

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,607

Report On

Diamond Drilling
on

OLYMPIC-KELVIN CLAIMS

Carpenter Lake
Lillooet M.D.

N.T.S. 92-J/15E

50° 53' Lat. 123° 43' Long.

David Dunn
Geologist.

LACANA MINING CORP.
July 11, 1984.

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SUMMARY

In August 1983, Lacana Mining Corporation negotiated an option to explore the OLYMPIC-KELVIN Gold Prospect east of Goldbridge, B.C. Work in 1983 consisted of linecutting, soil and rock sampling, prospecting and base map preparation. A programme of diamond drilling, rehabilitation of trenches and surface sampling was carried out in May and June of 1984. This report describes the 1984 work programme.

CONCLUSIONS

Sampling of the KELVIN adit returned background values in precious metals.

Four holes drilled through the Magee shear zones returned low values (0.0x oz/t Au range) over widths of less than 1m.

One hole drilled in the Billy-0 massive sulphide horizon returned background values in precious metals.

Sampling of trenches across the surface expression of Magee shear returned background values for precious metals.

The Magee adit is accessible for 26.7m but is in very poor condition with extremely bad backs. No work could be carried out in this adit without major rehabilitation.

RECOMMENDATIONS

The 1930's assay values in the Magee and Kelvin adits were not substantiated by the 1984 diamond drilling and sampling. No "footwall gold zone" or any area of precious metal values was discovered in the drilling of the Billy-0 massive sulphide zone. Because of the disappointing results of the 1984 program it is recommended that no further work be carried out on this property.

INTRODUCTIONLocation and Access

The claims are located on the south shore of Carpenter Lake, 10 km east of Goldbridge. The main 'Grayrock' logging road crosses the property.

The property extends south from lake level (650m) up steep rocky slopes to about 1,700m.

Claim Status

Claims are held under option by Lacana Mining Corporation from the owners, Mr. and Mrs. D. Ingram of Lillooet, B.C. and consist of located and reverted crown grants as follows:

Modified Grid Claims:

<u>Claim</u>	<u>Rec. No.</u>	<u>Units</u>	<u>Exp. Date</u>
Mellisande	1246	15	Feb. 25
Hepzibah	1336	1	May 20
Jhanta Fr.	2376	1	April 11
		Total	17 units

Reverted Crown Grants:

<u>Number</u>	<u>Name</u>	<u>Rec. No.</u>	<u>Exp. Date</u>
L5605	Alpha 1)	813	July 31
L5712	Alpha 2)		
L5713	Alpha 3	893	Sept. 17
L6265	Alta 1	695	Nov. 8
L6266	Alta 2	696	Nov. 8
L6267	Alta 4	697	Nov. 8
L6268	Alta 3	704	Nov. 23
L6269	Alta 6	535	Sept. 19
L6270	Alta 5	536	Sept. 19
L6271	Alta 8	537	Sept. 19
L6272	Alta 7	538	Sept. 19
L6273	Hillside 1	539	Sept. 19

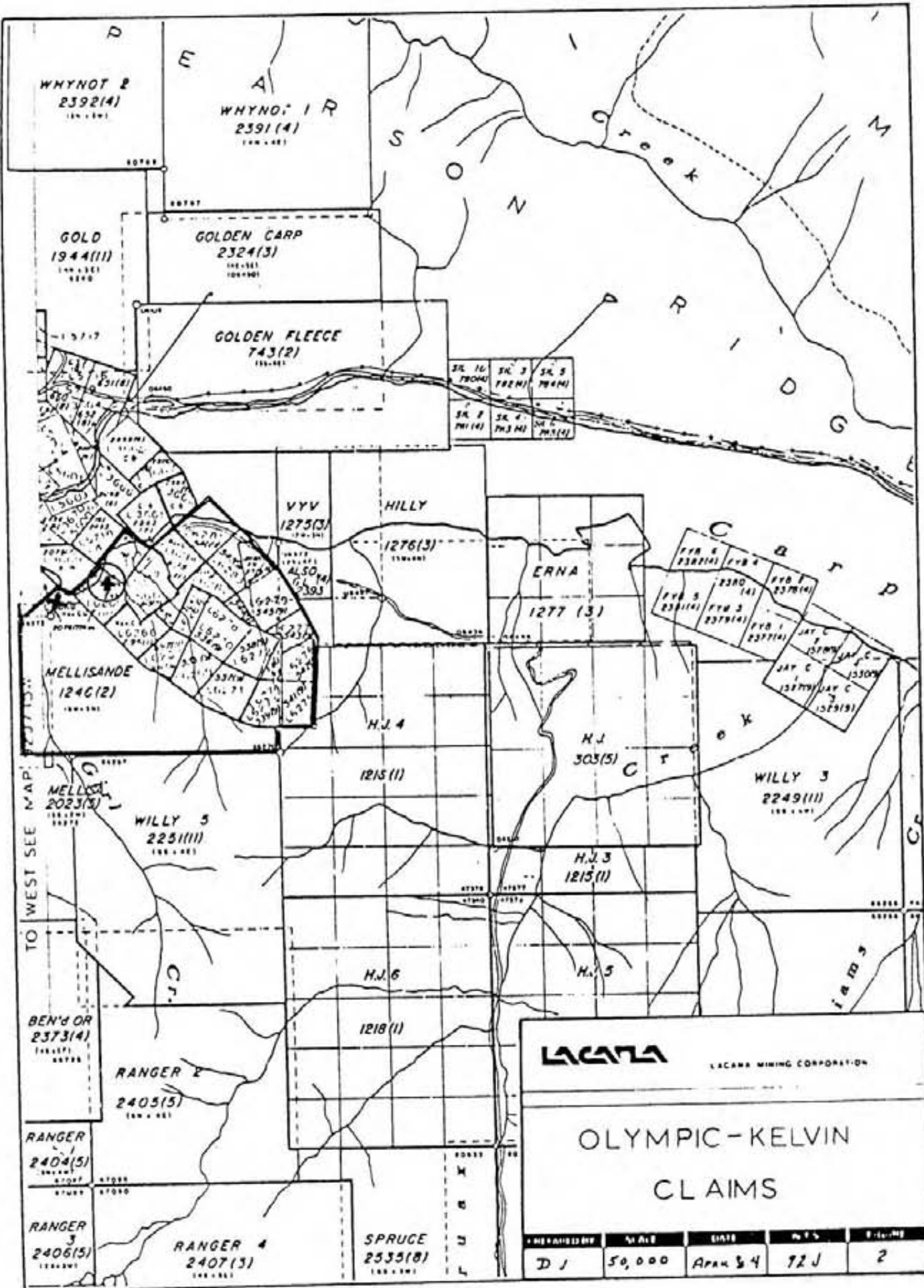


LACANA

LACANA MINING CORPORATION

OLYMPIC-KELVIN
LOCATION

PROJECT NO.	SCALE	DATE	BY	REVISION
D J	250,000	April 24	JZJ	1



SR. 16 7804(4)	SR. 3 782(4)	SR. 5 784(4)
SR. 7 781(4)	SR. 4 783(4)	SR. 2 785(4)

