132.89	0.61	21737	.22	.5		
		132.89	133.50	0.61	21738	.11	.9		
		133.50	134.11	0.61	21739	.12	.8		
		134.11	134.72	0.61	21740	.06	.5		
		136.55	137.16	0.61	21741	.13	.8		
		137.16	137.77	0.61	21742	.19	1.4		
		138.68	139.29	0.61	21743	.10	.5		
		139.29	139.90	0.61	21744	.12	.7		
		142.34	142.95	0.61	21745	.06	.8		
		142.95	143.56	0.61	21746	.13	1.3		
		143.56	144.17	0.61	21747	.30	1.2		
		144.17	144.78	0.61	21748	.14	1.4		
		147.83	148.44	0.61	21749	.49	1.5		
		148.44	148.89	0.45	21750	.22	.9		
		148.89	149.35	0.46	21751	.14	2.7		
		149.35	149.81	0.46	21752	1.03	1.6		
		149.81	150.27	0.46	21753	.37	0.7		
		150.27	150.72	0.45	21754	.71	1.6		
		150.72	151.18	0.46	21755	.43	3.7		
		151.18	151.64	0.46	21756	.97	5.0		
		151.64	152.10	0.46	21757	.56	6.4		
		152.10	152.70	0.60	21758	2.14	22.2		
		152.70	153.01	0.31	21759	.85	3.1		
		153.01	153.42	0.61	21760	.21	1.3		
		153.42	154.09	0.46	21761	.18	1.3		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

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Property Windflower Project No. 224 Depth ..... Date Began .....

Hole No. Win-42 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. L 12481 Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		154.08	154.69	0.61	21762	.16	1.6		
		154.69	155.25	1.06	21763	.14	1.2		
		155.25	156.67	0.92	Loss core				
		156.67	157.28	0.61	21764	.52	1.6		
		159.11	159.87	0.76	21765	.12	2.1		
		159.87	160.32	0.51	21766	.11	.9		
		160.32	160.78	0.46	21767	.07	.7		
		160.78	161.24	0.46	21768	.14	.9		
		161.24	161.70	0.46	21769	.32	1.6		
		161.70	162.15	0.45	21770	.15	.9		
		162.15	162.76	0.61	21771	.10	.8		
		162.76	163.22	0.46	21772	.38	.8		
		163.22	163.78	0.56	21773	.15	.9		
		163.78	164.29	0.51	21774	.19	1.5		
		164.29	166.12	1.83	Loss core				
		166.12	166.42	0.30	21775	.10	.7		
			Reduced to	6 Q					
		167.94	168.55	0.61	21776	.10	1.2		
		168.55	169.16	0.61	21777	.15	1.3		
		169.16	169.77	0.61	21778	.13	1.3		
		169.77	170.38	0.61	21779	.20	2.4		
		170.99	171.60	0.61	21780	1.48	2.5		
		171.60	172.52	0.92	21781	.33	1.7		
		172.52	173.13	0.61	21782	.71	1.7		
		173.13	173.74	0.61	21783	4.81	2.5		
		173.74	174.35	0.61	21784	.76	1.9		
		174.35	174.96	0.61	21785	1.17	1.6		
		174.96	175.56	0.61	21786	.37	2.2		
		175.56	176.17	0.61	21787	.86	2.5		
		176.17	176.78	0.61	21788	1.25	3.9		
		176.78	177.39	0.61	21789	.37	2.6		
		177.39	178.00	0.61	21790	1.71	24.9		
		178.00	178.61	0.61	21791	27.6	16.6		
		178.61	179.22	0.61	21792	1.55	3.7		
		179.22	179.83	0.61	21793	.41	2.5		
		179.83	180.44	0.61	21794	.46	1.5		
		180.44	181.05	0.61	21795	3.90	3.3		
		181.05	181.66	0.61	21796	.96	1.6		
		181.66	182.27	0.61	21797	1.23	2.4		
		182.27	182.88	0.61	21798	1.09	2.4		




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

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Property wind Flower Project No. 224 Depth ..... Date Began .....

Hole No. Win-42 Co ord. .... Horizontal Length ..... Date Completed .....

