

MAR 20040021: CLEARWATER

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ASSESSMENT REPORT

**889966 ALBERTA LTD.,
METALLIC AND INDUSTRIAL MINERAL PERMIT
#9301090002**

**EAST AND FAR-EAST RIDGES DRILLING PROGRAM 2004
CLEARWATER PROPERTY**

Submitted by 889966 Alberta Ltd.

September, 2005

Geologist: W. D. M'Ritchie Ph. D.

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**CLEARWATER PROPERTY
EAST AND FAR-EAST RIDGES DRILLING PROGRAM 2004
ASSESSMENT REPORT**

INTRODUCTION AND SUMMARY:

This report presents the results of a drilling program conducted during the summer of 2004, in the Foothills region of west-central Alberta, to evaluate limestone bedrock resources on the Clearwater Property, 30 km west of Caroline.

The Clearwater Property, formerly owned by Highwood Resources Ltd., is currently owned by 889966 Alberta Ltd., and is covered by Mineral Surface Lease #830558 and Metallic and Industrial Mineral Leases #9497070001, #9497070002 and #9498040001 (Fig. 1). In 2004, drilling was conducted on the eastern portion of MIML #9497070001 and the area immediately to the east, covered by Metallic and Industrial Mineral Exploration Permit #9301090002, also held by 889966 Alberta Ltd.

Previous work on the Clearwater Property included bedrock mapping and sampling (1999, 2000, 2001), an initial 6-hole reconnaissance drilling program (2001), extension of the bedrock mapping and sampling to the East Ridge sector of the property (2001), and a “Scoping study for limestone Quarry” by mining consultants in 2002. The consultants recommended a multi stage evaluation of the limestone resources on the property. The initial phase of this follow-up, in 2002, entailed a 10 hole drilling program on the south panel of the Main Ridge (Fig. 1), “to enable the resource to be classified to *inferred* or *indicated* categories and to enable feasibility studies”. The consultants also recommended that “The (East Ridge) limestone deposit east of the East Coulee should be assessed, as information becomes available, to determine whether it should be mined prior to the north Panel.”

The principal target of the 2004 drilling program was the ~60 m thick Pekisko Formation, in which three significant limestone units (designated as Quarry Units A, B, and C) are separated by intervening calcareous dolomite and dolomite layers (a) and (b) (M^cRitchie 2002).

As indicated above, earlier work on the Clearwater property focused on the Main Ridge of the property (Fig. 1), where Pekisko Formation units are exposed on the west-dipping, west limb of the Corkscrew Mountain anticline in a cuesta-like configuration. East of the Main Ridge, a steep, west-dipping, NNW-trending reverse fault, truncates the west limb separating it from the anticline core. East of the fault, the crest of the anticline plunges at shallow angles to the north and all three limestone beds and interlayered, recessive dolomite intervals, are exposed in cliffs/bluffs overshadowing the quarry yard. These outcrops continue to the southeast, where they underlie the East Ridge (Fig. 2). The “Ridge” is capped by Quarry Unit C, with Quarry Unit B exposed in west-facing bluffs. Further south, components of the Pekisko Formation were sampled in bluffs on the north shoulder of FTR #734.

The aims of the drilling program in 2004 were therefore:

- to confirm the existence and continuity of the respective Pekisko limestone and dolomite beds underlying the East Ridge,
- to further explore variations in the stratigraphy of the Pekisko Formation along its strike length, and

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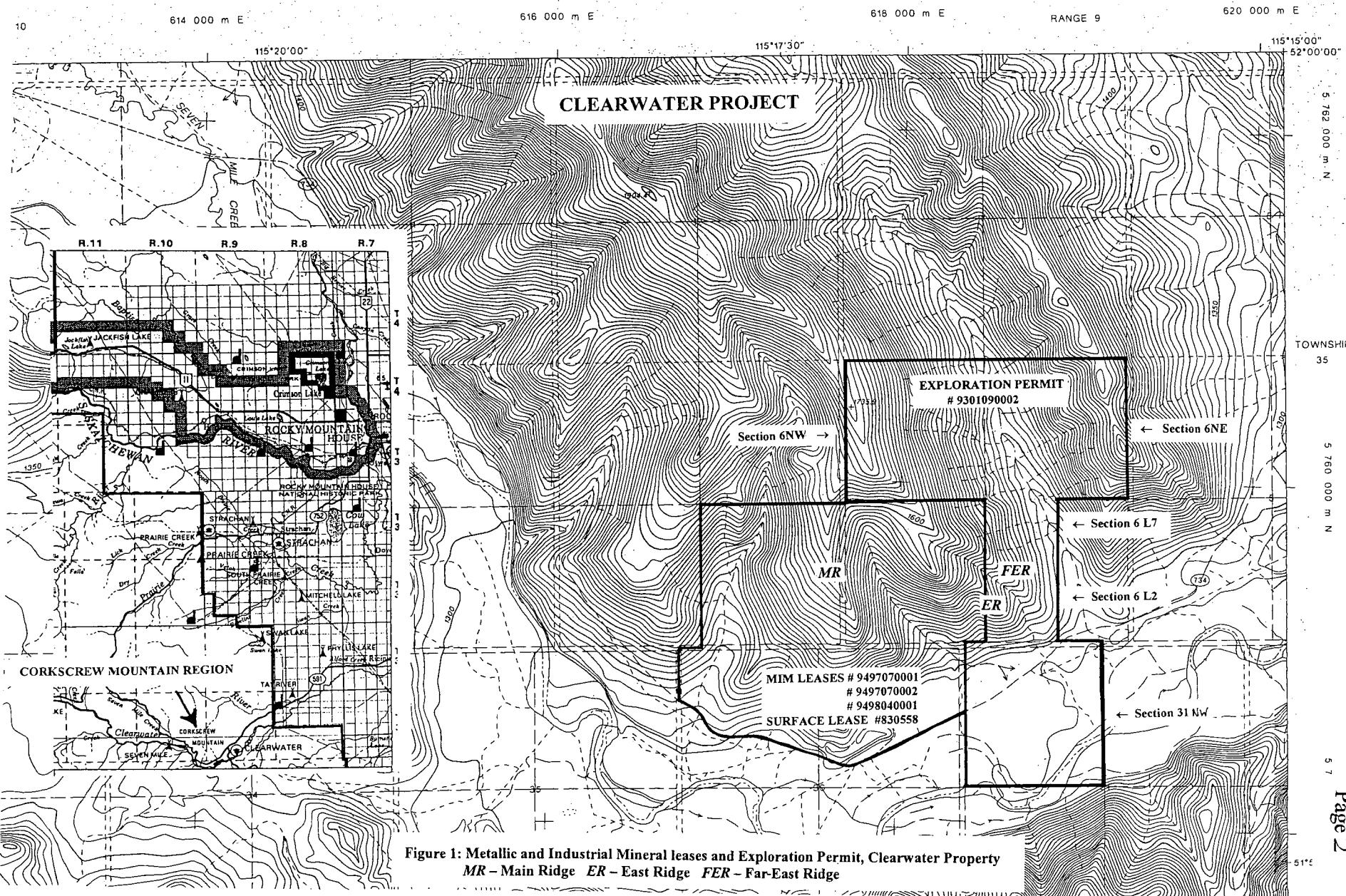


Figure 1: Metallic and Industrial Mineral leases and Exploration Permit, Clearwater Property
MR – Main Ridge ER – East Ridge FER – Far-East Ridge

Table 1: INITIAL 2004 DRILLING PROGRAM PROPOSALS
EAST RIDGE

Permit/ Lease	DDH#	Easting	Northing	Azimuth	Dip	Length (m)
P	ER1	618975	5758855	240	-55	75
P	ER2	618830	5758985	240	-55	60
P	ER3	618705	5759060	240	-55	50
L	ER4	618560	5759195	240	-55	55
L	ER5	618415	5759335	240	-55	65
L	ER6	618190	5759410	240	-85	60
					Total	365

**Table 2: 2004 PROGRAM, FINAL DRILL HOLE PARAMETERS,
CLEARWATER PROPERTY**

PERMIT/ LEASE	DDH	UTM EASTING	UTM NORTHING	ELEVN./ GPS	ELEVN./ MAP PLOT	GPS/PLOT DIFF.	AZ/DIP	ACID TEST	LENGTH/ M
P	ER1	618982	5758884	1298	1278	20	240/-55	-54	78.03
P	ER2	618842	5758974	1365	1333	32	240/-56	-53.5	73.76
P	ER3	618812	5759132	1390	1374	16	240/-57	-54	121.01
P	ER4	618715	5759245	1430	1416	14	240/-58	N.A.	62.79
P	ER4A	618694	5759230	1420	1413	7	240/-59	-60	108.81
P	ER5	618607	5759307	1463	1452	11	240/-60	-59	114.91
L	ER6	618487	5759387	1512	1503	9	240/-61	N.A.	82.91
L	ER7	618198	5759413	1633	1590	43	240/-85	-87.5	83.21

- to determine the relationships of the Pekisko Formation with the overlying Shunda Formation and Turner Valley Formation, as well as the underlying Banff Formation (Fig. 2).

A proposal was formulated for an initial drilling profile (6 holes), along the East Ridge to determine the size and extent of limestone resources underlying this sector of the property (Table 1).

An application for an Exploration License (#5450) and Permit (#5451) was submitted to Alberta Sustainable Resource Development April 28, 2004. Frontier Drilling Corp. submitted the successful bid on the drilling program and drilling was initiated August 12, 2004. Inspection of the access options to the drill sites originally planned along the crest of the East Ridge, indicated sundry terrane obstacles that would incur time delays in driving the new cat trails.

Accordingly, after drilling the initial two holes (ddh ER-1 and ER-2), a decision was made to continue the drilling profile up the crest of the Far-East Ridge (Fig. 2), with the intent of drilling the remaining East Ridge sites at a later date. A Temporary Field Authorization for the modified program was issued by the LFS representative, August 16, 2004.

A new 1.2 km cat trail was driven from FTR #734 up the crest of the Far-East Ridge. Water lines were established from a spring at the base of the hillside on MIML #9497070001. Eight (NQ) holes were drilled along a profile extending from FTR #734 (ddh ER-1, elevation 1278 m), to the crest of the Corkscrew Mountain anticline (ddh ER-7, elevation 1590 m). Six of these holes (ddh ER-1, ER-2, ER-3, ER-4, ER4A and ER-5) were drilled on Exploration Permit #9301090002. Drill parameters (Table 2) were selected to result in core retrieval perpendicular to the bedding, i.e. to yield true stratigraphic thicknesses.

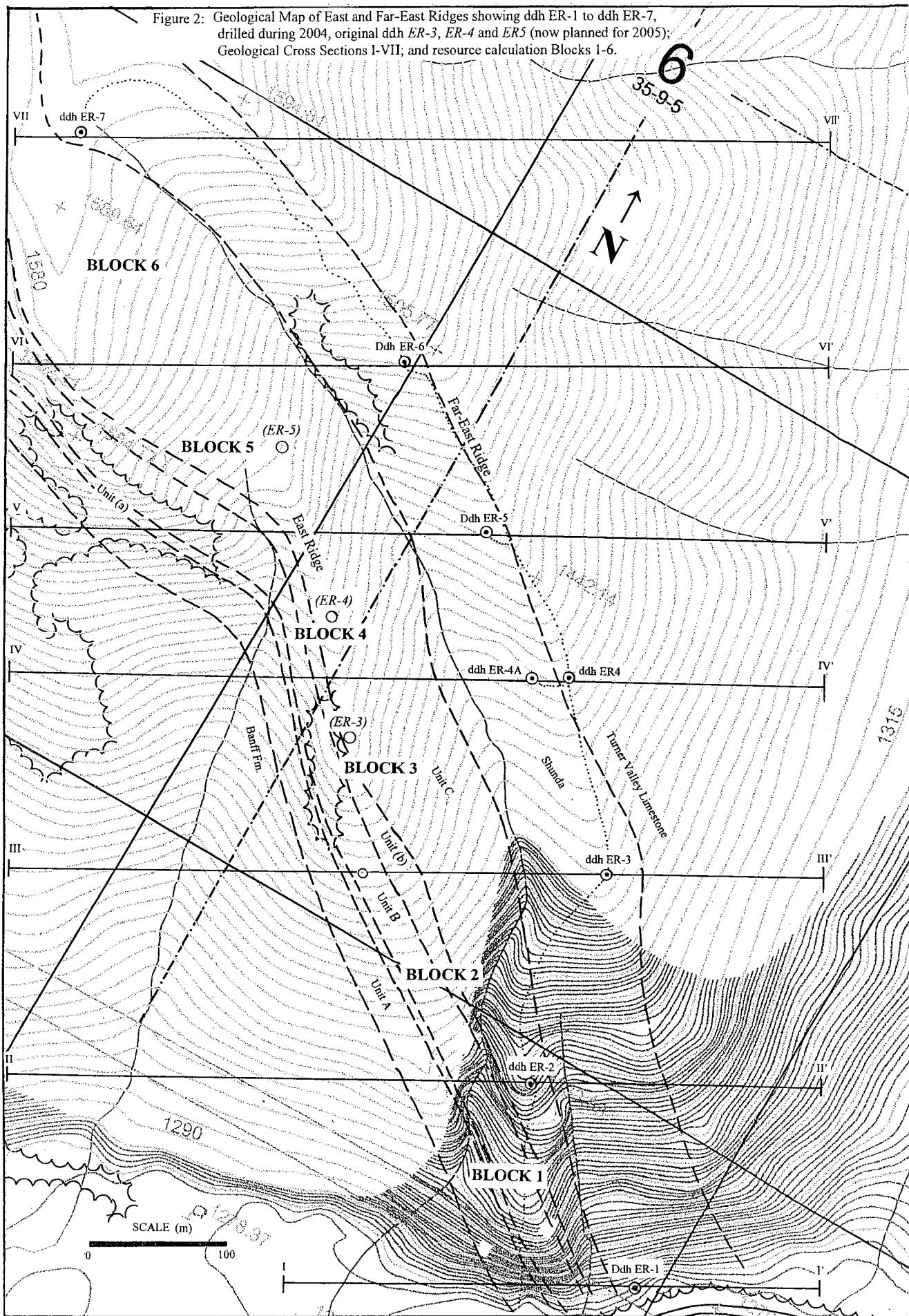
In several instances, the friable and crumbly carbonate-rich intraformational breccias of the Shunda Formation, dictated the need to use additional casing during the initial stages of drilling. Consequently, although overburden thicknesses were generally less than 3 m, several of the holes required up to 9 m of casing, before the holes were stabilized for drilling to greater depths.

Drilling on the Far-East Ridge was completed August 30, 2004.

Access to the new cat trail was blocked and rehabilitation of selected sites completed by September 13, 2004.

Core retrieved from the drilling program was washed/photographed/logged/sawn in half/sampled and racked. 301 samples from the permitted area, representing lithologically coherent intervals, were shipped to Acme Analytical Laboratories in Vancouver, for R150 sample preparation and Group 4A analysis by Induction Coupled Plasma (ICP). The remaining half of the drill core was stored on-property in racks.

Photographs of drill sites, core and core racks were taken as an essential component of the project documentation.



RESULTS:

Summary and final Reports on the 2004 drilling program were submitted to 889966 Alberta Ltd., respectively Oct. 2004 and Nov. 22, 2004 (McRitchie 2004a, 2004b).

The information collected from the drilling program was subsequently combined with data stemming from previous surface geological mapping and sampling programs (McRitchie 2000, 2001 and 2002). Minor amendments were made to the geological map of the property, and seven new geological cross sections across the East and Far-East Ridges of the Clearwater Property were compiled to facilitate new tonnage calculations. Five of these fall within the area of Exploration Permit #9301090002 (Figs. 3-7).

The stratigraphic subdivision of the Pekisko Formation into five principal units (three limestone and two calcareous dolomite) was extended to seven, to include sub-division of the original high-calcium limestone Unit C into two high-calcium limestone members C1 and C2 separated by a thin calcareous dolomite (c).

As explained earlier, for logistical reasons, the original sites for ddh ER-3 to ER-6 were re-located along, or on the immediate west flank of the Far-East Ridge, rather than the East Ridge itself (Fig. 2, Table 2). At the north end of the profile, the site for ddh ER-7 was selected close to the axis of the Corkscrew anticline, near the upper junction of the East and Far-East ridges. These locations gave a high probability that the entire Pekisko sequence would be intersected by the drilling, as well as some component of the overlying Shunda breccias.

Detailed recovery and lithologic logs of the drill core are included in the Appendix along with financial data and chemical analyses of the samples taken from the drill core.

Unit thicknesses are shown in Table 3, and Geological Cross sections in Figures 3-7. Variations in unit thickness from ddh ER-1 to ddh ER-7 are illustrated in Figure 8.

Complete sections of the Pekisko Formation, from the upper contact with the overlying Shunda Formation down into the underlying Banff Formation, were obtained in ddh ER-3, ER-4A, ER-5 and ER-7. Ddh ER-6 was abandoned because of blocking after penetrating Unit (a); ddh ER-4 was lost at 62.79 m shortly after penetrating "Classic" Unit C; ddh ER-4A was drilled a short distance to the west of ddh ER-4 and obtained a complete stratigraphic section through to the basal Banff Formation; ddh ER-2 was collared at an elevation below the base of the Shunda Formation and missed the upper high-calcium Unit C2; and ddh ER-1 returned a section in which 17.82 m of high-calcium limestone (Unit A) was capped by an a-typically dolomitized sequence with only remnants of recognizable stratigraphy, all of which was below the elevation of FTR #734.

In summary, the following observations stem from the inspection of the drill core and chemical analyses:

- With the exception of the pervasive dolomitization observed in the upper section of ddh ER-1, all drill holes encountered a "normal" Pekisko Formation stratigraphy that is similar to that defined on the Main Ridge of the Clearwater Property.

- Quarry Unit **A**, the principal high-calcium limestone layer, averages 16.8 m in thickness and is pure throughout. The unit thins gradually from ddh ER-1 (on FTR #734), to ddh ER-7 (the crest of the anticline).
- Quarry Unit **(a)** is inconsistent and ranges in thickness from 5.6-9.0 m.
- Quarry Unit **B**, the second principal high-calcium limestone layer, averages 15.8 m in thickness. It is less pure than Unit **A** and tends to have thin, though minor, dolomitic intervals within it.
- Quarry Unit **(b)** has an average thickness of only 9.5 m, considerably less than that on the Main Ridge. The thickest, atypical, development is on the crest of the Corkscrew anticline.
- Quarry Unit **C** has two limestone components (Unit **C1** – average thickness 5.5 m, and Unit **C2** - average thickness 6.2 m) separated by a thin dolomitic interval (Unit **(c)**- average thickness 4.1 m). Much, if not all, of the east-facing flank of East Ridge is capped by Unit **C2**. Unit **C1** is thinner over the crest of the anticline, Unit **C2** is thicker. The intervening dolomite of Unit **(c)** is thinnest on the anticline crest.
- The combined limestone thickness averages 44.3 m, and dolomite 20.7 m.

This stratigraphy is consistent from the crest of the Corkscrew Anticline, down to the elevation of FTR #734. Below this elevation, in ddh ER-1, although Unit A appears unaffected and retains a thickness of 17.8 m, the upper limestone units are pervasively dolomitized and are reduced in thickness (Table 3).

Initial resource calculations indicate approximately 10 million tonnes of recoverable high-calcium Pekisko limestone underlying the East Ridge, together with approximately 5 million tonnes of interlayered dolomitic units, some intervals of which have potential as rip rap.

The Pekisko Formation is overlain by carbonate-rich intraformational breccias and dolomitic siltstones of the Shunda Formation (approximately 50 m thick).

This sequence is capped by a high-calcium limestone layer of the Turner Valley Formation (5-8 m thick), that is in turn overlain by dolomitic units, also of the Turner Valley Formation. The Turner Valley Limestone caps much of the Far-East Ridge, and outcrops in 5-8 m high bluffs at the northern end of the area examined in the drill profile.

Table 3: Unit intercept thicknesses in ddh ER1 to ddh ER-7 drilling program, Clearwater Property Far-East Ridge.

Figure 3: Geological Cross Section, I-I' (ddh ER-1).

