



TITLE OF REPORT [type of survey(s)] Drilling	TOTAL COST \$ 71 070.00
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AUTHOR(S) Steve Rice, P.Eng. SIGNATURE(S) \_\_\_\_\_

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) \_\_\_\_\_ YEAR OF WORK 1991

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) All PAC

PROPERTY NAME Craigmont

CLAIM NAME(S) (on which work was done)  
L1612, L1215, L4233

COMMODITIES SOUGHT Magnetite (MA)

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 092I SE 035

MINING DIVISION Nicola NTS 092I 02w

LATITUDE 50 ° 12 ' 30 " LONGITUDE 120 ° 55 ' 30 " (at centre of work)

OWNER(S)  
1) Craigmont Mines 2) \_\_\_\_\_

MAILING ADDRESS  
820 - 355 Burrard Street  
Vancouver, B.C.  
V6C 2G8

OPERATOR(S) [who paid for the work]  
1) Same 2) \_\_\_\_\_

MAILING ADDRESS  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):  
The property is being explored for magnetite content in the old mine tailings.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS \_\_\_\_\_

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

22,621

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**KLOHN LEONOFF**

LOG NO: DEC 09 1992 RD.

ACTION.

FILE NO:

Our File: PB 5395 0401  
MIN 80

June 1, 1992

Craigmont Mines  
820 - 355 Burrard Street  
Vancouver, British Columbia  
V6C 2G8

Mr. W.F. Moore, P.Eng.  
Director

Request for Information Regarding Assessment Work

Dear Sir:

In response to your recent request, this letter presents a brief history of the Craigmont operation, a description of the exploration program and planned operation, and some relevant drawings and appendices. Most of this information has been extracted from the more complete and detailed report prepared for Craigmont Mines by Klohn Leonoff, titled "Mine Plan", dated September 12, 1991. It is understood that you require this letter in support of your application regarding assessment work on the property.

**Location**

The Craigmont Mine is located in the Interior Plateau Region of south-central British Columbia approximately 13 km northwest of Merritt. The mine site is located on the lower slopes of the Promontory Hills which rise to the west of the Stumbles Creek Valley. The tailings impoundment is situated in the Stumbles Creek Valley. A narrow ridge separates the Stumbles Creek Valley from the Guichon Creek Valley to the east.

**History**

The Craigmont Mine was in operation from 1962 to 1982. The Craigmont orebody was originally mined for its copper values. However, the ore also contained significant grades of magnetite and hematite. For approximately the first eight years of mine operation, the magnetite was deposited with the tailings until a magnetite recovery circuit was installed in the mill. Recovery of magnetite from the ore started in about 1970.

The recovered raw magnetite was stockpiled at the minesite. Following closure of the mine, the magnetite was processed in the mill to produce media-grade magnetite for sale to the coal mining industry for use in the flotation process. The processed media-grade magnetite was stored in stockpiles at the minesite. For about the past ten years,



the stockpiled magnetite has been sold, recently at a rate of about 60 000 tonnes per year.

### **Proposed Operation**

As the current stockpiles are being depleted, Craigmont is planning to supplement this magnetite supply by recovering magnetite from tailings deposited during the operational life of the Craigmont Mine. Klohn Leonoff Ltd. was retained by Craigmont to prepare a mine development plan. This was presented in the report entitled "Mine Plan", dated September 12, 1991.

### **Exploration Drilling Program**

From January 22 to February 1, 1991, Klohn Leonoff supervised the drilling of 30 holes by SDS Drilling Ltd. of Vancouver, British Columbia. The locations of these holes are shown on Drawing D-2102. All holes reached the bottom of the tailings deposit, which was 32 m in depth at the deepest point sampled. A total of 763 m were drilled. Observation wells were installed in 10 of the test holes as shown on Drawing D-2102. These observation wells consisted of standpipe piezometers sealed within the bottom of the tailings deposit. The drill hole logs and details of the piezometer installations are presented in Appendix I.

Except for hole AH91-4A, all test holes were sampled at 1.5 m (5 ft) intervals by removing all material from the augers, mixing it, splitting it with a sample-splitter, and bagging roughly one-half the material collected in a plastic sample bag. A total of 477 samples were taken. Samples not assayed have been retained by Craigmont Mines.

Drill hole AH91-4A served as a check to the sample quality obtained by the above described sampling method. Samples were taken every 1.5 m with a 6-cm OD split-spoon sampler in conjunction with standard penetration test (SPT). Drill hole AH91-4B is located only 1 m away from drill hole AH91-4A and therefore, assay results from samples taken in both holes could be compared.

The drilling program was based on the theory that the magnetite is concentrated in the lower reaches of the deposit and close to the embankment. The most northerly of these holes are located about 120 m upstream of the crest of the embankment. It was expected that the results would delineate a northern limit of mineable reserves based on the grade diminishing in the upstream or northerly direction.

### **Magnetometer Survey**

An exploration program commissioned by Craigmont Mines Ltd. in 1989 (Searchlight, 1989) included a ground magnetometer survey over the southern part of the tailings impoundment. The survey covered roughly half of the deposit. As part of an effort to further delineate magnetite reserves within the tailings, Klohn Leonoff carried out an additional magnetometer survey over the northern half of the deposit during the period of June 8 to 11, 1991. A magnetic contour plot of the entire deposit has been completed based on the combined results of the recent survey and the work done in 1989. A plot of the magnetometer survey results is included as Fig. II-3.

June 1, 1992

The magnetometer survey gave a rough estimate of the magnetite distribution throughout the tailings deposit. It appears that the magnetite-rich layer present within the lower portion of the tailings is more extensive than previously thought. The survey indicates that the average magnetite content within the tailings remains more or less constant from the south end of the deposit to approximately 550 m upstream of the crest of the embankment. The thickness of the magnetite-rich layer, however, decreases towards the north end of the impoundment. Within the northern half of the deposit, the magnetite content appears to decrease as well.

#### Assay Results

Two hundred and thirty-two samples from the 1991 drilling program were assayed for magnetite content by Bacon Donaldson and Associates Ltd. of Richmond, British Columbia. The assay results are presented in Table I.1 in Appendix I. Further assaying was done at the University of British Columbia (Laskowski and Palmes, 1991).

We trust that this information is sufficient for your needs at this time. Please call us if you have any further questions.

Yours very truly,

KLOHN LEONOFF LTD.



for Steve Rice, P.Eng.  
Project Manager

BST/SR:jes



**KLOHN LEONOFF**

COPY

Our File: PB 5395 0401  
MIN 78

December 1, 1992

Craigmont Mines  
Suite 820 - 355 Burrard Street  
Vancouver, British Columbia  
V6C 2G8

Mr. R.C. Hermann, P.Eng.

Craigmont Mines Assessment Report

Dear Sir:

This letter is intended to outline the work done for Craigmont Mines by Klohn Leonoff Ltd. on the Craigmont Mine site near Merritt to assist you with filing of assessment reports. The work was carried out during 1990 and 1991 (up to and including December 16, 1991) and was directed towards proving the feasibility of producing magnetite from the tailings deposit at the mine site. The information contained herein is intended to assist with reporting of assessment work in accordance with the Province of British Columbia, Ministry of Energy, Mines and Petroleum Resources, Mineral Tenure Act, Sections 25, 26 & 27. We have been specifically requested to report on work carried out in the following areas: geological, geophysical, geochemical and drilling. This letter provides a brief summary of the work done. Table 1 gives a breakdown of the costs of activities associated with these specific areas. Significant other work, not associated with these categories, but directed toward the same end was also completed for a total cost in excess of \$180,000. More extensive descriptions of the work carried out are included in the referenced reports.

#### **GEOLOGICAL**

No geological maps were produced other than those resulting from the geophysical surveys described below.

#### **GEOPHYSICAL**

A ground based magnetometer survey was carried out to delineate areas within the tailings deposit of high magnetic flux, indicating high magnetite content. This magnetometer survey extended the coverage of a previous survey over the northern portion of the tailings deposit. Total magnetic field was recorded. Two Scintrex MP-3 portable proton magnetometers were used. One was used in the field mode while the other was used in the base station mode. The internal clocks were synchronized each morning. The data from the two magnetometers were merged and corrected for diurnal drift from an established base value at the end of each day.

December 1, 1992

Contoured maps of total field were produced from the reduced data.

#### GEOCHEMICAL

No geochemical work was done as part of this study.

#### DRILLING

A drilling program was carried out to identify the distribution of magnetite grades within the tailings deposit and to calculate reserves. Thirty exploration holes were drilled to the bottom of the tailings, which average about 30 m deep in the area explored. All holes were vertical and were drilled with a 150 mm diameter, solid stem auger from a track mounted rig. No dip tests were considered warranted for such short holes. Samples were taken over each run of approximately 1.5 m. All samples were described by Klohn Leonoff's site engineer, Mr. Henri Letient, whose resume is appended. The samples were labelled and bagged at the drill site and are currently stored by Klohn Leonoff in a warehouse in Richmond, B.C.

The collar survey coordinates of all of the holes are appended. Assays of magnetite content were carried out by Bacon Donaldson on 167 of the samples. The assay results were used in a reserve calculation of the southern portion of the deposit.

Based on the above work, a mine plan was generated for commercial production of magnetite at a rate of 60 000 tonnes per year. The work described in this report is considered successful from the point of view that it supported the decision to proceed with the project.

We trust that this letter provides sufficient details for your needs. If you have any questions, please contact us.

Yours very truly,

KLOHN LEONOFF LTD.



Steve Rice, P.Eng.  
Project Manager

BST/SR:jes  
Encl.

REFERENCES

Klohn Leonoff Ltd., (1990); "Stability Review, Craigmont Tailings Impoundment", Report to Craigmont Mines.

Klohn Leonoff Ltd., (1991); "Mine Plan", Report to Craigmont Mines.

TABLE 1. CRAIGMONT MINES - BUDGET BREAK-DOWN AS OF DECEMBER 16, 1991.

YEAR	PROJECT	TASK	ITEM	CONTRACTOR	COST	TOTAL COST
1990	STABILITY REVIEW	SITE INVESTIGATION	DRILLING	FOUNDEX EXPLORATIONS LTD.	\$14,999	\$14,999
1991	MINE PLAN	EXPLORATION PROGRAM	DRILLING/SAMPLING	S.D.S.	\$17,933	\$71,070
			AIRPHOTO MAPPING	NADIR MAPPING	\$8,483	
			SURVEYING	TUNBRIDGE & TUNBRIDGE	\$3,420	
			ASSAY	BACON, DONALDSON & ASSOCIATES LTD.	\$12,519	
			FIELD INVESTIGATIONS	KLOHN LEONOFF LTD.	\$21,915	
			MAGNETOMETER SURVEY	KLOHN LEONOFF LTD.	\$6,800	
TOTAL						\$86,069



LOG NO:	DEC 0 4 1992	RD.
ACTION.		
FILE NO:		

APPENDIX I

DRILL HOLE LOGS AND ASSAY RESULTS

NOTE 1 FT = 30.5 CM

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED <b>January 24, 1991</b>		PIEZOMETER DETAILS	COHESION kPa										
SAMPLE DATA				SYMBOL	DRILL TYPE <b>Solid 5" Augers</b>		10      30      50      70      90 ● FIELD VANE    ▲ LAB VANE    ■ UNCONF										
HAMMER MASS                      kg					ELEVATION GROUND		PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT						
DROP HEIGHT                              m					CO-ORD. LOCATION		X - - - - - O - - - - - X		10      30      50      70      90%								
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO.	DESCRIPTION OF MATERIAL													
(ft.)				<b>SILTY FINE SANDS AND SILTS (TAILINGS)</b> - dry to moist - greenish gray - slightly magnetic													
5			1														
10			2						- silt layer, very moist from 7 ft to 8 ft								
15			3														
20			4						- gradual colour change to dark grey								
25			5														
30			6						- dark grey to black - more magnetic than above					3/4" dia. PVC riser pipe			
35			7														
40			8						- dark grey to black - more magnetic than above					original drillhole material			
45			9														
50			10	- sandy silt, very moist at 49 ft					44'	bentonite seal							
									45'								
					47'	sand		3/4" slotted PVC pi									



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CONSULTING ENGINEERS

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JOB No. P3 5395 03	
PROJECT Craigmont Mines	
LOCATION Merritt, British Columbia	
HOLE No. AH91-1	
DATE 02.08.91	PLATE 1 of 2







# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED January 25 & 26, 1991		PIEZOMETER DETAILS	COHESION kPa													
SAMPLE DATA				DRILL TYPE Solid 5" Augers			● FIELD VANE    ▲ LAB VANE    ■ UNCONF													
HAMMER MASS kg				SYMBOL	ELEVATION GROUND		PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT									
DROP HEIGHT m					CO-ORD. LOCATION		X		O		X									
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO.		DESCRIPTION OF MATERIAL															
(ft)					10	30	50	70	90	90%										
5			1	SILTY FINE SANDS AND SILTS (TAILINGS) - dry to moist - greenish - slightly magnetic - variations in silt content throughout  - gradual darkening in colour  - bands of dark grey to black sands  - more magnetic than above																
10			2																	
15			3																	
20			4																	
25			5																	
30			6																	
35			7																	
40			8																	
45			9																	
50			10																	

3/4" PVC riser pipe

original drillhole material



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03  
 PROJECT Craigmont Mines  
 LOCATION Merritt, British Columbia  
 HOLE No. AH91-3  
 DATE 02.08.91 PLATE 1 of 3







# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa					
SAMPLE DATA				DRILL TYPE			10      30      50      70      90 ● FIELD VANE    ▲ LAB VANE    ■ UNCONF PLASTIC      WATER      LIQUID LIMIT      CONTENT      LIMIT X      ---      O      ---      X 10      30      50      70      90°					
HAMMER MASS				ELEVATION GROUND								
DROP HEIGHT				CO-ORD. LOCATION								
DEPTH				DESCRIPTION OF MATERIAL								
ELEV.	O.D. I.D.	BLOWS 0.3m	NO	SYMBOL								
(ft.)					SILTY FINE SANDS AND SILTS (TAILINGS) -dry to moist -light greenish grey -slightly magnetic  NOTE: (1) 8/10 = N/N <sub>1</sub> N = field blow count N <sub>1</sub> = blow count corrected for overburden pressure							
5		(1) 8/10	1									
10		8/8	2									
15		9/9	3									
20		8/7	4									
25		8/6	5									
30		9/7	6	-								
35		11/8	7									
40		10/7	8	-								
45		8/5	9	-								
50												



KLOHN LEONOFF

CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	Craigmont Mines
LOCATION	Merritt, British Columbia
HOLE No.	AH 91-4A
DATE	Feb. PLATE 1 of 2

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED January 27, 1991		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				DRILL TYPE Hollow Stem Augers			10      30      50      70      90 ● FIELD VANE    ▲ LAB VANE    ■ UNCONF				
HAMMER MASS 63.5 kg				ELEVATION GROUND			PLASTIC      WATER      LIQUID LIMIT      CONTENT      LIMIT X      ---      O      ---      X				
DROP HEIGHT 0.76 m				CO-ORD LOCATION			10      30      50      70      90%				
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO	SYMBOL		DESCRIPTION OF MATERIAL					
(ft.)		14/8	10			- sand, silt, grey, magnetic					
55		13/7	11			-dark grey, some visible magnetite					
60		16/8	12			- dark grey to black					
65		10/5	13			- dark grey, very moist to wet					
70		18/9	14			- black, high magnetite content bands of silt, purple - moist					
75		22/10	15			- very moist to wet					
80		15/7	16			- 91.5' - bottom of tailings @ 91.5' BOH @ 92' DEPTH					
85		14/6	17			SAND AND GRAVEL - some pebbles - organics - black - moist					
90											
92			18								



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

KLOHN LEONOFF

JOB No. PB 5395 03	
PROJECT Craigmont Mines	
LOCATION Merritt, British Columbia	
HOLE No. AH 91-4A	
DATE	PLATE 2 of 2

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				DRILL TYPE			10	30	50	70	90
HAMMER MASS				ELEVATION GROUND			● FIELD VANE    ▲ LAB VANE    ■ UNCONF				
DROP HEIGHT				CO-ORD. LOCATION			PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT				
DEPTH	O.D.	BLOWS	NO.	DESCRIPTION OF MATERIAL			X	---	O	---	X
ELEV.	I.D.	0.3m				10	30	50	70	90%	
(ft)					SILTY FINE SANDS AND SILTS (TAILINGS)						
5			1		- dry to moist - light greenish grey - slightly magnetic						
10			2								
15			3		- small bands of visible magnetite						
20			4								
25			5		- gradual darkening in colour						
30			6								
35			7		- dark grey, variation in silt content throughout, moist						
40			8								
45			9		- layers with high magnetite content						
50			10		- layer of silt from 44' to 48' dull grey, very moist						



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03  
 PROJECT Craigmont Mines  
 LOCATION Merritt, British Columbia  
 HOLE No. AH 91-4B  
 DATE PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa					
SAMPLE DATA				DRILL TYPE			10	30	50	70	90	
HAMMER MASS		kg		ELEVATION GROUND			● FIELD VANE    ▲ LAB VANE    ■ UNCONF					
DROP HEIGHT				CO-ORD. LOCATION			PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT	
DEPTH	O.D.	BLOWS	NO.	DESCRIPTION OF MATERIAL								
ELEV	I.D.	0.3m										
(ft.)												
55			11	- sand, silt, black, high magnitite content								
60			12									
65			13	- layer of dark brown to dark grey sand & silt								
70			14									
75			15	- black, bands of silt, purple, high magnitite content								
80			17									
90			18	B.D.H. @ 90' DEPTH								



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	Craigmont Mines
LOCATION	Merritt, British Columbia
HOLE No.	AH 91-4B
DATE	PLATE 2

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED	January 29, 1991	PIEZOMETER DETAILS	COHESION kPa										
SAMPLE DATA				DRILL TYPE	Solid 5" Augers		10	30	50	70	90						
HAMMER MASS				SYMBOL	ELEVATION GROUND		● FIELD VANE    ▲ LAB VANE    ■ UNCONF										
DROP HEIGHT					CO-ORD. LOCATION		PLASTIC LIMIT	WATER CONTENT		LIQUID LIMIT							
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO.	DESCRIPTION OF MATERIAL							X	---	O	---	X		
(ft.)											10	30	50	70	90%		
5				1	SILTY FINE SANDS AND SILTS (TAILINGS)  - dry to moist - greenish grey - slightly magnetic												
10				2													
15				3													
20				4													
25				5													
30				6	- grey, some dark grey bands of sand												
35				7	- dark grey, visible magnetite, moist												
40				8													
45				9	- silt layer, very moist, dark grey												
50				10													



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	Craigmont Mines
LOCATION	Merritt, British Columbia
HOLE No.	AH 91-5
DATE	PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED	COHESION kPa							
SAMPLE DATA				DRILL TYPE								
HAMMER MASS		kg		ELEVATION GROUND								
DROP HEIGHT		m		CO-ORD. LOCATION								
DEPTH	O.D.	BLOWS	NO.	SYMBOL	DESCRIPTION OF MATERIAL	PIEZOMETER	DETAILS					
ELEV.	I.D.	0.3m						PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
(ft.)								10	30	50	70	90
55			11		- silty sand, greenish grey							
60			12		- layers of sands and silts, dark grey, visible magnetite in sand layers							
65			13		- lighter colour sand and silt, brownish grey, alternating with dark grey layers							
70			14		- from 69' down, sand and silt, black some bands of purple silt, high magnetite content							
80			16									
85			17		- layer of sand and silt, grey no visible magnetite, 2 1/2 feet thick							
90			18		- black, very moist							
94.5			19		BOTTOM OF TAILINGS @ 94' B.O.H. @ 94.5' DEPTH SAND AND GRAVEL - some pebbles - organics - black - moist							



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

KLOHN LEONOFF

JOB No.	PB 5395 03
PROJECT	Craigmont Mines
LOCATION	NMerritt, B.C.
HOLE No.	AH 91-5
DATE	PLATE 2







# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa																			
SAMPLE DATA				DRILL TYPE			10	30	50	70	90															
HAMMER MASS				ELEVATION GROUND			● FIELD VANE    ▲ LAB VANE    ■ UNCONF																			
DROP HEIGHT				CO-ORD. LOCATION			PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT															
DEPTH	O.D.	BLOWS	NO.	DESCRIPTION OF MATERIAL																						
ELEV.	I.D.	0.3m																								
(ft.)				<p style="text-align: center;">SILTY FINE SANDS AND SILTS (TAILINGS)</p> <ul style="list-style-type: none"> <li>- light greenish grey</li> <li>- dry to moist</li>   <li>- layer of silt, brownish grey</li>   <li>- some bands of dark grey sand</li> <li>- green to dark grey</li> <li>- gradual darkening in colour</li>   <li>- sand, silt, dark grey variation in silt content throughout, magnetic</li> </ul>																						
5			1																							
10			2																							
15			3																							
20			4																							
25			5																							
30			6																							
35			7																							
40			8																							
45			9																							
50			10																							

3/4" diam. PVC riser pipe



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03	
PROJECT Craigmont Mines	
LOCATION Merritt, B.C.	
HOLE No. AH 91-7	
DATE	PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				DRILL TYPE			10	30	50	70	90
HAMMER MASS			kg	ELEVATION GROUND			● FIELD VANE    ▲ LAB VANE    ■ UNCONF				
DROP HEIGHT			m	CO-ORD. LOCATION			PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT
DEPTH	O.D.	BLOWS	SYMBOL	DESCRIPTION OF MATERIAL			X	O	X	X	X
ELEV.	I.D.	0.3m				NO.	10	30	50	70	90°
(ft.)					- silt, dull grey, very moist						
55				11							
60				12							
65				13							
70				14	- some layers of dark grey to black sand					3/4" diam. PVE riser pipe	
75				15						original drill hole material	
80				16							
85				17	- sand, silt, black with layers of purple silt, high magnetite content very moist to wet					83' bentonite seal 84'	
90				18	- sand					85.5' 3/4" slotted PVC pipe	
94					BOTTOM OF TAILINGS @ 90.5' DEPTH SAND AND GRAVEL - some pebbles, brown, wet					90.5' original drill hole material	
					BOH @ 94' DEPTH						



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	Craigmont Mines
LOCATION	Merritt, B.C.
HOLE No.	AH 91-7
DATE	PLATE 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		COHESION kPa	
SAMPLE DATA				SYMBOL	DRILL TYPE		10    30    50    70    90
HAMMER MASS		kg			Solid 5" Augers		• FIELD VANE    ▲ LAB VANE    ■ UNCONF
DROP HEIGHT		m			ELEVATION GROUND		PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT
DEPTH	O.D.	BLOWS	NO.		CO-ORD. LOCATION		X    ---    O    ---    X
ELEV.	I.D.	0.3m		DESCRIPTION OF MATERIAL		10    30    50    70    90%	
(ft.)							
5			1		SILTY FINE SANDS AND SILTS (TAILINGS)		
					- light greenish grey		
					- dry to moist		
10			2				
15			3				
20			4				
25			5		- gradual darkening in colour		
30			6				
35			7		- sand, silt, grey to dark grey		
40			8				
45			9				
50			10		- dark grey, moist		

3/4" diam. PVC riser pipe

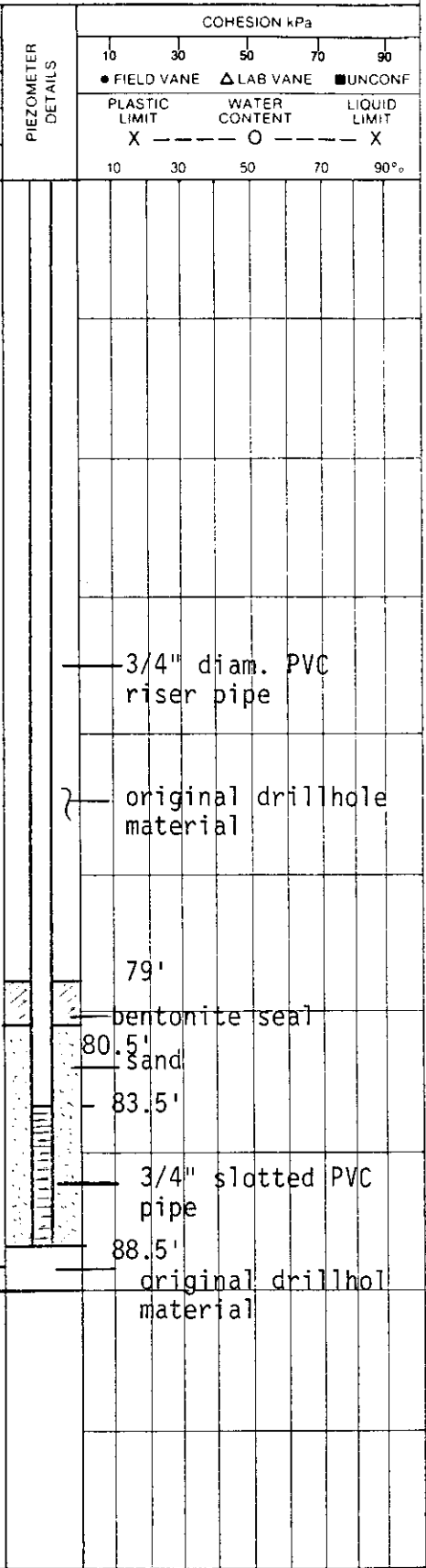


**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	Craigmont Mines
LOCATION	Merritt, B.C.
HOLE No.	AH 91-8
DATE	PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED	COHESION kPa	
SAMPLE DATA				DRILL TYPE	● FIELD VANE    ▲ LAB VANE    ■ UNCONF	
HAMMER MASS			kg	ELEVATION GROUND	PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT X    ---    O    ---    X	
DROP HEIGHT			m	CO-ORD. LOCATION	10    30    50    70    90%	
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO.	DESCRIPTION OF MATERIAL		
(ft.)						
55			11	- dark grey to black		
60			12	- black, high magnetic content		
65			13			
70			14			
75			15	- very moist		
80			16	- @ 78.5' silt, purple, very moist		
85			17	- sand, silt, black, very moist		
90			18	BOTTOM OF TAILINGS @ 89.5' DEPTH BOH @90 DEPTH Sand and Gravel - some pebbles - organics - black - moist		