FR. 6 2378(4)	FR. 4 2380(4)	FR. 7 2376(4)
FR. 5 2374(4)	FR. 3 2372(4)	FR. 1 2370(4)
JAY C 1587(4)	JAY C 1589(4)	JAY C 1591(4)
JAY C 1585(4)	JAY C 1583(4)	JAY C 1581(4)

LACALA LACAMA MINING CORPORATION

OLYMPIC-KELVIN CLAIMS

CLAIM NUMBER	ACREAGE	DATE	FILE NO.	FILE NO.
D 1	50,000	APRIL 24	72 J	2

Reverted Crown Grants:

<u>Number</u>	<u>Name</u>	<u>Rec. No.</u>	<u>Exp. Date</u>
L6274	Hillside 2	540	Sept. 19
L6275	Hillside Ext. 4	541	Sept. 19
L6277	Hillside 3	543	Sept. 19
L6278	Hillside 5	544	Sept. 19
L6279	Hillside 6	545	Sept. 19
L6280	Hillside 7	698	Nov. 8
L6281	Hillside 8	546	Sept. 19
L6282	Alta 1 Fr.	699	Nov. 8
L6283	Alta 2 Fr.	547	Sept. 19

Total 21 claims

HISTORY

The area of the present claims covers ground originally staked about 1933 and operated by two separate companies, Kelvin Gold Mines Ltd, and Olympic Gold Mines Ltd., mainly in 1933 and 1934. The history of each is described briefly.

OLYMPIC:

In 1934 work began on two adits, the Leckie at river level and the Magee, 200 feet above river level. The main camp, was situated near the "number 1 vein", about 1,200 ft. above river-level. An adit on the massive sulphide zone ("Billyo") had been discontinued.

In 1935, total footage completed on the Leckie adit was 470 feet and on the Magee; 280 feet. No further work was done from 1936 to 1945.

In 1945, G.S. Eldridge, president of Olympic Gold Mines directed a programme of diamond drilling; 4 holes from the surface and 5 holes from within the Leckie adit. A short crosscut and shaft were commenced from the same tunnel and completed in 1946.

KELVIN:

The KELVIN claims, originally staked in 1933 and 1934 by John Hagmo and Ivar Aston were explored originally by the Mintonia syndicate and then by Kelvin Gold Mines Ltd. The Bridge adit, elev. 2,215' and Pat Fraction adit, elev. 2,300' are the main workings, with a 32 foot adit at elevation 2,475 feet. Work was suspended on the property in 1936, due to "depletion of the treasury".

1984 WORK PROGRAMMEDiamond Drilling

Five holes were drilled for a total of 306.7 m.

DDH 84-1 was drilled at a bearing of 60° at a dip of 45° from 12m east of the junction of the Grayrock Road and Marquis Creek. This hole was drilled to test the footwall zone of the Billy-0 massive sulphide horizon. The hole was drilled at 20° to 45° to bedding and encountered a series of Andesite to Dacite pyroclastics with chert horizons and breccias and minor Andesite Tuff. These rocks contained 1% to 2% pyrite overall and up to 20% pyrite locally. Assays of sludge samples returned six samples between 10 ppb Au and 40 ppb Au. The other 30 sludge samples were <5 ppb. 18 core samples assayed returned one value of 0.005 oz/t Au and 17 samples <0.003 oz/t Au. (see Drill Logs for details).

DDH 84-2 was drilled a a bearing of 210° and at a dip of 45° . The hole was collared 10m at 60° from the portal of the Magee adit. This hole intersected and crossed the Magee Shear at $\approx 30^{\circ}$ to the attitude of the shear. A .8m sample across a quartz vein containing $\approx 20\%$ combined pyrite, arsenopyrite, sphalerite, and chalcopyrite assayed 0.04 oz/t Au. A 1.2m bleached zone on the footwall ran 0.005 oz/t Au and a 1.5m bleached zone on the hanging wall ran 0.007 oz/t Au. 20 other samples taken of pyrite rich pyroclastics, bleached zones in the shear, and a .9m quartz vein with 20% combined sulphides assayed <0.003 oz/t Au. (see Drill Logs for details).

DDH 84-3 was drilled at a bearing of 210° and a dip of 45° and was collared 48.0m at a bearing of 132° from the North end of the Leckie Dump. This hole intersected and crossed the Magee Shear at $\approx 20^{\circ}$ to the attitude of the shear. Of 13 core samples assayed eight were < 0.003 oz/t Au. Five samples in a zone of pervasive quartz stringers and bleaching assayed between 0.004 oz/t Au and 0.011 oz/t Au over a core length of 5.0m. (see Drill Logs for details).

DDH 84-4 was drilled at a bearing of 90° and a dip of 45° and was collared 45.3m at a bearing of 156° from the North end of the Leckie Dump. This hole intersected and crossed the Magee Shear at $\approx 35^{\circ}$ to the attitude of the shear. Of 15 core samples assayed 13 were < 0.003 oz/t Au. The other two assays ran 0.006 oz/t Au and 0.008 oz/t Au and were in a .25m and a .7m quartz vein. (see Drill Logs for details).

DDH 84-5 was collared at the same location as DDH 84-4 and drilled at a bearing of 90° and a dip of 60° . This hole intersected and crossed the Magee Shear at 40° to shear attitude. Of 12 cores samples assayed seven were < 0.003 oz/t Au. The remaining five assays ranged from 0.005 oz/t Au to 0.048 oz/t Au. These last assays were confined to quartz veins up to .8m and bleached zones containing quartz stringers within 2m of quartz veins.

Sampling Rehabilitated Trenches above Magee Adit

Seven trenches were hand mucked and sampled above the Magee adit. (see Fig 4) 14 chip samples were taken across widths from 1m to 2.5m. Some samples included quartz veins up to 20cm. All samples ran < 0.003 oz/t Au.