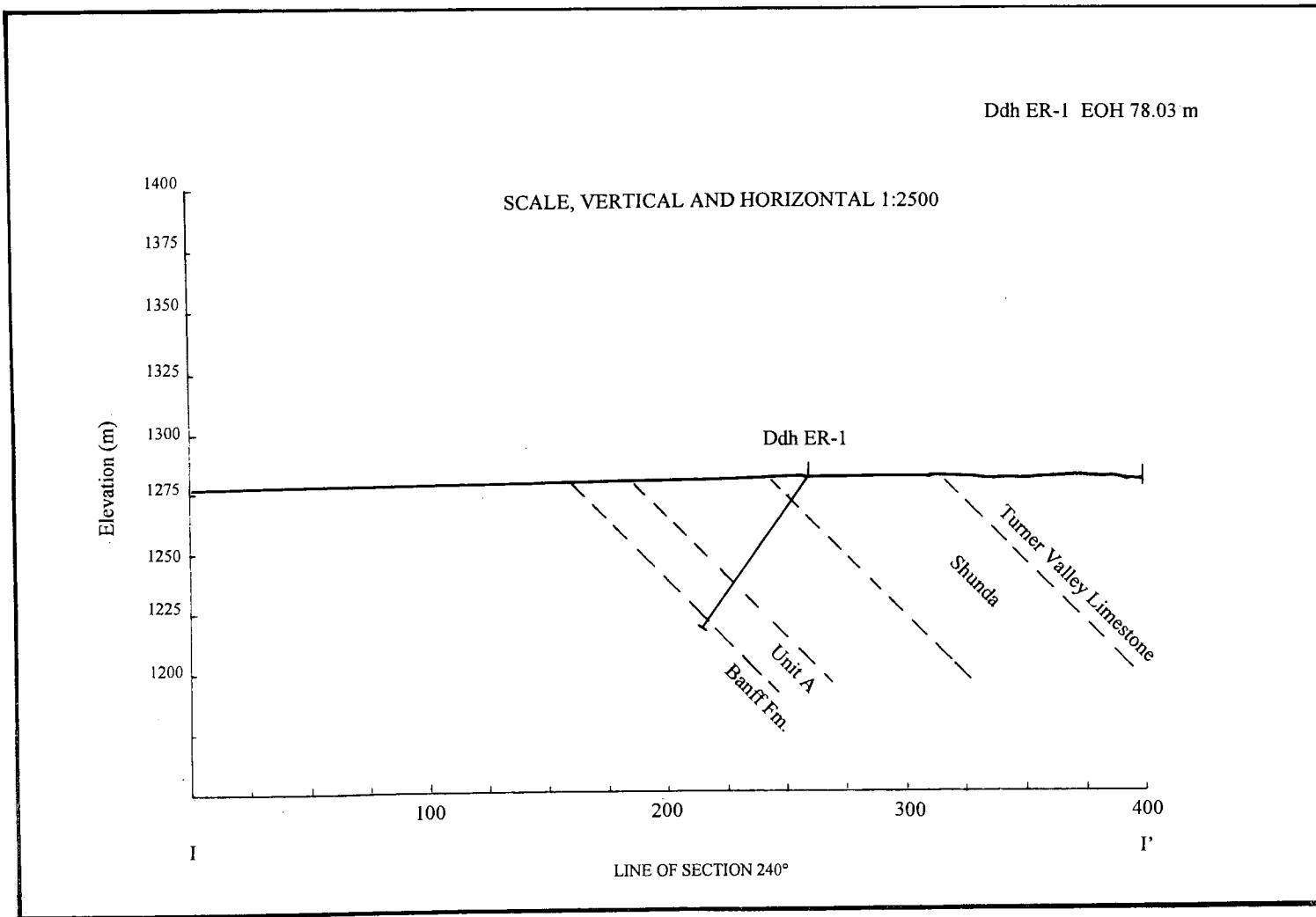


Figure 4: Geological Cross Section II-II' (ddh ER-2).

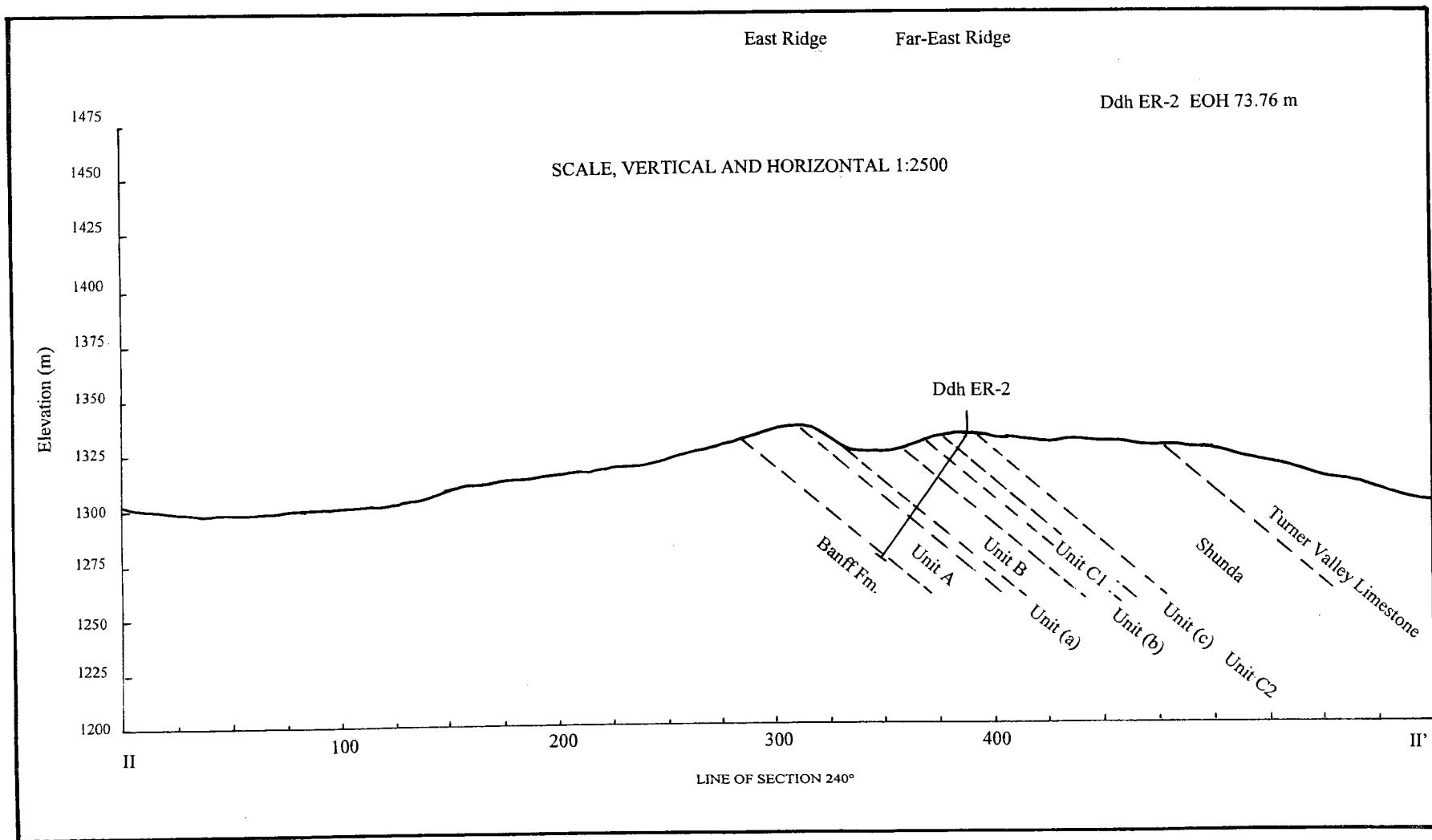


Figure 5: Geological Cross Section III-III' (ddh ER-3).

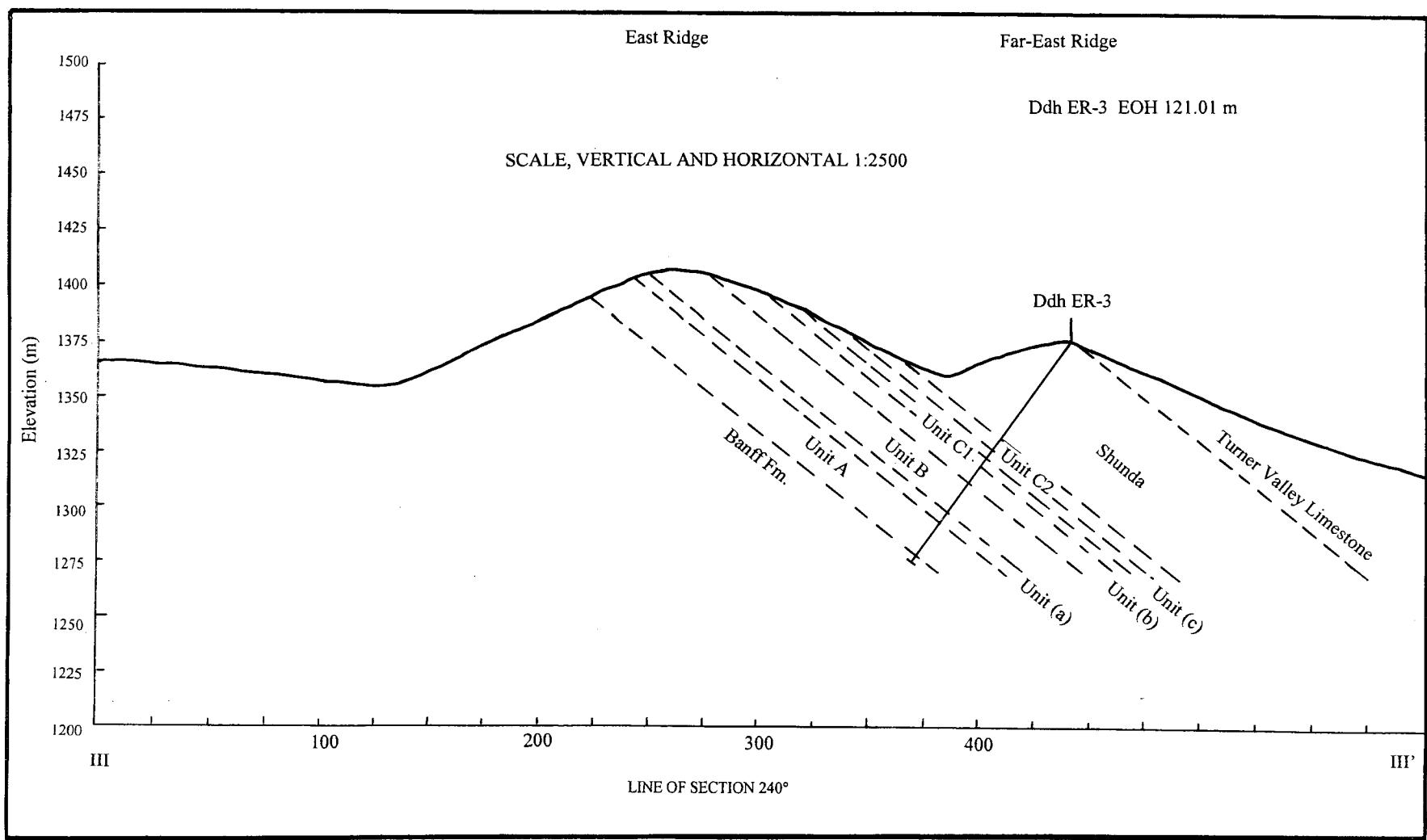


Figure 6: Geological Cross Section IV-IV' (ddh ER-4 and ddh ER-4A).

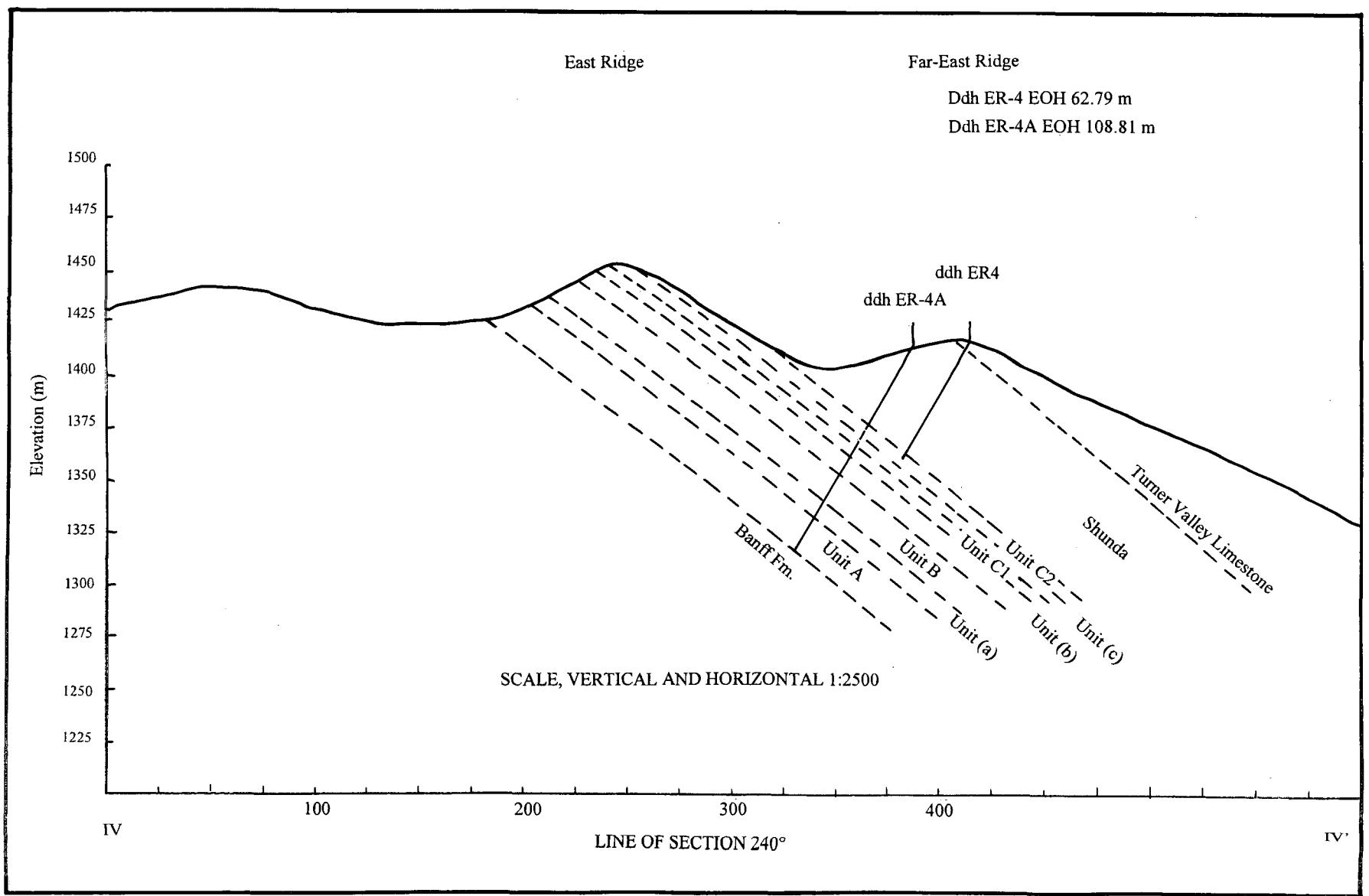
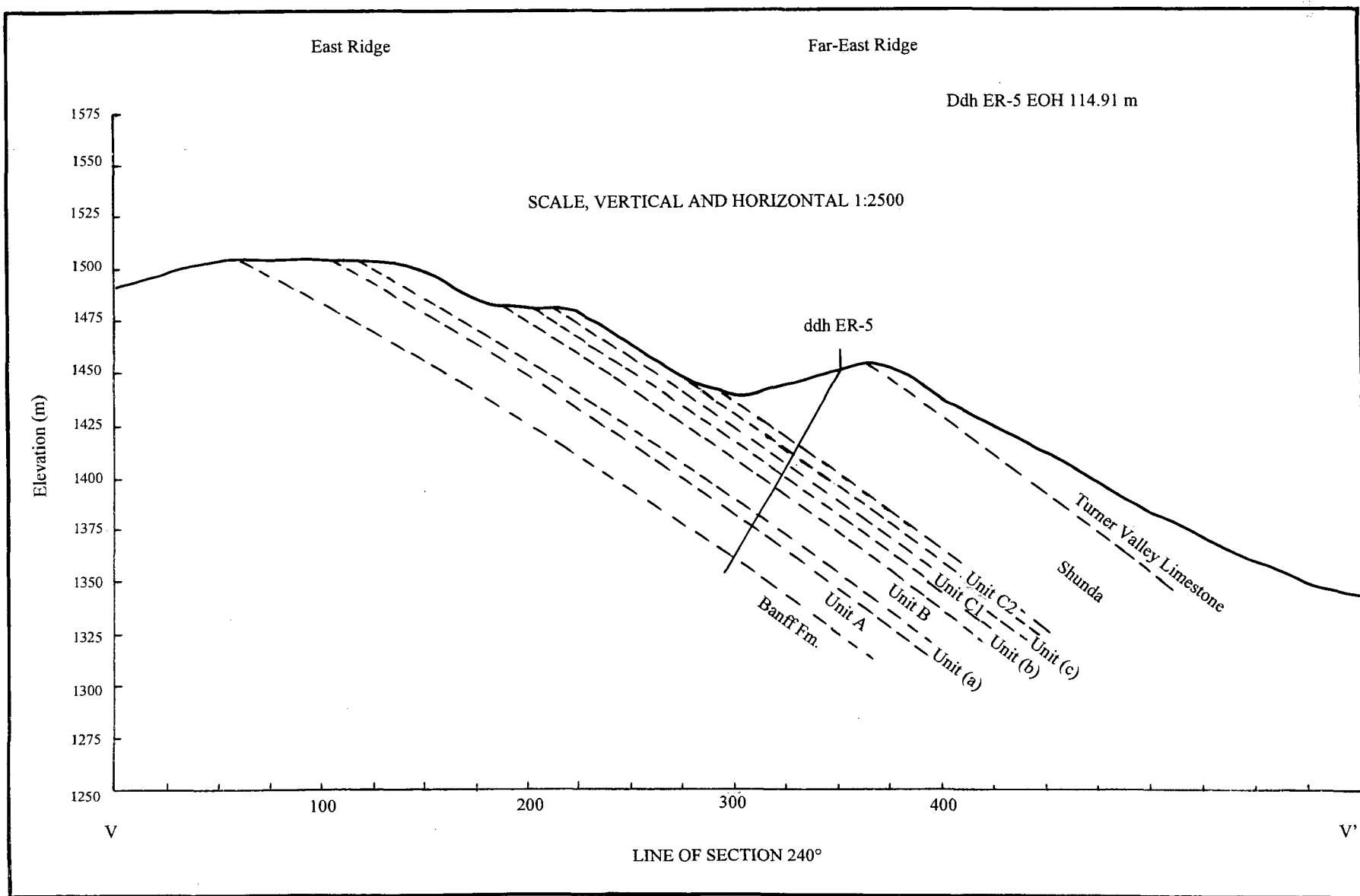


Figure 7: Geological Cross Section V-V' (ddh ER-5).