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JOB No.	PB 5395 03
PROJECT	Craigmont Mines
LOCATION	Merritt B.C.
HOLE No.	AH 91-8
DATE	PLATE 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				February 1, 1991			10	30	50	70	90
HAMMER MASS				DRILL TYPE			● FIELD VANE    ▲ LAB VANE    ■ UNCONF				
DROPP HEIGHT				Solid 5" Augers			PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT X    ---    O    ---    X				
DEPTH	O.D.	BLOWS	SYMBOL	ELEVATION GROUND		DESCRIPTION OF MATERIAL					
ELEV.	ID	0.3m		NO.	CO-ORD. LOCATION						
(ft.)						10	30	50	70	90%	
5			1	SILTY FINE SAND AND SILTS (TAILINGS)							
				- light greenish grey							
				- dry to moist							
10			2								
15			3								
20			4	- gradual darkening in colour							
25			5								
30			6	- silt, sand, grey, very moist							
			7								
35											
36.5			8	Bottom of Tailings @ 36.5' depth							
				Sand and Gravel							
				B.O.H. @ 40' DEPTH							
				- high organic content							
				- black							
				- moist							
				- grey from 38.5' down							
40											

3/4" diam. PVC riser pipe

original drillhole material

29" bentonite seal

31.5'

33' sand

3/4" slotted PVC Pipe

38' original drillhole material



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	CRAIGMONT MINES
LOCATION	MERRITT, B.C.
HOLE No.	AH 91-9
DATE	PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED <b>February 1, 1991</b>		PIEZOMETER DETAILS	COHESION kPa				
<b>SAMPLE DATA</b>				DRILL TYPE <b>SOLID 3/4" AUGERS</b>			10	30	50	70	90
HAMMER MASS <span style="float: right;">kg</span>				ELEVATION GROUND			● FIELD VANE    ▲ LAB VANE    ■ UNCONF.				
DROP HEIGHT <span style="float: right;">m</span>				CO-ORD. LOCATION			PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT
DEPTH ELEV	O.D. I.D.	BLOWS 0.3m	NO.	SYMBOL			X    ---    O    ---    X				
DESCRIPTION OF MATERIAL						10	30	50	70	90%	
<b>DETAILS OF PIEZOMETER INSTALLATION</b>  - 5 feet long 3/4" slotted PVC pipe wrapped in geosynthetic sock and sealed at the bottom used as piezometer tip.  - Hole backfilled with coarse sand to 1.5 feet above slotted pipe  - Bentonite pellets used for piezometer seal  - Rest of hole backfilled with original material (fine sands and silts)											



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	CRAIGMONT MINES
LOCATION	MERRITT, B.C.
HOLE No.	AH91-9
DATE	PLATE 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS		COHESION kPa						
SAMPLE DATA				DRILL TYPE				10	30	50	70	90		
HAMMER MASS				ELEVATION GROUND		● FIELD VANE    ▲ LAB VANE    ■ UNCONF								
DROP HEIGHT				CO-ORD. LOCATION		PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT X    ---    O    ---    X								
DEPTH	O.D.	BLOWS	NO.	SYMBOL	DESCRIPTION OF MATERIAL					10	30	50	70	90%
ELEV.	I.D.	0.3m								PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
(feet)					SILTY FINE SANDS AND GRAVEL (TAILINGS) - greenish grey - dry to moist - slightly magnetic           - gradual darkening in colour           - sand, silt, dark grey, magnetic									
5			1											
			2											
10			3											
			4											
15			5											
			6											
20			7											
			8											
25			9											
			10											
30														
35														
40														
45														
50														



JOB No. PB 5395 03  
 PROJECT CRAIGMONT MINES  
 LOCATION MERRITT, B.C.  
 HOLE No. AH 91-10  
 DATE PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		COHESION kPa	
SAMPLE DATA				JANUARY 25, 1991		10 30 50 70 90	
HAMMER MASS				DRILL TYPE		● FIELD VANE    ▲ LAB VANE    ■ UNCONF	
DROPT HEIGHT				SOLID 5" AUGERS		PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT	
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO.	SYMBOL	DESCRIPTION OF MATERIAL	PIEZOMETER DETAILS	10 30 50 70 90%
(feet)							
53.5				11	sand, silt, dark grey, magnetic		
55					no recovery		
60				12	- sandy silt, very moist	3/4" diam. PVC riser pipe	
65				13		original drillhole material	
70				14			
73				16	- black, high magnetic content, layers of purple silt, very moist to wet		
75						bentonite seal	
77						sand	
82					BOTTOM OF TAILINGS @ 82' DEPTH SAND AND GRAVEL	3/4" slotted PVC pipe	
85					B.O.H. @ 85' DEPTH	original drillhole material	
					- some pebbles - high organics content - black		



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JOB No. PB 5395 03

PROJECT CRAIGMONT MINES

LOCATION MERRITT, B.C.

HOLE No. AH 91-10

DATE PLATE 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS		COHESION kPa				
SAMPLE DATA				JANUARY 25, 1991								
HAMMER MASS				SYMBOL	DRILL TYPE							
DROP HEIGHT					SOLID 5" AUGERS							
ELEVATION GROUND					CO-ORD. LOCATION							
DEPTH	O.D.	BLOWS	NO.	DESCRIPTION OF MATERIAL								
ELEV	I.D.	0.3m										
(feet)				<p style="text-align: center;">SILTY FINE SANDS AND SILTS (TAILINGS)</p> <p>- light greenish grey - dry to moist</p>           <p style="text-align: center;">- some bands of dark grey sand</p>           <p style="text-align: center;">- sand, silt, dark grey</p>								
5			1									
			2									
10			3									
			4									
15			5									
			6									
20			7									
			8									
25			9									
			10									
30												
35												
40												
45												
50												



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	CRAIGMONT MINES
LOCATION	MERRITT, B.C.
HOLE No.	AH91-11
DATE	PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		COHESION kPa	
SAMPLE DATA				SYMBOL	DRILL TYPE		10    30    50    70    90
HAMMER MASS					SOLID 5" AUGERS		• FIELD VANE    ▲ LAB VANE    ■ UNKNOWN
DROPP HEIGHT					ELEVATION GROUND		PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT
DEPTH	O.D.	BLOWS	NO.		CO ORD. LOCATION		X    O    X
ELEV	I.D.	0.3m				10    30    50    70    90	
				DESCRIPTION OF MATERIAL			
(feet)					- silt layer, very moist, grey		
55			11				
			12				
60					- sand, silt, dark grey to black		
			13				
65							
			14		- layer of lighter colour, dark brownish grey.		
70							
			15		- silt, very moist		
75					- 1 foot thick layer of brown silty sand		
			16		- sand, silt, black & purple high magnetite content		
80							
			17				
85					- sandy silt, dull grey less magnetite		
			18				
90					- sand, silt, black, high magnetite contact		
			19				
95					BOTTOM OF TAILING @ 95' DEPTH		
					SAND, SILT, SOME GRAVEL		
					- high organic content, black		
99							
100					B.O.H. @ 99' DEPTH		



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT

LOCATION

HOLE No. AH91-11

DATE

PLATE

2

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		COHESION kPa				
SAMPLE DATA				DRILL TYPE		10 30 50 70 90				
HAMMER MASS				ELEVATION GROUND		• FIELD VANE    ▲ LAB VANE    ■ UNCONFINED				
DROPP HEIGHT				CO-ORD. LOCATION		PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT X                                  O                                  X				
DEPTH	O.D.	BLOWS	NO.	SYMBOL	DESCRIPTION OF MATERIAL					
ELEV	ID	0.3m				10 30 50 70 90				
(feet)			1		SILTY FINE SAND AND SILTS (TAILINGS) - light greenish grey					
5			2							
10			3							
15			4							
20			5							
25			6		- gradual darkening in colour					
30			7		- some bands of dark grey sand between silt layers					
35			8							
40			9		- sand, silt, grey, moist					
45			10							
50										



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT CRAIGMONT MINES

LOCATION MERRITT, B.C.

HOLE No. AH91-12

DATE PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		COHESION kPa					
SAMPLE DATA				JANUARY 28, 1991		10 30 50 70 90					
HAMMER MASS				DRILL TYPE		• FIELD VANE    Δ LAB VANE    ■ PLACI					
DROP HEIGHT				SOLID 5" AUGERS		PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT					
				ELEVATION GROUND		X    O    X					
				CO-ORD LOCATION		10 30 50 70 90					
DEPTH	O.D.	BLOWS	SYMBOL	DESCRIPTION OF MATERIAL				PIEZOMETER DETAILS			
ELEV	ID	0.3m									
(feet)				- sand, silt, dark grey, moist - silt layer, dull grey, very moist  - sand, silt, brownish black, moist  - sand, silt, dark grey, very moist  - @ 77' sand, silt, purple black, high magnetite content, moist  - very moist  BOTTOM OF TAILINGS @ 98' DEPTH (SAND AND GRAVEL) - high organic content, black							
55			11								
			12								
60											
			13								
65											
			14								
70											
			15								
75											
			16								
80											
			17								
85											
			18								
90											
			19								
95											
			20								
98											
100											

B.U.H. @ 98.5' DEPTH



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT

LOCATION

HOLE No. AH91-12

DATE

PLATE

2

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION (kPa)			
SAMPLE DATA				DRILL TYPE			10      30      50      70      90 • FIELD VANE    Δ LAB VANE    ■ UNCONF.			
HAMMER MASS				ELEVATION GROUND			PLASTIC      WATER      LIQUID LIMIT      CONTENT      LIMIT X      ---      O      ---      X			
DROP HEIGHT				CO-ORD LOCATION			10      30      50      70      90			
DEPTH	O.D.	BLOWS	NO.	DESCRIPTION OF MATERIAL						
ELEV	I.D.	0.3m								
(feet)										
5			1	SILTY FINE SAND AND SILTS (TAILINGS) - light greenish grey - dry to moist - slightly magnetic						
			2							
10			3							
			4							
15			5							
			6	- sand, silt, grey						
20			7							
			8	- dark grey						
25			9							
			10							
30										
35										
40										
45										
50										



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT CRAIGMONT MINES

LOCATION MERRITT, B.C.

HOLE No. AH91-13

DATE PLATE 1



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		COHESION kPa						
SAMPLE DATA				DRILL TYPE		10 30 50 70 90						
HAMMER MASS			SYMBOL	ELEVATION GROUND		<input type="checkbox"/> FIELD VANE <input type="checkbox"/> LAB VANE <input type="checkbox"/> UNCON						
DROP HEIGHT				CO-ORD LOCATION		PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT X                                  O                                  X						
DEPTH	O.D.	BLOWS	NO.	DESCRIPTION OF MATERIAL				10	30	50	70	90
ELEV.	I.D.	0.3m						PIEZOMETER DETAILS				
(feet)			11	- silt layer, dull grey, very moist								
55			12	- sand, silt, dark grey								
60			13	- dark grey to black								
65			14	- layer of brownish grey sand								
70			15	- dark grey, moist								
75			16	- black, high magnetite content, layers of purple silt								
80			17									
85			18									
90			19									
95				BOTTOM OF TAILINGS @ 95' DEPTH								
				SAND AND GRAVEL - high organic content, wood chips - black								
100				B.O.H. @ 100' DEPTH								



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CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT CRAIGMONT MINES

LOCATION MERRITT, B.C.

HOLE No. AH91-13

DATE

PLATE

2

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				DRILL TYPE			10	30	50	70	90
HAMMER MASS			kg	ELEVATION GROUND			● FIELD VANE		▲ LAB VANE		■ UNCONF
DROP HEIGHT			m	CO-ORD LOCATION			PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT
DEPTH ELEV	O.D. I.D.	BLOWS 0.3m	NO.	DESCRIPTION OF MATERIAL			X		O		X
(feet)				SILTY FINE SANDS AND SILTS (TAILINGS) - light greenish grey - dry to moist - layered							
5			1								
			2								
10			3								
			4								
20			5								
			6								
25			7								
			8								
30			9								
			10								
35				- gradual darkening in colour							
40				- dark grey, moist, magnetic							
45											
50											

3/4" diam. PVC riser pipe



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	CRAIGMONT MINES
LOCATION	MERRITT, B.C.
HOLE No.	AH91-14
DATE	PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		COHESION kPa	
SAMPLE DATA				JANUARY 30, 1991		10 30 50 70 90	
HAMMER MASS				DRILL TYPE		● FIELD VANE    ▲ LAB VANE    ■ UNCON.	
DROP HEIGHT				SOLID 5" AUGERS		PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT	
SYMBOL				ELEVATION GROUND		X    O    X	
DEPTH				COORD. LOCATION		10 30 50 70 90	
DEPTH	O.D.	BLOWS	NO.	DESCRIPTION OF MATERIAL			
ELEV	ID	0.3m					
(feet)			11	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>silt, dark grey, very moist semi plastic</p> <p>sand, silt, dark grey</p> <p>- sand, silt, black, purple high magnetite content</p> <p>bottom of tailings @ 92½' Depth</p> <p>SAND AND GRAVEL - high organics content - black, moist</p> <p>B.O.H. @ 97½' DEPTH</p> </div> <div style="width: 45%;"> <p>PIEZOMETER DETAILS</p> <p>3/4" diam. PVC riser pipe</p> <p>original drillhole material</p> <p>87.5 bentonite seal</p> <p>89 sand</p> <p>91</p> <p>3/4" slotted PVC pi</p> <p>96</p> </div> </div>			
55			12				
60			13				
65			14				
70			15				
75			16				
80			17				
85			18				
90			19				
92½							
95							
97½							



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	CRAIGMONT MINES
LOCATION	MERRITT, B.C.
HOLE No.	AH91-14
DATE	PLATE 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa												
SAMPLE DATA				DRILL TYPE			10	30	50	70	90								
HAMMER MASS		kg		ELEVATION GROUND			● FIELD VANE    ▲ LAB VANE    ■ UNCONFINED												
DROP HEIGHT				CO-ORD. LOCATION			PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT								
DEPTH	O.D.	BLOWS	NO.	DESCRIPTION OF MATERIAL															
ELEV.	I.D.	0.3m		X                      O                      X															
				10	30	50	70	90											
(feet)				SILTY FINE SANDS AND SILTS - light greenish grey - dry to moist - slightly magnetic - layered with variations in silt contact throughout - gradually darkening in colour - some layers of dark grey to black sand and silt.															
5			1																
10			2																
15			3																
20			4																
25			5																
30			6																
35			7																
40			8																
45			9																
50			10																



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT CRAIGMONT MINES

LOCATION MERRITT, B.C.