Claim No. L-12481 Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET/METRES	DESCRIPTION	SLUDGES			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		1.83	7.92	6.09	no number				
		7.92	10.97	3.05	12-26	.07	.5		
		10.97	14.02	3.05	26-36	.62	.5		
		14.02	17.07	3.05	36-46	.40	.5		
		17.07	20.12	3.05	46-56	.33	.5		
		20.12	23.16	3.04	56-66	.61	.5		
		23.16	26.21	3.05	66-76	.34	.5		
		26.21	29.26	3.05	76-86	.23	.5		
		29.26	32.31	3.05	86-96	.14	.5		
		32.31	35.36	3.05	96-106	3.59	1.5		
		35.36	38.40	3.04	106-116	61.22	12.0	1	
		38.40	41.45	3.05	116-126	26.81	17.5		
		41.45	44.50	3.05	126-136	7.06	4.5		
		44.50	47.55	3.05	136-146	9.10	7.5		
		47.55	50.60	3.05	146-156	4.60	4.0		
		50.60	53.64	3.04	156-166	3.86	2.5		
		53.64	56.69	3.05	166-176	1.35	2.0		
		56.69	59.74	3.05	176-186	.32	1.0		
		59.74	62.79	3.05	186-196	.65	.5		
		62.79	65.84	3.05	196-206	1.66	1.0		
		65.84	68.88	3.04	206-216	.58	1.5		
		68.88	71.93	2.05	216-226	1.34	.5		
		71.93	74.98	3.05	226-236	3.43	2.5		
		74.98	78.03	3.05	236-246	.91	1.5		
		78.03	81.08	3.05	246-256	.33	1.0		
		81.08	84.12	3.04	256-266	.19	1.0		
		84.12	87.17	3.05	266-276	.64	1.5		
		87.17	90.22	3.05	276-286	.82	1.5		
		90.22	93.27	3.05	286-296	.45	.5		
		93.27	96.32	3.05	296-306	.11	1.0		
		96.32	99.36	3.04	306-316	.24	6.5		
		99.36	102.41	3.05	316-326	.52	1.5		
		102.41	105.46	3.05	no number				
		105.46	108.51	3.05	12501	.19	1.0		
		108.51	111.56	3.05	12502	.18	1.0		
		111.56	114.60	3.04	12503	.34	2.0		
		114.60	117.65	3.05	12504	.26	.5		
		117.65	120.70	3.05	12505	.02	.5		
		120.70	123.75	3.05	12506	.18	1.5		
		123.75	126.80	3.05	12507	.10	.5		




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-10F

Property WINDFLOWER Project No. 224 Depth 147.22 Date Began Sept. 25/86  
 Hole No. WIN-43 Co ord. 284N Horizontal Length \_\_\_\_\_ Date Completed Sept. 2E/86  
 Claim No. L-12481 49E Core Size N.Q. Drilled By D.M.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -7° Elevation 2013.70 Logged By P.J.T.

INTERVAL FEET/METRES	DESCRIPTION	SAMPLE RECORD							
		FROM	TO	WIDTH	SAMPLE	Au. <u>gms</u>	Ag. <u>gms</u>	Cu.	Zn.
0 - 3.96	CASING	4.42	4.88	0.46	21476	.28	.4		
		4.88	5.18	0.30	21877	.32	.5		
3.96 - 13.71	SILICEOUS PHYLLITE - DOLOMITE - ARBILLITE	6.40	7.01	0.61	21878	1.03	.5		
	scattered gtz stringers & veinlets - trace Pyrite	7.01	7.47	0.46	21879	.04	.6		
		7.47	7.92	0.45	21880	.03	.6		
13.71 - 14.32	QUARTZ VEIN	10.36	10.97	0.61	21881	.03	.4		
		10.97	11.58	0.61	21882	.03	.6		
14.32 - 24.38	SILICEOUS PHYLLITE - SIL. DOLOMITE - SIL. ARBILLITE	11.58	12.19	0.61	21883	.03	2.9		
	scattered gtz stringers & veinlets - trace Pyrite	12.19	12.80	0.61	21884	1.03	1.1		
		12.80	13.41	0.61	21885	1.03	.4		
24.38 - 24.87	GREY QUARTZ VEIN	13.41	13.72	0.31	21886	1.03	.4		
		13.72	14.33	0.61	21887	.37	.3		
24.87 - 29.7	SIL. PHYLLITE - SIL. DOLOMITE - SIL. ARBILLITE	14.33	14.63	0.30	21888	1.03	.6		
		17.98	18.59	0.61	21889	.05	.5		
		18.59	19.20	0.61	21890	.03	.4		
29.7 - 33.53	GREY QUARTZ VEINING with DISSEMINATE Pyrite (1-5%)	19.20	19.81	0.61	21891	.06	.5		
	TRACE SPHALERITE - GALENA	19.81	20.42	0.61	21892	.03	.5		
	Possible visible GOLD @ 33.37	20.42	21.03	0.61	21893	1.03	.6		
		21.03	21.49	0.46	21894	1.03	.5		
33.53 - 37.18	MINERALIZED SHEARED DOLOMITE & QUARTZ VEINING	24.14	24.75	0.61	21895	.04	.8		
	Disseminated Pyrite (1-5%)	24.75	25.30	0.55	21896	.04	.5		
	TRACE SPHALERITE - GALENA	25.30	25.91	0.61	21897	.07	1.0		
		27.74	28.35	0.61	21898	.16	.7		
37.18 - 38.71	SHEARED QUARTZ CARBONATE VEIN - TRACE Pyrite	28.35	28.96	0.61	21899	.03	.8		
		28.96	29.57	0.61	21900	.05	.6		
38.71 - 44.2	STRONGLY SILICEOUS DOLOMITE - (Limy Phyllite?)	29.57	29.87	0.30	21901	.03	.7		
	& scattered QUARTZ VEINING	29.87	30.33	0.46	21902	.15	.7		
	TRACE Pyrite	30.33	30.78	0.45	21903	.35	1.0		
42.52 - 43.28	GREY-WHITE QUARTZ VEIN	30.78	31.24	0.46	21904	.08	.9		
	DISS. Pyrite (TR - 2%)	31.24	31.70	0.46	21905	.04	1.0		
		31.70	32.16	0.46	21906	.18	.9		
44.2 - 79.25	SHEARED SILICEOUS DOLOMITE - ARBILLITE - PHYLLITE	32.16	32.46	0.30	21907	.69	.7	207	0.43
	with scattered QUARTZ stringers, veinlets & veining	32.46	32.77	0.31	21908	.72	1.0	223	0.61m 0.7059
	TRACE Pyrite	32.77	33.22	0.45	21909	.05	.8	2.0'	0.020
		33.22	33.68	0.46	21910	.43	1.3		
48.77 - 49.07	gtz & gangue (Fault Zone)	33.68	34.14	0.46	21911	.17	1.1		
		34.14	34.59	0.45	21912	.43	.4		
79.25 - 99.97	MASSIVE DOLOMITE - MARBLE with Euvrite	34.59	35.05	0.46	21913	.13	.9		
	TRACE Pyrite	35.05	35.36	0.31	21914	.06	.4		
	Scattered gtz stringers & veinlets	35.36	35.81	0.45	21915	.15	.3		