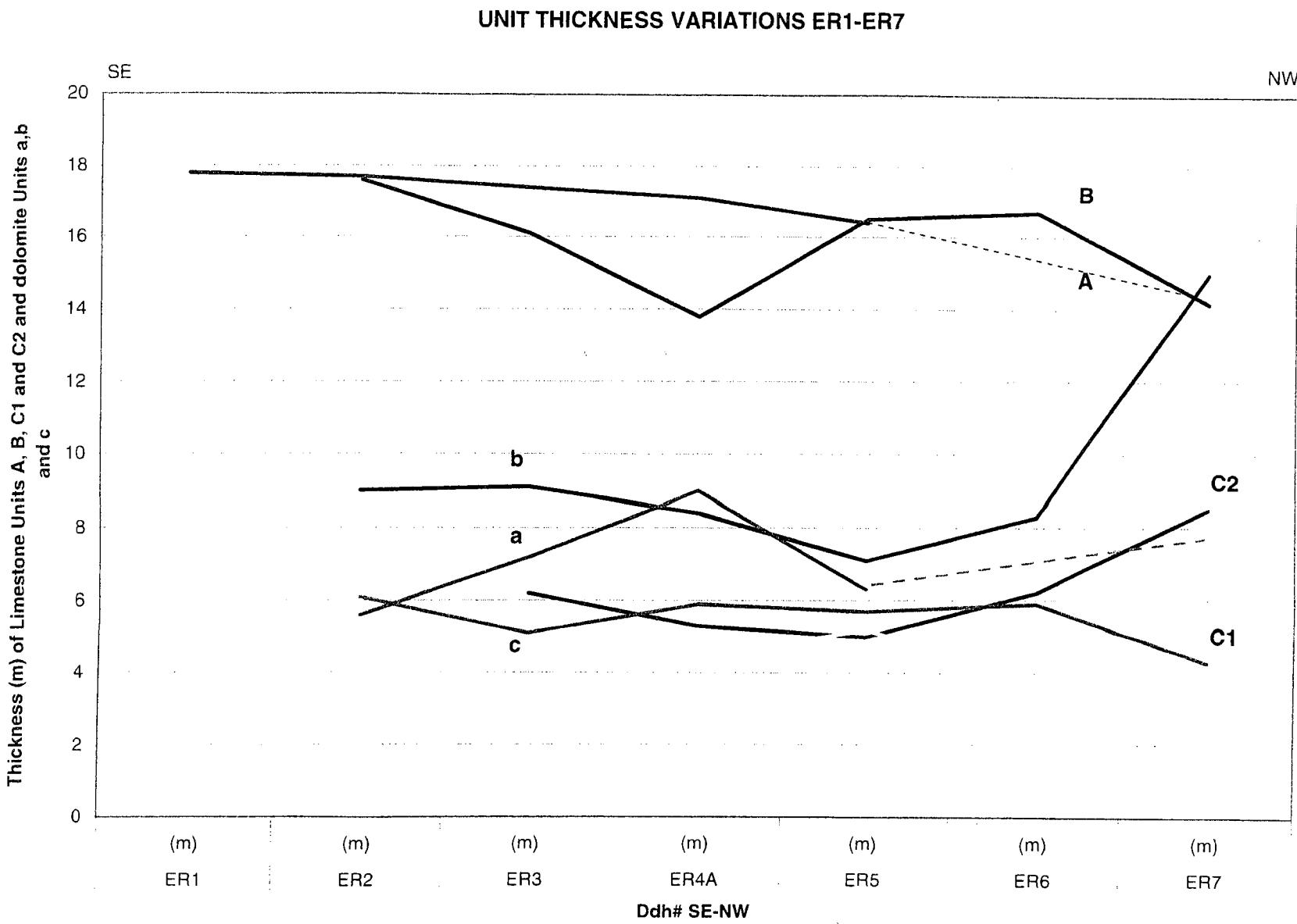


Figure 8: Unit thickness variations from ddh ER-1 to ddh ER-7.

REFERENCES:

- Consultants 2002: Scoping study for limestone quarry Clearwater Property, Alberta. Confidential Report prepared for 889966 Alberta Ltd. January 2002.
- McRitchie, W. D. 1999: Preliminary review of limestone prospects near Corkscrew Mountain and Prairie Creek Alberta. Confidential Report, August/September, 1999.
-2000: Drilling Program and resource evaluation on Highwood Resources Ltd.'s Limeco Mineral Property, Corkscrew Mountain. Confidential Report August September 2000.
-2000: Property evaluation, Corkscrew Mountain Limestone Quarry-East Coulee. October 2003.
-2002: Clearwater Property Main Ridge-South Panel Drilling Program, Confidential Report, July-August, 2002.
-2003: Clearwater Project Secondary Materials Investigation Drilling Program, Confidential Report, August 2003.
-2004: Proposed Resource Evaluation Drilling in the Clearwater Property Region, 2004. Confidential Report, March 2004.
-2004a: Summary Report, 2004 drilling program, Clearwater Property eastern sector. Confidential Report, October 2004.
-2004b: Clearwater Property-East and Far-East Ridges: Drilling Program 2004. Confidential Report, November 2004.
- Ollerenshaw, N. C. 1968: Preliminary account of the geology of the Limestone Mountain map-area, Southern Foothills, Alberta. Geological Survey Canada, Paper 68-24; and accompanying Geological Map 8-1968, Geology Limestone Mountain
- Penner, D. G. 1958: Shunda Formation. In, Eighth Annual Field Conference Guidebook, Alberta Society Petroleum Geologists. Pp. 64-68.
-1959: Mississippian of south-central Alberta, In, Ninth Annual Field Guidebook, Alberta Society of Petroleum Geologists, p 105-112.

APPENDIX

1) FINANCIAL INFORMATION

2) RECOVERY LOGS

3) LITHOLOGIC LOGS

4) CHEMICAL ANALYSES

“EXHIBIT A”

1) FINANCIAL INFORMATION

METALLIC AND INDUSTRIAL MINERALS PERMIT NO. 9301090002

TERM COMMENCEMENT DATE:

SEPTEMBER 04, 2001

AGGREGATE AREA:

224 HECTARES

DESCRIPTION OF LOCATION AND PERMITTED SUBSTANCES:

5-09-034: 31 NW

5-09-035: 6N, L2, L7

METALLIC AND INDUSTRIAL MINERALS

SPECIAL PROVISIONS:

NIL

FIRST ASSESSMENT PERIOD: SEPTEMBER 04, 2003.

PAYMENT OF \$1120.00 MADE BY 889966 ALBERTA LTD., DECEMBER 04 2003;

FINANCIAL INFORMATION:

FRONTIER DRILLING CORP.*

Total metres drilled during 2004 program 831.15 m

Total cost of drilling program \$101,437.00 plus GST \$7,100.59 = **\$108,537.59**

Total metres drilled on Permit # 9301090002 - 569.95 m (ddh ER-1 to ER-5)

Prorated cost of drilling on Permit #9301090002 = **\$74,428.20 (incl. GST)**

*Detailed invoice attached

ANALYTICAL COSTS: (see Excel spreadsheet)

CONSULTANT COSTS: (see Excel spreadsheet)

AGGREGATE AREA UNDERLYING PERMIT #9301090002

224 hectares

Assessment requirement at \$10/hectare - **\$2,240.00**

Total expenditures related to the 2004 drilling program on Permit #9301090002:

Consultant fees and expenses \$ 44,071.67

Drilling costs Frontier Drilling \$ 74,428.20

Acme Analytical fees \$ 8,999.87

Total: **\$ 127,499.74**

Total credits: \$ 127,499.74

September 2005 commitment: \$ 2,240.00 (end of second assessment period)

Credit remaining: **\$ 125,259.74**

CONSULTANT INVOICES 2004 DETAIL (related to permit #9301090002)				
Invoice #	Expenditures* \$	Fees \$	GST \$	Total \$
04-2004-1	4.85	3031	212.17	3248.02
04-2004-2	187.35	3476.5	243.35	3907.2
04-2004-3	5834.2	13839.14	968.74	20642.08
04-2004-4	2425.04	6017.02	421.19	8863.25
04-2004-5	19.1	6908.43	483.59	7411.12
TOTALS	8470.54	33272.09	2329.04	44071.67

* includes GST payments on all purchases

2004 CONSULTANTS COSTS - OTHER EXPENDITURES BY CATEGORY							
EQUIPMENT	ACCOMODATION	MEALS	TRAVEL/ VEHICLES	MAIL/TEL/ FREIGHT	REPORT/ MAP	REPRODUCTION	TOTAL (\$)
2115.68	1612.72	984.03	2634.35	1243	89.04	61.72	8740.54

ANALYTICAL COSTS 2004 EXPLORATION PERMIT # 9301090002

FRONTIER DRILLING CORP.*

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Prorated cost of drilling on Permit #9301090002 = **\$74,428.20 (incl. GST)**

*Detailed invoice attached

FRONTIER DRILLING CORP.
 1809 Pratt Rd.
 Kamloops B.C.
 V2C 4J4
 Ph/Fax 250-573-2828
 cell 250-851-1575
 In Account with: 889966 Alberta Ltd.

INVOICE DATE: SEPT 5 /04

PERIOD: AUG. 11 – Sept 02 / 04

INVOICE # : ALB 04 – 01

PROJECT NAME: Clearwater Property

LOCATION: ALBERTA

JOB NUMBER: FDC 04 / 05

DRILLING CHARGES:

ER-1- 78.02 mts	ER-5- 114.90 mts	
ER-2- 84.43 mts	ER-6- 82.90 mts	
ER-3- 121.00 mts	ER-7- 83.21 mts	
ER-4- 62.79 mts	CS-2- 70.71 mts	
ER-4a- 108.81 mts	CS-2a- 24.38 mts	
TOTAL METERS = 831.15 meters @ \$ 80.00 per meter		\$ 66,492.00
HOLE STAB. REAMING NQ & NW 33 hrs @ \$ 110.00 per hr		= \$ 3,630.00
CAT HOURS moves,sump& trails 62 hrs @ \$110.00 per hr		= \$ 6,820.00
MAN hours moves ,water bucking 192 hrs @ \$ 30.00 per hr		= \$ 5,760.00
ACID TEST 8 @ \$ 50.00 per test		= \$ 400.00
PAIL GX 550 4 @ \$ 185.00 per pail		= \$ 740.00
ROD GREASE 8 @ \$120.00 per pail		= \$ 960.00
G –STOP 1 @ \$ 220.00 per pail		= \$ 220.00
QUAD RENTAL 3 weeks @ \$ 500.00 per week		= \$ 1,500.00
ROOM & BOARD 22 days @ \$50.00 per day per man		= \$ 4,400.00
MOB & DEMOB FLAT RATE		= \$6,000.00
(NEW)10 ft (NQ) RODS 20 pieces @ \$ 145.00 @ 50 %		= \$ 1,450.00
(NEW)NQ 10 ft CORE BARREL 2 @ \$ 1,570.00 @ 50 %		= \$ 1,570.00
(USED)NQ 5 FOOT CORE BARREL 1 @ \$ 1,460.00 @ 50 %		= \$ 730.00
(NEW)NQ ROD TAP 1 @ \$ 450.00 @ 50 %		= \$ 225.00
ADDITIONAL FREIGHT COSTS		= \$ 540.00
SUBTOTAL		\$ 101,437.00
GST		\$ 7,100.59
TOTAL		\$ 108,537.59
LESS DEPOSIT		\$ 20,000.00
BALANCE		\$ 88,537.59

G.S.T. NUMBER : 893365932

2) RECOVERY LOGS

DRILL CORE RECOVERY LOG;											
DDH ER-1											
M	INTERVAL	RECOV.	%	M	INTERVAL	RECOV.	%	M	INTERVAL	RECOV.	%
0-6.1	6.1	CASING	0	22.86-24.38	1.52	1.5	99	47.85-49.38	1.53	1.5	99
6.1-7.6	1.5	1.47	98	24.38-25.91	1.53	1.55	100	49.38-53.43	3.05	2.95	98
7.6-9.1	1.5	1.32	88	25.91-27.43	1.52	1.54	100	52.43-55.47	3.04	3	100
9.1-10.06	0.94	0.6	64	27.43-28.96	1.53	1.54	100	55.47-58.52	3.05	3.05	100
10.06-11.6	1.54	1.5	100	28.96-30.48	1.52	1.5	100	58.52-61.57	3.05	3.05	100
11.6-13.1	1.5	1.5	100	30.48-32.0	1.52	1.56	100	61.57-64.62	3.05	2.95	97
13.1-14.6	1.5	1.46	97	32.0-33.53	1.53	1.53	100	64.62-67.67	3.05	3.05	100
14.6-16.15	1.55	1.55	100	33.53-35.05	1.52	1.5	100	67.67-70.71	3.04	3.05	100
16.15-17.68	1.53	1.5	99	35.05-38.01	2.96	3	100	70.71-72.24	1.53	1.5	100
17.68-18.9	1.22	1.2	99	38.01-39.93	1.92	1.9	100	72.24-73.46	1.22	1.22	100
18.9-20.4	1.5	1.5	100	39.93-42.98	3.05	3.05	100	73.46-74.98	1.52	1.54	100
20.4-21.3	0.9	0.9	100	42.98-46.02	3.04	2.95	100	74.98-76.50	1.52	1.45	95
21.3-22.86	1.56	1.5	96	46.02-47.85	1.83	1.8	100	76.50-78.03	1.53	1.53	100

6.1 m casing. Core axis 80-85 degrees to bedding. 6.1-22 m mixed interlayered buff and grey dolomitic siltstones with sporadic coarser grained calcite-rich bioclastic beds. Dolomitic muds otherwise f-vfg. Bed contacts commonly irregular with pyrobitumen at top of calcite-rich beds. 22-25.1 m typical Unit C dark grey matrix with coarser grained blue-white calcite flecks and sporadic oolitic textures. 25.1-28.5 mixed tan dolomitic siltstones and bluer calcitic muds. At 28.5 m, 25 cm thick brecciated zone with vcg segregations and veinlets of calcite. Tan dolomitic mudstones continue to 30.5 m, at which point white calcite clots begin to appear reaching a max. size of 6-8 cm between 32.5 and 33.0 m. Sharp contact at 34.2 m with coarse grained blue bioclastic limestone (Unit B) below. Limestone continues to 38.6 m, below which tan dolomitic mudstones reappear to 41 m. At 41 m a coarsely stylolitic contact caps a good bluey coarse grained limestone (Unit B) for 40 cm. Tan dolomitic mudstones persist from 41.4-43.25 m becoming slightly more calcitic towards the base. Limestone re-enters to 44.3 m, and then variably calcitic mudstones to dolomitic limestone from 44.3-44.6 m. Limestone re-enters from 44.6-51.4; dolomitic mudstones from 51.4-52 m; limestone from 52-52.43 m, dolomitic mudstones with soft-sediment structures from 52.43-52.63 m; dolomitic limestone from 52.63-54.5 m and then good coarse-grained Unit A limestone from 54.5-72.34 m. 7 cm thick grey clay at 63.1-63.17 m. The lower contact with the very fine grained medium grey wispy-bedded calcareous muds of the Banff Formation is exceedingly abrupt. Below this, the sequence is dominated by dark grey siltstones, calcareous siltstones and occasional Unit C-type pisolithic limestone beds with interstitial tan dolomitic muds. EOH 78.03 m.

3) LITHOLOGIC LOGS

DRILL CORE DESCRIPTION LOG

Project: CLEARWATER	Property: CLEARWATER	Hole: ER-1	Drilled By: FRONTIER	EOH: 78.03
UTME: 618982	UTMN: 5758884	Elevn.: 1278 M	Core Type: NQ	Az/Dip: 240/-55
Acid test: -54	Start Date: 12/8/2004	End Date: 13/8/2004	Logged By: W. D. MCRITCHIE	
Formation/ Member	Sample #	From - To (m)	Summary Lithology (Col/homog/gmsize/gmdistr/struct/fabric/fossils/comp)	
		0-6.1	Casing	
		6.1-6.38	Fine grained, blue grey and tan weakly calcareous siltstone	
	ER-1-04-1	6.38-6.66	Interlayered tan and grey calcareous dolomite mudstone and siltstone with coarser grained white bioclastic blebs	
	ER-1-04-2	6.66-6.85	Calcareous dolomite mudstone-dominated interval with sporadic 2-3 mm blebs of blue-white calcite	
	ER-1-04-3	6.85-7.17	Pyrobitumen rich coarser grained bioclastic calcareous dolomite with only sporadic wisps of dolomitic mud	
	ER-1-04-4	7.17-7.37	Tan calcareous dolomite mudstone with lenses of pyrobitumen-rich bioclastic segregations	
	ER-1-04-5	7.37-7.66	Fine grained, tan calcareous dolomite mudstone	
	ER-1-04-6	7.66-8.2	Medium to dark grey very fine grained silty calcareous dolomite mudstone	
	ER-1-04-7	8.2-10.06	Coarser grained calcitic segregations in crumbly calcareous dolomite matrix	
	ER-1-04-8	10.06-11.35	Alternating beds of tan siliceous calcareous dolomite mudstone and bluer, slightly coarser grained calcitic (limestone). Dolomitic beds are finely laminated, as are the calcitic beds	
	ER-1-04-9	11.35-11.85	Coarser grained blue-grey bioclastic siliceous calcareous dolomite with irregular upper and lower contacts	
	ER-1-04-10	11.85-12.05	Siliceous, calcareous dolomite mudstone, tan-grey and fine grained	
	ER-1-04-11	12.05-12.23	Pyrobitumen rich interval of siliceous, dolomitic limestone with coarse grained white calcitic matrix	
	ER-1-04-12	12.23-13.09	Calcareous dolomite with oolitic concentrations in layers and lenses.	
	ER-1-04-13	13.09-13.95	Oolitic structures in dolomitic limestone matrix	
	ER-1-04-14	13.95-15.33	Coarse grained bioclastic dolomitic limestone with abundant brachiopod fragments from 14.3-14.6 m. Sporadic stylolitic layer contacts	
	ER-1-04-15	15.33-15.58	Wispy bedded siliceous calcareous dolomite mudstone	
	ER-1-04-16	15.58-16.7	Calcareous dolomite with coarser grained calcites in fine grained matrix. Sharp lower contact with tan mudstones and lenticular carbonate-rich siltstone, overlying the oolitic limestone below. 10 cm oolitic layers in the calcareous dolomite.	
	ER-1-04-17	16.7-17.83	Irregularly bedded, interlayered oolitic limestone and finer grained more wispy-bedded calcareous dolomite mudstone	
	ER-1-04-18	17.83-18.72	Light tan, weakly calcareous, siliceous calcareous dolomite siltstone with sporadic brown speckles and stains. Sharp stylolitic basal contact.	
	ER-1-04-19	18.72-20.4	Medium grey highly calcareous, fine grained dolomitic limestone	
	ER-1-04-20	20.4-21.95	Medium grey highly calcareous, fine grained dolomitic limestone	
	ER-1-04-21	21.95-22.9	First obvious occurrence of Unit C limestone with dark matrix, sporadic oolitic textures and white speckles	
	ER-1-04-22	22.9-24.4	Classic Unit C dolomitic limestone with oolitic and pisolithic phases	
	ER-1-04-23	24.4-25	Calcareous dolomite version of Unit C	
	ER-1-04-24	25-25.11	Blue-white calcitic clots to 1 cm, in tan dolomitic limestone matrix	
	ER-1-04-25	25.11-26	Fine grained pale blue-grey calcareous dolomite	
	ER-1-04-26	26-27.23	Fine to medium grained blue-grey, calcareous dolomite with subordinate tan-grey parallel laminae	
	ER-1-04-27	27.23-27.64	Fine grained pale tan-grey and white wispy laminated calcareous dolomite mudstone	
	ER-1-04-28	27.64-28.4	Fine grained tan-grey calcareous dolomite with dolomite lenses	
		28.45-28.75	Veined and brecciated interval with brown-grey dolomitic matrix	