HOLE No. AH91-15

DATE

PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED <b>JANUARY 24, 1991</b>		PIEZOMETER DETAILS	COHESION $kPa$				
SAMPLE DATA				DRILL TYPE <b>5" SOLID AUGERS</b>			10	30	50	70	90
HAMMER MASS			kg	ELEVATION GROUND			• FIELD VANE    ▲ LAB VANE    ■ UNCONF.				
DROP HEIGHT				CO-ORD. LOCATION			PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT
DEPTH ELEV	O.D. I.D.	BLOWS 0.3m	NO	DESCRIPTION OF MATERIAL			X	O	X	X	X
(feet)											
55			11	SILTY FINE SANDS AND SILTS (TAILINGS)							
60			12	- silt, dull grey, very moist semi plastic							
65			13	- sand, silt, dark grey visible magnetite.							
70			14	- layers of lighter colour ands and silts							
75			15								
80			16								
85			17	- sand, silt, black to purple moist to very moist, high magnetite content							
90			18								
95			19								
100			20	- very moist to wet							



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JOB No. PB 5395 03

PROJECT CRAIGMONT MINES

LOCATION MERRITT, B.C.

HOLE No. AH91-15

DATE

PLATE 2

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				DRILL TYPE			10	30	50	70	90
HAMMER MASS		kg		ELEVATION GROUND			● FIELD VANE    ▲ LAB VANE    ■ UNCOR.				
DROP HEIGHT				CO-ORD. LOCATION			PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO	SYMBOL			X	---	O	---	X
DESCRIPTION OF MATERIAL						10	30	50	70	90	
(feet)											
102					bottom of tailings @ 102' depth						
105					SAND AND GRAVEL - some pebbles - moist						
110					B.O.H. @ 110' DEPTH						
					Note - depth of tailings approximate only. Due to hard drilling, material move up augers. No samples taken for last two feet.						



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB5395 03
PROJECT	CRAIGMONT MINES
LOCATION	MERRITT, B.C.
HOLE No.	AH 91-15
DATE	PLATE 3

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				January 23, 1991			10	30	50	70	90
HAMMER MASS		kg		DRILL TYPE			● FIELD VANE    ▲ LAB VANE    ■ UNCONFINED				
DROP HEIGHT		m		ELEVATION GROUND			PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT X                      O                      X				
DEPTH ELEV	O.D. I.D.	BLOWS 0.3m	NO.	CO-ORD LOCATION			10	30	50	70	90
				DESCRIPTION OF MATERIAL							
(ft)											
5			1	SILTY FINE SANDS AND SILTS (TAILINGS) - dry to moist - greenish grey - slightly moist							
10			2								
15			3	- silt layer, very moist, light greenish grey							
20			4								
25			5	- sand, silt, greenish grey some black sand							
30			6								
35			7	- alternating sand and silt layers							
40			8								
45			9	- moist							
50			10	- silty sand, dark grey							



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	Craigmont Mines
LOCATION	Merrit, B.C.
HOLE No.	AH91-16
DATE	PLATE 1 of 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED January 23, 1991		PIEZOMETER DETAILS	COHESION kPa						
SAMPLE DATA				SYMBOL	DRILL TYPE 5" Solid Augers		● FIELD VANE    ▲ LAB VANE    ■ UNCONFINED						
HAMMER MASS		kg			ELEVATION GROUND		PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT		
DROP HEIGHT		m			CO-ORD LOCATION		X		O		X		
DEPTH	O.D.	BLOWS	NO		DESCRIPTION OF MATERIAL								
ELEV	I.D.	0.3m											
55			11	- very moist, dense									
60			12										
65			13	- high silt content, dark grey									
70			14										
75			15	- wet, dark grey to black									
77			16	<u>BOTTOM OF TAILINGS AT 76.5'</u> BOH at 77'									
80				SAND AND GRAVEL - some pebbles, organics									



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT Craigmont Mines

LOCATION Merrit, B.C.

HOLE No. AH91-16

DATE

PLATE 2 of 2

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED	JANUARY 21, 1991		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				DRILL TYPE	5" SOLID AUGERS			10	30	50	70	90
HAMMER MASS				ELEVATION GROUND				● FIELD VANE	▲ LAB VANE	■ UNCL.		
DROP HEIGHT				CO-ORD LOCATION				PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT		
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO.	DESCRIPTION OF MATERIAL				X	O	X		
(feet)												
5			1		SILTY FINE SANDS AND SILTS (TAILINGS)							
					- light greenish grey							
					- dry to moist							
					- slightly magnetic							
10			2									
15			3									
20			4									
22.5			5		No recovery							
25			6									
30			7									
35			8									
40			9									
45			10									
50												



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	CRAIGMONT MINES
LOCATION	MERRITT, B.C.
HOLE No.	AH 91-17
DATE	PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				DRILL TYPE			10	30	50	70	90
HAMMER MASS				ELEVATION GROUND			● FIELD VANE    ▲ LAB VANE    ■ UNCONFINED PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT X    ---    O    ---    X				
DROP HEIGHT				CO. ORD. LOCATION							
DEPTH	O.D.	BLOWS	NO.	SYMBOL	DESCRIPTION OF MATERIAL						
ELEV.	I.D.	0.3m									
(feet)											
55			11		- silty sand, dark grey. moist to very moist						
60			12		- Wet, dark grey to black						
62			13		bottom of Tailings @ 62' Depth						
65					SAND AND GRAVEL						
68					- some pebbles						
70					- clean, brown						
					- wet B.O.H. @ 68' DEPTH						



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03  
 PROJECT CRAIGMONT MINES  
 LOCATION MERRITT, B.C.  
 HOLE No. AH 91-17  
 DATE PLATE 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		SYMBOL	DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa						
SAMPLE DATA				DRILL TYPE			JANUARY 25, 1991									
HAMMER MASS				5" SOLID AUGERS			ELEVATION GROUND									
DROP HEIGHT				CO-ORD LOCATION			DESCRIPTION OF MATERIAL									
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO													
(feet)																
5			1	<p style="text-align: center;">SILTY FINE SANDS AND SILTS (TAILINGS)</p> <ul style="list-style-type: none"> <li>- light greenish grey</li> <li>- dry to moist</li> <li>- slightly magnetic</li> </ul>												
10			2													
15			3													
20			4													
25			5													
30			6					<ul style="list-style-type: none"> <li>- gradual darkening in colour</li> </ul>								
35			7													
40			8					<ul style="list-style-type: none"> <li>- some bends of visible magnetite</li> </ul>								
45			9													
50			10					<ul style="list-style-type: none"> <li>- sand, silt, dark grey, very moist, magnetic</li> </ul>								

3/4" diam. PVC riser pipe



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	CRAIGMONT MINES
LOCATION	MERRITT, B.C.
HOLE No.	AH 91-19
DATE	PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa							
SAMPLE DATA				DRILL TYPE			10	30	50	70	90			
HAMMER MASS			kg	5" SOLID AUGERS			● FIELD VANE    ▲ LAB VANE    ■ UNCERTAIN							
DROP HEIGHT				ELEVATION GROUND			PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT			
DEPTH	O.D.	BLOWS	NO.	SYMBOL	CO-ORD. LOCATION		X	O	X	10	30	50	70	90
ELEV.	I.D.	0.3m	m		DESCRIPTION OF MATERIAL									
(feet)			11		- sand, silt, black, moist									
55														
			12		- silt layers, very moist									
60														
			13											
65														
			14		- sand, silt, black, high magnetite content									
70														
			15											
75														
			16		- silt, purple, black, very moist									
80														
			17		- sand, silt, alternating black and purple layers, very moist to wet, high magnetite content									
85														
			18											
90														
			19											
95														
			20											
100														

3/4" diam. PVC riser pipe

original drillhole material

bentonite seal

sand

3/4" slotted PVC pipe



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. pg 5395 03  
 PROJECT CRAIGMONT MINES  
 LOCATION MERRITT, B.C.  
 HOLE No. AH 91-19  
 DATE PLATE 2











# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa														
SAMPLE DATA				DRILL TYPE			10    30    50    70    90 ● FIELD VANE    ▲ LAB VANE    ■ UNCONF. ○ PLASTIC LIMIT    ○ WATER CONTENT    ○ LIQUID LIMIT														
HAMMER MASS				ELEVATION GROUND			X    O    X 10    30    50    70    90														
DROP HEIGHT				COORD. LOCATION			DESCRIPTION OF MATERIAL														
DEPTH	O.D.	BLOWS	NO.	SYMBOL																	
ELEV.	I.D.	0.3m																			
(ft.)																					
5			1																		
10			2																		
15			3																		
20			4																		
25			5																		
30			6																		
35			7																		
40			8																		
45			9																		
50			10																		



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

KLOHN LEONOFF

JOB No. PB 5395 03	
PROJECT	Craigmont Mines
LOCATION	Merritt, B.C.
HOLE No.	AH 91-21
DATE	PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa													
SAMPLE DATA				January 29, 1991			10	30	50	70	90									
HAMMER MASS				DRILL TYPE			● FIELD VANE    ▲ LAB VANE    ■ UNCON- PLASTIC    WATER    LIQ. ID LIMIT    CONTENT    LIM.    T													
DROP HEIGHT				ELEVATION GROUND			X    O    X 10    30    50    70    90													
DEPTH	O.D.	BLOWS	NO.	SYMBOL	DESCRIPTION OF MATERIAL															
ELEV.	I.D.	0.3m																		
(ft)																				
55			11																	
60			12																	
65			13		- sand, silt, dark grey, moist, visible magnetite															
70			14																	
75			15																	
80			16																	
85			17		- black with layers of silt, purple, high magnetite content															
90			18																	
95			19																	
100			20																	



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT Craigmont Mines

LOCATION Merritt B.C.

HOLE No. AH 91-21

DATE PLATE 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		COHESION kPa	
SAMPLE DATA				DRILL TYPE		10 30 50 70 90	
HAMMER MASS				ELEVATION GROUND		● FIELD VANE    ▲ LAB VANE    ■ UNCON.	
DROP HEIGHT				CO-ORD. LOCATION		PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT	
DEPTH	O.D.	BLOWS	NO	SYMBOL	DESCRIPTION OF MATERIAL	X    O    X	
ELEV.	I.D.	0.3m				10 30 50 70 90	
(ft)					SILTY FINE SANDS AND GRAVEL (TAILINGS)		
5			1		- light greenish grey - dry to moist		
10			2				
15			3				
20			4				
25			5				
30			6		- layers of dark grey sand and silt, some visible magnetite		
35			7		- sand, silt, dark grey		
40			8				
45			9				
50			10				



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

KLOHN LEONOFF

JOB No.	PB 5395 03
PROJECT	Craigmont Mines
LOCATION	Merritt, B.C.
HOLE No.	AH 91-22
DATE	PLATE 1

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		COHESION kPa	
SAMPLE DATA				DRILL TYPE		10 30 50 70 90	
HAMMER MASS				ELEVATION GROUND		● FIELD VANE    ▲ LAB VANE    ■ UNCON.	
DROP HEIGHT				CO-ORD. LOCATION		PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT	
DEPTH	O.D.	BLOWS	NO	SYMBOL	DESCRIPTION OF MATERIAL	X    O    X	
ELEV	ID	0.3m				10 30 50 70 90	
(ft)					- sand, silt, dark grey, moist, visible magnetite		
55			11				
60			12				
65			13				
70			14				
75			15		-silt, purple to black, moist		
80			16				
85			17		- sand, silt, black, layers of purple silt, high magnetite content		
90			18				
95			19		- silt layer, dark grey, very moist		
100			20				



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No.	PB 5395 03
PROJECT	Craigmont Mines
LOCATION	Merritt, B.C.
HOLE No.	AH 91-22
DATE	PLATE 2







# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION (KPa)														
SAMPLE DATA				DRILL TYPE			● FIELD VANE    ▲ LAB VANE    ■ UNKNOWN PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT X    ---    O    ---    X														
HAMMER MASS		DROP HEIGHT		SYMBOL	ELEVATION GROUND		10    30    50    70    90 10    30    50    70    90														
DEPTH		O.D.			COORD. LOCATION																
ELEV.	I.D.	BLOWS	NO.		DESCRIPTION OF MATERIAL																
(ft)																					
55																					
60																					
65																					
70																					
75																					
80																					
85																					
90																					
95																					
100																					



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03	pipe
PROJECT	
LOCATION	
HOLE No. AH 91-23	
DATE	PLATE 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED January 23, 1991		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				DRILL TYPE 5" Solid Augers			10	30	50	70	90
HAMMER MASS		kg		ELEVATION GROUND			● FIELD VANE    ▲ LAB VANE    ■ UNKNOWN ○ PLASTIC LIMIT    ○ WATER CONTENT    ○ LIQUID LIMIT				
DROP HEIGHT				CO-ORD LOCATION			X	O	X	X	X
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO.	DESCRIPTION OF MATERIAL							
(ft)				SILTY FINE SANDS AND SILTS (TAILINGS)  - greenish grey - dry to moist - slightly magnetic         - silt layer, grey, moist         - gradual darkening in colour         - sand, silt, dark grey, moist, visible magnetite							
5			1								
10			2								
15			3								
20			4								
25			5								
30			6								
35			7								
40			8								
45			9								
50			10								



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT Craigmont Mines

LOCATION

HOLE No. AH91-24

DATE

PLATE 1 of 3





# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				DRILL TYPE			10	30	50	70	90
HAMMER MASS				ELEVATION GROUND			● FIELD VANE    ▲ LAB VANE    ■ UNC.				
DROP HEIGHT				CO-ORD LOCATION			PLASTIC LIMIT X ---		WATER CONTENT O ---		LIQUID LIMIT X ---
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO	DESCRIPTION OF MATERIAL			10	30	50	70	90
5			1	SILTY FINE SANDS AND SILTS (TAILINGS) - light greenish grey - dry to moist - slightly magnetic							
10			2								
15			3								
20			4			- gradual darkening in colour					
25			5								
30			6								
35			7								
40			8								
45			9	- sand, silt, dark grey							
50			10								



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 539503

PROJECT

LOCATION

HOLE No. AH91-25

DATE

PLATE 1 of 3

# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				January 22, 1991			10	30	50	70	90
HAMMER MASS				DRILL TYPE			● FIELD VANE    ▲ LAB VANE    ■ UNKNOWN				
DROPP HEIGHT				ELEVATION GROUND			PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT				
DEPTH	O.D.	BLOWS	NO	CO-ORD LOCATION			X	O	X		
ELEV	ID.	0.3m		DESCRIPTION OF MATERIAL		10	30	50	70	90	
(ft)			11	- sand, silt, dark grey							
55			12								
60			13	- dark grey to black, visible magnetite							
65			14								
70			15								
75			16								
80			17	- black, high magnetite content							
85			18								
90			19								
95			20								
100											



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT Craigmont Mines

LOCATION Merrit, B.C.