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

P 2 OF

Property WINDFLOWER Project No. 227 Depth ..... Date Began .....

Hole No. WIN-43 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.
79.25-99.97 (cont.)	94.27-94.79 Scattered gtz Veinlets with TR. PY. - Carbonate	35.81	36.27	0.46	21916	.10	.5		
	95.71-96.62 " " " " " " " " " " " "	36.27	36.73	0.46	21917	.05	.4		
	96.62-96.71 Slightly mineralized GRAPHITIC ARGILLITE (5% Pyrite)	36.73	37.19	0.46	21918	.15	.4		
	2nd BLANK MARBLE	37.19	37.64	0.45	21919	1.00	.6	.45	.878
	97.14-97.84 Broken GRAPHITIC ARGILLITE - CARBONATE - gtz - TR. PY.	37.64	38.10	0.46	21920	.93	.8	.428	0.91
		38.10	38.71	0.61	21921	.43	1.8		2.98
	98.88-99.36 Scattered grey gtz Veinlets - Carbonate - Argillite.	38.71	39.17	0.46	21922	.03	.5		
		39.17	39.62	0.45	21923	.03	.6		
		39.62	40.08	0.46	21924	.03	.7		
99.97-114.00	SHEARED & Broken Limy GRAPHITIC ARGILLITE	40.08	40.59	0.51	21925	.03	.3		
	TR to 5% PYRITE	40.59	41.00	0.41	21926	.18	.2		
	Scattered gtz - carbonate stringers & Veinlets.	41.00	41.45	0.45	21927	.03	.7		
	Narrow altered Dolomite - MARBLE sections.	41.45	41.91	0.46	21928	.17	.6		
	101.80-102.11 MINERALIZED GRAPHITIC ARGILLITE	41.91	42.37	0.46	21929	.03	.3		
	with gtz Veinlets (5-10% PYRITE)	42.37	42.67	0.30	21930	.89	.9	.267	
	(POSSIBLE MAIN ZONE (WEST VEIN))	42.67	42.98	0.31	21931	38.6	5.7	11.96%	
	Lost Core	42.98	43.28	0.30	21932	1.6	.6	.480	13.445
	107.81-108.23, 111.86-112.17	43.28	43.89	0.61	21933	1.20	.7	.732	1.92
		43.89	44.20	0.31	21934	.59	1.1		5.0
		44.20	44.81	0.61	21935	.53	1.2		0.2580
4.00-121.01	MASSIVE FUCHSITIC DOLOMITE - MARBLE TR. PY.	44.81	45.26	0.45	21936	.47	1.1		
		45.26	45.78	0.52	21937	.26	1.2		
121.01-122.5	SHEARED & ALTERED FUCHSITIC DOLOMITE - MARBLE	45.78	46.33	0.55	21938	.03	.6		
	with gtz - carbonate stringers & Veinlets.	47.95	48.46	0.61	21939	.12	1.0		
	TRACE - 1% PYRITE	48.46	49.07	0.61	21940	.27	1.1		
		49.07	49.68	0.61	21941	.10	.5		
122.5-122.9	STRAIGHTLY SHEARED & ALTERED BLACK DOLOMITE - MARBLE	49.68	50.29	0.61	21942	.03	.3		
	with gtz VEINLETS	50.29	50.90	0.61	21943	.44	.2		
	TRACE to 2% PYRITE.	50.90	51.51	0.61	21944	.39	.5		
		51.51	51.97	0.46	21945	.05	.6		
122.9-127.71	QUARTZ VEINING & ALTERED DOLOMITE to ALTERED ARGILLITE	51.97	52.58	0.61	21946	.09	.3		
	TRACE to 3% PYRITE.	52.58	53.19	0.61	21947	.29	.3		
	Lost Core 124.00-124.97.	53.19	53.80	0.61	21948	.08	.8		
		53.80	54.41	0.61	21949	.10	.3		
127.71-131.37	MASSIVE QUARTZ VEIN & SULPHIDE ZONE - PYRITE	54.41	55.02	0.61	21950	.05	.1		
	(MAIN ZONE - EAST VEIN) OR WEST VEIN ??	55.02	55.63	0.61	21951	.06	.5		
		55.63	55.78	0.15	21952	.05	.9		
	127.71-128.93 massive white gtz vein - DISS. PY. TR-3%	55.78	56.39	0.61	21953	.05	.7		
	128.93-129.39 gtz & mineralized Argillite - 10-30% PY.	56.39	57.00	0.61	21954	.07	.7		
	(fine grained)	57.00	57.61	0.61	21955	.06	.6		