DRILL CORE DESCRIPTION LOG

Project: CLEARWATER		Property: CLEARWATER		Hole: ER-1	Drilled By: FRONTIER	EOH: 78.03		
UTME: 618982		UTMN: 5758884		Elevn.: 1278 M	Core Type: NQ	Az/Dip: 240/-55		
Acid test: -54		Start Date: 12/8/2004		End Date: 13/8/2004	Logged By: W. D. MCRITCHIE			
Formation/ Member	Sample #	From - To (m)		Summary Lithology <i>(Col/homog/gmsize/grmdistr/struct/fabric/fossils/comp)</i>				
(b)	ER-1-04-29	28.75-30.86		Predominantly calcareous dolomite with sporadic limey concentrations and white calcite blebs.				
(b)	ER-1-04-30	30.86-32		Pale tan, grey calcareous dolomite mudstone with sporadic white calcite-filled clots to 1 cm; stylolitic layer contacts and soft sediment structures				
(b)	ER-1-04-31	32-33.12		Tan calcareous dolomite mudstone with white calcite clots and amoeboid growths to 4-6 cm				
(b)	ER-1-04-32	33.12-33.53		Tan, fine-medium grained dolomite				
(b)	ER-1-04-33	33.53-34.18		Blue-grey-tan calcareous dolomite. Sharp stylolitic lower contact				
B	ER-1-04-34	34.18-35.45		Blue grey, medium-coarse grained bioclastic limestone with sporadic bed contacts				
B	ER-1-04-35	35.45-36.8		Blue grey, medium-coarse grained bioclastic limestone with sporadic bed contacts				
B	ER-1-04-36	36.8-37.85		Blue grey, medium-coarse grained bioclastic limestone with sporadic bed contacts				
B	ER-1-04-37	37.85-38.58		Blue grey, medium-coarse grained bioclastic limestone with sporadic bed contacts				
B?	ER-1-04-38	38.58-38.72		Wispy bedded blue-grey dolomitic limestone				
	ER-1-04-39	38.72-40		Tan calcareous dolomite mudstone; soft sediment structures and sporadic bedding laminae				
	ER-1-04-40	40-41.1		Sporadic mm blue calcite crystals and fragments in light tan calcareous dolomite mudstone with sharp stylolitic lower contact				
B	ER-1-04-41	41.1-41.33		Coarser grained more calcitic limestone. Stylolitic base				
	ER-1-04-42	41.33-41.75		Pale tan calcareous dolomite mudstone with sharp lower contact				
B?	ER-1-04-43	41.75-43.16		Pale tan-grey dolomitic limestone; some coarser grained calcitic layers				
B	ER-1-04-44	43.16-44.23		Medium grained, medium grey bioclastic limestone				
	ER-1-04-45	44.23-45.95		Medium grey and tan calcareous dolomite				
B?	ER-1-04-46	45.95-47.35		Blue grey dolomitic limestone				
B?	ER-1-04-47	47.35-48.62		Blue grey dolomitic limestone				
	ER-1-04-48	48.62-49.13		Slightly microporous blue-grey calcareous dolomite				
	ER-1-04-49	49.13-49.69		Tan dolomite with 5-10% white calcite clots				
A	ER-1-04-50	49.69-51.35		Blue-grey medium grained dolomitic limestone				
A	ER-1-04-51	51.35-52		Medium grained calcareous dolomite with 3 cm open vugs				
A	ER-1-04-52	52-52.43		Blue grey dolomitic limestone				
A	ER-1-04-53	52.43-54.52		Medium grained calcareous dolomite				
A	ER-1-04-54	54.52-56		Medium grey, medium grained holocrystalline, homogeneous bioclastic dolomitic limestone				
A	ER-1-04-55	56-57.5		Medium grey, medium grained holocrystalline, homogeneous bioclastic limestone				
A	ER-1-04-56	57.5-59		Light grey medium-coarse grained, homogeneous bioclastic limestone; sporadic horn corals				
A	ER-1-04-57	59-60.5		Light grey medium-coarse grained, homogeneous bioclastic limestone				
A	ER-1-04-58	60.5-62		Light grey medium-coarse grained, homogeneous bioclastic limestone				
A	ER-1-04-59	62-63.5		Light grey med-coarse grained, homogeneous bioclastic limestone; 6cm clay seam at 62.25				
A	ER-1-04-60	63.5-65		Light grey medium-coarse grained, homogeneous bioclastic limestone				
A	ER-1-04-61	65-66.5		Light grey medium-coarse grained, homogeneous bioclastic limestone				
A	ER-1-04-62	66.5-68		Light grey medium-coarse grained, homogeneous bioclastic limestone				
A	ER-1-04-63	68-69.5		Light grey med-coarse grained, homogeneous bioclastic limestone; microporous intervals				
A	ER-1-04-64	69.5-71		Light grey med-coarse grained, homogeneous limestone; intensely microporous				
A	ER-1-04-65	71-72.34		Less microporous to massive at base; sharp basal contact				
BANFF	ER-1-04-66	72.34-73.88		Very fine grained siliceous dolomitic limey siltstones with darker wispy interlenses				
		73.88-74.65		Medium grey almost non-calcareous fine grained siltstone				
		74.65-75.16		Wispy and laminar-bedded light and dark grey siltstone; non-calcareous				
		75.16-75.36		Colloidal pisolithic limestone with tan dolomitic interstices				
		75.36-78.03		Tan dolomitic mudstone and 2.5 m Unit C-type limestone; thin laminated siltstone; EOH				

DRILL CORE DESCRIPTION LOG

Project: CLEARWATER		Property: CLEARWATER	Hole: ER-2	Drilled By: FRONTIER	EOH: 73.76
UTME: 618838		UTMN: 5758985	Elevn.: 1333 M	Core Type: NQ	Az/Dip: 240/-55
Acid test: -54		Start Date: 14/8/2004	End Date: 15/8/2004	Logged By: W. D. MCRITCHIE	
Formation/ Member	Sample #	From - To (m)	Summary Lithology (Col/homog/grnsize/grndistr/struct/fabric/fossils/comp)		
		0-3.05	Casing		
C	ER-2-04-1	3.05-3.74	Highly calcareous fine grained pale grey dolomitic limestone		
	ER-2-04-2	3.74-4.57	Grey and tan-grey calcareous dolomite with prominent oolitic layers		
C	ER-2-04-3	4.57-4.6	Prominently oolitic dolomitic limestone interval with 2-3 mm brown oolites in white matrix		
C	ER-2-04-4	4.6-4.66	Highly calcareous oolitic dolomitic limestone		
C	ER-2-04-5	4.66-4.96	Medium grey fine grained weakly layered dolomitic limestone		
	ER-2-04-6	4.96-5.2	Light grey, siliceous, calcareous dolomite with spotted layer-bound iron oxide segregations		
	ER-2-04-7	5.2-5.35	Siliceous calcareous dolomite with brown oolites < 1 mm		
C	ER-2-04-8	5.35-5.73	Medium grey, highly calcareous dolomitic limestone with wispy and oolitic beds		
	ER-2-04-9	5.73-6.31	Tan-grey fine grained calcareous dolomite		
C	ER-2-04-10	6.31-6.55	Dolomitic limestone with prominent dark grey oolites and lighter matrix		
C	ER-2-04-11	6.55-8.23	Dolomitic oolitic limestone with tan grey and dark grey layers		
C	ER-2-04-12	8.23-9.95	Medium grey speckled limestone		
C	ER-2-04-13	9.95-10.6	Oolitic dolomitic limestone with distinctive white calcite flecks in darker matrix		
C	ER-2-04-14	10.6-11.59	Tan-grey dolomitic limestone with sporadic oolitic layers and white flecked speckled layers		
C	ER-2-04-15	11.59-12.33	Medium grey fine grained weakly layered dolomitic limestone		
(b)	ER-2-04-16	12.33-12.64	Tan-grey fine grained dolomite		
(b)	ER-2-04-17	12.64-12.95	Dolomite		
(b)	ER-2-04-18	12.95-14.12	Weakly laminated calcareous dolomite mudstone; parallel laminated interval near top		
(b)	ER-2-04-19	14.12-15.15	Siliceous, tan-grey and tan dolomitic muds with 3-5 cm lenses of cherty material with black cores and white, speckled rims; calcite-filled vugs to 4 cm. Some chert forms thin irregular layers. Local soft sediment structures		
(b)	ER-2-04-20	15.15-15.61	Dark grey dolomitic bioclastic limestone; brachiopod shells; stylolitic bed contacts; flattened 0.4-2 cm white calcite clots		
(b)	ER-2-04-21	15.61-16.58	Brown bioclastic calcareous dolomite with abundant small brachiopod fragments		
(b)	ER-2-04-22	16.58-18	Brown and brown grey siliceous dolomite with very small chert lenses, soft sediment structures and vague layering bedding		
(b)	ER-2-04-23	18-19.5	Brown massive calcareous dolomite speckled with sporadic mm white calcite fragments and much larger calcite filled vugs/clots to 4 cm		
(b)	ER-2-04-24	19.5-21.16	As above; the main clotted dolomite with rip rap potential. Clots range from 3 mm to 4 cm. Some larger white flecks appear to be replacing fossil debris		
B	ER-2-04-25	21.16-22.02	Medium grey, medium grained holocrystalline homogeneous blue-grey limestone		
B	ER-2-04-26	22.02-22.11	Calcareous dolomite; tan fine grained with crinoid fragments		
B	ER-2-04-27	22.11-23	Medium grey, medium to coarse grained homogeneous equigranular limestone		
B	ER-2-04-28	23-25	Medium grey, medium to coarse grained homogeneous equigranular limestone; sporadic horn corals; generally bioclastic		
B	ER-2-04-29	25-27	Medium grey, medium to coarse grained homogeneous equigranular limestone; sporadic horn corals; generally bioclastic		
B	ER-2-04-30	27-29	Slightly finer grained limestone. Sporadic stylolitic contacts		
B	ER-2-04-31	29-31	Medium grey, medium to coarse grained homogeneous equigranular limestone		
B	ER-2-04-32	31-32.46	Light grey, medium to coarse grained homogeneous equigranular limestone. Rare cm layers of dolomitic material		
B	ER-2-04-33	32.46-34	Light grey, medium to coarse grained homogeneous equigranular limestone. Rare bedding partings; and cross-cutting fracture zones		
B	ER-2-04-34	34-34.4	Medium grey, medium to coarse grained homogeneous equigranular limestone		

DRILL CORE DESCRIPTION LOG

DRILL CORE DESCRIPTION LOG					
Project: CLEARWATER		Property: CLEARWATER	Hole: ER-3	Drilled By: FRONTIER	EOH: 121.01
UTME: 618808		5759120	Elevn.: 1374 M	Core Type: NQ	Az/Dip: 240/-55
Acid test: -54		Start Date: 15/8/2004	End Date: 18/8/2004	Logged By: W. D. MCRITCHIE	
Formation/ Member	Sample #	From - To (m)	Summary Lithology (Col/hornog/gmsize/gmdistr/struct/fabric/fossils/comp)		
		0-3.05	casing		
		3.05-7	Light tan and grey argillites, moderately calcareous, with scattered 2-3 mm brown clots and segregations and as faint staining networks		
		7-8.6	Fine grained dark grey limestone flecked with white calcite		
		8.6-9.8	Argillites/siltstones with minor micropelletal layers		
		9.8-14	Mildly dolomitized buff limestone		
Shunda		14-36.7	Wide variety of intraformational breccias; distinct monomictic and polymictic layers. Fragment size and composition unique to individual layers. Some breccias appear intraclastic, others solution/collapse. All are highly calcareous. Fragment size and composition faithful to each layer. Brown dolomitized staining throughout		
		36.7-51.2	Calcareous siltstones predominate although some breccia layers also occur (up to 30 cm thick); Bedding in the argillites is at 80 degrees to the core axis		
Shunda		51.2-52.73	Brown earthy dolomitic muds with layers containing clots and segregations of vuggy white calcite. Sharp basal contact		
C2	ER-3-04-1	52.73-54	Fine grained medium grey limestone flecked with mm-size pyrobitumen and 1-3 mm white sparry calcite. Weak bedding and oolitic segregations throughout; Some layers more flecky than others		
C2	ER-3-04-2	54-55.5	Fine grained medium grey limestone flecked with mm-size pyrobitumen and 1-3 mm white sparry calcite. Weak bedding and oolitic segregations throughout; Some layers more flecky than others		
C2	ER-3-04-3	55.5-57	Fine grained medium grey limestone flecked with mm-size pyrobitumen and 1-3 mm white sparry calcite. Weak bedding and oolitic segregations throughout; Some layers more flecky than others		
C2	ER-3-04-4	57-58.66	As above; white calcite flecks less noticeable; distinct oolitic intervals		
(c)	ER-3-04-5	58.66-58.85	Siliceous, calcareous dolomite oolitic interval		
(c)	ER-3-04-6	58.85-59.8	Light grey siliceous calcareous dolomite flecked with patchy brown network (runic) of iron oxides; pyrobitumen rich zone from 59.54-59.65		
(c)	ER-3-04-7	59.8-60	Oolitic dolomite similar to that in ER-3-04-5		
(c)	ER-3-04-8	60-61.5	Calcareous dolomite, medium-dark grey and tan-grey oolitic and pisolithic.		
(c)	ER-3-04-9	61.5-62	Dolomitic limestone with pyrobitumen rich interval near base		
(c)	ER-3-04-10	62-62.4	Siliceous calcareous dolomite with "runic" texture. Internal structure pseudo-oolitic		
(c)	ER-3-04-11	62.4-63.4	Pale tan-grey dolomitic limestone with very fine grained pyrobitumen flecks		
C1	ER-3-04-12	63.4-65	Fine grained medium grey dolomitic limestone. Fine pyrobitumen flecks throughout		
C1	ER-3-04-13	65-66.5	Typical Unit C limestone; white calcite flecks in dark grey matrix; scattered oolitic intervals		
C1	ER-3-04-14	66.5-67.5	Oolitic and pisolithic dolomitic limestone		
C1	ER-3-04-15	67.5-67.58	Thin calcareous dolomite interval with brown oolites in white calcitic matrix		
C1	ER-3-04-16	67.58-68.46	Dark grey, very fine grained dolomitic limestone with white calcite flecks and 2-20 cm oolitic layers		
(b)	ER-3-04-17	68.46-70	Fine grained tan-grey calcareous dolomite		
(b)	ER-3-04-18	70-71	Fine grained tan-grey siliceous calcareous dolomite with rare calcite clots to 1.5 cm and chert lenses/pods		
(b)	ER-3-04-19	71-72	Pale tan-grey fine grained dolomitic mudstone		
(b)	ER-3-04-20	72-72.75	Bioclastic tan calcareous dolomite		
(b)	ER-3-04-21	72.75-72.85	White ball of crystalline dolomite		
(b)	ER-3-04-22	72.85-72.95	Silty, earthy calcareous dolomite; goethite?		

DRILL CORE DESCRIPTION LOG

DRILL CORE DESCRIPTION LOG

DRILL CORE DESCRIPTION LOG

Project: CLEARWATER		Property: CLEARWATER		Hole: ER-4A	Drilled By: FRONTIER	EOH: 108.81			
UTME: 618694		UTMN: 5759230		Elevn.: 1413 M	Core Type: NQ	Az/Dip: 240/-60			
Acid test: -60		Start Date: 29/8/2004		End Date: 30/8/2004	Logged By: W. D. MCRITCHIE				
Formation/ Member	Sample #	From - To (m)	Summary Lithology (Col/homog/grnsize/grndistr/struct/fabric/fossils/comp)						
		0-9.14	NW core in alternating high and low calcareous argillites						
Shunda		9.14-42.6	Interlayered low and non-calcareous dolomitic siltstone and mudstone and carbonate-rich intraclastic, intraformational solution breccias. Wide range of fragment size, shape and composition (mono and polymictic) with populations consistent in individual layers. Layers from 5-1.5 m thick with bedding alternations/boundaries common at 1-10 cm scale. Matrix of solution breccias highly calcic. Burrow mottling in several layers						
C2	ER-4A-04-1	42.6-43	Microflecked siliceous intraclastic dolomitic limestone, medium-dark grey with lighter flecks; High Sr						
C2	ER-4A-04-2	43-43.5	Fine-medium grained light grey-taupe limestone with 5 cm thick vuggy layers; vugs 2-4 mm						
C2	ER-4A-04-3	43.5-45.18	Flecked limestone with taupe layers from 10-15 cm. Slight bedding indicated by contrasting sizes of calcite flecks						
C2	ER-4A-04-4	45.18-47	Limestone with some oolitic intervals; medium-coarse grained						
C2	ER-4A-04-5	47-48.3	Fine-medium grained less flecked dark taupe dolomitic limestone						
(c)	ER-4A-04-6	48.3-49.26	Siliceous "runic" calcareous dolomite. More dolomitic in lower 34 cm						
(c)	ER-4A-04-7	49.26-51	Fine grained taupe siliceous calcareous dolomite with prominent bedding foliae at several intervals.						
(c)	ER-4A-04-8	51-51.52	Very fine grained light grey calcareous dolomite						
(c)	ER-4A-04-9	51.52-51.93	Siliceous "runic" calcareous dolomite						
C1	ER-4A-04-10	51.93-52.75	Fine grained siliceous dolomitic limestone						
C1	ER-4A-04-11	52.75-54.41	Fine-very fine grained medium grey dolomitic limestone						
C1	ER-4A-04-12	54.41-56.03	Fine-very fine grained medium grey limestone with sporadic wispy foliae						
C1	ER-4A-04-13	56.03-58	Weakly oolitic taupe-dark grey dolomitic limestone with bedding revealed by differing fleck proportions and size changes.						
C1	ER-4A-04-14	58-58.58	Fine-very fine grained medium grey dolomitic limestone with rare cm-thick dolomitic lenses						
(b)	ER-4A-04-15	58.58-59.24	Taupe very fine grained calcareous dolomite with wispy bedding foliae						
(b)	ER-4A-04-16	59.24-60	Very fine grained light grey siliceous dolomitic limestone with 1-3 cm chert intervals						
(b)	ER-4A-04-17	60-61	Pale tan-grey very fine grained siliceous calcareous dolomite with wispy bedding foliae						
(b)	ER-4A-04-18	61-62.15	Medium grey, locally tan-grey very fine grained calcareous dolomite; rare oolite relicts						
(b)	ER-4A-04-19	62.15-64	Very fine grained tan-grey calcareous dolomite with rare 1 cm white calcite clots						
(b)	ER-4A-04-20	64-65.17	Very fine grained tan-grey calcareous dolomite with white calcite clots to 4 cm						
(b)	ER-4A-04-21	65.17-66.68	Excellent soft sediment structures and calcite clots to 4 cm in very fine grained taupe dolomite. Stylolitic contacts						
(b)	ER-4A-04-22	66.68-67	Fine grained taupe calcareous dolomite						
B	ER-4A-04-23	67-67.42	Broken fragments of fine grained taupe limestone						
B	ER-4A-04-24	67.42-69	Light grey fine-medium grained homogeneous equigranular limestone						
B	ER-4A-04-25	69-70.5	Light grey fine-medium grained homogeneous equigranular limestone; bioclastic						
B	ER-4A-04-26	70.5-72	Light grey fine-medium grained homogeneous equigranular limestone; bioclastic						
B	ER-4A-04-27	72-73.5	Light grey med grained homogeneous equigranular dolomitic limestone; horn coral fragments						
B	ER-4A-04-28	73.5-75	Light grey medium grained homogeneous equigranular limestone; horn coral and colonial coral fragments						
B	ER-4A-04-29	75-76.5	Light grey medium- locally coarse grained homogeneous equigranular limestone						
B	ER-4A-04-30	76.5-78	Light grey med- locally coarse grained homogeneous equigranular limestone; horn coral fr						
B	ER-4A-04-31	78-79.38	Medium grained light grey-taupe homogeneous equigranular limestone. Core lengths >1 m						
B	ER-4A-04-32	79.38-80.85	Medium grained light grey-taupe homogeneous equigranular limestone. Core lengths >1 m; minor 0.5-1 cm dolomitic lenses						