HOLE No. AH91-25

DATE

PLATE 2 of 3





# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED February 1, 1991		PIEZOMETER DETAILS	COHESION (kPa)					
SAMPLE DATA				SYMBOL	DRILL TYPE 5" Solid Augers		10	30	50	70	90	
HAMMER MASS kg					ELEVATION GROUND		● FIELD VANE	▲ LAB VANE	■ UNCON.			
DROP HEIGHT m					COORD. LOCATION		PLASTIC LIMIT	WATER CONTENT	LIQUID LIMIT			
DEPTH ELEV (ft)	O.D. I.D.	BLOWS 0.3m	NO		DESCRIPTION OF MATERIAL		X	○	X			
						10	30	50	70	90		
5			1	SILTY FINE SANDS AND SILTS (TAILINGS) - light greenish grey - dry to moist								
10		2										
15		3										
20		4		- layers of dark grey silts and sand alternating with lighter colour silts								
25		5										
30		6		- black silt and sand, bands of purple silt, high magnetite content, moist								
35		7										
40		8										
45		9										
50		10										



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT Craigmont Mines

LOCATION Merrit, B.C.

HOLE No. AH91-26

DATE

PLATE 1 of 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED February 1, 1991		PIEZOMETER DETAILS	COHESION kPa								
SAMPLE DATA				DRILL TYPE 5" Solid Augers			10	30	50	70	90				
HAMMER MASS kg				SYMBOL	ELEVATION GROUND		● FIELD VANE    ▲ LAB VANE    ■ UNCON.								
DROP HEIGHT m					CO-ORD LOCATION		PLASTIC LIMIT		WATER CONTENT		LIQUID LIMIT				
DEPTH	O.D.	BLOWS	NO.		DESCRIPTION OF MATERIAL										
ELEV.	I.D.	0.3m													
5			1	SILTY FINE SANDS AND SILTS (TAILINGS) - light greenish grey - dry to moist  - dark grey, moist  - dark grey to black, layers of purple silt, high magnetite content, moist											
10			2												
15			3												
20			4												
25			5												
30			6												
35			7												
40			8												
45			9												
50			10												



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03

PROJECT Craigmont Mines

LOCATION Merrit, B.C.

HOLE No. AH91-27

DATE

PLATE 1 of 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED February 1, 1991		PIEZOMETER DETAILS	COHESION kPa					
SAMPLE DATA				SYMBOL	DRILL TYPE 5" Solid Auger		10    30    50    70    90 ● FIELD VANE    ▲ LAB VANE    ■ UNCON-					
HAMMER MASS kg					ELEVATION GROUND		PLASTIC LIMIT    WATER CONTENT    LIQUID LIMIT X    ---    O    ---    X					
DROP HEIGHT m					CO-ORD LOCATION		10    30    50    70    90					
DEPTH ELEV.	O.D. I.D.	BLOWS 0.3m	NO.		DESCRIPTION OF MATERIAL							
5			1	SILTY FINE SANDS AND SILTS (TAILINGS) - light greenish grey - dry to moist  - silt, sand, grey to dark grey  - 1 foot thick layer of brown silt  - silt, sand, dark grey to brownish grey  - black, high magnetite content, moist to very moist								
10			2									
15			3									
20			4									
25			5									
30			6									
35			7									
40			8									
45			9									
50			10									



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

JOB No. PB 5395 03  
 PROJECT Craigmont Mines  
 LOCATION Merrit, B.C.  
 HOLE No. AH91-28  
 DATE PLATE 1 of 2



# TEST HOLE LOG

VERTICAL SCALE				DATE DRILLED February 1, 1991		PIEZOMETER DETAILS	COHESION kPa				
SAMPLE DATA				DRILL TYPE 5" Solid Augers			10      30      50      70      90 ● FIELD VANE    ▲ LAB VANE    ■ UNCOND.				
HAMMER MASS                      kg				ELEVATION GROUND			PLASTIC                      WATER                      LIQUID LIMIT                      CONTENT                      LIMIT X                      O                      X				
DROP HEIGHT                      m				CO-ORD. LOCATION			10      30      50      70      90				
DEPTH	O.D.	BLOWS	NO.	SYMBOL			DESCRIPTION OF MATERIAL				
ELEV.	I.D.	0.3m									
5			1			SILTY FINE SANDS AND SILTS - greenish grey - dry					
10			2								
15			3			- sand, silt, grey					
20			4			- dark grey					
25			5								
30			6			- alternating layers of dark grey and silt with layers of brownish grey silt					
35			7			- silt layer, very moist					
40			8			- some dark grey sand layers					
41						Bottom of Tailings at 40' Depth					
						BOH at 41' DEPTH SAND AND GRAVEL - brownish black - moist					



**KLOHN LEONOFF**  
CONSULTING ENGINEERS

KLOHN LEONOFF

JOB No. PB 5395 03

PROJECT Craigmont Mines

LOCATION Merrit, B.C.

HOLE No. AH91-29

DATE

PLATE 1 of 1



Table I.1 - Assay Results From 1991 Samples

HOLE NO.	DEPTH (metres)		ASSAY (% MAG)
	FROM	TO	
AH91-01	6.10	7.62	6.8
AH91-03	6.10	7.62	4.4
AH91-02	0.00	1.52	8.1
AH91-02	1.52	3.05	7.2
AH91-02	3.05	4.57	4.5
AH91-02	4.57	6.10	5.5
AH91-02	6.10	7.62	6.6
AH91-02	7.62	9.14	10.5
AH91-02	9.14	10.67	9.8
AH91-02	10.67	12.19	12.1
AH91-02	12.19	13.72	10.6
AH91-02	13.72	15.24	10.7
AH91-02	15.24	16.76	9.6
AH91-02	16.76	18.29	9.7
AH91-02	18.29	19.81	5.0
AH91-04B	0.00	1.52	6.9
AH91-04B	1.52	3.05	5.9
AH91-04B	3.05	4.57	3.9
AH91-04B	4.57	6.10	4.7
AH91-04B	6.10	7.62	4.7
AH91-04B	7.62	9.14	4.0
AH91-04B	9.14	10.67	6.0
AH91-04B	10.67	12.19	7.5
AH91-04B	12.19	13.72	7.7
AH91-04B	13.72	15.24	8.7
AH91-04B	15.24	16.76	12.4
AH91-04B	16.76	18.29	11.7
AH91-04B	18.29	19.81	9.0
AH91-04B	19.81	21.34	6.8
AH91-04B	21.34	22.86	8.9
AH91-04B	22.86	24.38	5.6
AH91-04B	24.38	25.91	2.8
AH91-04B	25.91	27.43	13.6
AH91-04A	1.52	3.05	6.1
AH91-04A	3.05	4.57	3.6
AH91-04A	4.57	6.10	5.4
AH91-04A	6.10	7.62	5.6
AH91-04A	7.62	9.14	4.2
AH91-04A	9.14	10.67	5.9
AH91-04A	10.67	12.19	8.7
AH91-04A	12.19	13.72	8.9
AH91-04A	13.72	15.24	7.4
AH91-04A	15.24	16.76	14.0
AH91-04A	16.76	18.29	12.8
AH91-04A	18.29	19.81	14.0
AH91-04A	19.81	21.34	6.6
AH91-04A	21.34	22.86	11.0
AH91-04A	22.86	24.38	8.6
AH91-04A	24.38	25.91	3.0
AH91-04A	25.91	27.43	18.8
AH91-04A	27.43	28.96	10.3

HOLE NO.	DEPTH (metres)		ASSAY (% MAG)
	FROM	TO	
AH91-05	6.10	7.62	7.1
AH91-05	16.76	18.29	12.4
AH91-05	24.38	25.91	12.7
AH91-06	0.00	1.52	7.9
AH91-06	1.52	3.05	6.3
AH91-06	3.05	4.57	5.4
AH91-06	4.57	6.10	4.6
AH91-06	6.10	7.62	5.7
AH91-06	7.62	9.14	4.5
AH91-06	9.14	10.67	5.9
AH91-06	10.67	12.19	6.2
AH91-06	12.19	13.72	7.0
AH91-06	13.72	15.24	5.5
AH91-06	15.24	16.76	7.8
AH91-06	16.76	18.29	11.9
AH91-06	18.29	19.81	9.2
AH91-06	19.81	21.34	6.6
AH91-06	21.34	22.86	8.8
AH91-06	22.86	24.38	5.4
AH91-06	24.38	25.91	8.0
AH91-06	25.91	27.43	16.8
AH91-06	27.43	28.96	14.0
AH91-07	6.10	7.62	5.5
AH91-07	16.76	18.29	7.7
AH91-07	24.38	25.91	8.3
AH91-08	0.00	1.52	7.4
AH91-08	1.52	3.05	5.0
AH91-08	3.05	4.57	4.7
AH91-08	4.57	6.10	5.0
AH91-08	6.10	7.62	5.6
AH91-08	7.62	9.14	3.5
AH91-08	9.14	10.67	5.2
AH91-08	10.67	12.19	5.9
AH91-08	12.19	13.72	8.1
AH91-08	13.72	15.24	7.8
AH91-08	15.24	16.76	9.0
AH91-08	16.76	18.29	14.0
AH91-08	18.29	19.81	20.4
AH91-08	19.81	21.34	15.5
AH91-08	21.34	22.86	6.7
AH91-08	22.86	24.38	7.4
AH91-08	24.38	25.91	5.8
AH91-08	25.91	27.43	10.6
AH91-09	6.10	7.62	6.0
AH91-10	6.10	7.62	5.2
AH91-10	16.76	18.29	10.5
AH91-10	24.38	25.91	4.0
AH91-11	6.10	7.62	6.7
AH91-11	16.76	18.29	11.4
AH91-11	24.38	25.91	5.3

Note: Samples assayed by BACON DONALDSON & ASSOCIATES LTD., Richmond, B.C.