**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P- 3 OF

Property WINDFLOWER Project No. 224 Depth ..... Date Begun .....

Hole No. WIN - 43 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.	Ag.	Cu.	Zn.
	129.39 - 129.84 white gtz vein & Bands of MASS. Calc. Gneiss	57.61	58.22	0.61	21956	.04	.6		
	129.84 - 130.61 Near Solid Sulphide - Solid Sulphide.	59.22	58.83	0.61	21957	.24	.6		
	(129.84 - 130.15 Coarse grained)	58.83	59.44	0.61	21958	2.47	1.8	1.50%	2.20'
	(130.15 - 130.45 Fine Grained)	59.44	60.05	0.61	21959	1.14	1.3	.6%	1.22m 1.804
	(130.45 - 130.61 Black Solid Sulphide Mxd)	60.05	60.66	0.61	21960	.28	1.2		4.0' 0.052
	130.61 - 131.52 gtz Veining - Graphite Bed. Fe Py.	60.66	61.42	0.76	21961	.12	1.0		
		61.42	61.87	0.45	21962	.09	.8		
		64.16	64.77	0.61	21963	.03	.6		
131.52 - 142.34	Slightly Mineralized Limy Graphitic Argillite with scattered gtz stringers - Veinlets - Veining and irregular Dolomite Bed. scattered Pyrite - Fe - S.	64.77	65.38	0.61	21964	.03	.7		
		65.38	65.84	0.46	21965	.03	.6		
		65.84	66.75	0.91	21966	.03	.5		
		66.75	67.30	0.55	21967	.04	.4		
	133.75 - 134.90 gray gtz vein	67.30	67.97	0.67	21968	.03	.3		
	137.46 - 138.29 gray gtz vein	67.97	68.43	0.46	21969	.03	.6		
	139.51 - 141.73 " " "	68.43	69.19	0.76	21970	.06	.4		
		69.19	69.80	0.61	21971	.05	.3		
		69.80	70.41	0.61	21972	.03	.3		
142.34 - 147.22	Limy Graphitic Argillite scattered gtz Veining & stringers	70.41	71.02	0.61	21973	.04	.5		
		71.02	71.63	0.61	21974	.03	.8		
		71.63	72.24	0.61	21975	.03	.9		
<u>F.C. 11.</u>	145.39 - 146.00 FAULT Zone	72.24	72.85	0.61	21976	.05	.9		
		72.85	73.56	0.71	21977	.03	.9		
		74.28	74.55	0.27	21978	.03	1.5		
	ACID TEST @ 109 = 57°	74.55	74.98	0.43	21979	.03	1.5		
		74.98	75.59	0.61	21980	.03	1.3		
	@ 145.4 = 55° 30'	75.59	76.20	0.61	21981	.04	.9		
		76.20	76.81	0.61	21982	.04	.8		
		76.81	77.42	0.61	21983	.04	.9		
	HALE CEMENTED TOP TO BOTTOM	77.42	78.03	0.61	21984	.03	1.1		
		78.03	78.64	0.61	21985	.06	1.1		
	PAVING PULLING.	78.64	79.25	0.61	21986	.08	.9		
		84.92	85.22	0.30	21987	.03	1.1		
		86.57	87.48	0.61	21988	.03	1.2		
		87.48	87.78	0.30	21989	.05	1.3		
		88.92	90.53	0.61	21990	.05	.9		
		90.53	91.14	0.61	21991	.05	1.0		
		91.14	91.74	0.60	21992	2.03	1.3		
		91.74	92.35	0.61	21993	2.03	1.0		
		93.88	94.27	0.39	21994	.08	1.1		
		94.27	94.78	0.51	21995	2.03	3.4		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-4 OF 6