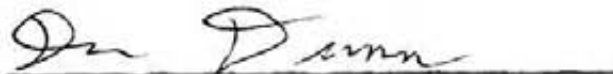
Sampling at Kelvin Adit

The Kelvin adit was surveyed using compass and hip chain. Three samples were taken, a 1m chip across a quartz-calcite-graphite shear zone and two samples that represent an 11m chip across a quartz-calcite stringer zone. These samples assayed < 0.003 oz/t Au.

STATEMENT OF QUALIFICATIONS

DAVID ST. C. DUNN

1. I graduated from the University of British Columbia with a B. Sc. in geology in the Fall of 1980.
2. I have been employed as a geologist by AMAX Minerals Exploration May 1980 to September 1980, Esso Minerals Canada September 1980 to December 1980, Ager Berretta and Associates March 1981 to December 1981, and Lacana Mining Corp. March 1982 to present.
3. I have, previous to the former, worked for seven seasons in the mineral exploration business in Canada and Australia.
4. I am an affiliate member of the Association of Exploration Geochemists.
5. I am a member of the Geological Association of Canada.



David St. C. Dunn, Geologist

OLYMPIC-KELVIN - EXPENDITURES

Room & Board - Drilling 14 days

28 man days @ \$35/day \$1,980.00

Wages:

Geologist: 15 days @ \$110/day 1,650.00

Assistant: 14 " @ \$85/day 1,190.00

Transportation

Truck: 15 days @ \$30/day 450.00

Drilling:

1006' @ \$18/foot 18,108.00

Assays:

Chemex 119 samples 2,141.75

Chemex 29 sludge samples 520.55

Acme 36 samples 363.90

TOTAL \$25,404.20

APPENDIX III

DRILL LOGS

COMPANY LACANAPROPERTY OLYMPIC-KELVINTownship LILLOOET M.D.

Claim No. _____

SHEET No. 1
Started 3/6/84
Finished 6/6/84
Depth 117 m 384'Reference 10 m SE jctn. Marquis Ck & road
Location _____
Elevation _____HOLE No. 84-1Bearing 60
Dip: 45° @ Collar; _____ @ _____

FROM	TO	DESCRIPTION	SAMPLES			% of Bag ASSAYS					
			NO	FROM	TO	WIDTH	Ag	Au	Cu	Zn	
0	- 3.7 m	Casing		16'	26'	10'	60				
				26'	36'	10'	40				
3.7	- 5.3	Agglomerate - light to dark green		36'	46'	10'	80				
		Andesite Fragments in a purplish grey		46'	56'	10'	80				
		to grey-green siliceous matrix Andesite		56'	66'	10'	30				
		fragments are up to 1cm by 5 cm, elong.		66'	76'	10'	25				
		in the general direction of (bedding?)		76'	86'	10'	40				
		foliation at 50° to 70° to core. Small									
		angular Felsic Fragments up to 1 cm Ø									
		2% to 5% Pyrite in blebs with andesite									
		up to 2 cm Ø and in elongate stringers									
		// to foliation. Also disseminated in									
		matrix and on fractures 30° to 40° to	40301	3.7	5.1	1.4		0.01	<0.003		
		core and at approximate right angles									
		to foliation. Andesite is altered to									
		chlorite and epidote.									
		Andesite is 30% of total									
		Large dark grey siliceous fragments									
		(5cm Ø) make up 20% of total.									
5.3	- 6.1m	Dark grey to purple grey fine grained	40302	5.9	6.5	0.6		0.03	0.005		
		Andesite Tuff with up to 20% qtz,									
		chlorite, epidote pyrite blebs up to									
		2 cm Ø									

Drilled by R. BeaupreCore Size NQLogged by D. Dunn

COMPANY LACANA
 Township Lillooet M.D.

PROPERTY OLYMPIC-KELVIN
 Claim No. _____

SHEET No. 2
 Started 3/6/84
 Finished 6/6/84
 Depth 118.8 m

Reference 10 m SE jctn Marquis Ck &
 Location Road
 Elevation _____

HOLE No. 854-1
 Bearing 60°
 Dip: 45° @ Collar; @

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS	
			NO	FROM	TO	WIDTH	Ag	Au
6.1	7.0m	Light Green Agglomerate - Grades from tuff 1-4 cm fragments. Foliation at 45° to core.						
7.0	9.0m	Dark green Agglomerate Chlorite + dark green chert make up 80% of rock. Light green chert with chlorite, epidote and pyrite 10% of rock. Black fine grained matrix other 10%. Pyrite on fractures in blebs and disseminated makes up 5% of rock. Fractures at 50° + 80° to core Foliation at 45° to core, probably represents bedding.	40303	7.4	8.6	1.2	0.03	<0.003
9.0	10.0 m	Light green agglomerate						
10.0	11.0	Crystal Tuff 3 mm feldspar crystals in dark green chloritic matrix 2% pyrite Mainly on fractures at 45° to 60° to core.						

Drilled by R. Beaupre

Core Size NQ

Logged by D. Dunn

COMPANY LACANA

PROPERTY OLYMPIC-KELVIN

Township Lillooet M.D.

Claim No.

SHEET No. 3
 Started 3/6/84
 Finished 6/6/84
 Depth 118.8 m

Reference 10m SE jctn Marquis Ck and
 Location Road
 Elevation

HOLE No. 84-1
 Bearing 60°
 Dip: 45° @ Collar; @

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS	
			NO	FROM	TO	WIDTH	Ag	Au
11.0 - 16.8m		Light Green Agglomerate 5-10% pyrite 30% felsic frags	40304	11.5	13.1	1.6	0.05	<0.003
16.8 - 17.7m		Dark Green agglomerate						
17.7 - 20.4m		Chert Horizon 20° to 45° to core 2 - 5% disseminated pyrite 19.4 - 19.6 light green agglomerate with 20% pyrite.	40305	18.1	19.7	1.6	0.01	<0.003
20.4 - 27.6		Light green agglomerate	40306	20.5	21.4	0.9	0.05	<0.003
		Pyrite horizons up to 5 cm at 35°-45° to core. Chert 21.4 - 21.7 m	40308	22.2	24.3	1.1	0.03	<0.003
		Dark green Agg. - 21.7 - 22.6 m	40309	24.3	26.4	2.1	0.05	<0.003
27.6 - 34.6		Dark green Agglomerate - Qtz pyrite stringers up to 1 cm at 60°-80° to core Chert clasts up to 3 cm. 70% of rock plate knife. Dark green Agglomerate much more siliceous than light green agglomerate.	40307	28.8	29.3	0.5	0.05	<0.003
34.6 - 36.5		Chert Agglomerate - 80% White Chert frags in fine grained black chloritic matrix. Bedding 70°-85° to core. Pyrite coating fractures and in blebs. Up to 2%. Fractures at 85° 60° and sub parallel to core.						
36.5 - 37.3 at least		Dark Green Agglomerate.	40310	36.8	38.5	1.7	0.03	<0.003

Drilled by R. Beaupre

Core Size NO

Logged by D. Dunn

COMPANY LACANAPROPERTY OLYMPIC-KELVINTownship Lillooet M.D.