DRILL CORE DESCRIPTION LOG

DRILL CORE DESCRIPTION LOG					
Project: CLEARWATER		Property: CLEARWATER	Hole: ER5	Drilled By: FRONTIER	EOH: 114.91 M
UTME: 618607		UTMN: 5759307	Elevn.: 1452 M	Core Type: NQ	Az/Dip: 240/-60
Acid test: -59		Start Date: 21/8/2004	End Date: 23/8/2004	Logged By: W. D. MCRITCHIE	
Formation/ Member	Sample #	From - To (m)	Summary Lithology (Col/homog/grmsize/grndistr/struct/fabric/fossils/comp)		
		0-12.2	casing		
Shunda		12.2-41.76	Alternating beds of beige and grey non-calcareous dolomitic argillite (siltstone) and breccia beds up to 2 m thick. Breccias are monomictic and polymictic with distinctive size and composition of fragments from bed to bed. Thin calcite veining throughout this interval. Some breccia beds have white calcitic matrix. Rare thin limestone intervals 10-20 cm thick. Thin potentially burrowed intervals (2-3 cm thick) occur at 36.3 and 37.7 m. "Runic" non-calc layer with brown veined network in pale grey siltstone matrix from 39.22-39.7		
C2	ER5-04-1	41.76-42.35	First significant limestone layer; microporous, light grey oolitic with cream phases		
C2	ER5-04-2	42.35-42.87	Prominently oolitic dolomitic limestone with hollowed out oolites up to 3 mm. Pervasive bedding throughout. Pale creamy beige		
C2	ER5-05-3	42.87-43.3	Blueish grey oolitic limestone		
C2	ER5-04-4	43.3-43.94	Pale creamy beige oolitic limestone		
C2	ER5-04-5	43.94-46.25	Flecked blue-grey oolitic limestone		
(c)	ER5-04-6	46.25-46.68	Pale creamy beige oolitic dolomitic limestone; disseminated pyrobitumen throughout		
(c)	ER5-04-7	46.68-47.36	White flecked blue-grey oolitic limestone		
(c)	ER5-04-8	47.36-48.26	Siliceous calcareous dolomite, pale beige to light grey, weakly layered. Pale brown bedding laminae and transgressive discordant networks. Pyrobitumen segregations near top		
(c)	ER5-04-9	48.26-50.44	Weakly bedded medium grey fine grained dolomitic limestone mudstone		
(c)	ER5-04-10	50.44-50.8	Wispy bedded micropellitized and partly oolitic calcareous dolomite		
(c)	ER5-04-11	50.8-52	Light grey medium grained dolomitic limestone		
C1	ER5-04-12	52-53.6	Light grey medium grained dolomitic limestone		
C1	ER5-04-13	53.6-55	Fine grained medium-dark grey homogeneous limestone		
C1	ER5-04-14	55-56.47	Dark grey oolitic to locally pisolithic limestone		
	ER5-04-15	56.47-56.68	Buff calcareous dolomite		
C1	ER5-04-16	56.68-57.77	Medium to dark grey fine grained locally oolitic dolomitic limestone		
(b)	ER5-04-17	57.77-58.29	Beige fine grained dolomite		
(b)	ER5-04-18	58.29-58.66	Medium to dark grey fine grained siliceous dolomitic limestone		
(b)	ER5-04-19	58.66-60	Beige-grey siliceous calcareous dolomite with white calcite clots to 5 cm; cherty lenses and thin layers; soft sediment structures		
(b)	ER5-04-20	60-61	Beige-grey bioclastic calcareous dolomite mudstone		
(b)	ER5-04-21	61-62	Beige-grey bioclastic calcareous dolomite mudstone with Syringopora-type colonial coral from 61.63-61.9		
(b)	ER5-04-22	62-64	Medium beige-grey fine-very fine grained calcareous dolomite mudstone with sparse bioclastic fragments and soft sediment structures		
(b)	ER5-04-23	64-65.31	Dull beige calcareous dolomite mudstone with disseminated white mm calcite flecks and sporadic calcite clots to 1.5 cm		
B	ER5-04-24	65.31-67	Fine-medium grained blue-grey homogeneous equigranular limestone		
B	ER5-04-25	67-68.17	Medium-coarse grained homogeneous equigranular blue-grey crinoidal limestone		
B	ER5-04-26	68.17-69.53	Interlayered fine grained and medium grained blue grey limestone		
B	ER5-04-27	69.53-70.5	Medium grained medium grey homogeneous equigranular limestone		
B	ER5-04-28	70.5-71.54	Medium grained medium grey homogeneous equigranular limestone		
	ER5-04-29	71.54-72.66	Tan and tan-grey dolomitic mudstone with soft sediment structures and open vugs lined with latticework calcite to 5 cm. Styolitic basal contact		
B	ER5-04-30	72.66-74.17	Medium grained medium grey homogeneous equigranular limestone		
B	ER5-04-31	74.17-74.5	Fine grained dolomitic limestone		

DRILL CORE DESCRIPTION LOG

4) CHEMICAL ANALYSES

WHOLE ROCK ICP ANALYSIS

889966 Alberta Ltd. PROJECT CLEARWATER File # A404796 Page 1

421 - 7th Ave S.W., Suite, Calgary AB T2P 4K9

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	TOT/C	TOT/S	Sample	SUM	
	%	%	%	%	%	%	%	%	%	%	%	ppm	%	%	%	%	kg	%						
ER1-04-1	1.46	.14	.14	16.08	34.66	.06	.07	<.01	.03	.01	.003	47	22	236	<10	<10	<10	<1	47.2	14.39	.12	.52	99.90	
ER1-04-2	1.00	.13	.21	16.51	35.37	.01	.06	<.01	.03	.01	<.001	84	<20	243	<10	<10	<10	<1	46.6	13.50	.04	.40	99.98	
ER1-04-3	1.11	.12	.18	14.09	37.82	.02	.06	<.01	.03	.01	.005	9	<20	321	<10	<10	17	<1	46.5	15.27	.29	.74	100.00	
ER1-04-4	1.07	.14	.14	18.93	32.44	<.01	.08	<.01	.04	.01	.003	7	<20	209	<10	<10	16	<1	47.0	14.09	.08	.51	99.89	
ER1-04-5	5.92	1.22	.39	16.23	31.52	.04	.57	.05	.05	.01	.003	43	<20	471	24	<10	35	1	43.9	12.13	.06	.56	99.97	
ER1-04-6	13.31	2.61	.80	15.85	26.76	.04	1.28	.13	.06	.01	.004	47	<20	207	14	<10	11	2	39.2	10.96	.48	1.18	100.09	
ER1-04-7	2.37	.44	.24	15.87	35.50	.04	.21	.02	.04	.01	<.001	271	<20	824	<10	<10	11	<1	45.1	13.01	.15	1.99	99.98	
ER1-04-8	18.46	2.22	.82	14.66	25.93	.05	1.56	.14	.10	.01	.002	121	<20	173	56	<10	19	2	36.1	10.37	.27	2.58	100.11	
ER1-04-9	6.03	.86	.46	16.22	32.56	.04	.64	.06	.06	.01	.003	21	<20	221	<10	<10	<10	<1	43.3	12.43	.19	.81	100.27	
ER1-04-10	8.70	1.19	.59	17.12	30.22	.02	.82	.07	.05	.01	.002	26	<20	177	31	<10	23	1	41.2	11.64	.25	.51	100.03	
ER1-04-11	7.22	1.07	1.07	6.48	42.35	.01	.77	.06	.04	.01	<.001	68	<20	433	22	<10	<10	1	41.0	12.82	.94	.34	100.15	
ER1-04-12	1.19	.15	.19	13.73	38.65	.05	.07	<.01	.03	.01	.002	13	<20	166	<10	<10	<10	<1	45.6	13.11	.07	1.84	99.70	
ER1-04-13	.37	<.03	.09	6.07	48.62	.03	.03	<.01	.02	<.01	<.001	5	<20	209	<10	<10	16	<1	44.6	12.72	.04	2.07	99.87	
ER1-04-14	1.10	.14	.11	5.06	49.16	<.01	.09	<.01	.02	<.01	<.001	10	<20	205	<10	<10	<10	<1	44.1	12.82	.05	3.08	99.82	
ER1-04-15	15.72	1.12	.37	14.04	28.93	.06	.39	.08	.08	.01	<.001	78	<20	156	69	<10	<10	1	39.2	10.27	.02	.56	100.04	
ER1-04-16	1.97	.24	.15	15.14	36.64	.04	.08	.02	.04	.01	<.001	41	<20	136	12	<10	14	1	45.6	12.33	.04	2.25	99.95	
ER1-04-17	1.68	.21	.13	13.86	38.59	.02	.06	.01	.03	<.01	<.001	17	<20	169	<10	<10	<10	<1	45.4	12.72	.03	2.47	100.02	
ER1-04-18	6.96	1.28	.37	17.05	30.20	.08	.93	.08	.05	.01	<.001	29	<20	165	27	<10	28	1	43.3	11.35	.04	.99	100.35	
RE ER1-04-18	6.93	1.28	.38	16.93	29.90	.07	.93	.08	.06	.01	.002	29	22	164	21	<10	22	1	43.8	11.84	.04	-	100.40	
RRE ER1-04-18	6.75	1.25	.37	16.87	29.97	.04	.94	.08	.05	.01	.003	28	<20	164	26	<10	24	1	43.8	11.94	.06	-	100.17	
ER1-04-19	.54	.07	.07	10.06	44.34	.01	.06	<.01	.02	<.01	.001	8	<20	150	<10	<10	<10	<1	44.8	12.62	.02	3.10	99.99	
ER1-04-20	.27	<.03	.05	6.42	49.09	.01	.03	<.01	.02	<.01	<.001	<5	<20	178	<10	<10	10	<1	44.0	12.62	.02	3.60	99.94	
ER1-04-21	.27	<.03	.07	4.21	51.23	.04	.03	<.01	.02	<.01	<.001	5	<20	201	<10	<10	<10	<1	44.0	12.62	.03	1.91	99.90	
ER1-04-22	.61	.05	.05	5.03	49.98	.04	.06	<.01	.03	<.01	<.001	9	<20	236	<10	<10	<10	<1	44.1	12.43	.05	2.48	99.98	
ER1-04-23	.91	.14	.12	13.42	39.99	.03	.12	<.01	.04	<.01	.002	9	<20	171	<10	<10	<10	<1	45.2	12.82	.07	.97	100.00	
ER1-04-24	.76	.15	.15	6.54	47.54	.06	.14	<.01	.04	<.01	.004	14	<20	217	<10	<10	12	<1	44.5	12.82	.13	.25	99.93	
ER1-04-25	.50	.05	.07	12.84	41.17	.01	.05	<.01	.04	<.01	.001	10	<20	179	<10	<10	<10	<1	45.3	12.52	.04	1.82	100.06	
ER1-04-26	3.21	.18	.11	12.15	40.01	.02	.15	.01	.07	<.01	.004	21	<20	173	<10	<10	<10	<1	44.1	12.43	.04	2.64	100.05	
ER1-04-27	15.88	.11	.10	16.80	28.24	.02	.07	<.01	.07	<.01	<.001	27	<20	116	<10	<10	<10	<1	38.6	10.56	.04	.46	99.92	
ER1-04-28	7.65	.06	.07	14.52	35.23	.04	.05	<.01	.07	<.01	.002	24	<20	185	<10	<10	<10	<1	42.3	11.94	.05	1.34	100.02	
ER1-04-29	4.02	.09	.09	15.16	36.27	.01	.08	<.01	.04	<.01	.003	10	<20	160	<10	<10	<10	<1	44.2	12.13	.02	3.95	99.99	
ER1-04-30	3.37	.45	.15	16.82	33.70	.07	.33	.03	.05	<.01	.003	13	22	198	20	<10	29	1	45.0	12.13	.06	2.60	100.01	
STANDARD SO-17/CSB	61.10	14.06	5.90	2.38	4.77	4.23	1.42	.61	.98	.51	.443	404	36	305	350	26	35	24	3.4	2.30	5.34	-	99.95	

GROUP 4A - 0.200 GM SAMPLE BY LIBO2 FUSION, ANALYSIS BY ICP-ES. LOI BY LOSS ON IGNITION.

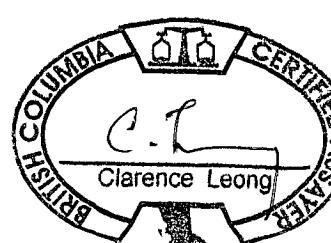
TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)

- SAMPLE TYPE: CORE R150 60C

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept 17/04



Chemical Analyses ddh ER-1, Acme Analytical Laboratories Ltd.

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.



889966 Alberta Ltd. PROJECT CLEARWATER FILE # A404796

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ACME ANALYTICAL

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	TOT/C	TOT/S	Sample	SUM	
	%	%	%	%	%	%	%	%	%	%	%	ppm	%	%	%	%	kg	%						
ER1-04-31	4.00	.46	.26	18.75	30.67	.06	.20	.03	.04	.01	.005	25	<20	108	<10	<10	<10	1	45.5	13.08	.02	3.22	100.00	
ER1-04-32	2.47	.24	.12	20.21	30.85	.04	.11	.01	.04	<.01	.001	12	<20	99	<10	<10	<10	<1	45.7	13.37	.06	.83	99.82	
ER1-04-33	1.89	.24	.17	17.56	33.80	.02	.10	.02	.05	<.01	.002	10	<20	129	12	<10	18	<1	46.2	13.27	.08	.79	100.08	
ER1-04-34	.64	<.03	.05	.62	54.73	.02	.03	<.01	.01	<.01	<.001	6	<20	293	<10	<10	<10	<1	43.6	12.30	.03	2.32	99.75	
ER1-04-35	.33	<.03	<.04	.65	55.01	<.01	.02	<.01	<.01	<.01	<.001	<5	<20	293	<10	<10	<10	<1	43.7	12.49	.04	3.11	99.77	
ER1-04-36	.87	<.03	<.04	.60	54.11	.08	<.02	<.01	<.01	<.01	<.001	8	<20	284	<10	<10	<10	<1	43.8	12.49	.03	2.46	99.55	
ER1-04-37	1.20	<.03	.05	.62	54.43	.07	<.02	<.01	<.01	<.01	.001	<5	<20	268	<10	<10	<10	<1	43.5	10.55	.03	1.19	99.95	
ER1-04-38	2.17	.09	.06	8.60	44.70	.11	.05	<.01	.03	<.01	.001	11	<20	179	<10	<10	11	<1	44.1	12.78	.02	.41	99.94	
ER1-04-39	1.84	.18	.10	18.62	33.08	.09	.09	.01	.08	<.01	<.001	17	<20	98	<10	<10	18	<1	45.8	12.88	.01	2.26	99.91	
ER1-04-40	1.31	.21	.13	15.74	36.39	.03	.11	.01	.08	<.01	.002	10	<20	118	<10	<10	<10	<1	45.9	12.88	.01	2.52	99.93	
ER1-04-41	1.62	<.03	.08	.79	53.81	.04	.04	<.01	.01	<.01	<.001	<5	<20	247	<10	<10	<10	<1	43.4	12.20	.06	.68	99.84	
ER1-04-42	1.10	.15	.14	12.74	39.76	.04	.09	.02	.03	<.01	.004	6	<20	130	<10	<10	<10	<1	45.8	12.30	.01	.99	99.89	
ER1-04-43	1.07	.12	.08	10.28	43.13	.05	.07	<.01	.03	<.01	.003	13	<20	148	<10	<10	<10	<1	45.0	12.40	.01	2.97	99.86	
ER1-04-44	.66	.03	.06	2.00	53.34	.03	.04	<.01	.01	<.01	<.001	10	<20	229	<10	<10	<10	<1	43.8	12.20	.02	2.23	100.01	
RE ER1-04-44	.72	.05	.10	1.99	53.07	.01	.03	.01	<.01	<.01	<.001	10	<20	231	<10	<10	21	1	43.7	12.40	.01	-	99.72	
RRE ER1-04-44	.60	.03	.09	2.53	52.16	.05	.03	.01	.01	<.01	<.001	9	<20	222	<10	<10	<10	<1	44.2	12.49	.03	-	99.74	
ER1-04-45	1.07	.17	.26	17.16	34.48	.04	.06	.07	.02	.01	.003	29	<20	84	<10	<10	24	1	46.6	12.69	<.01	2.93	99.97	
ER1-04-46	.89	.10	.10	8.99	44.40	.04	.09	<.01	.03	<.01	<.001	9	<20	123	10	<10	<10	<1	45.2	12.20	<.01	3.30	99.87	
ER1-04-47	.65	.07	.07	11.47	41.41	.01	.06	<.01	.03	<.01	<.001	10	<20	109	<10	<10	18	<1	46.0	12.88	<.01	2.57	99.79	
ER1-04-48	1.20	.30	.17	15.52	37.21	.02	.15	.02	.05	<.01	<.001	70	<20	138	<10	<10	<10	<1	45.3	12.59	<.01	1.08	99.97	
ER1-04-49	.94	.23	.11	19.09	32.76	<.01	.12	.01	.03	<.01	<.001	20	<20	87	<10	<10	<10	<1	46.6	13.08	<.01	1.09	99.91	
ER1-04-50	.71	.09	.11	7.75	46.29	<.01	.05	<.01	<.01	<.01	.003	19	<20	128	<10	<10	<10	<1	44.9	12.20	<.01	2.94	99.94	
ER1-04-51	.49	.08	.08	13.29	39.89	.02	.03	<.01	.03	<.01	.003	23	<20	98	<10	<10	<10	<1	46.0	12.78	.01	1.22	99.94	
ER1-04-52	.69	.10	.08	10.76	42.75	.03	.05	.01	.02	<.01	<.001	13	<20	94	<10	<10	<10	<1	45.4	12.49	<.01	.89	99.91	
ER1-04-53	.83	.20	.12	16.98	35.24	.02	.12	.01	.03	<.01	<.001	44	<20	100	<10	<10	21	<1	46.3	12.30	.01	3.76	99.88	
ER1-04-54	.45	.05	.06	5.32	49.55	.04	.04	<.01	.01	<.01	<.001	15	<20	168	<10	<10	10	<1	44.3	12.49	.02	3.36	99.85	
ER1-04-55	.50	.06	.05	1.11	53.68	.02	.02	<.01	<.01	<.01	<.001	13	<20	197	<10	<10	17	1	44.2	12.59	.02	2.85	99.68	
ER1-04-56	.21	<.03	<.04	.49	54.92	.04	.02	<.01	<.01	<.01	.001	9	<20	208	<10	10	<10	<1	44.1	12.20	.02	2.54	99.85	
ER1-04-57	.21	<.03	.04	.40	55.50	.01	.02	<.01	<.01	<.01	<.001	12	<20	219	<10	12	<10	<1	43.5	12.30	.02	3.67	99.72	
ER1-04-58	.21	<.03	.05	.40	55.72	<.01	.02	<.01	<.01	<.01	.002	11	<20	223	<10	11	<10	<1	43.5	12.40	.02	3.31	99.96	
ER1-04-59	.09	<.03	<.04	.43	55.26	<.01	.02	<.01	<.01	<.01	<.001	9	<20	246	<10	10	13	<1	44.0	12.40	.03	2.83	99.87	
ER1-04-60	.07	<.03	.05	.43	55.25	.02	.04	<.01	<.01	<.01	<.001	18	<20	289	<10	<10	<10	<1	44.0	12.30	.03	2.60	99.91	
STANDARD SO-17/CSB	61.67	13.66	5.79	2.32	4.78	4.18	1.41	.59	.98	.53	.436	399	32	313	341	25	28	23	3.4	2.34	5.33	-	99.89	

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Chemical Analyses ddh ER-1, Acme Analytical Laboratories Ltd. (continued)



889966 Alberta Ltd. PROJECT CLEARWATER FILE # A404796

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SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	TOT/C	TOT/S	Sample	SUM
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	kg	%
ER1-04-61	.37	.03	<.04	.37	55.19	.02	.03	<.01	<.01	<.01	<.001	26	<20	242	<10	<10	<10	<1	44.0	11.81	.02	3.14	100.06
ER1-04-62	.07	<.03	<.04	.35	55.71	.04	.03	<.01	<.01	<.01	<.001	15	<20	214	<10	<10	<10	<1	43.8	12.30	.03	2.66	100.05
ER1-04-63	.08	<.03	<.04	.35	55.57	.02	<.02	<.01	.03	<.01	<.001	15	<20	194	<10	<10	<10	<1	43.9	12.11	.02	3.11	99.99
ER1-04-64	.21	.13	<.04	.38	55.14	.01	.02	<.01	<.01	<.01	.010	14	<20	209	<10	<10	<10	<1	44.1	12.20	.01	2.68	100.05
ER1-04-65	.18	<.03	.07	.36	55.53	<.01	.03	<.01	.01	<.01	<.001	18	<20	188	10	<10	<10	<1	43.8	12.11	.04	2.94	100.03
ER1-04-66	9.20	2.08	.67	1.03	47.74	.03	.99	.11	<.01	.01	.002	69	<20	331	22	<10	10	1	38.3	10.36	.28	2.08	100.22
STANDARD SO-17/CSB	61.16	14.02	5.93	2.33	4.76	4.21	1.42	.61	.98	.54	.444	403	34	309	345	26	35	23	3.4	2.34	5.33	-	99.95

Sample type: CORE R150 60C.