Property Windflower Project No. 224 Depth ..... Date Began .....

Hole No. Win-43 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.	Ag.	Cu.	Zn.
		94.78	95.40	0.62	21996	<.03	1.0		
		95.40	96.01	0.61	21997	<.03	.9		
		96.01	96.62	0.61	21998	.03	.7		
		96.62	97.23	0.61	21999	.04	.5		
		97.23	97.84	0.61	22000	.06	.8		
		98.87	99.36	0.49	22001	<.03	1.4		
		99.36	99.97	0.61	22002	.04	.8		
		99.97	100.58	0.61	22003	.06	1.0		
		100.58	101.19	0.61	22004	.07	1.1		
		101.19	101.65	0.46	22005	.08	.8		
		101.65	102.11	0.46	22006	.06	1.0		
		102.11	102.72	0.61	22007	.09	1.3		
		102.72	103.33	0.61	22008	.10	2.5		
		103.33	103.78	0.45	22009	.15	5.0		
		103.78	104.24	0.46	22010	.31	1.8		
		104.24	105.00	0.76	22011	.09	1.4		
		105.00	105.46	0.46	22012	.09	.9		
		105.46	105.92	0.46	22013	.12	1.3		
		105.92	106.22	0.30	22014	.05	1.1		
		106.22	106.68	0.46	22015	.07	1.1		
		106.68	107.14	0.46	22016	.09	.8		
		107.14	107.81	0.67	22017	.11	1.3		
		107.81	108.20	0.39	lost core				
		108.20	108.81	0.61	22018	.07	1.3		
		108.81	109.27	0.46	22019	.10	1.3		
		109.27	109.88	0.61	22020	.08	.9		
		109.88	110.64	0.76	22021	.09	.9		
		110.64	111.25	0.61	22022	.08	.7		
		111.25	111.86	0.61	22023	.05	.7		
		111.86	112.17	0.31	lost core				
		112.17	112.47	0.30	22024	.03	1.1		
		112.47	113.08	0.61	22025	<.03	.8		
		121.62	122.22	0.60	22026	.08	1.5		
		122.22	122.83	0.61	22027	.03	.6		
		122.83	123.44	0.61	22028	.03	.8		
		123.44	124.05	0.61	22029	.03	1.2		
		124.05	124.66	0.61	22030	.03	1.0		
		124.66	124.97	0.31	lost core				
		124.97	125.43	0.46	22031	.80	.8	0.46m	0.869
		125.43	125.88	0.45	22032	.03	1.1		


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

P-5 OF 6

Property Windflower Project No. 224 Depth ..... Date Began .....

Hole No. Win-43 Co ord ..... Horizontal Length ..... Date Completed .....

Claim No. .... Core Size ..... Drilled By .....

Grid No. .... Angle & Direction ..... Elevation ..... Logged By .....