Claim No. _____

SHEET No. 4
 Started 3/6/84
 Finished 6/6/84
 Depth 118.8m

Reference 10m SE of jctn Marquis Ck
 Location and Road
 Elevation _____

HOLE No. 84-1
 Bearing 60°
 Dip: 45° @ Collar; _____ @ _____

FROM	TO	DESCRIPTION	SAMPLES			% of Bag	ASSAYS		
			NO	FROM	TO		WIDTH	Ag	Au
36.5 - 41.4m		Dark green Agglomerate		86'	96'	10'	30		
		10 cm chert 40.1 m - 40.2m banding to		96'	106'	10'	5		
		core angle 40°-50° Pyrite up to 2%		106'	116'	10'	10%		
		Disseminated and fractures		116'	126'	10'	15		
41.4 - 46.4		Chert Breccia 70-90% chert clasts up to		126'	136'	10'	15		
		10 cm 5-30% chloritic fragments		136'	146'	10'	15		
		Pyrite disseminated in both chert and		146'	156'	10'	10		
		chloritic clasts and on fractures 1%		156'	166'	10'	25		
		to 5%. Banding and chert clasts elong-		166'	176'	10'	10		
		ated at 35° to 55° to core		176'	186'	10'	15		
				186'	196'	10'	15		
				196'	206'	10	25		
				206'	216'	10'	30		
				216'	226'	10'	30		
46.4 - 66.8		Dark Green Agglomerates up to 10 cm.	40311	41.5	43.5	2.0		0.01	<0.003
		up to 30% chert clasts, Bedding at 60°	40312	58.2	59.0	0.8		0.03	<0.003
		to core. Pyrite seam // to bedding up							
		to .5 cm. Pyrite 2% to 5% of rock.							
		Rock is 10% - 30% Chert Clasts							
		50% to 70% Fine grained chloritic							
		matrix & clasts to 3 cm							
		2% to 5% Pyrite Dissemination							
		bedded, and on fractures							
		20% to 40% light green matrix							
		and clasts up to 10 cm							
		Light green material contains more qtz							
		and bulk of disseminated pyrite than							
		dark green material.							

Drilled by R. BeaupreCore Size NQLogged by D. Dunn

COMPANY LACANA

PROPERTY

OLYMPIC-KELVIN

Township Lillooet M.D.

Claim No.

SHEET No. 5
 Started 3/6/84
 Finished 6/6/84
 Depth 118.8m 386'

Reference 10m SE jctn Marquis Ck
 Location and road
 Elevation

HOLE No. 84-1
 Bearing 60°
 Dip: 45° @ Collar; @

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS	
			NO	FROM	TO	WIDTH	Ag	Au
66.8 - 67.1m		Chert Breccia		226'	236'	10'		
				236'	246'	10'		
67.1 - 72.4		Dark Green Agglomerate 30% chert B Fractures with Qtz and pyrite at 30°, 60° 140 to core. Bedding at 30° to 60° to core		246'	256'	10'		
				256'	266'	10'		
				266'	276'	10'		
				276'	286'	10'		
				286'	296'	10'		
72.4 - 74.2		Chert Breccia 30% Dark Green Agglomerate 50% Light Green Agglomerate 20% 2 - 5% Disseminated pyrite + pyrite on fractures Fractures at 30% 120° to core. Bedding at 60° to core		296'	306'	10'		
				306'	316'	10'		
				316'	326'	10'		
				326'	336'	10'		
				336'	346'	10'		
				346'	356'	10'		
				356'	366'	10'		
74.2 - 81.1		Dark Green Agglomerate 50% Light Green Agglomerate 50% Pyrite on fractures and bedded 2% of rock Bedding at 60° to 80° to core.	40313	66.8	67.1	0.3	40.01	40.003
			40314	79.8	80.3	0.5	0.01	40.003
81.1 - 82.4		Chert Breccia 20% Dark Green Agglomerate 60% Light Green Agglomerate 20% Pyrite bands up to 1 cm 80° to core. Bedding 70° to 85° to core						

Drilled by R. Beaupre

Core Size NQ

Logged by D. Dunn

COMPANY LACANA

PROPERTY OLYMPIC-KELVIN

Township Lillooet M.D.

Claim No.

SHEET No. 6
 Started 3/6/84
 Finished 6/6/84
 Depth 118.8m

Reference 10m SE jctn Marquis Ck
 Location and road
 Elevation

HOLE No. 84-1
 Bearing 60°
 Dip: 45° @ Collar; @

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS	
			NO	FROM	TO	WIDTH	Ag	Au
82.4 - 87.0m		Chert Breccia 70% chert frags up to 10 cm in dark chloritic matrix. Bedding at 60° to 70° to core. Pyrite in present as fine disseminations in matrix, blebs up to .5 cm x 1 cm in chert fragments, and on fractures sub parallel to core. Pyrite 2% overall.	40315	82.4	83.9	1.5	0.01	<0.003
			40316	83.9	85.3	1.4	<0.01	<0.003
			40317	85.3	86.9	1.6	<0.01	<0.003
87.0 - 87.2m		Crystal Tuff 70% feldspar crystals and fragments up to .2 cm. Minor dissem. py.						
87.2 - 92.1m		Dark Green Agglomerate 70% Chert Breccia 30% Pyrite on fractures up to .5 cm sub-parallel to core 30° to core and 60° to core. Bedding 60° to 70° to core.						
92.1 - 100m		Dark Green Fine Grained Andesite Tuff Minor diss py. Qtz., py, epidote horizons up to 1 cm at 40° to 70° to core. Also py Qtz epidote on fractures at 30° and sub parallel to core 1% py overall						

Drilled by R. Beaupre

Core Size NQ

Logged by D. Dunn

COMPANY LACANA
 Township Lillooet M.D.

PROPERTY OLYMPIC-KELVIN
 Claim No.