Chemical Analyses ddh ER-1, Acme Analytical Laboratories Ltd. (continued)

WHOLE ROCK ICP ANALYSIS

889966 Alberta Ltd. PROJECT CLEARWATER File # A404797 Page 1
421 - 7th Ave S.W., Suite, Calgary AB T2P 4K9

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	TOT/C	TOT/S	Sample	SUM	
	%	%	%	%	%	%	%	%	%	%	%	ppm	%	%	%	%	kg	%						
ER2-04-1	4.27	.27	.28	11.94	40.07	.14	.11	.02	.04	.01	.005	38	<20	517	<10	<10	19	1	42.6	12.82	.02	.37	99.82	
ER2-04-2	2.13	.28	.14	13.74	39.66	.05	.14	.02	.03	<.01	.003	6	<20	166	<10	<10	10	<1	43.7	12.92	.02	1.53	99.92	
ER2-04-3	2.95	.27	.11	10.38	43.08	.03	.14	.02	.04	<.01	.003	10	<20	191	<10	<10	16	<1	43.0	12.82	.02	.07	100.05	
ER2-04-4	3.18	.37	.23	6.76	46.70	.02	.15	.02	.02	<.01	.004	8	<20	181	<10	<10	<10	<1	42.3	12.62	.03	.10	99.78	
ER2-04-5	2.91	.35	.14	11.88	39.88	.02	.19	.03	.04	<.01	.002	13	<20	167	14	<10	12	<1	44.3	12.62	.02	.82	99.76	
ER2-04-6	7.86	1.30	.45	16.48	31.36	.04	.68	.08	.05	.01	.005	25	<20	173	20	<10	30	1	41.6	13.21	.06	.59	99.95	
ER2-04-7	7.69	1.26	.48	17.67	29.52	.07	.50	.08	.05	.01	.005	30	23	179	<10	<10	<10	1	42.7	12.23	.09	.42	100.06	
ER2-04-8	1.62	.28	.16	8.87	44.70	.04	.10	.02	.03	<.01	.004	9	<20	173	<10	<10	27	1	43.9	12.82	.04	.72	99.75	
ER2-04-9	.84	.13	.07	14.30	39.39	<.01	.05	<.01	.03	<.01	.004	<5	<20	143	<10	<10	15	<1	44.8	13.01	.01	1.47	99.65	
ER2-04-10	1.55	.11	.07	5.81	48.84	.01	.06	<.01	.01	<.01	.004	<5	<20	199	<10	<10	<10	<1	43.3	12.52	.03	.48	99.80	
ER2-04-11	.39	.06	.05	6.75	48.75	<.01	.03	<.01	.02	<.01	.001	5	<20	200	<10	<10	<10	<1	43.7	12.72	.02	3.36	99.78	
ER2-04-12	.21	.05	.05	1.61	53.91	<.01	.02	<.01	<.01	<.001	<.001	11	<20	232	<10	<10	<10	<1	43.8	12.62	.04	2.58	99.69	
ER2-04-13	.71	.12	.05	5.22	49.39	<.01	.05	<.01	<.01	<.01	.004	5	<20	206	<10	<10	<10	<1	44.2	12.52	.04	1.36	99.78	
ER2-04-14	.74	.11	.06	10.52	44.10	.04	.05	<.01	.03	<.01	.002	7	<20	204	<10	<10	10	<1	44.2	13.41	.02	2.43	99.89	
ER2-04-15	.48	.06	.07	6.26	49.16	<.01	.03	<.01	.03	<.01	.004	<5	<20	234	<10	<10	<10	<1	43.8	13.01	.03	1.88	99.93	
ER2-04-16	.37	.06	.04	19.54	33.51	.05	.07	<.01	.05	<.01	.002	<5	<20	137	<10	<10	<10	<1	46.2	13.11	.01	.68	99.92	
ER2-04-17	1.27	.25	.10	19.92	32.30	.04	.13	.02	.08	<.01	.002	6	<20	136	<10	<10	30	1	45.6	13.01	.01	.84	99.74	
ER2-04-18	3.12	.20	.06	12.39	39.83	.01	.13	.01	.09	<.01	.005	8	<20	191	<10	<10	<10	<1	44.0	12.33	.03	2.50	99.87	
ER2-04-19	8.86	.12	.08	17.29	30.96	.01	.08	<.01	.09	<.01	.002	6	<20	160	<10	<10	12	<1	42.2	11.94	.01	1.95	99.73	
RE ER2-04-19	8.93	.12	.09	17.46	31.08	.01	.07	<.01	.07	<.01	.003	6	<20	160	<10	<10	<10	<1	42.0	12.03	.02	-	99.86	
RRE ER2-04-19	9.86	.14	.09	17.18	30.56	.01	.08	<.01	.10	<.01	.003	<5	<20	158	<10	<10	<10	<1	41.7	11.84	.01	-	99.75	
ER2-04-20	1.03	.07	.06	9.07	44.49	<.01	.05	<.01	.04	<.01	.001	11	<20	202	<10	<10	<10	<1	44.8	12.62	.04	1.22	99.64	
ER2-04-21	.78	.09	.16	15.93	37.08	.02	.06	<.01	.05	<.01	<.001	5	<20	182	<10	<10	22	<1	45.7	13.11	.02	1.95	99.91	
ER2-04-22	5.68	.23	.17	19.06	30.86	.04	.12	.01	.06	<.01	<.001	23	<20	172	<10	<10	<10	<1	43.8	12.33	.01	2.48	100.06	
ER2-04-23	4.44	.39	.20	18.25	31.90	.03	.20	.03	.06	<.01	.003	10	<20	183	<10	<10	<10	<1	44.3	12.13	.01	3.17	99.83	
ER2-04-24	3.17	.42	.16	19.56	31.04	.01	.21	.03	.08	<.01	.002	9	<20	128	<10	<10	14	<1	45.1	12.52	.01	3.43	99.80	
ER2-04-25	.57	.03	.04	1.75	52.98	<.01	.02	<.01	.02	<.01	<.001	6	<20	310	<10	<10	<10	<1	43.9	12.13	.04	2.15	99.35	
ER2-04-26	2.08	.38	.14	12.11	39.58	.03	.12	.02	.08	.01	<.001	15	<20	194	<10	<10	<10	<1	45.2	12.33	.02	.22	99.77	
ER2-04-27	.48	.04	.05	1.17	53.75	.01	.02	<.01	.02	<.01	.002	7	<20	305	<10	<10	<10	<1	43.9	12.33	.04	2.08	99.49	
ER2-04-28	.59	.05	.04	2.13	52.70	.01	.02	<.01	.03	<.01	.003	11	<20	292	<10	<10	12	<1	44.0	12.33	.03	4.07	99.62	
ER2-04-29	.57	.04	<.04	1.14	54.18	<.01	.02	<.01	.02	<.01	<.001	75	<20	274	<10	<10	<10	<1	43.7	12.13	.03	3.97	99.74	
ER2-04-30	.43	.06	.04	1.97	53.22	<.01	.02	<.01	.08	<.01	<.001	6	<20	265	<10	<10	<10	<1	44.0	12.43	.02	3.83	99.86	
STANDARD SO-17/CSB	61.40	13.77	5.82	2.34	4.84	4.11	1.40	.59	.98	.53	.434	394	37	309	345	26	26	23	3.4	2.29	5.34	-	99.76	

GROUP 4A - 0.200 GM SAMPLE BY LIBO2 FUSION, ANALYSIS BY ICP-ES. LOI BY LOSS ON IGNITION.

TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)

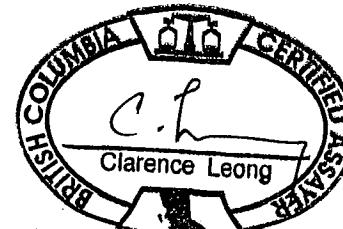
- SAMPLE TYPE: CORE R150 60C

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

DATE RECEIVED: AUG 23 2004 DATE REPORT MAILED: Sept 14/04

Chemical Analyses ddh ER-2, Acme Analytical Laboratories Ltd.



All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.



889966 Alberta Ltd. PROJECT CLEARWATER FILE # A404797

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SAMPLE#	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	Cr ₂ O ₃	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	TOT/C	TOT/S	Sample	SUM	
	%	%	%	%	%	%	%	%	%	%	%	ppm	%	%	%	%	kg	%						
ER2-04-31	2.95	.14	.07	1.02	52.73	.06	.03	<.01	.01	<.01	<.001	9	21	247	<10	<10	<10	<1	42.8	12.54	.03	4.20	99.85	
ER2-04-32	.39	<.03	.04	.96	54.94	.03	.04	<.01	<.01	<.01	<.001	5	<20	232	<10	<10	<10	<1	43.5	13.05	.02	2.69	99.95	
ER2-04-33	.40	.03	.04	1.52	54.19	.02	.02	<.01	<.01	<.01	<.001	7	<20	216	<10	<10	<10	<1	43.6	12.94	.02	3.02	99.85	
ER2-04-34	.58	.05	.04	2.45	52.95	.05	.02	<.01	.01	<.01	<.001	<5	<20	215	<10	<10	<10	<1	43.8	12.74	.03	1.33	99.98	
ER2-04-35	.82	.11	.08	11.62	42.44	.05	.04	<.01	.03	<.01	<.001	7	<20	126	<10	<10	<10	<1	44.8	12.94	.02	2.38	100.02	
ER2-04-36	.60	.09	.08	4.53	50.24	.04	.03	<.01	.05	<.01	<.001	<5	<20	205	<10	<10	<10	<1	44.2	13.15	.02	.96	99.90	
ER2-04-37	.45	.04	.04	1.93	53.55	.05	.02	<.01	.02	<.01	.002	5	<20	220	<10	<10	<10	<1	43.8	12.84	.02	1.17	99.93	
ER2-04-38	.65	.08	.07	9.97	44.08	.05	.04	<.01	.02	<.01	.002	6	22	138	<10	<10	<10	<1	44.9	12.94	.02	2.22	99.89	
ER2-04-39	1.13	.17	.09	1.90	52.48	.07	.06	<.01	.02	<.01	.005	9	<20	237	<10	<10	<10	<1	43.9	12.84	.02	3.14	99.86	
ER2-04-40	1.10	.27	.14	13.60	39.35	.05	.14	.01	.04	<.01	.002	7	<20	130	<10	<10	<10	<1	45.2	13.05	.02	1.77	99.92	
ER2-04-41	.92	.21	.15	18.46	34.29	.06	.10	.01	.04	<.01	<.001	<5	<20	113	<10	<10	<10	<1	45.8	13.15	.01	2.76	100.06	
ER2-04-42	1.30	.10	.10	6.00	47.86	<.01	.06	<.01	.02	<.01	.001	6	21	318	<10	<10	<10	<1	44.4	12.74	.06	.60	99.89	
ER2-04-43	.98	.15	.08	14.56	38.45	.03	.07	<.01	.03	<.01	<.001	6	24	175	<10	<10	12	<1	45.6	13.15	.03	1.74	99.99	
ER2-04-44	.89	.22	.13	17.73	35.06	.05	.12	.01	.05	<.01	.002	6	24	116	<10	<10	17	<1	45.5	13.25	.01	2.32	99.79	
ER2-04-45	.90	.06	.05	2.99	51.87	.11	.04	<.01	.01	<.01	<.001	<5	<20	178	<10	<10	<10	<1	44.0	13.05	.02	3.21	100.06	
RE ER2-04-45	.87	.04	<.04	2.94	52.10	.12	.02	<.01	<.01	<.01	<.001	<5	<20	180	<10	<10	<10	<1	43.9	12.54	.01	-	100.05	
RRE ER2-04-45	.36	.03	.05	2.83	52.67	.01	.02	<.01	<.01	<.01	<.001	<5	22	181	<10	<10	13	<1	43.9	12.84	.02	-	99.91	
ER2-04-46	.24	.03	<.04	.96	54.90	.03	<.02	<.01	<.01	<.01	.001	5	<20	187	<10	<10	<10	<1	43.8	12.64	.01	2.95	100.03	
ER2-04-47	.19	<.03	.04	.42	55.42	.01	<.02	<.01	<.01	<.01	.002	<5	22	194	<10	<10	<10	<1	43.8	12.94	.02	2.85	99.93	
ER2-04-48	.18	<.03	<.04	.45	55.75	.04	<.02	<.01	.01	<.01	<.001	<5	<20	203	<10	<10	<10	<1	43.5	12.54	.02	3.53	100.02	
ER2-04-49	.11	<.03	.04	.39	55.36	<.01	<.02	<.01	.01	<.01	<.001	6	<20	205	<10	<10	<10	<1	44.0	12.64	.02	2.55	99.97	
ER2-04-50	.07	<.03	<.04	.33	55.57	<.01	<.02	<.01	.01	<.01	<.001	<5	<20	206	<10	<10	<10	<1	44.0	12.84	.02	2.63	100.04	
ER2-04-51	.06	<.03	<.04	.41	55.56	<.01	<.02	<.01	.01	<.01	<.001	5	<20	271	<10	<10	<10	<1	43.8	13.05	.03	3.14	99.91	
ER2-04-52	.03	<.03	<.04	.42	55.64	<.01	<.02	<.01	.01	<.01	<.001	<5	<20	277	<10	<10	11	<1	43.7	12.94	.03	3.56	99.87	
ER2-04-53	.07	<.03	.04	.40	55.38	.04	<.02	<.01	.03	<.01	.005	5	27	243	<10	<10	<10	<1	43.9	12.74	.02	3.38	99.91	
ER2-04-54	.06	<.03	<.04	.40	55.67	<.01	<.02	<.01	.01	<.01	<.001	<5	<20	248	<10	<10	<10	<1	43.8	12.84	.03	1.78	99.99	
ER2-04-55	1.03	.28	.12	.46	54.41	.01	.09	.01	.01	<.01	.004	15	<20	211	<10	<10	<10	<1	43.6	12.33	.01	1.12	100.06	
ER2-04-56	.17	<.03	<.04	.38	55.10	.02	.02	<.01	.03	<.01	<.001	<5	<20	212	<10	<10	<10	<1	44.1	12.74	.02	2.54	99.89	
ER2-04-57	.35	.06	.05	.42	54.92	.02	.03	<.01	.02	<.01	.001	7	<20	223	<10	<10	<10	<1	44.1	12.64	.02	2.84	100.00	
ER2-04-58	5.68	1.46	.65	10.23	37.96	.03	.71	.07	.03	.01	.001	64	<20	191	17	<10	12	2	42.7	11.92	.05	1.36	99.57	
STANDARD SO-17/CSB	61.56	13.81	5.83	2.34	4.85	4.11	1.40	.59	.99	.53	.437	392	36	310	343	26	22	23	3.4	2.36	5.33	-	99.99	

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Chemical Analyses ddh ER-2, Acme Analytical Laboratories Ltd. (continued)

WHOLE ROCK ICP ANALYSIS

889966 Alberta Ltd. PROJECT CLEARWATER File # A404981 Page 1
421 - 7th Ave S.W., Suite, Calgary AB T2P 4K9

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	TOT/C	TOT/S	Sample	SUM	
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	kg	%
ER3-04-1	3.42	.30	.17	3.70	48.91	.08	.18	.02	<.01	<.01	<.001	198	<20	6233	<10	<10	<10	<1	42.4	12.69	.30	2.89	99.95	
ER3-04-2	.35	<.03	.04	.62	54.85	.02	.02	<.01	<.01	<.01	<.001	33	<20	539	<10	<10	<10	<1	43.6	12.99	.07	2.78	99.58	
ER3-04-3	.76	.08	.07	.62	54.90	.04	.05	<.01	<.01	<.01	<.001	19	<20	389	<10	<10	<10	<1	43.5	12.89	.07	3.37	100.08	
ER3-04-4	1.27	.12	.09	4.08	50.07	.05	.07	<.01	<.01	<.01	<.001	32	<20	359	<10	<10	<10	<1	44.0	12.89	.05	3.40	99.82	
ER3-04-5	10.74	1.50	.45	16.48	28.14	.07	.81	.09	.06	.01	.002	57	<20	210	51	<10	20	1	41.6	11.49	.06	.60	99.99	
ER3-04-6	15.15	1.33	.41	15.36	27.97	.09	.76	.08	.07	.01	.002	73	<20	221	71	<10	<10	1	38.8	10.79	.05	1.23	100.09	
ER3-04-7	.88	.12	.13	19.86	32.01	.06	.05	<.01	.03	.01	<.001	42	<20	458	<10	<10	<10	<1	46.8	13.59	.02	.54	100.02	
ER3-04-8	1.81	.22	.14	14.93	36.63	.03	.11	.01	.02	<.01	.003	25	<20	272	<10	<10	<10	<1	45.6	12.79	.02	3.17	99.55	
ER3-04-9	1.84	.23	.13	10.43	42.64	.04	.09	.02	.01	.01	.004	13	<20	202	<10	<10	<10	<1	44.6	12.79	.01	1.27	100.07	
ER3-04-10	7.04	1.34	.35	16.28	30.97	.06	.66	.08	.05	.01	.004	45	<20	207	22	<10	16	1	43.1	11.99	.03	.53	99.98	
ER3-04-11	.80	.13	.07	11.91	41.97	.05	.06	<.01	.02	<.01	<.001	15	<20	173	<10	<10	<10	<1	45.0	13.09	.01	1.95	100.04	
ER3-04-12	.23	<.03	.04	4.96	50.46	.03	<.02	<.01	<.01	<.01	<.001	10	<20	239	<10	<10	11	<1	44.3	12.79	.02	2.86	100.07	
ER3-04-13	.62	<.03	.08	3.74	51.11	.03	.02	<.01	<.01	<.01	<.001	13	<20	241	<10	<10	<10	<1	44.4	12.69	.03	3.08	100.05	
ER3-04-14	.62	.03	.05	6.35	48.37	.01	.03	<.01	.02	<.01	<.001	10	<20	241	<10	<10	<10	<1	44.5	12.69	.04	1.97	100.02	
ER3-04-15	1.53	.34	.24	17.70	33.95	.07	.18	.02	.05	.01	<.001	21	<20	179	<10	<10	<10	<1	45.9	12.69	.03	.27	100.01	
ER3-04-16	.43	.03	.05	6.23	48.61	<.01	.03	<.01	.01	<.01	<.001	8	<20	255	<10	<10	<10	<1	44.6	12.69	.04	2.14	100.03	
RE ER3-04-16	.42	.04	.06	6.15	48.56	<.01	.02	<.01	.02	<.01	<.001	10	<20	252	<10	<10	<10	<1	44.7	12.49	.04	-	100.01	
RRE ER3-04-16	.43	.05	.06	6.29	48.41	.03	<.02	<.01	.02	<.01	<.001	10	<20	251	<10	<10	<10	<1	44.7	12.69	.04	-	100.04	
ER3-04-17	3.54	.14	.10	15.79	35.80	.02	.06	<.01	.05	.01	.002	12	<20	197	<10	<10	10	<1	44.0	12.49	.02	3.37	99.54	
ER3-04-18	8.14	.11	.08	17.77	31.15	.04	.05	<.01	.07	<.01	<.001	12	<20	141	11	<10	12	<1	42.6	11.79	.02	2.16	100.04	
ER3-04-19	4.11	.06	.07	19.77	31.45	.03	.02	<.01	.06	<.01	<.001	10	<20	152	<10	<10	<10	<1	44.4	12.59	.02	1.82	100.00	
ER3-04-20	1.06	.07	.11	18.74	33.28	.02	.03	<.01	.05	<.01	<.001	11	<20	152	<10	<10	<10	<1	46.6	12.89	.03	.89	99.99	
ER3-04-21	.14	<.03	<.04	21.10	30.90	.01	<.02	<.01	.03	.01	.001	<5	<20	266	<10	<10	<10	<1	47.6	12.59	<.01	.12	99.87	
ER3-04-22	11.94	3.20	1.52	15.49	24.18	.08	1.48	.20	.16	.01	.006	255	51	1547	79	<10	10	3	41.2	12.99	.52	.08	99.70	
ER3-04-23	1.92	.17	.17	19.30	31.89	.03	.06	.01	.06	<.01	.002	16	<20	164	<10	<10	10	<1	46.2	12.59	.03	3.66	99.84	
ER3-04-24	3.49	.62	.14	18.14	31.93	.07	.27	.03	.06	.01	.002	30	<20	181	26	<10	26	1	45.2	12.29	.02	2.04	99.99	
ER3-04-25	2.71	.38	.12	17.82	32.80	.02	.18	.02	.06	<.01	<.001	12	<20	134	16	<10	10	1	45.8	12.69	.02	4.38	99.94	
ER3-04-26	.39	<.03	.04	1.00	54.66	.02	<.02	<.01	.03	<.01	<.001	7	<20	293	<10	<10	10	<1	43.8	12.19	.04	2.92	100.00	
ER3-04-27	.34	<.03	.05	.70	55.26	.01	<.02	<.01	.03	<.01	<.001	<5	<20	312	<10	<10	<10	<1	43.6	12.39	.03	3.55	100.03	
ER3-04-28	.65	<.03	<.04	1.73	53.57	.05	<.02	<.01	<.01	<.01	<.001	<5	<20	265	<10	<10	<10	<1	43.8	12.09	.03	3.48	99.88	
ER3-04-29	1.38	<.03	<.04	3.13	51.82	.07	<.02	<.01	.04	<.01	.001	<5	<20	225	<10	<10	10	<1	43.4	12.29	.03	3.17	99.93	
ER3-04-30	1.31	.24	.07	19.80	32.06	.05	.14	.01	.12	<.01	.002	10	<20	97	<10	<10	<10	<1	46.2	12.49	.02	1.79	100.02	
STANDARD SO-17/CSB	61.44	13.80	5.85	2.43	4.82	4.10	1.41	.61	.99	.53	.438	399	30	309	352	28	27	23	3.4	2.40	5.33	-	99.96	

GROUP 4A - 0.200 GM SAMPLE BY LIBO2 FUSION, ANALYSIS BY ICP-ES. LOI BY LOSS ON IGNITION.

TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)

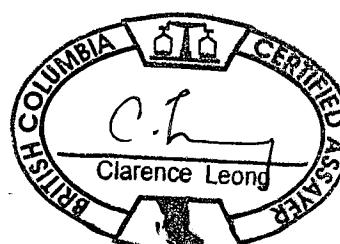
- SAMPLE TYPE: CORE R150 60C

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

DATE RECEIVED: AUG 27 2004 DATE REPORT MAILED: Sept 14/04

Chemical Analyses ddh ER-3, Acme Analytical Laboratories Ltd.





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SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	TOT/C	TOT/S	Sample	SUM	
	%	%	%	%	%	%	%	%	%	%	%	ppm	%	%	%	%	kg	%						
ER3-04-31	1.25	.21	.13	7.47	47.08	.04	.08	<.01	.07	<.01	<.001	10	<20	210	<10	<10	<1	43.2	12.69	.02	.86	99.57		
ER3-04-32	.69	.07	.06	2.60	53.72	.01	.04	<.01	.01	<.01	.003	6	<20	261	<10	<10	<1	42.1	12.69	.04	2.45	99.34		
ER3-04-33	.69	.04	.05	1.21	55.92	<.01	.03	<.01	.02	<.01	.003	7	<20	276	<10	<10	18	<1	41.8	12.79	.04	2.37	99.80	
ER3-04-34	.38	<.03	.04	.57	57.71	.04	.02	<.01	<.01	<.01	.002	9	<20	291	<10	<10	<1	41.0	12.59	.02	2.91	99.82		
ER3-04-35	.57	<.03	.04	.73	55.69	<.01	.02	<.01	.02	<.01	<.001	20	<20	253	<10	<10	<1	42.8	12.49	.03	3.40	99.92		
ER3-04-36	.39	<.03	<.04	.44	55.78	.01	.02	<.01	<.01	<.01	<.001	<5	<20	246	<10	<10	<1	43.2	12.29	.03	2.26	99.92		
ER3-04-37	.46	<.03	<.04	.51	55.52	<.01	<.02	<.01	.01	<.01	.001	6	<20	221	<10	<10	<1	43.2	12.29	.02	2.08	99.79		
ER3-04-38	.89	.09	.09	6.36	48.26	.04	.05	<.01	.04	<.01	.002	11	<20	154	<10	<10	<1	44.1	12.39	.02	1.38	99.95		
ER3-04-39	1.10	.20	.11	13.15	40.58	.01	.10	.01	.05	<.01	.003	11	<20	127	<10	<10	<1	44.6	12.99	.02	3.58	99.93		
ER3-04-40	.71	.09	.09	15.40	38.14	.03	.06	<.01	.03	<.01	.002	6	<20	92	<10	<10	<1	45.2	12.89	.02	2.17	99.78		
ER3-04-41	1.13	.09	.09	14.90	38.07	.03	.05	<.01	.04	<.01	.003	6	<20	90	<10	<10	10	<1	45.5	12.69	.01	2.85	99.92	
ER3-04-42	.81	.09	.08	7.72	46.53	.02	.05	<.01	.04	<.01	<.001	<5	<20	128	<10	<10	<1	44.6	12.69	.01	1.80	99.97		
ER3-04-43	.89	.17	.11	15.76	36.84	.02	.07	<.01	.06	<.01	.002	13	23	98	<10	<10	<1	45.8	12.39	.02	3.91	99.75		
ER3-04-44	.47	<.03	.04	3.40	51.78	.01	.04	<.01	.02	<.01	.003	<5	<20	172	<10	<10	13	<1	44.0	12.29	.02	1.14	99.81	
ER3-04-45	.52	<.03	<.04	1.79	53.82	.04	<.02	<.01	<.01	<.01	<.001	7	<20	183	<10	<10	<1	43.7	12.29	.02	3.52	99.95		
ER3-04-46	.24	<.03	.04	.44	55.21	.01	<.02	<.01	<.01	<.01	.002	6	<20	204	<10	<10	<10	<1	43.6	12.49	.03	3.31	99.59	
ER3-04-47	.19	<.03	.04	.44	55.49	.03	<.02	<.01	.01	<.01	<.001	<5	<20	220	<10	<10	<10	<1	43.6	12.19	.03	3.02	99.84	
RE ER3-04-47	.20	<.03	.09	.42	55.46	.01	<.02	<.01	<.01	<.01	.020	<5	<20	222	<10	<10	18	<1	43.5	12.39	.02	-	99.75	
RRE ER3-04-47	.26	<.03	.04	.40	55.40	.01	.02	<.01	<.01	<.01	.001	6	<20	223	<10	<10	10	<1	43.6	12.29	.03	-	99.79	
ER3-04-48	.11	<.03	.04	.40	55.60	.01	<.02	<.01	.01	<.01	<.001	<5	<20	197	<10	12	<10	<1	43.5	12.29	.03	3.19	99.71	
ER3-04-49	.13	<.03	.04	.43	55.38	.01	<.02	<.01	<.01	<.01	.001	<5	<20	262	<10	<10	14	1	43.6	12.29	.02	2.77	99.64	
ER3-04-50	.11	<.03	<.04	.39	55.60	.04	<.02	<.01	<.01	<.01	<.001	5	22	270	<10	<10	<10	<1	43.6	12.29	.03	2.95	99.80	
ER3-04-51	.15	<.03	<.04	.49	55.26	.03	<.02	<.01	<.01	<.01	<.001	7	<20	252	<10	<10	<10	<1	43.6	12.29	.02	2.83	99.58	
ER3-04-52	.10	<.03	<.04	.42	55.32	.02	<.02	<.01	.03	<.01	<.001	6	<20	257	<10	<10	<10	<1	43.6	12.19	.02	3.01	99.56	
ER3-04-53	.11	<.03	<.04	.43	54.96	.01	<.02	<.01	<.01	<.01	<.001	5	<20	262	<10	<10	18	<1	43.4	12.49	.02	2.73	98.98	
ER3-04-54	.24	.03	.14	.41	55.05	.03	<.02	<.01	<.01	<.01	.002	5	<20	255	<10	<10	<10	<1	43.6	12.29	.02	3.52	99.55	
ER3-04-55	.23	.03	.06	.41	55.47	.02	<.02	<.01	.01	<.01	<.001	6	<20	240	<10	<10	<10	<1	43.5	11.99	.02	3.48	99.78	
ER3-04-56	.23	.03	.20	.40	54.81	.02	.03	<.01	<.01	<.01	<.001	5	<20	245	<10	<10	<10	<1	43.7	12.29	.04	.65	99.45	
ER3-04-57	15.39	2.62	1.27	14.87	26.45	.08	1.08	.14	.04	.01	.005	126	30	151	48	<10	10	2	37.8	10.09	.37	1.17	99.80	
STANDARD SO-17/CSB	61.45	13.74	5.84	2.33	4.83	4.08	1.40	.59	.97	.53	.433	402	41	308	337	27	37	23	3.4	2.39	5.41	-	99.74	

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Chemical Analyses ddh ER-3, Acme Analytical Laboratories Ltd. (continued)

WHOLE ROCK ICP ANALYSIS

889966 Alberta Ltd. PROJECT CLEARWATER File # A405236 Page 1
421 - 7th Ave S.W., Suite, Calgary AB T2P 4K9

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	TOT/C	TOT/S	Sample	SUM	
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	kg	%
ER4A-04-1	10.20	1.02	.30	6.62	40.70	.03	.49	.07	.03	.01	<.001	2213	<20	8958	<10	<10	<10	<1	39.6	11.30	.26	.37	100.38	
ER4A-04-2	.89	.07	<.04	1.05	54.59	.01	.04	<.01	<.01	<.01	<.001	86	<20	583	<10	<10	<10	<1	43.2	12.60	.06	.95	99.96	
ER4A-04-3	1.50	.11	<.04	.97	54.07	<.01	.07	<.01	<.01	<.01	.001	67	<20	413	<10	<10	<10	<1	43.2	13.20	.08	3.71	100.01	
ER4A-04-4	1.08	.11	.05	.61	54.93	<.01	.06	<.01	<.01	<.01	<.001	23	<20	319	<10	<10	<10	<1	43.2	13.00	.07	3.45	100.09	
ER4A-04-5	1.29	.73	.06	5.70	47.89	<.01	.07	<.01	.02	<.01	<.001	31	<20	250	<10	<10	<10	<1	44.2	13.00	.05	2.61	100.00	
ER4A-04-6	12.78	1.22	.44	16.58	27.93	<.01	.61	.08	.04	.01	.002	51	<20	207	33	<10	38	1	40.5	11.60	.06	2.16	100.24	
ER4A-04-7	2.01	.26	.11	14.05	38.52	<.01	.11	.02	.02	.01	.002	16	<20	172	<10	<10	10	<1	45.0	12.90	.03	3.26	100.14	
ER4A-04-8	2.40	.24	.12	14.48	37.63	<.01	.11	.03	.01	<.01	.004	18	<20	187	<10	<10	<10	1	45.0	13.30	.02	1.01	100.05	
ER4A-04-9	8.23	1.58	.42	17.47	29.42	<.01	.72	.09	.04	.01	<.001	28	28	168	<10	<10	11	1	42.4	12.10	.05	.98	100.41	
ER4A-04-10	1.12	.19	.09	11.54	41.39	<.01	.05	.01	.03	.01	.002	5	<20	163	<10	<10	31	<1	45.5	2.38	.02	1.54	99.96	
ER4A-04-11	.48	.06	.05	5.25	49.86	.02	.03	<.01	<.01	<.01	.004	<5	37	219	<10	<10	25	<1	44.2	12.80	.02	3.28	99.99	
ER4A-04-12	.35	<.03	.04	2.22	53.37	<.01	<.02	<.01	<.01	<.01	<.001	<5	<20	213	<10	<10	<10	<1	44.0	12.90	.05	3.46	100.02	
ER4A-04-13	1.07	.07	.06	6.14	48.04	.02	.04	<.01	.03	<.01	.004	11	23	244	<10	<10	24	1	44.4	12.80	.05	4.26	99.92	
ER4A-04-14	.61	.04	.05	7.12	47.64	.04	.02	<.01	<.01	<.01	.001	<5	<20	244	<10	<10	<10	<1	44.4	12.80	.03	1.02	99.96	
ER4A-04-15	1.02	.10	.11	17.15	35.57	<.01	.05	<.01	.03	<.01	.002	9	<20	151	<10	<10	<10	<1	45.7	12.90	.02	1.17	99.76	
ER4A-04-16	11.66	.11	.09	11.40	35.59	<.01	.07	<.01	.06	<.01	<.001	<5	22	148	<10	<10	29	<1	41.0	12.80	.04	1.82	100.01	
RE ER4A-04-16	11.76	.13	.11	11.38	35.85	<.01	.07	.02	.05	<.01	.002	7	<20	148	<10	<10	17	<1	40.6	11.50	.04	-	100.00	
RRE ER4A-04-16	11.57	.13	.10	11.30	35.48	.05	.07	<.01	.05	<.01	.003	9	<20	150	<10	<10	33	<1	40.4	11.60	.04	-	99.19	
ER4A-04-17	8.69	.11	.10	18.15	29.86	<.01	.05	<.01	.06	<.01	<.001	7	20	147	<10	<10	<10	<1	42.9	12.30	.03	1.93	99.95	
ER4A-04-18	1.48	.05	.09	18.99	32.45	<.01	.02	<.01	.02	<.01	.001	<5	42	139	<10	<10	<10	<1	46.8	13.10	.04	2.38	99.93	
ER4A-04-19	3.96	.08	.09	17.41	33.29	<.01	.05	<.01	.03	<.01	<.001	30	<20	168	<10	<10	<10	<1	45.1	12.90	.05	3.17	100.04	
ER4A-04-20	3.64	.51	.10	18.68	31.41	<.01	.25	.03	.05	<.01	.002	25	<20	182	<10	<10	<10	<1	45.5	12.80	.04	2.11	100.20	
ER4A-04-21	3.55	.46	.16	20.32	29.91	<.01	.20	.03	.06	<.01	<.001	11	26	111	<10	<10	42	<1	45.3	12.50	.04	2.87	100.01	
ER4A-04-22	1.68	.18	.10	15.23	37.04	.01	.09	<.01	.04	<.01	.002	<5	28	157	<10	<10	12	<1	45.7	12.80	.03	.71	100.11	
ER4A-04-23	.98	<.03	<.04	2.94	52.05	.03	.02	<.01	<.01	<.01	.002	<5	<20	314	<10	<10	<10	<1	43.8	12.30	.05	.66	99.91	
ER4A-04-24	.47	<.03	<.04	1.30	54.23	<.01	.02	<.01	<.01	<.01	<.001	<5	<20	318	<10	<10	<10	<1	43.8	12.50	.05	3.15	99.91	
ER4A-04-25	.52	<.03	<.04	2.66	52.71	.07	.03	<.01	<.01	<.01	.002	<5	<20	306	<10	<10	<10	<1	43.9	12.50	.04	3.22	99.96	
ER4A-04-26	.60	<.03	<.04	1.29	53.74	.01	.02	<.01	<.01	<.01	.002	<5	<20	309	<10	<10	<10	<1	43.7	12.30	.04	3.17	99.41	
ER4A-04-27	.94	.07	.07	5.14	49.66	.06	.04	<.01	<.01	<.01	<.001	<5	39	232	<10	<10	<10	1	44.0	12.80	.02	3.13	100.02	
ER4A-04-28	.58	.04	.04	2.68	52.65	.02	.03	<.01	.02	<.01	<.001	<5	<20	264	<10	<10	<10	<1	43.9	12.60	.03	3.47	100.00	
ER4A-04-29	.53	<.03	<.04	.66	55.02	.01	.02	<.01	<.01	<.01	<.001	<5	23	301	<10	<10	<10	<1	43.7	12.40	.02	2.94	100.01	
ER4A-04-30	.47	.04	.04	1.56	54.30	<.01	.03	<.01	<.01	<.01	.002	<5	28	271	<10	<10	<10	1	43.5	12.50	.02	2.94	99.98	
ER4A-04-31	.47	.04	.04	.89	55.08	.01	.02	<.01	.01	<.01	<.001	<5	36	258	<10	<10	<10	<1	43.2	12.30	.03	2.74	99.80	
STANDARD SO-17/CSB	61.06	13.80	5.73	2.34	4.83	4.03	1.42	.58	.97	.53	.435	395	43	310	344	25	95	23	3.4	2.38	5.36	-	99.28	

GROUP 4A - 0.200 GM SAMPLE BY LIBO2 FUSION, ANALYSIS BY ICP-ES. LOI BY LOSS ON IGNITION.

TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)

- SAMPLE TYPE: CORE R150 60C

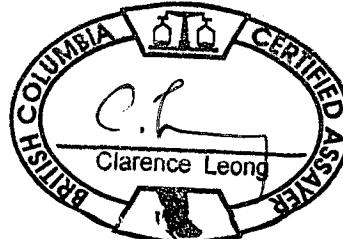
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

DATE RECEIVED: SEP 7 2004 DATE REPORT MAILED: Sept. 30/04..

Chemical Analyses ddh ER-4A, Acme Analytical Laboratories Ltd.

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.





889966 Alberta Ltd. PROJECT CLEARWATER FILE # A405236

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SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	TOT/C	TOT/S	Sample	SUM	
	%	%	%	%	%	%	%	%	%	%	%	ppm	%	%	%	%	kg	%						
ER4A-04-32	1.23	.25	.11	4.11	50.08	.03	.04	<.01	.05	<.01	<.001	21	<20	251	<10	<10	60	<1	43.9	12.30	.02	2.80	99.85	
ER4A-04-33	.90	.13	.08	15.99	37.08	.02	.06	<.01	.05	<.01	.001	7	<20	103	<10	<10	49	<1	45.3	12.50	.02	3.20	99.64	
ER4A-04-34	.60	.10	.10	11.51	42.18	.03	.04	<.01	.04	<.01	.002	<5	<20	146	<10	<11	17	1	45.1	12.40	.01	2.64	99.73	
ER4A-04-35	1.44	.37	.19	17.16	35.57	.02	.15	.02	.04	.01	<.001	21	<20	156	<10	<10	118	<1	44.9	12.40	.01	2.38	99.91	
ER4A-04-36	.64	.08	.09	11.91	42.39	.03	.03	<.01	.05	<.01	.003	<5	<20	128	<10	<10	<10	1	44.7	12.60	<.01	3.89	99.95	
ER4A-04-37	.80	.12	.08	16.27	36.08	<.01	.05	<.01	.04	<.01	<.001	<5	<20	102	<10	<10	<10	<1	46.0	12.70	<.01	1.92	99.47	
ER4A-04-38	1.43	.29	.15	18.37	33.23	.01	.12	.02	.05	.01	.005	7	<20	113	<10	<10	<10	<1	45.5	12.50	<.01	2.46	99.20	
ER4A-04-39	.69	.11	.09	17.68	35.52	.06	.04	<.01	.06	<.01	.004	<5	<20	101	21	10	44	<1	45.4	12.70	.02	.92	99.69	
ER4A-04-40	.42	.06	<.04	5.27	49.50	.02	.03	<.01	<.01	<.01	<.001	8	<20	145	<10	<10	70	<1	43.8	12.50	.02	2.55	99.17	
ER4A-04-41	1.25	.04	.06	4.25	49.95	.04	.03	<.01	.02	<.01	.002	<5	<20	187	35	13	<10	<1	43.8	12.30	.02	.74	99.48	
ER4A-04-42	.17	<.03	<.04	.45	55.73	.04	<.02	<.01	.02	<.01	.004	<5	<20	235	<10	12	<10	<1	43.4	12.40	.02	.77	99.88	
ER4A-04-43	.18	<.03	<.04	.41	55.75	.01	<.02	<.01	.03	<.01	<.001	8	<20	230	<10	13	<10	<1	43.2	12.40	.03	2.71	99.64	
RE ER4A-04-43	.20	<.03	<.04	.40	55.83	.03	<.02	<.01	<.01	<.01	.002	6	<20	234	<10	13	10	<1	43.3	12.00	.03	-	99.84	
RRE ER4A-04-43	.23	<.03	<.04	.41	55.12	.12	<.02	<.01	<.01	<.01	<.001	6	<20	229	<10	12	<10	<1	43.1	12.20	.02	-	99.07	
ER4A-04-44	.27	<.03	.04	.40	55.34	.03	<.02	<.01	<.01	<.01	.004	6	<20	249	<10	14	<10	<1	43.4	12.10	.02	2.80	99.56	
ER4A-04-45	.35	<.03	.05	.44	55.44	.05	.02	<.01	.02	<.01	.002	<5	<20	253	<10	13	<10	<1	43.2	11.80	.02	3.12	99.63	
ER4A-04-46	.56	<.03	.06	.39	55.56	.12	<.02	<.01	<.01	<.01	.002	<5	<20	234	<10	15	<10	<1	43.2	12.00	.02	2.87	99.94	
ER4A-04-47	.66	<.03	.09	.39	55.32	.12	<.02	<.01	.02	<.01	.001	6	<20	261	16	<10	<10	<1	43.2	12.20	.02	3.00	99.84	
ER4A-04-48	.55	<.03	<.04	.45	55.33	.11	<.02	<.01	.02	<.01	.004	5	<20	268	<10	<10	<10	<1	43.2	12.10	.02	3.04	99.76	
ER4A-04-49	.24	<.03	.05	.43	55.96	.03	<.02	<.01	.03	<.01	.003	<5	<20	279	13	<10	39	<1	43.1	12.30	.02	2.64	99.91	
ER4A-04-50	.95	<.03	<.04	.44	54.98	.13	<.02	<.01	.02	<.01	.002	11	<20	297	<10	<10	16	2	43.2	12.10	.02	3.07	99.83	
ER4A-04-51	.37	.03	.06	.77	55.23	.04	.02	<.01	.02	<.01	.004	11	<20	288	<10	<10	27	1	43.2	12.00	.03	3.15	99.79	
ER4A-04-52	.32	<.03	.06	.48	55.10	.04	<.02	<.01	<.01	<.01	.002	<5	<20	291	15	<10	<10	<1	43.4	12.10	.02	3.43	99.47	
ER4A-04-53	10.69	2.45	1.11	11.05	32.80	.04	1.01	.12	.04	.01	.006	176	<20	212	31	<10	14	2	40.6	10.60	.06	1.75	99.98	
STANDARD SO-17/CSB	61.53	13.84	5.85	2.33	4.74	4.09	1.41	.60	.98	.52	.437	395	40	318	345	27	60	22	3.4	2.38	5.42	-	99.87	