Table I.1 - Assay Results From 1991 Samples

HOLE NO.	DEPTH (metres)		ASSAY (% MAG)
	FROM	TO	
AH91-12	6.10	7.62	6.0
AH91-12	16.76	18.29	11.3
AH91-12	24.38	25.91	3.1
AH91-13	6.10	7.62	5.8
AH91-13	16.76	18.29	9.8
AH91-13	24.38	25.91	6.3
AH91-14	6.10	7.62	5.8
AH91-14	16.76	18.29	9.9
AH91-14	24.38	25.91	5.5
AH91-15	6.10	7.62	6.8
AH91-15	16.76	18.29	9.8
AH91-15	24.38	25.91	6.9
AH91-16	6.10	7.62	5.9
AH91-16	16.76	18.29	15.8
AH91-17	0.00	1.52	9.5
AH91-17	1.52	3.05	6.8
AH91-17	3.05	4.57	4.2
AH91-17	4.57	6.10	4.3
AH91-17	6.10	7.62	6.0
AH91-17	7.62	9.14	4.7
AH91-17	9.14	10.67	5.1
AH91-17	10.67	12.19	7.8
AH91-17	12.19	13.72	8.9
AH91-17	13.72	15.24	9.7
AH91-17	15.24	16.76	11.1
AH91-17	16.76	18.29	10.3
AH91-17	18.29	19.81	8.4
AH91-19	0.00	1.52	7.7
AH91-19	1.52	3.05	7.0
AH91-19	3.05	4.57	5.8
AH91-19	4.57	6.10	7.7
AH91-19	6.10	7.62	4.5
AH91-19	7.62	9.14	4.6
AH91-19	9.14	10.67	5.2
AH91-19	10.67	12.19	7.4
AH91-19	12.19	13.72	7.2
AH91-19	13.72	15.24	9.9
AH91-19	15.24	16.76	16.1
AH91-19	16.76	18.29	11.8
AH91-19	18.29	19.81	9.6
AH91-19	19.81	21.34	9.8
AH91-19	21.34	22.86	10.5
AH91-19	22.86	24.38	5.9
AH91-19	24.38	25.91	3.9
AH91-19	25.91	27.43	4.8
AH91-19	27.43	28.96	15.2
AH91-19	28.96	30.48	11.2
AH91-19	30.48	32.00	14.7
AH91-20	6.10	7.62	4.0
AH91-20	16.76	18.29	15.0
AH91-20	24.38	25.91	7.6

HOLE NO.	DEPTH (metres)		ASSAY (% MAG)
	FROM	TO	
AH91-21	6.10	7.62	6.9
AH91-21	16.76	18.29	14.3
AH91-21	24.38	25.91	7.3
AH91-22	0.00	1.52	7.7
AH91-22	1.52	3.05	6.2
AH91-22	3.05	4.57	5.1
AH91-22	4.57	6.10	4.4
AH91-22	6.10	7.62	7.0
AH91-22	7.62	9.14	6.7
AH91-22	9.14	10.67	7.2
AH91-22	10.67	12.19	8.5
AH91-22	12.19	13.72	8.7
AH91-22	13.72	15.24	8.4
AH91-22	15.24	16.76	13.8
AH91-22	16.76	18.29	12.6
AH91-22	18.29	19.81	13.6
AH91-22	19.81	21.34	11.8
AH91-22	21.34	22.86	9.6
AH91-22	22.86	24.38	8.2
AH91-22	24.38	25.91	9.3
AH91-22	25.91	27.43	4.5
AH91-22	27.43	28.96	9.9
AH91-22	28.96	30.48	11.5
AH91-22	30.48	32.00	14.1
AH91-23	6.10	7.62	7.5
AH91-23	16.76	18.29	10.4
AH91-23	24.38	25.91	7.9
AH91-24	0.00	1.52	8.1
AH91-24	1.52	3.05	5.3
AH91-24	3.05	4.57	5.3
AH91-24	4.57	6.10	4.6
AH91-24	6.10	7.62	7.0
AH91-24	7.62	9.14	3.0
AH91-24	9.14	10.67	5.3
AH91-24	10.67	12.19	6.7
AH91-24	12.19	13.72	6.9
AH91-24	13.72	15.24	8.7
AH91-24	15.24	16.76	11.5
AH91-24	16.76	18.29	9.9
AH91-24	18.29	19.81	11.9
AH91-24	19.81	21.34	9.9
AH91-24	21.34	22.86	8.4
AH91-24	22.86	24.38	7.9
AH91-24	24.38	25.91	7.7
AH91-24	25.91	27.43	3.0
AH91-24	27.43	28.96	15.2
AH91-24	28.96	30.48	12.2
AH91-24	30.48	32.00	11.8
AH91-25	6.10	7.62	4.3
AH91-25	16.76	18.29	10.8
AH91-25	24.38	25.91	5.5

Note: Samples assayed by BACON DONALDSON & ASSOCIATES LTD., Richmond, B.C.

Table I.1 - Assay Results From 1991 Samples

HOLE NO.	DEPTH (metres)		ASSAY (% MAG)
	FROM	TO	
AH91-26	1.52	3.05	13.5
AH91-26	3.05	4.57	11.4
AH91-26	4.57	6.10	10.1
AH91-26	6.10	7.62	8.7
AH91-26	7.62	9.14	8.2
AH91-26	9.14	10.67	4.1
AH91-26	10.67	12.19	2.1
AH91-26	12.19	13.72	6.5
AH91-26	13.72	15.24	12.0
AH91-26	15.24	16.76	10.1
AH91-27	0.00	1.52	9.7
AH91-27	1.52	3.05	12.6
AH91-27	3.05	4.57	11.9
AH91-27	4.57	6.10	10.0
AH91-27	6.10	7.62	9.9
AH91-27	7.62	9.14	9.9
AH91-27	9.14	10.67	11.6
AH91-27	10.67	12.19	2.8
AH91-27	12.19	13.72	9.6
AH91-27	13.72	15.24	12.8
AH91-27	15.24	16.76	13.4
AH91-27	16.76	18.29	13.2
AH91-28	6.10	7.62	11.4
AH91-28	9.14	10.67	7.8
AH91-28	15.24	16.76	3.6
AH91-29	4.57	6.10	13.0
AH91-29	7.62	9.14	11.4
AH91-29	13.72	15.24	10.6

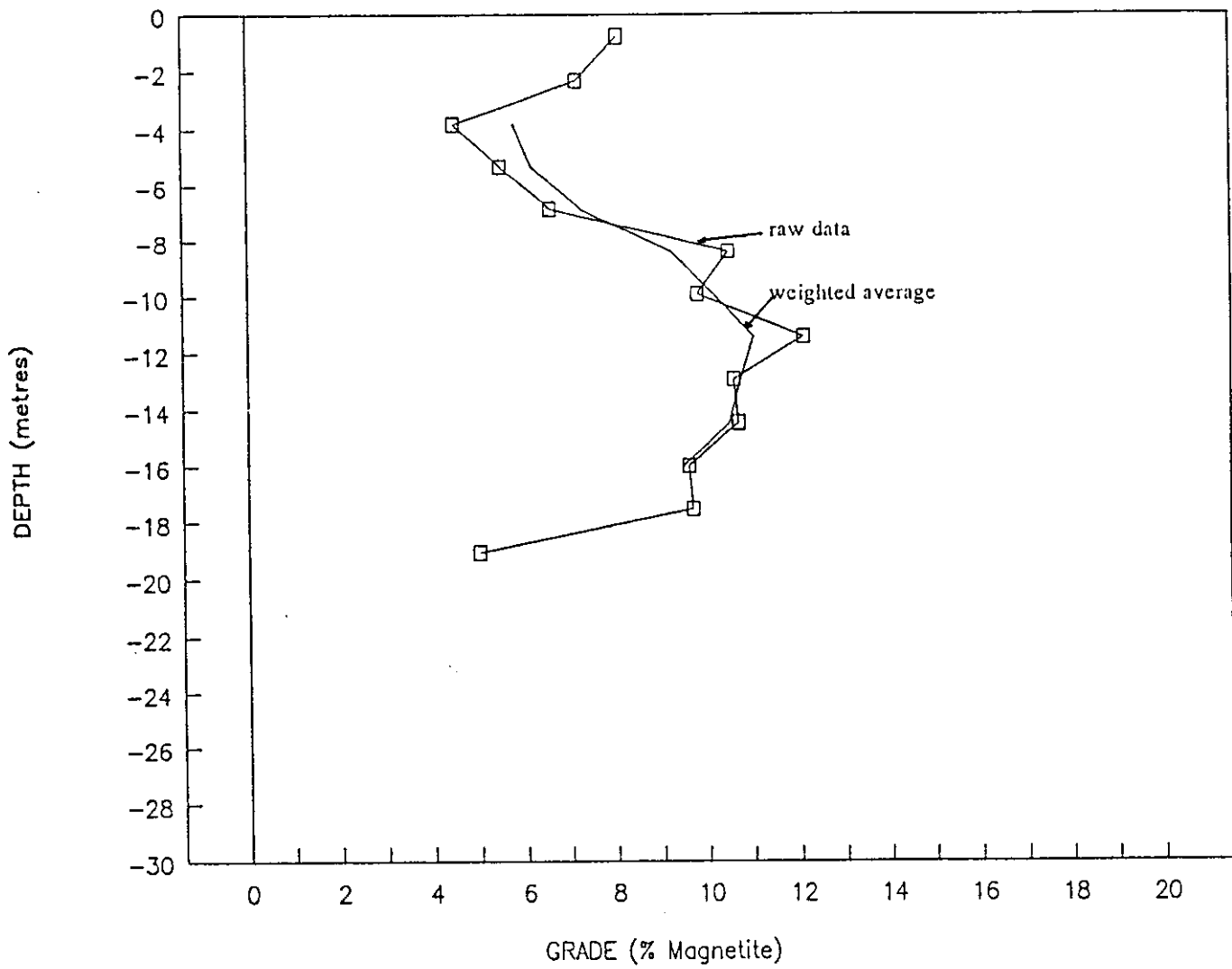
Note: Samples assayed by BACON DONALDSON & ASSOCIATES LTD., Richmond, B.C.

Table I.2 - Assay Results From 1989 Samples

HOLE NO.	DEPTH (metres)		ASSAY (% MAG)
	FROM	TO	
	AH-01	0.00	
AH-01	3.05	6.10	28.2
AH-01	6.10	7.62	16.4
AH-02	0.00	3.05	35.7
AH-02	3.05	6.10	35.8
AH-02	6.10	8.23	28.9
AH-03	0.00	3.05	2.2
AH-03	3.05	6.10	30.0
AH-03	6.10	9.14	20.8
AH-03	9.14	10.67	22.8
AH-04	0.00	3.05	9.3
AH-04	3.05	6.10	11.2
AH-04	6.10	9.14	12.0
AH-04	9.14	12.19	7.7
AH-04	12.19	15.24	8.7
AH-04	15.24	18.29	20.0
AH-04	18.29	21.34	28.0
AH-04	21.34	24.38	14.3
AH-05	0.00	3.05	12.0
AH-05	3.05	6.10	16.7
AH-05	6.10	9.14	13.0
AH-05	9.14	12.19	8.1
AH-05	12.19	15.24	5.5
AH-05	15.24	18.29	14.8
AH-05	18.29	21.34	12.6
AH-06	0.00	3.05	7.2
AH-06	3.05	6.10	11.9
AH-06	6.10	9.14	8.9
AH-06	9.14	12.19	8.3
AH-06	12.19	15.24	5.2
AH-06	15.24	18.29	15.1
AH-06	18.29	21.34	30.3
AH-06	21.34	24.38	11.3
AH-07	0.00	3.05	15.1
AH-07	3.05	6.10	12.9
AH-07	6.10	9.14	8.5
AH-07	9.14	12.19	8.2
AH-07	12.19	15.24	3.7
AH-07	15.24	18.29	13.0
AH-07	18.29	21.34	10.8
AH-07	21.34	24.38	6.9

HOLE NO.	DEPTH (metres)		ASSAY (% MAG)
	FROM	TO	
	AH-08	0.00	
AH-08	3.05	6.10	6.2
AH-08	6.10	9.14	14.9
AH-08	9.14	12.19	12.8
AH-08	12.19	15.24	5.2
AH-08	15.24	18.29	4.4
AH-08	18.29	21.34	9.2
AH-08	21.34	24.38	11.5
AH-08	24.38	27.43	9.3
AH-09	0.00	3.05	7.9
AH-09	3.05	6.10	7.3
AH-09	6.10	9.14	9.9
AH-09	9.14	12.19	10.1
AH-09	12.19	15.24	7.3
AH-09	15.24	18.29	10.1
AH-09	18.29	21.34	26.1
AH-09	21.34	24.38	29.8
AH-09	24.38	27.43	14.8
AH-10	0.00	3.05	5.3
AH-10	3.05	6.10	3.0
AH-10	6.10	9.14	6.8
AH-10	9.14	12.19	6.4
AH-10	13.72	15.24	7.3
AH-10	15.24	18.29	11.5
AH-10	18.29	21.34	14.6
AH-10	21.34	24.38	10.8
AH-10	24.38	27.43	7.6
AH-10	27.43	30.48	5.4
AH-10	30.48	33.53	13.8

Note: Results From SEARCHLIGHT CONSULTANTS INC., 1989



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SCALE



**KLOHN LEONOFF LTD.**

PROJECT

MINE PLAN

TITLE

ASSAY RESULTS  
AH91-02

CLIENT:

CRAIGMONT MINES

DATE OF ISSUE

12 SEPT 91

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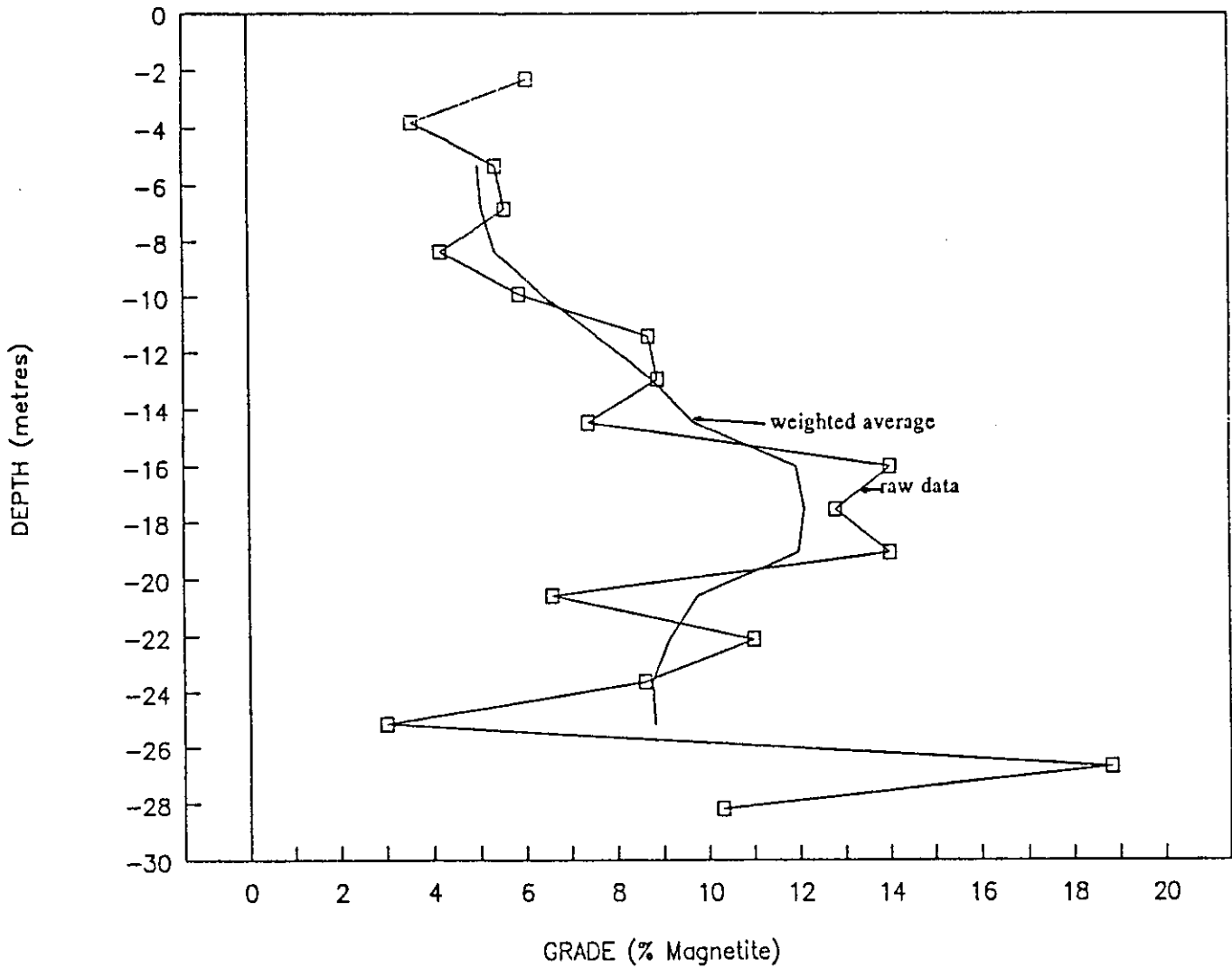
PROJECT No.