SHEET No. 7
 Started 3/6/84
 Finished 6/6/84
 Depth

Reference 10m SE jctn Marquis Ck
 Location and road
 Elevation

HOLE No. 84-1
 Bearing 60°
 Dip: 45° @ Collar; @

FROM	TO	DESCRIPTION	SAMPLES				ASSAYS	
			NO	FROM	TO	WIDTH	Ag	Au
100.0 - 102.8		Chert Clasts up to 5 cm 50% Dark Green Matrix 50% 2% pyrite mainly on fractures and in chert clasts. Clasts are up to 20% pyrite.						
102.8-110.1m		Variable dark to light green fine grained Andesite Tuff Pyrite horizons up to 1.5 cm at 45° to 60° to core 1% pyrite overall	A0318	106.2	106.6	0.4	0.03	<0.003
110.1-118.8		Dark Green Andesite Tuff 80% Chert Clasts Pyrite <1% Bedding 45° - 70° to core.						

Drilled by R. Beaupre

Core Size NQ

Logged by D. Dunn

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO 84-2 PAGE NO 1

DRILLING COMPANY Beaupre		COLLAR ELEVATION	BEARING OF HOLE FROM TRUE NORTH 210°	TOTAL METERS 61m	DIP OF HOLE AT collar 45°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM 8 m at 30° from Magee Portal	MAP REFERENCE NO	CLAIM NO
DATE HOLE STARTED 7/6/84	DATE COMPLETED 8/6/84	DATE LOGGED 9/6/84	LOGGED BY D. Dunn		ft	LOCATION (Twp., Lat., Con. OR Lat. and Long.)	PROPERTY NAME OLYMPIC-KELVIN	
EXPLORATION CO. OWNER OR OPTIONEE E & D. INGRAM		DATE SUBMITTED	SUBMITTED BY (Signature) X		ft			
					ft			
					ft			

FOOTAGE		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS	
FROM	TO						FROM	TO		Ag	Au
0	2.1	Casing				20%	16'	26'	10'		
2.1	5.3	Lamprophyre dyke	Dark green to gray green, fine grained, blotchy minerals, Feldspar - 45% Amphibole (Hornblende?) 45% Minor epidote, Qtz, pyrite Qtz stringers up to 1 cm 30° - 40° to core.	30°		20%	26'	36'	10'		
						5%	36'	46'	10'		
						5%	46'	56'	10'		
						50%	56'	66'	10'		
						20%	66'	76'	10'		
							Metres				
5.3	6.2	Lamprophyre dyke	Alteration, Graygreen to light green Blotchy. Chlorite-epidote alteration fractured and healed with amorphous Qtz. Minor mariposite; pyrite. Gouge 6.0-6.2m Veining 0-20° to core	0-20°		40319	5.3	6.2	.9	0.05	0.003
6.2	7.1	Quartz Vein	Qtz, Mariposite, Sulphides 20° to core Pyrite 5% Arsenopyrite 1% Sphalerite < 5% chalcopyrite < .5%	20°		40320	6.2	7.1	.9	0.15	0.003
7.1	7.8	Bleached Zone	Fine grained Amphibole crystals 1mm Grey 5% Amphibole crystals 2% pyrite.			40321	7.1	7.8	.7	0.03	<0.003

DIAMOND DRILLING LOG

(OLYMPIC KELVIN)

FILL IN ON
EVERY PAGEHOLE NO.
84-2PAGE NO.
2

Meters FOOTAGE FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE FROM TO		SAMPLE LENGTH	ASSAYS + Ag Au	
7.8	9.0	Diorite Porphyry	Light green, Dark Amphibole? grains to 2 mm Strong propylitic alteration. Much epidote + chlorite 2% pyrite - Qtz pyrite stringers at 50° to core	50°		40322	7.8	9.0	1.2	0.03	<0.003
9.0	10.2	Bleached Zone	Grey, Amphibole Porphyry, 2% pyrite Qtz pyrite stringers at 30° to core	30°		40323	9.0	10.2	1.2	0.15	0.005
10.2	11.0	Quartz Vein	2% Mariposite Vein is 30° to core 10% pyrite 2% sphalerite 5% arsenopyrite 1% chalcopyrite	30°		40324	10.2	11.0	.8	2.16	0.04
11.0	16.7	Bleached Zone	5% disseminated pyrite Qtz sulphide stringers at 30° - 40° to core Minor Mariposite Veins at Width Sulphides 11.6 5 cm Minor py 11.7 15 cm 5% cypy, 5% Aspy 12.6 10 cm 50% py 13.0 4 cm 70% py 16.3 6 cm 50% py	30°		40325 40326 40327 40328	11.0 12.5 14.0 15.5	12.5 14.0 15.5 16.7	1.5 1.5 1.5 1.2	0.61 0.09 0.05 0.08	0.007 <0.003 <0.003 <0.003
16.7	17.6	Quartz Vein	20% py Minor Mariposite Vein at 30° to core 2% Sp 1% cy py 1% As py	30°		40329	16.7	17.6	.9	0.26	<0.003
17.6	19.2	Fault Breccia	Mottled grey green 70% gouge 30% Qtz sulphide clasts Pyrite, sphalerite, arsenopyrite, chalcopyrite present in clasts.			40330	17.6	19.2	1.6	0.11	<0.003
19.2	25.5	Dacite Tuff	Light grey to buff, Feldspar porphyry 1 mm crystals aligned at 40° to core.	40°		40331	19.2	20.1	.9	<0.01	<0.003

DIAMOND DRILLING LOG

(OLYMPIC-KELVIN)