INTERVAL FEET / METRES	DESCRIPTION	CORE			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
		125.89	126.34	0.46	22033	.06	1.2		
		126.34	126.80	0.46	22034	.87	2.1		
		126.80	127.25	0.45	22035	1.26	1.5	.517	1.183
		127.25	127.71	0.46	22036	1.34	1.6	.517	0.91m 1.39
		127.71	128.02	0.31	22037	0.53	6.2		3.0' 0.038
		128.02	128.47	0.45	22038	.22	2.4		
		128.47	129.93	0.46	22039	.50	.5		
		129.93	129.39	0.46	22040	.56	3.0		
		129.39	129.84	0.45	22041	3.37	3.5	1.516	
		129.84	130.15	0.31	22042	5.90	5.6	1.629	
		130.15	130.45	0.30	22043	8.68	9.8	2.604	5.949
		130.45	130.91	0.46	22044	1.26	1.8	.579	1.52m 3.914
		130.91	131.37	0.46	22045	0.13	1.3		5.0' 0.114
		131.37	131.67	0.30	22046	.10	1.0		
		131.67	132.28	0.61	22047	.08	.7		
		132.28	132.74	0.46	22048	.09	1.2		
		132.74	133.20	0.46	22049	.21	1.2		
		133.20	133.75	0.55	22050	.17	1.1		
		133.75	134.42	0.67	22051	.07	1.5		
		134.42	134.90	0.48	22052	.08	.9		
		134.90	135.33	0.43	22053	.09	.6		
		135.33	135.94	0.61	22054	.10	1.0		
		135.94	136.55	0.61	22055	.22	1.1		
		136.55	137.01	0.46	22056	.13	1.0		
		137.01	137.92	0.91	22057	.12	.7		
		137.92	138.29	0.37	22058	.07	.5		
		138.29	138.68	0.39	22059	.14	.9		
		138.68	139.90	0.61	22060	.10	.9		
		139.90	140.51	0.61	22061	.13	1.0		
		140.51	141.12	0.61	22062	.14	1.1		
		141.12	142.19	0.46	22063	.06	.6		
		142.19	142.65	0.46	22064	.08	.6		
					E.O. H.				


**GRANGES EXPLORATION LTD.  
DIAMOND DRILL LOG**

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 Property Windflower Project No. 224 Depth 147.22 Date Began Sept. 25/86  
 Hole No. Win-43 Co ord. 284 N Horizontal Length \_\_\_\_\_ Date Completed Sept. 28/86  
 Claim No. L-12481 \_\_\_\_\_ 49E Core Size N.Q. Drilled By D.M.D.  
 Grid No. \_\_\_\_\_ Angle & Direction -59°W Elevation 2013.70 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	SLUDGES			SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.
0 - 3.96	CASING	3.96	8.23	4.27	12529	.36	89.0		
		8.23	20.42	12.19	12530	.02	8.0		
3.96 - 13.71	SILICEOUS PHYLLITE - DOLOMITE - ARGILLITE scattered qtz stringers & veinlets TRAC Pyrite	20.42	29.57	9.15	12531	.02	9.0		
		29.57	32.61	3.04	12532	.44	4.0		
		32.61	35.66	3.05	12533	.89	4.0		
13.71 - 14.32	QUARTZ VEIN	35.66	38.71	3.05	12534	.80	3.5		
		38.71	41.76	3.05	12535	.29	2.5		
14.32 - 24.38	SILICEOUS PHYLLITE - SIL. DOLOMITE - SIL. ARGILLITE scattered qtz stringers & veinlets TRAC Pyrite	41.76	44.81	3.05	12536	11.90	4.5		
		44.81	47.85	3.04	12537	.54	1.5		
		47.85	50.90	3.05	12538	2.61	4.5		
24.38 - 24.87	Grey QUARTZ VEIN	50.90	53.95	3.05	12539	.42	3.0		
		53.95	57.00	3.05	12540	.08	.5		
24.87 - 29.7	SIL. PHYLLITE - SIL. DOLOMITE - SIL. ARGILLITE scat. qtz str & veinlets TR. Py.	57.00	60.05	3.05	12541	.19	.5		
		60.05	63.09	3.04	12542	.53	2.0		
		63.09	66.14	3.05	12543	.24	2.0		
29.7 - 33.53	GREY QUARTZ VEINING - DISSEMINATED PYRITE (1-5%) TRACE SPHALERITE - GALENA POSSIBLE VISIBLE GOLD @ 33.37	66.14	69.19	3.05	12544	.15	1.0		
		69.19	72.24	3.05	12545	.08	1.5		
		72.24	75.29	3.05	12546	.06	1.5		
		75.29	78.33	3.04	12547	.69	3.5		
33.53 - 37.18	MINERALIZED SHEARED DOLOMITE & QUARTZ VEINING DISSEMINATED PYRITE (1-5%) TRACE SPHALERITE - GALENA	78.33	81.38	3.05	12548	.02	3.0		
		81.38	84.43	3.05	12549	.02	1.5		
		84.43	87.48	3.05	12550	.09	.5		
37.18 - 38.71	SHEARED QUARTZ - CARBONATE VEIN - TRACE PYRITE								
38.71 - 44.2	STRONGLY SILICEOUS DOLOMITE - (Limy PHYLLITE?) with scattered qtz veinling TRACE Pyrite								
	42.52 - 43.28 Grey - WHITE QUARTZ VEIN Diss Pyrite (TR - 2%)								
44.2 - 79.25	SHEARED SILICEOUS DOLOMITE - ARGILLITE PHYLLITE with scattered qtz stringers, veinlets & veinling TRACE PYRITE								
	48.77 - 49.07 qtz & gouge (FAULT ZONE)								
79.25 - 99.97	MASSIVE DOLOMITE - MARBLE with FUCHSITE TRACE PYRITE odd qtz stringers & veinlets.								