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Chemical Analyses ddh ER-4A, Acme Analytical Laboratories Ltd. (continued)

WHOLE ROCK ICP ANALYSIS

889966 Alberta Ltd. PROJECT CLEARWATER File # A404982 Page 1
421 - 7th Ave S.W., Suite, Calgary AB T2P 4K9

SAMPLE#	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	TOT/C	TOT/S	Sample	SUM	
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	kg	%
ER4-04-1	1.02	.08	.07	.36	55.09	.10	.04	<.01	<.01	<.01	.002	<5	<20	164	<10	<10	<10	<1	42.9	12.99	.02	2.07	99.69	
ER4-04-2	.66	.05	.04	.31	55.16	.04	.03	<.01	<.01	<.01	.002	9	<20	217	<10	<10	<10	<1	43.2	13.09	.05	2.15	99.52	
ER4-04-3	.56	.04	.04	.31	55.17	<.01	.02	<.01	<.01	<.01	.002	12	<20	221	<10	<10	<10	<1	43.5	13.19	.06	2.17	99.67	
ER4-04-4	.62	<.03	.04	.30	55.68	<.01	<.02	<.01	<.01	<.01	<.001	10	<20	256	<10	<10	<10	<1	43.3	13.19	.05	2.08	100.00	
ER4-04-5	.92	.03	.05	.35	55.19	<.01	<.02	<.01	<.01	<.01	.003	5	<20	266	<10	<10	<10	<1	43.2	13.29	.05	2.20	99.79	
ER4-04-6	.98	.13	.13	18.32	34.25	.02	.05	<.01	.02	.01	<.001	145	<20	292	<10	<10	23	<1	46.0	13.89	.09	1.29	99.97	
ER4-04-7	3.70	.41	.15	3.08	49.51	.01	.24	.03	.02	<.01	.003	318	<20	8550	14	<10	17	<1	41.9	12.29	.40	1.07	100.10	
ER4-04-8	2.11	.18	.07	1.37	52.89	.01	.11	<.01	<.01	<.01	<.001	73	<20	378	<10	<10	<10	<1	43.0	12.79	.08	1.51	99.81	
ER4-04-9	.73	.11	.06	.63	54.45	.02	.03	<.01	<.01	<.01	<.001	53	<20	649	<10	<10	<10	<1	43.5	12.89	.07	2.07	99.62	
ER5-04-1	1.51	.19	.10	2.74	51.27	.01	.07	<.01	<.01	<.01	.002	127	<20	812	<10	<10	<10	<1	43.3	12.59	.10	.95	99.32	
ER5-04-2	2.29	.25	.15	7.46	45.41	.01	.09	.01	.03	<.01	.002	96	<20	535	<10	<10	19	<1	44.1	12.89	.09	.98	99.89	
ER5-04-3	1.49	.19	.12	3.04	51.42	<.01	.08	.01	.02	<.01	<.001	80	<20	479	12	<10	22	<1	43.5	12.59	.08	1.00	99.95	
RE ER5-04-3	1.46	.20	.10	3.01	51.15	<.01	.07	.01	.02	<.01	.001	80	<20	476	<10	<10	15	<1	43.7	12.69	.10	-	99.79	
RRE ER5-04-3	1.27	.17	.09	2.59	52.16	<.01	.06	.01	<.01	<.01	<.001	67	<20	470	10	<10	16	<1	43.5	13.19	.10	-	99.92	
ER5-04-4	.67	.08	.06	.67	54.71	.03	.03	<.01	<.01	<.01	<.001	113	<20	727	<10	<10	<10	<1	43.6	13.29	.12	1.02	99.96	
ER5-04-5	1.12	.12	.07	.64	54.47	.03	.04	<.01	<.01	<.01	<.001	31	<20	350	<10	<10	<10	<1	43.3	12.59	.08	4.78	99.85	
ER5-04-6	.97	.12	.10	6.24	47.99	<.01	.04	<.01	.02	<.01	<.001	42	<20	334	<10	<10	11	<1	44.4	12.89	.05	.72	99.94	
ER5-04-7	1.39	.12	.09	9.82	43.74	.01	.05	<.01	.04	<.01	.003	15	<20	209	<10	<10	12	<1	44.6	13.19	.03	1.66	99.91	
ER5-04-8	11.84	1.44	.44	15.39	29.54	.04	.56	.09	.07	.01	.002	51	<20	184	63	<10	31	<1	40.4	11.29	.07	2.75	99.86	
ER5-04-9	1.74	.24	.13	9.45	43.06	<.01	.09	.01	.03	<.01	<.001	9	<20	173	16	<10	25	<1	44.8	13.09	.04	4.28	99.58	
ER5-04-10	8.36	1.54	.53	16.92	28.63	.01	.83	.08	.06	.01	.013	76	44	188	33	<10	40	<1	43.0	11.69	.08	.84	100.03	
ER5-04-11	.82	.14	.08	8.38	45.76	<.01	.07	<.01	.03	<.01	.001	26	<20	171	<10	<10	<10	<1	44.5	12.69	.02	2.38	99.81	
ER5-04-12	.74	.13	.12	5.29	49.45	.04	.05	<.01	.03	<.01	.001	24	<20	195	<10	<10	<10	<1	44.1	12.59	.03	2.41	99.98	
ER5-04-13	.24	<.03	.04	1.86	53.91	<.01	<.02	<.01	<.01	<.01	<.001	32	<20	223	<10	<10	<10	<1	43.9	12.49	.04	3.05	100.00	
ER5-04-14	.48	.06	.07	4.00	50.97	<.01	.05	<.01	<.01	<.01	.002	23	<20	249	<10	<10	<10	<1	43.8	12.79	.06	3.17	99.48	
ER5-04-15	.98	.26	.21	16.59	36.41	.04	.11	.01	.04	<.01	<.001	22	<20	150	<10	<10	<10	<1	45.1	12.89	.04	.70	99.78	
ER5-04-16	.36	.05	.05	6.19	48.91	.04	.04	<.01	.03	<.01	<.001	11	<20	245	<10	<10	<10	<1	44.1	12.79	.03	3.32	99.81	
ER5-04-17	1.35	.27	.13	19.71	32.54	.04	.09	.01	.09	.01	.004	9	<20	127	<10	<10	14	<1	45.5	12.99	.02	1.10	99.77	
ER5-04-18	10.75	.17	.15	8.95	38.83	<.01	.07	<.01	.09	<.01	<.001	24	<20	171	<10	<10	<10	<1	40.4	11.29	.05	.84	99.45	
ER5-04-19	7.03	.10	.07	16.74	32.85	.01	.04	<.01	.08	<.01	.002	22	<20	154	<10	<10	<10	<1	42.9	11.99	.02	3.05	99.85	
ER5-04-20	.83	.06	.10	18.04	34.68	<.01	.02	<.01	.05	<.01	.002	19	<20	136	<10	<10	<10	<1	45.4	13.39	.02	1.86	99.21	
ER5-04-21	.89	.06	.11	17.01	35.95	.02	.02	<.01	.06	<.01	<.001	26	<20	191	<10	<10	<10	<1	45.8	13.29	.02	1.28	99.96	
STANDARD SO-17/CSB	61.41	13.86	5.86	2.35	4.89	4.07	1.41	.59	.99	.51	.430	401	29	304	348	25	66	23	3.4	2.46	5.40	-	99.91	

GROUP 4A - 0.200 GM SAMPLE BY LIBO2 FUSION, ANALYSIS BY ICP-ES. LOI BY LOSS ON IGNITION.

TOTAL C & S BY LECO. (NOT INCLUDED IN THE SUM)

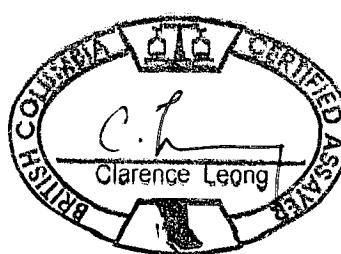
- SAMPLE TYPE: CORE R150 60C

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

DATE RECEIVED: AUG 27 2004 DATE REPORT MAILED: Sept 17/04...

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.





889966 Alberta Ltd. PROJECT CLEARWATER FILE # A404982

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SAMPLE#	SiO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	CaO	Na ₂ O	K ₂ O	TiO ₂	P ₂ O ₅	MnO	Cr ₂ O ₃	Ba	Ni	Sr	Zr	Y	Nb	Sc	LOI	TOT/C	TOT/S	Sample	SUM	
	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	kg	%
ER5-04-22	2.52	.31	.11	17.63	33.11	.03	.12	.01	.05	<.01	.002	25	<20	194	<10	<10	<1	46.1	13.17	.03	3.84	100.03		
ER5-04-23	2.65	.37	.13	18.52	32.30	.01	.17	.02	.05	<.01	.003	14	<20	157	<10	<10	<1	46.1	12.86	.03	3.33	100.34		
ER5-04-24	.50	<.03	<.04	.57	54.64	<.01	<.02	<.01	.02	<.01	<.001	<5	<20	327	<10	<10	<1	43.8	12.76	.02	3.14	99.60		
ER5-04-25	.60	<.03	.04	1.59	53.74	.02	<.02	<.01	<.01	<.01	<.001	8	<20	301	<10	<10	<1	44.0	12.86	.04	2.60	100.07		
ER5-04-26	.45	.04	.06	4.16	50.91	<.01	.02	<.01	<.01	<.01	.003	<5	<20	283	10	<10	19	<1	44.4	13.38	.03	3.01	100.10	
ER5-04-27	.57	<.03	.04	4.32	50.67	.02	<.02	<.01	.02	<.01	<.001	<5	<20	264	<10	<10	21	<1	44.4	13.07	.04	2.25	100.09	
ER5-04-28	.59	<.03	<.04	2.42	52.71	.03	<.02	<.01	.01	<.01	<.001	7	<20	273	<10	<10	<1	44.2	12.97	.03	2.75	100.06		
ER5-04-29	1.61	.25	.10	20.09	31.46	.04	.12	.01	.11	<.01	.003	8	<20	132	11	<10	<1	46.4	13.59	.02	2.06	100.22		
ER5-04-30	.46	.04	.08	3.93	51.20	<.01	.03	<.01	.02	<.01	.002	<5	<20	241	<10	<10	<1	44.3	13.28	.03	2.31	100.09		
ER5-04-31	.91	.11	.08	5.13	49.46	.02	.06	<.01	.01	<.01	<.001	8	<20	226	<10	<10	<1	44.3	12.86	.02	.78	100.12		
ER5-04-32	.42	<.03	<.04	1.27	53.23	.03	.02	<.01	.01	<.01	<.001	<5	<20	255	<10	<10	<1	43.8	12.76	.03	3.27	98.86		
ER5-04-33	.65	.09	.90	.59	53.43	.05	.02	<.01	.02	.01	.002	<5	<20	276	12	<10	<1	43.9	12.97	.02	3.63	99.70		
ER5-04-34	.44	.03	.05	.63	54.98	.02	<.02	<.01	<.01	<.01	<.001	<5	<20	259	<10	<10	<1	43.7	12.66	.02	3.14	99.90		
ER5-04-35	.38	<.03	.04	1.67	53.88	.05	<.02	<.01	.03	<.01	.002	<5	<20	242	12	<10	<1	44.0	12.97	.02	2.94	100.10		
ER5-04-36	.74	<.03	<.04	.49	54.72	.03	<.02	<.01	<.01	<.004	<5	<20	281	<10	<10	<1	43.9	12.76	.03	2.15	99.95			
ER5-04-37	.40	.03	.08	1.06	54.41	.01	<.02	<.01	<.01	<.01	.001	13	<20	256	<10	<10	14	<1	44.0	12.66	.02	3.61	100.05	
ER5-04-38	.83	.16	.12	14.29	38.49	.02	.07	<.01	.04	<.01	.003	11	<20	136	<10	<10	<1	46.1	13.17	.01	.68	100.16		
ER5-04-39	1.53	.35	.20	17.21	33.60	<.01	.17	.02	.05	<.01	.003	9	<20	129	14	<10	22	146.9	13.89	.02	2.81	100.07		
ER5-04-40	.67	.08	.10	12.42	40.57	.01	.03	<.01	.03	<.01	.001	<5	<20	93	15	<10	13	<1	46.0	13.28	.01	1.92	99.94	
ER5-04-41	.51	.07	.11	21.79	30.30	.03	<.02	<.01	.03	.01	<.001	<5	<20	77	<10	<10	<1	47.2	14.10	.01	1.54	100.08		
ER5-04-42	.84	.12	.11	20.81	30.96	<.01	.04	<.01	.04	<.01	<.001	6	<20	96	10	<10	<10	<1	46.8	13.89	<.01	2.31	99.74	
ER5-04-43	1.48	.33	.19	18.96	32.62	.02	.14	.02	.04	<.01	.002	13	<20	119	13	<10	<10	<1	46.5	13.59	.01	1.39	100.33	
RE ER5-04-43	1.43	.31	.17	18.64	32.01	.02	.14	.02	.07	<.01	.003	11	<20	117	<10	<10	<10	<1	46.8	13.28	.02	-	99.63	
RRE ER5-04-43	1.44	.30	.20	18.57	32.17	.03	.14	.02	.04	<.01	.004	11	<20	119	14	<10	<10	<1	46.9	13.59	.02	-	99.84	
ER5-04-44	1.17	.26	.10	17.17	34.66	<.01	.11	.01	.04	<.01	.003	8	<20	150	<10	<10	11	<1	46.3	13.07	.02	.42	99.85	
ER5-04-45	.63	.10	.10	16.09	36.27	.05	.04	<.01	.04	<.01	.002	5	<20	113	<10	<10	<10	<1	46.6	13.69	.01	1.73	99.95	
ER5-04-46	.71	.07	.08	7.79	45.80	.01	.02	<.01	.03	<.01	<.001	8	<20	133	15	<10	16	145.1	13.07	.01	.41	99.64		
ER5-04-47	.46	.03	.08	2.93	51.92	.03	<.02	<.01	<.01	<.01	.002	<5	<20	190	22	<10	24	<1	44.4	13.07	.01	3.47	99.90	
ER5-04-48	.31	<.03	.05	.47	55.03	<.01	<.02	<.01	<.01	<.01	.002	5	<20	207	<10	<10	<10	<1	44.0	12.66	.01	3.31	99.90	
ER5-04-49	.57	.05	.07	.46	55.42	.04	<.02	<.01	<.01	<.01	.006	12	<20	218	11	<10	<10	<1	43.5	12.45	.02	3.26	100.16	
ER5-04-50	.30	<.03	.05	.45	54.82	<.01	<.02	<.01	<.01	<.01	.003	22	<20	222	<10	10	<10	143.6	12.97	.01	3.45	99.28		
ER5-04-51	.33	<.03	.04	.43	55.71	.02	<.02	<.01	<.01	<.01	<.001	7	<20	197	15	13	<10	<1	43.6	12.86	.01	2.99	100.16	
STANDARD SO-17/CSB	61.80	13.83	5.83	2.35	4.81	4.15	1.40	.60	.99	.53	.437	400	39	301	350	25	60	23	3.4	2.35	5.33	-	100.27	

Sample type: CORE R150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Chemical Analyses ddh ER-4 and ER-5, Acme Analytical Laboratories Ltd. (continued)



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SAMPLE#	SiO ₂ %	Al ₂ O ₃ %	Fe ₂ O ₃ %	MgO %	CaO %	Na ₂ O %	K ₂ O %	TiO ₂ %	P ₂ O ₅ %	MnO %	Cr ₂ O ₃ %	Ba ppm	Ni ppm	Sr ppm	Zr ppm	Y ppm	Nb ppm	Sc ppm	LOI %	TOT/C %	TOT/S %	Sample kg	SUM %
ER5-04-52	.30	.04	.05	.39	56.48	<.01	<.02	<.01	.03	<.01	<.001	6	<20	250	10	<10	<10	<1	42.5	12.64	.02	2.87	99.83
ER5-04-53	.07	<.03	<.04	.39	55.71	.03	<.02	<.01	.02	<.01	<.001	5	<20	263	10	<10	<10	<1	43.6	12.54	.03	3.15	99.89
ER5-04-54	.16	<.03	<.04	.39	55.49	<.01	<.02	<.01	.03	<.01	<.001	6	<20	237	10	<10	<10	<1	43.6	12.54	.02	3.17	99.71
ER5-04-55	.21	<.03	.04	.43	55.97	<.01	<.02	<.01	.04	<.01	.002	5	<20	236	11	<10	<10	1	43.3	12.74	.02	3.47	100.03
ER5-04-56	.26	<.03	<.04	.44	55.63	<.01	<.02	<.01	.01	<.01	.002	5	<20	268	12	<10	<10	<1	43.4	12.84	.02	3.25	99.82
ER5-04-57	.39	<.03	.05	.47	55.61	<.01	<.02	<.01	.02	<.01	.002	5	<20	284	10	<10	<10	<1	43.4	12.23	.03	2.81	100.00
ER5-04-58	10.58	2.37	.99	11.13	34.22	.03	1.09	.12	.05	.01	.003	122	<20	195	32	<10	20	2	39.4	11.11	.06	1.50	100.04
STANDARD SO-17/CSB	61.72	13.93	5.90	2.38	4.71	4.02	1.42	.58	.97	.52	.434	402	41	311	333	26	63	22	3.4	2.41	5.36	-	100.14

Sample type: CORE R150 60C.

Chemical Analyses ddh ER-4 and ER-5, Acme Analytical Laboratories Ltd. (continued)

STATEMENT OF QUALIFICATIONS:

Dr. W. D. McRitchie

Employed with Manitoba Energy and Mines for 31 years 9 months (1965-1997).

1962 B.Sc. Hons. Geology, Durham University, England

1965 Ph. D. Durham University, England

1965-1969 Project Geologist, Precambrian Subdivision

1970-1975 Project Leader/Coordinator, Precambrian Subdivision

1975-1997 Director, Manitoba Geological Survey.

Prior to retirement in November 1997, Manitoba rep. on Provincial Geologists' Committee (1979-1997), and National Geological Surveys Committee (1979-1997), and numerous other appointments including Provincial Co-chair NATMAP program (1992-1996), Provincial Co-Chair Man/Can Mineral Agreements (1979-1997), Prov. Rep on Geological Foundation, Min. Deposits Divn., GAC, and Geoscience Council Evaluation Committees for Ontario and BC Geological Surveys. As Director of Manitoba Survey, reported directly to Deputy Minister 1992-1997; Departmental Co-Chair of Manitoba's Mineral Exploration Liaison Committee-MELC, and member of evaluation board for Provincial Mineral Exploration Assistance Program-MEAP (1994-1997).

During career with Manitoba Energy and Mines authored and co-authored over 130 technical publications dealing with Manitoba's geological and mineral endowment.

1998-2001 East Kootenay Science Council

1998-2004 Principal, LKAR Geological Consulting- 20+ confidential reports on industrial minerals in Alberta and British Columbia.

2003-2005 Southern Rocky Mountain Management Plan Advisory Committee

2000-2005 Fernie and District Search and Rescue Director/Treasurer

2001-2005 Coal Discovery Centre Board of Directors

Statutory Declaration

**In The Matter of Metallic and Industrial Minerals
Permits # 9302020053-9302020059**

I, David M'Ritchie, of Fernie, British Columbia, do solemnly declare that:

1. I am the President of LKAR Geological Consulting and I have personal knowledge of the matters herein deposed.
2. The statement of expenditures (the "Statement of Expenditures") attached hereto as Exhibit "A" relates to Metallic and Industrial Minerals Permits #9302020053 to #9302020059 (Legal descriptions in Table 1 of the accompanying report).
3. The Statement of Expenditures is correct in all respects.

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

David M'Ritchie



NOVEMBER

Declared before me at Fernie, British Columbia, on 26
May 20, 2004.



A Notary Public in and for the Province
of British Columbia

Authorization to Reproduce or Copy

889966 Alberta Ltd. hereby authorizes the Government of Alberta to reproduce or copy the attached Assessment Report at the end of the 1 year confidentiality period (September 2006).

[Redacted]
Andrew Grasby
On Behalf of 889966 Alberta Ltd.