FILL IN ON
EVERY PAGEHOLE NO. 84-2
PAGE NO. 3

metres

FROM	TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE FOOTAGE		SAMPLE LENGTH	ASSAYS	
							FROM	TO		Ag	Aa
6.7	17.6	Quartz Vein	20% py 2% Sp 1% cypy 1% Aspy Minor Mariposite Vein at 30° to core	30°		40329	16.7	17.6	.9	0.26	<0.003
7.6	19.2	Fault Breccia	Mottled grey green 30% qtz sulphide clasts Pyrite, sphalerite, arsenopyrite, chalcopyrite present in clasts.			40330	17.6	19.2	1.6	0.11	<0.003
9.2	25.5	Dacite Tuff	Light grey to buff 1 mm crystals aligned at 40° to core Feldspar porphyry	40°		40331	19.2	20.1	.9	<0.01	<0.003
5.5	31.7	Gault Gouge & Breccia	10% qtz - sulphide clasts 30% gouge			40332	25.5	27.0	1.5	0.11	<0.003
						40333	27.0	28.5	1.5	0.01	<0.003
						40334	28.5	30.0	1.5	0.01	<0.003
1.7	32.3	Sand - No Recovery				40335	30.0	31.7	1.7	0.01	<0.003
2.3	34.3	Andesite Agglomerate	Dark green clasts and matrix with white chert clasts up to 5 cm 10% of rock.	30°- 40°							
4.3	35.4	Chert Beccia	70% chert clasts 30% Dark green matrix Bedding 30°-40° to core			40336	34.3	35.3	1.1	<0.01	<0.003
5.4	37.0	Fault Gouge & Breccia	20% Gouge 80% Chert and Dark Green partly serpentized fragments 2% pyrite.	30°		40340	35.3	35.9	1.5	<0.01	<0.003
						40341	35.9	37.0	1.1	0.01	<0.003
7.0	44.0	Andesite Tuff	Dark green, fine grained, amphibole porphyry crystals 1 mm Minor epidote 1% pyrite Fault zone 41.9 - 43.3 10% gouge			40337	41.9	43.3	1.4	<0.01	<0.003
5.5	52.2	Agglomerate	Light brown to gray green. Minor gouge zones 10% chert clasts 2% py Carbonate alteration?	20°		40338	45.5	46.4	.9	0.03	<0.003

DIAMOND DRILLING LOG

above
Leckie Dump

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON
EVERY PAGE

HOLE NO	PAGE NO
84-3	1
CLAIM NO	

DRILLING COMPANY Beaupre	COLLAR ELEVATION 7.6m /	BEARING OF HOLE FROM TRUE NORTH 210°	TOTAL Metres 120	DIP OF HOLE AT collar 45°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM 48.0 m at a bearing of 156° from Reference Point on north end of Leckie Dump	MAP REFERENCE NO
DATE HOLE STARTED 9/6/84	DATE COMPLETED 10/6/84	DATE LOGGED 11/6/84	LOGGED BY D. Dunn	ft	7.6m above Leckie Dump	LOCATION (Twp., Lot, Con. OR Lat. and Long.)
LOCATION CO. OWNER OR OPTIONEE E & D. INGRAM		DATE SUBMITTED	SUBMITTED BY (Signature)	ft		PROPERTY NAME OLYMPIC-KELVIN

Metres FROM	Metres TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	% of Bag	SAMPLE Metres		SAMPLE LENGTH	ASSAYS	
							FROM	TO		Ag	Au
0	9.1	Casing				50	0	20			
9.1	11.75	Lamprophyre Dyke	Dark green to Grey green lmm crystals Blotchy Minerals: Feldspar 45% Amphibole (Hornblende?) 45% Minor epidote, qtz, pyrite Minor stringers up to 2mm at 45° + 10° to core	45° 10°		40 20 5 5 10 40 80 100	20 30 36 46 56 76 86 96 106				
11.75	14.4	Diorite Dyke	Dark green 2 mm feldspar intergrown with dark green mineral (amphibole?) 80% pyrite 20% 1 cm Gouge at 12.35 - 12.45 2 cm bleached area 2. 40% py at 11.9 - 12.0 Minor qtz. stringers + fracture at 20° to core	20°		100 100	106 116 120				
14.4	15.6	Bleached Zone	Qtz. stringers at 20° to core Amphibole crystals lmm	20°		40342	11.75	13.0	1.28	0.01	<0.003
15.6	16.25	Qtz. Vein	20% pyrite. Minor malaprosite. Minor sphalerite 15° - 20° to core.	15-20°		40343	13.0	14.4	1.4	0.01	<0.003
16.25	16.8	Bleached Zone	10% Qtz stringers at 30° to core Minor sphalerite in stringers 2% py overall.	30°		40344	14.4	15.6	1.2	0.01	<0.003
16.8	17.8	Shattered Qtz vein	minor malaprosite minor sulphides			40345	15.6	16.25	.65	0.26	0.004
						40346	16.25	16.8	.55	0.38	0.006
						40347	16.8	17.4	.6	0.25	0.01

DIAMOND DRILLING LOG

 FILL IN ON EVERY PAGE HOLE NO
84-3 PAGE NO
2

Metres FROM TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE °	CORE SPECIMEN FOOTAGE °	YOUR SAMPLE NUMBER	SAMPLE METRES		SAMPLE LENGTH	ASSAYS *		
						FROM	TO		Ag	Au	
17.4	18.75	Bleached zone	5% Qtz veins at 50°-60° to core. Cvpv + sp in stringers Minor mariposite. 20% Chlorite grains 2% pyrite	50 60°		40348	17.4	18.75	1.35	0.52	0.009
18.75	19.9	Qtz vein	40% Bleached clasts Minor mariposite 2% pyrite Fault gouge w/pyrite 19.6-19.7 Vein at 60° to core.	60°		40349	18.75	19.9	1.15	0.34	0.007
19.9	21.1	Serpentine	Partly bleached Fault breccia 90% Serpentine 10% Bleached clasts	20°		40350	19.9	20.6	.7	0.82	0.011
21.1	23.2	Bleached Zone	5% Qtz stringers at 20° to core 10% Chlorite grains Minor Mariposite	20°		46925	21.1	22.1	1.0	0.51	0.002
23.2	24.7	Serpentine	Partly bleached 10% Qtz stringers at 45° to core with later cross-cutting stringers at 20% to Core. 2% py 24.1-24.4 Gouge at 45° to core	45° 20°		46926 46927	23.2 23.2	23.2 24.7	0.8 1.4	0.16 0.07	0.002 0.002
24.7	25.6	Bleached Zone	Vuggy 3 cm Qtz stringer sub -parallel to core 25.4-25.5 2% py mainly in 1 mm stringers sub parallel to core	0-100° 45°		46928	24.7	25.6	.9	0.05	<0.003
25.6	36.9	Fault breccia	20% Dark green Popylityzed Andesite Frags 10% Feldspar Crystal Tuff 2% Qtz stringers 5% gouge Some bedding? 90° to core 2% py 34.8-25.7 sandy 5% py	90°		46929	25.6	26.6 26.6	1.0 1.0	0.03	<0.003
			Hole lost 26.9 Drill jammed in sand			46930	34.8	35.7	0.9	0.05	5
						Concentrate of sand sludge	46931	36.7 - 39.0		0.07	1/55
						Mainly Pyrite					