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

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Property WINDFLOWER Project No. 224 Depth 98.75 Date Began Sept. 27/84  
 Hole No. W.U. - 44 Co ord. 307N Horizontal Length ..... Date Completed Oct. 5/84  
 Claim No. L-12481 17E Core Size N.Q. Drilled By KOONING E. PL. DRILLING  
 Grid No. .... Angle & Direction -71° W Elevation 2005.95 Logged By P.J.D.

INTERVAL FEET/METRES	DESCRIPTION	CORE SAMPLES SAMPLE RECORD								
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.	
0 - 2.74	CASING	2.74	3.35	0.61	22143	2.03	.3			
		5.49	6.10	0.61	44	2.03	.3			
2.74 - 42.37	MAINLY ARGILLACEOUS DOLOMITE (SILICIFIED) with SILICEOUS ARGILLITE & DUNALITE SECTIONS. CARBONATIZED with scattered gtz stringers, VEINLETS & VEINING TRACE PYRITE	11.73	11.89	0.76	45	.05	.5			
		11.89	12.95	1.06	46	.06	.5			
		12.95	13.41	0.46	47	.05	.7			
		13.41	14.02	0.61	48	.03	.3			
		14.02	14.33	0.31	49	.66	.8			
		18.99	19.29	0.30	22150	.07	.7			
		19.63	19.96	0.33	51	.05	.7			
42.37 - 45.11	MASSIVE SILICEOUS DOLOMITE - MARBLE. TRACE PYRITE	21.64	22.10	0.46	52	.06	.7			
		22.10	22.71	0.61	53	2.98	1.3			
45.11 - 49.38	SILICEOUS ARGILLACEOUS DOLOMITE TRACE PYRITE	26.12	26.21	0.09	54	.10	.7			
		30.30	30.63	0.33	22155	.06	.4			
49.38 - 54.86	SILICEOUS DOLOMITE - MARBLE	33.28	33.71	0.43	56	.04	.4			
		34.84	35.14	0.30	57	.04	.6			
54.86 - 59.74	SILICEOUS - ARGILLACEOUS DOLOMITE & ARGILLITE SCATTERED gtz stringers & veinlets. TRACE PYRITE.	35.97	36.27	0.70	58	.05	.7			
		36.27	36.88	0.61	59	.04	.4			
		36.88	37.31	0.43	22160	.03	.7			
		40.23	40.84	0.61	61	.03	.3			
59.74 - 57.55	SLIGHTLY MINERALIZED & STRONGLY SHEARED SILICEOUS DOLOMITE & ARGILLITE 1-5% PYRITE SCATTERED gtz stringers & veinlets.	40.84	41.45	0.61	62	.03	.7			
		45.54	45.90	0.36	63	.44	.4			
		53.34	53.80	0.46	64	.04	.4			
		53.80	54.41	0.61	22165					
		55.32	55.78	0.46	66	.15	.8			
57.55 - 58.06	WELL MINERALIZED - NEAR SOLID SULPHIDE - PYRITE IN SILICEOUS ARGILLITE.	55.78	56.24	0.46	67	.40	1.4			
		56.24	56.69	0.45	68	.19	1.4			
		56.69	57.00	0.31	69	.28	.9			
58.06 - 65.83	MASSIVE WHITE QUARTZ VEIN & SULPHIDE ZONE TRACE TO SOLID SULPHIDE - PYRITE	57.00	57.61	0.61	22170	4.44	12.9	2.7084		
		57.61	58.06	0.45	71	4.05	14.7	1.8225		
		58.06	58.52	0.46	72	33.5	17.3	15.41		
	58.06 - 58.31 gtz vein - 1-4% Pyrite	58.52	58.98	0.46	73	.25	.3	.115		
	58.31 - 58.52 NEAR SOLID SULPHIDE - Solid Sulphide & gtz	58.98	59.44	0.46	74	.17	.1	.078		
	58.52 - 59.74 MASSIVE white gtz vein TRACE PYRITE	59.44	59.74	0.30	22175	.10	.2	.030		
	59.74 - 63.7 white gtz vein & SULPHIDES - TR to 40% Pyrite as bands & BLEBS - stringers. Rare in Sulphides = 45-50°	59.74	60.20	0.46	76	1.88	9.6	0.8648		
		60.20	60.66	0.46	77	1.40	2.6	.644		
		60.66	60.96	0.30	78	3.77	9.2	1.131		
	63.7 - 64.6 WHITE gtz vein - TR to 5% Pyrite. in very narrow CHLORITE BANDS	60.96	61.42	0.46	79	6.78	25.4	3.1188		
		61.42	61.87	0.45	22180	7.55	19.6	3.3975		
	64.6 - 65.83 WHITE - GREY QUARTZ VEIN with ARGILLITE Red Dolomite - TRACE to 5% Pyrite.	61.87	62.18	0.31	81	6.88	11.8	2.1266		33.92
		62.18	62.48	0.30	22182	5.28	12.5	1.569	5.45r	6.03r