PB5395 02

DWG. No.

FIG. I-1

REV.



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SCALE



**KLOHN LEONOFF LTD.**

PROJECT

**MINE PLAN**

TITLE

**ASSAY RESULTS  
AH91-04A**

CLIENT:

**CRAIGMONT MINES**

DATE OF ISSUE

12 SEPT 91

PROJECT No.

**PB 5395 02**

DWG. No.

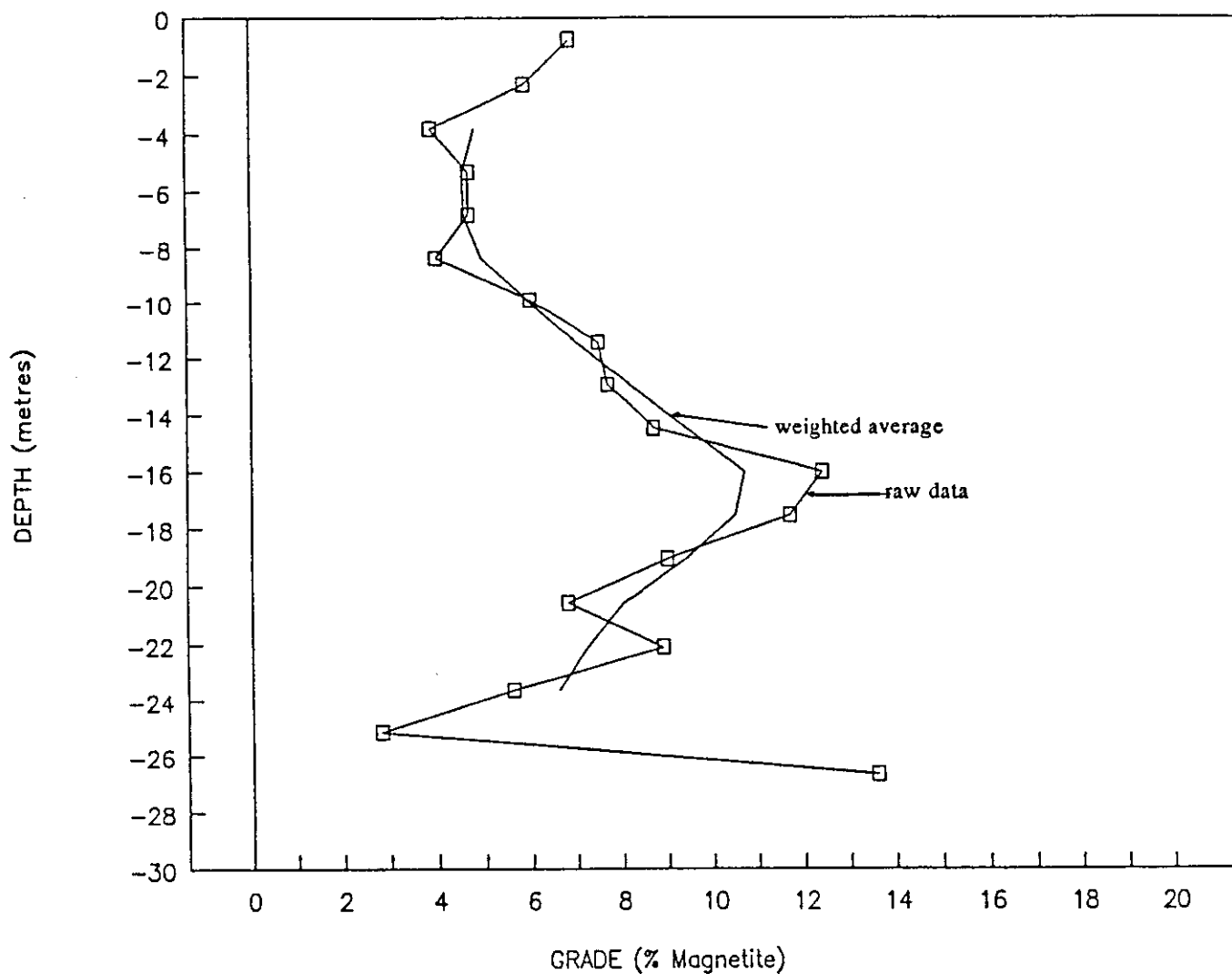
**FIG. I-2**

REV.

APPROVED

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SCALE



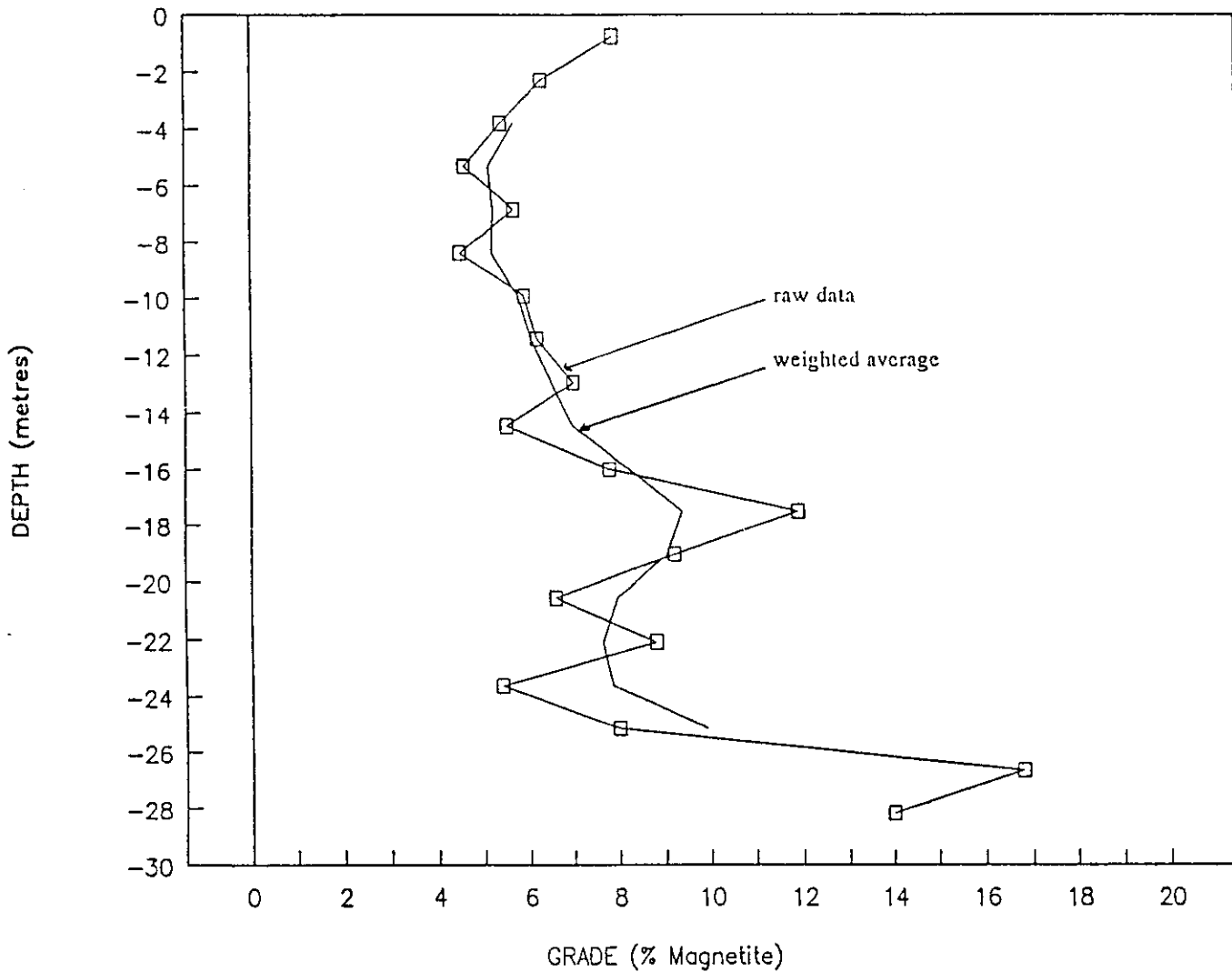
**KLOHN LEONOFF LTD.**

PROJECT		MINE PLAN		
TITLE		ASSAY RESULTS AH91-04B		
DATE OF ISSUE	PROJECT No.	DWG. No.	REV.	
12 SEPT 91	PB 5395 02	FIG.I-3		
APPROVED				
<i>[Signature]</i>				

CLIENT:

CRAIGMONT MINES

KLOHN LEONOFF



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SCALE

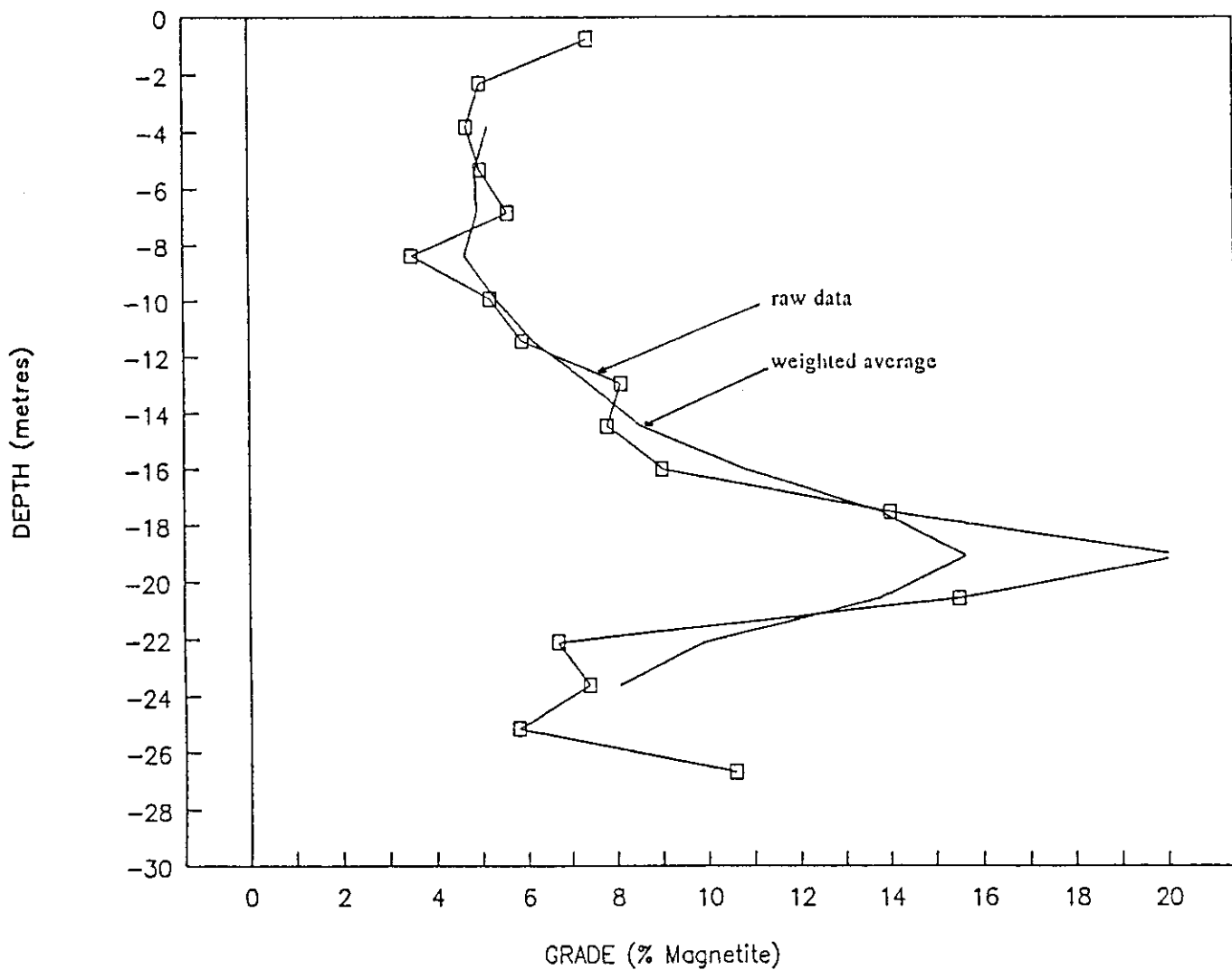


**KLOHN LEONOFF LTD.**

PROJECT		MINE PLAN	
TITLE		ASSAY RESULTS AH 91-06	
DATE OF ISSUE	PROJECT No.	DWG. No.	REV.
12 SEPT 91	PB 5395 02	FIG. I-4	
APPROVED <i>[Signature]</i>		KLOHN LEONOFF	