DIAMOND DRILLING LOG

Leckie Dump

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO 84-4 PAGE NO 1

DRILLING COMPANY Beaupre		COLLAR ELEVATION 8m above /	BEARING OF HOLE FROM TRUE NORTH 90°	TOTAL Metres 45.7 (150')	DIP OF HOLE AT collar 45°	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM 45.3m at a bearing of 156° from N. end of Leckie Dump	MAP REFERENCE NO	CLAIM NO
DATE HOLE STARTED 11/6/84	DATE COMPLETED 12/6/84	DATE LOGGED 11/6/84	LOGGED BY D. Dunn		ft	LOCATION (Tp., Lat., Con., OR Lat. and Long.) 8 m above Leckie Dump	PROPERTY NAME OLYMPIC-KELVIN	
EXPLORATION CO OWNER OR OPTIONEE D & E INGRAM		DATE SUBMITTED	SUBMITTED BY (Signature)		ft			
					ft			
					ft			


Metres FROM	Metres TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN FOOTAGE	YOUR SAMPLE NUMBER	SAMPLE Metres		SAMPLE LENGTH	ASSAYS	
							FROM	TO		Ag	Au
0	9.8	Casing	Mud, Qtz clasts, Minor Mariposite				0	36'	36'		
							36'	46'	10'		
							46'	56'	10'		
							56'	66'	10'		
9.8	10.0	Bleached Zone	Grey 5% chlorite blebs 2% Qtz stringers sub parallel to core	0-10°		46932	9.8	10.0	.2	0.05	<0.003
10.0	11.6	Andesite Tuff	Dark Green - propylitized 30% Feldspar crystals 5% 1-2 mm Qtz - calcite stringers at 90°, 45° and sub parallel to core 2% pyrite disseminated and in stringers.	90 45							
11.6	13.4	Bleached Zone	Grey green Minor mariposite 10% quartz stringers up to 1 cm at 45° and sub parallel to core. 5% pyrite Disseminated and in stringers.	45° 0-100		46933	11.6	13.4	1.8	0.05	<0.003
13.4	13.65	Quartz Vein	Minor Mariposite 1% Cyp 5% py 10% sphalerite	45°		46934	13.4	13.65	.25	0.47	0.006
13.65	16.3	Bleached Zone	Grey Minor Mariposite 20% 1mm Chlorite grains 20% pyrite 10% qtz stringers with pyrite 50% qtz-Kaolinite	45°		46935 46936	13.65 15.1	15.1 16.3	1.45 1.1	0.08 0.10	<0.003 0.003

DIAMOND DRILLING LOG

 FILL IN ON EVERY PAGE HOLE NO. 84-4 PAGE NO. 2

Metres FROM	Metres TO	ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN #	YOUR SAMPLE NUMBER	SAMPLE METRES		SAMPLE LENGTH	ASSAYS	
							FROM	TO		Ag	Au
15.3	16.9	Qtz vein	30% bleached clasts sub-parallel to core True width 3cm Considerable Mariposite 10% py 2% sphalerite	0-10°		46937	16.3	16.9	.6	0.52	0.003
16.9	18.5	Bleached Zone	20% 5mm Qtz stringers with py Sub-parallel to 45° to core 10% chlorite grains 19% pyrite	0-45°		46938	16.9	18.5	1.6	0.09	0.002
18.5	19.2	Quartz vein	50% pyrite Minor mariposite 35°-45° to core Banded py-qtz.	35-45°		46939	18.5	19.2	.7	0.23	0.008
19.2	20.2	Bleached Zone	10% qtz stringers up to 2 cm Vuggy-grey 35° to core 5% chlorite grains 1 mm 2% py, disseminated and in qtz stringers Grey	35°		46940	19.2	20.4	1.2	0.04	<0.003
20.2	20.6	Andesite Agg?	Dark Green 2% fine qtz stringers (1mm) 5% disseminated py 20.7-20.8 Gouge	45°		46941	20.4	20.6	.2	0.05	<0.003
20.6	22.0	Sand & Gouge + fault breccia	20.6-20.9 Lost Grey Minor quartz Minor py	35°		46942	20.6	22.4	.8	0.05	<0.003
22.0	22.4	Bleached Zone	40% Quartz 20% chlorite blebs Grey 5% py	35°							
22.4	36.4	Argillite	2-5% py Black very fine grained Fractures at 25° to 40° Very minor 1 mm Qtz Stringers	25-40°		46943	29.8	30.8	1.0	0.07	<0.003

DIAMOND DRILLING LOG

FILL IN ON EVERY PAGE  HOLE NO 84-4 PAGE NO 3

Metres		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN #	YOUR SAMPLE NUMBER	SAMPLE METRES		SAMPLE LENGTH	ASSAYS *	
FROM	TO						FROM	TO		Ag	Au
36.8	37.7	Bleached Zone	Grey Includes 3 cm qtz vein with 50% py 10% chlorite grains Minor Mariposite	25°- 35°		46944	36.8	37.7	.9	0.03	<0.003
37.7	39.3	Dacite Tuff	Grey to buff very fine grained Very minor 1 mm qtz stringer 3/50% py Subparallel and at 30° to core	0-10° 30°		46945	38.4	34.2	.8	0.05	<0.003
39.3	45.7	Rhyolite	Light Grey Aphonitic Minor disseminated py py on fractures at 35° to 40° to core 1% py overall END OF HOLE	35°- 40°		46946	39.3	41.1	1.8	0.01	0.003

DIAMOND DRILLING LOG

Start a new page for every new hole, but fill in top portion of form only on first page for each hole.

FILL IN ON EVERY PAGE

HOLE NO 84-5 PAGE NO 1

DRILLING COMPANY BEAUPRE		COLLAR ELEVATION 8 M above Leckie	BEARING OF HOLE FROM TRUE NORTH Dump 90°	TOTAL METRES 45.7m 150'	DIP OF HOLE AT COLLAR 60	LOCATION OF HOLE IN RELATION TO A FIXED POINT ON THE CLAIM 45.3 m at a bearing of 156° from N end of Leckie Dump	MAP REFERENCE NO	CLAIM NO
DATE HOLE STARTED 12/6/84	DATE COMPLETED 13/6/84	DATE LOGGED 13/6/84	LOGGED BY D. Dunn			LOCATION (Twp., Lot, Con. OR Lat. and Long.) 8 m above Leckie Dump	PROPERTY NAME	
EXPLORATION CO. OWNER OR OPTIONEE D & E Ingram		DATE SUBMITTED	SUBMITTED BY (Signature)					