**GRANGES EXPLORATION LTD.**  
**DIAMOND DRILL LOG**

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Property WINDFLOWER Project No. 224 Depth ..... Date Begun .....  
 Hole No. WIN-44 Co ord. .... Horizontal Length ..... Date Completed .....  
 Claim No. .... Core Size ..... Drilled By .....  
 Grid No. .... Angle & Direction ..... Elevation ..... Logged By 6.02  
4.58

INTERVAL FEET/METRES	DESCRIPTION	CORE SAMPLES				SAMPLE RECORD				
		FROM	TO	WIDTH	SAMPLE	Au.	Ag.	Cu.	Zn.	
65.83-69.64	CRIEY to WHITE QUARTZ VEINING with ARBILLITE - GRAPHITIC ARBILLITE - DOLOMITE TRACE PYRITE	62.48	62.79	0.31	22183	.86	5.1	.256		
		62.79	63.09	0.30	84	1.48	7.8	.444		
		63.09	63.40	0.31	22185	1.66	7.1	.514		
		63.40	63.70	0.30	86	8.68	12.3	2.604		39.255
69.64-76.81	SILICEOUS GRAPHITIC ARBILLITE - DOLOMITE and QUARTZ VEINING TRACE PYRITE	63.70	64.01	0.31	87	4.54	5.7	1.407	7.01m	5.457
		64.01	64.31	0.30	88	.21	1.5	.063	230'	0.15%
		64.31	64.62	0.31	89	.12	1.4	.037		
		64.62	64.92	0.30	22190	1.80	8.9	.543	0.30	1.80
76.81-85.34	SILICEOUS DOLOMITE - MARBLE - QUARTZ VEINING TRACE PYRITE	64.92	65.38	0.46	91	.36	1.1			
		65.38	65.84	0.46	92	.26	1.6			
		65.84	66.29	0.45	93	.18	.9			
85.34-93.11	GRAPHITIC ARBILLITE - ARGILLACEOUS PHYLLITE with narrow veins of DOLOMITE scattered gty. Veinlets - TRACE PYRITE	66.29	66.75	0.46	94	.36	1.8			
		66.75	67.27	0.52	22195	.45	1.5			
		67.27	67.82	0.55	96	.30	1.5			
		67.82	68.28	0.46	97	.29	1.0			
93.11-98.75	SILICEOUS DOLOMITE scattered gty stringers & veinlets.	68.28	68.84	0.60	98	1.09	1.2	.654		
		68.84	69.34	0.46	99	.49	1.9	.225		3.657
E.O.H.		69.34	69.80	0.46	22200	6.04	11.8	2.778	1.58"	2.40g
		69.80	70.26	0.46	22401	.74	1.8		5.0'	0.070
		70.26	70.71	0.45	22402	.86	1.5			
	ACID TEST @ 61 M = 68°30'	70.71	71.17	0.46	403					
	@ 92.5 M = 68°	71.17	71.63	0.46	404					
	HOLE CEMENTED TOP to BOTTOM	71.63	72.24	0.61	22405					
		72.24	72.85	0.61	406					
		72.85	73.46	0.61	07					
	CASING PULLED.	73.46	74.07	0.61	08					
		74.07	74.52	0.45	09					
		74.52	75.13	0.61	22410					
		75.13	75.59	0.46	11					
		75.59	76.05	0.46	12					
		76.05	76.50	0.45	13					
		76.50	76.81	0.31	14					
		76.81	77.42	0.61	22415					
		77.42	78.03	0.61	16					
		78.03	78.64	0.61	17					
		78.64	79.55	0.91	18					
		79.55	80.16	0.61	19					
		80.16	80.77	0.65	22420					
		80.77	81.38	0.61	21					
		81.38	81.99	0.61	22422					