Metres FROM TO		ROCK TYPE	DESCRIPTION Colour, grain size, texture, minerals, alteration, etc.	PLANAR FEATURE ANGLE	CORE SPECIMEN M	YOUR SAMPLE NUMBER	SAMPLE Metres FROM TO		SAMPLE LENGTH	ASSAYS + Ag Au		
0	10.7	Casing		0-10°		% Bag						
10.7	19.7	Bleached Zone	Light Grey 2% Mariposite 20% Qtz-py stringers sub-parallel and 30° - 40° to core 10% chlorite grains 14.3-14.9 sand seam No Recovery 2% py			50% 100 80 40 30 25 30 70 5	27 37 47 57 67 77 87 97 107	37 47 57 67 77 87 97 107 117	10' 10' 10' 10' 10' 10' 10' 10' 10'			
19.7	20.5	Qtz Vein	19.8-20.1 - Bleached silicified zone 40% py in Qtz vein Vein 46° to core. True width 21 cm * V.G.* with py				46947 46948 46949 46950 40351 40352	10.7 12.2 13.7 14.3 16.4 17.9	12.2 13.7 14.3 16.4 17.9 19.7	1.5 1.5 1.6 1.5 1.5 1.8	0.07 0.07 0.05 0.09 0.17 0.15	0.003 0.003 0.003 0.008 0.002 0.002
20.5	23.4	Bleached Zone	Minor mariposite. Light grey 10% Qtz stringers sub-parallel and at 40° to core 2% py 10% chlorite grains	0-10° 40°			40354 40355	20.5 22.0	22.0 23.4	1.5 1.4	0.11 0.09	0.005 0.006

CARPENTER LAKE MAX 651
MIN 609

Reference Point

Lecle adit DDH 3

DDH 4&5

DDH 2

Magee adit

trench detail fig. 4

GREY ROCK ROAD

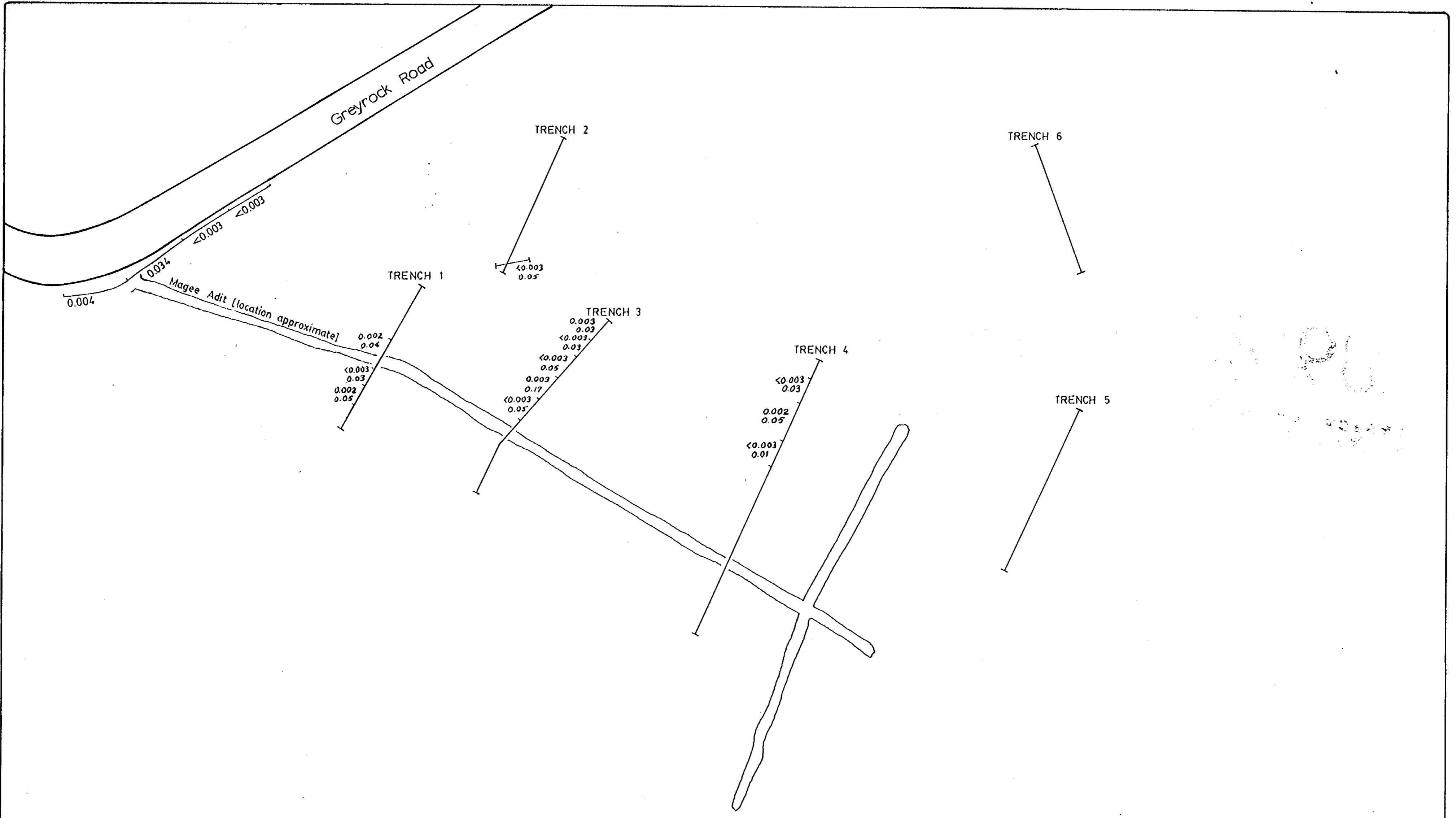
MARQUIS CREEK

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,607



LACANA			
<small>HELMUTH OIL COMPANY LTD ADVENTURES LTD LACANA MINING CORPORATION</small>			
CANADIAN MINERALS JOINT VENTURE			
OLYMPIC-KELVIN DDH LOCATION PLAN			
<small>0 10 20 30 40 50 60 METERS</small>			
PREPARED BY	SCALE	DATE	N.T.S SHEET FIGURE
LK	1:1000	6-84	92./15E 3



**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

12,607

TRENCH 7
0.003
0.05
<0.003
<0.01



Au in oz/ton
Ag

LACANA		CONVENTURES LIMITED	
		MURPHY OIL COMPANY LTD	
		LACANA MINING CORPORATION	
CANADIAN MINERALS JOINT VENTURE			
MAGEE TRENCHES			
DATE	SCALE	DATE	NO.
LK	1:200	6-84	92J/15E 4