CLIENT: **CRAIGMONT MINES**





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SCALE



**KLOHN LEONOFF LTD.**

PROJECT

MINE PLAN

TITLE

ASSAY RESULTS  
AH91-08

CLIENT:

CRAIGMONT MINES

DATE OF ISSUE

12 SEPT 91

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*[Signature]*

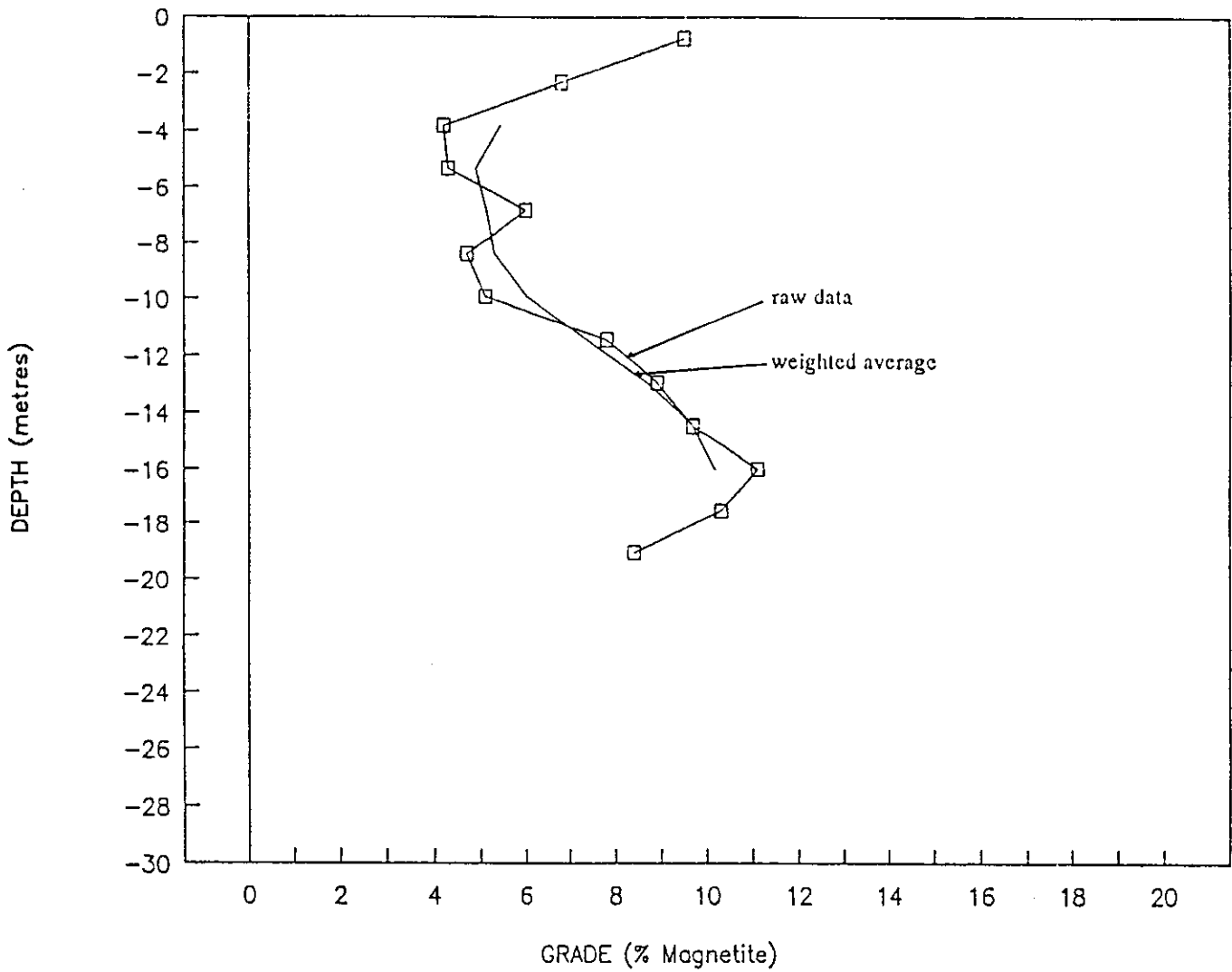
PROJECT No.

PB 5395 02

DWG. No.

FIG. I-5

REV.



IS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES. ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.

SCALE



**KLOHN LEONOFF LTD.**

PROJECT

**MINE PLAN**

TITLE

**ASSAY RESULTS  
AH91-17**

CLIENT:

**CRAIGMONT MINES**

DATE OF ISSUE

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*[Signature]*

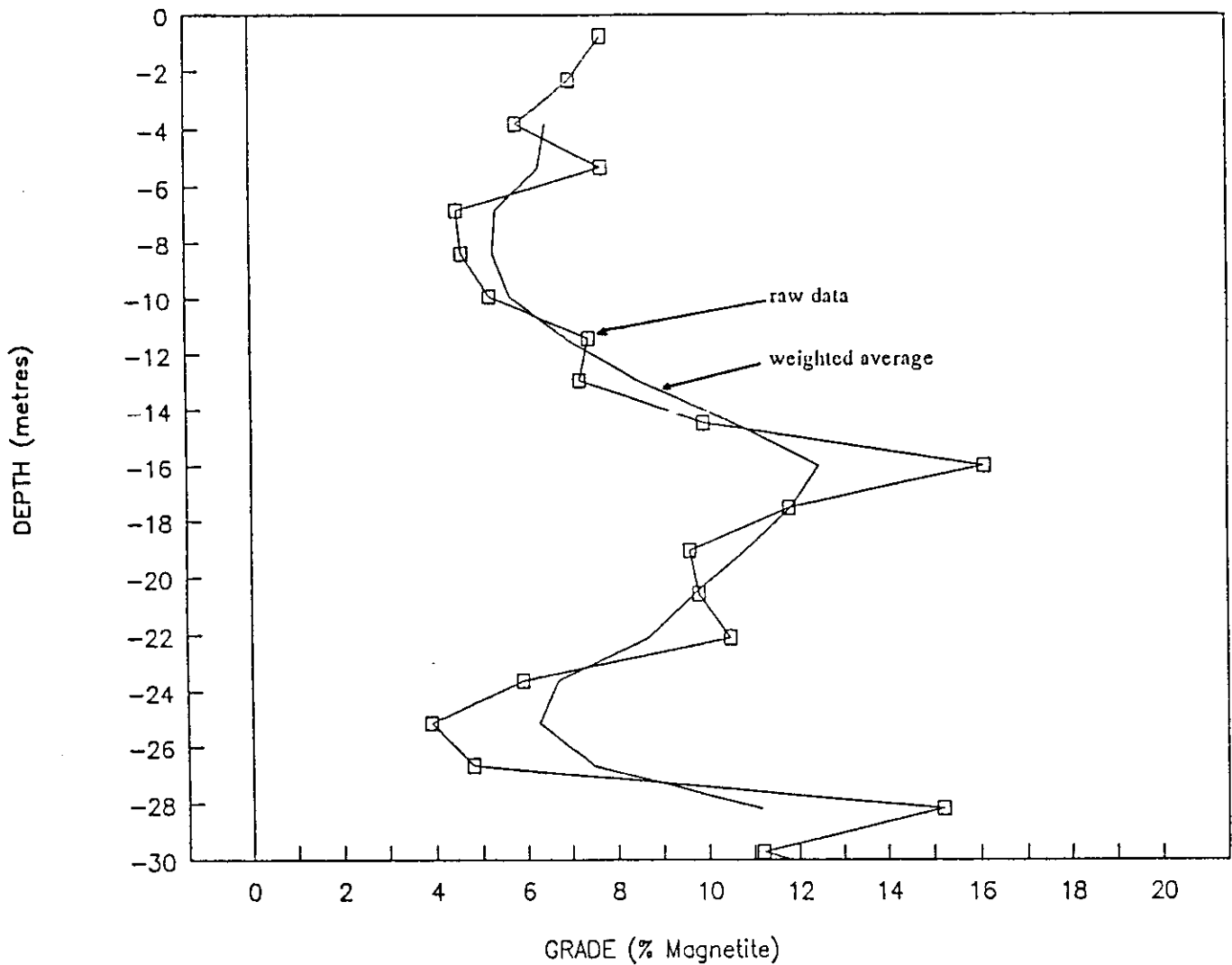
PROJECT No.

**PB 5395 02**

DWG. No.

**FIG. I-6**

REV.



AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.

SCALE



**KLOHN LEONOFF LTD.**

PROJECT

MINE PLAN

TITLE

ASSAY RESULTS  
AH91-19

CLIENT:

CRAIGMONT MINES

DATE OF ISSUE

12 SEPT 91

PROJECT No.

PB 5395 02

DWG. No.

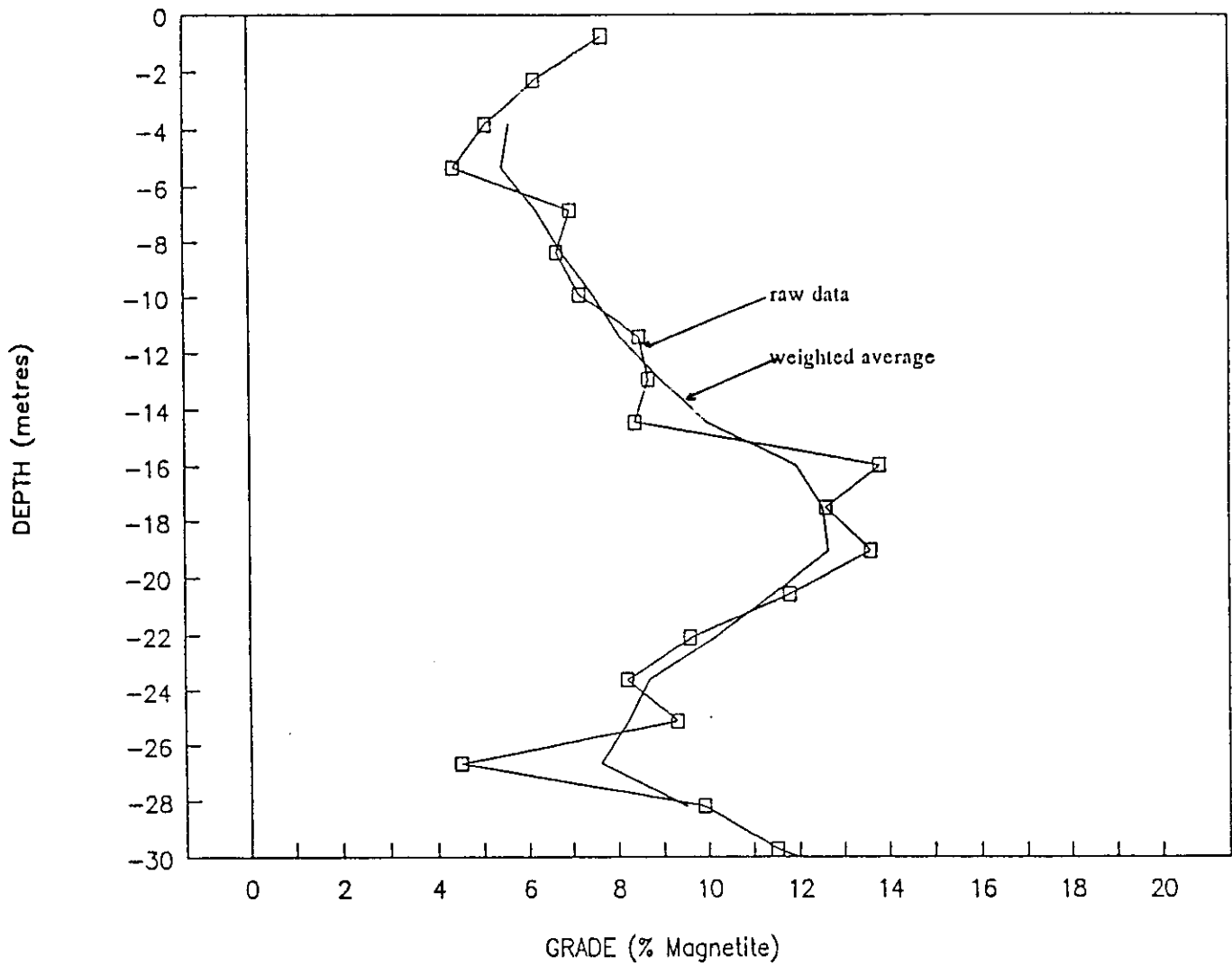
FIG. I-7

REV.

APPROVED

*[Signature]*

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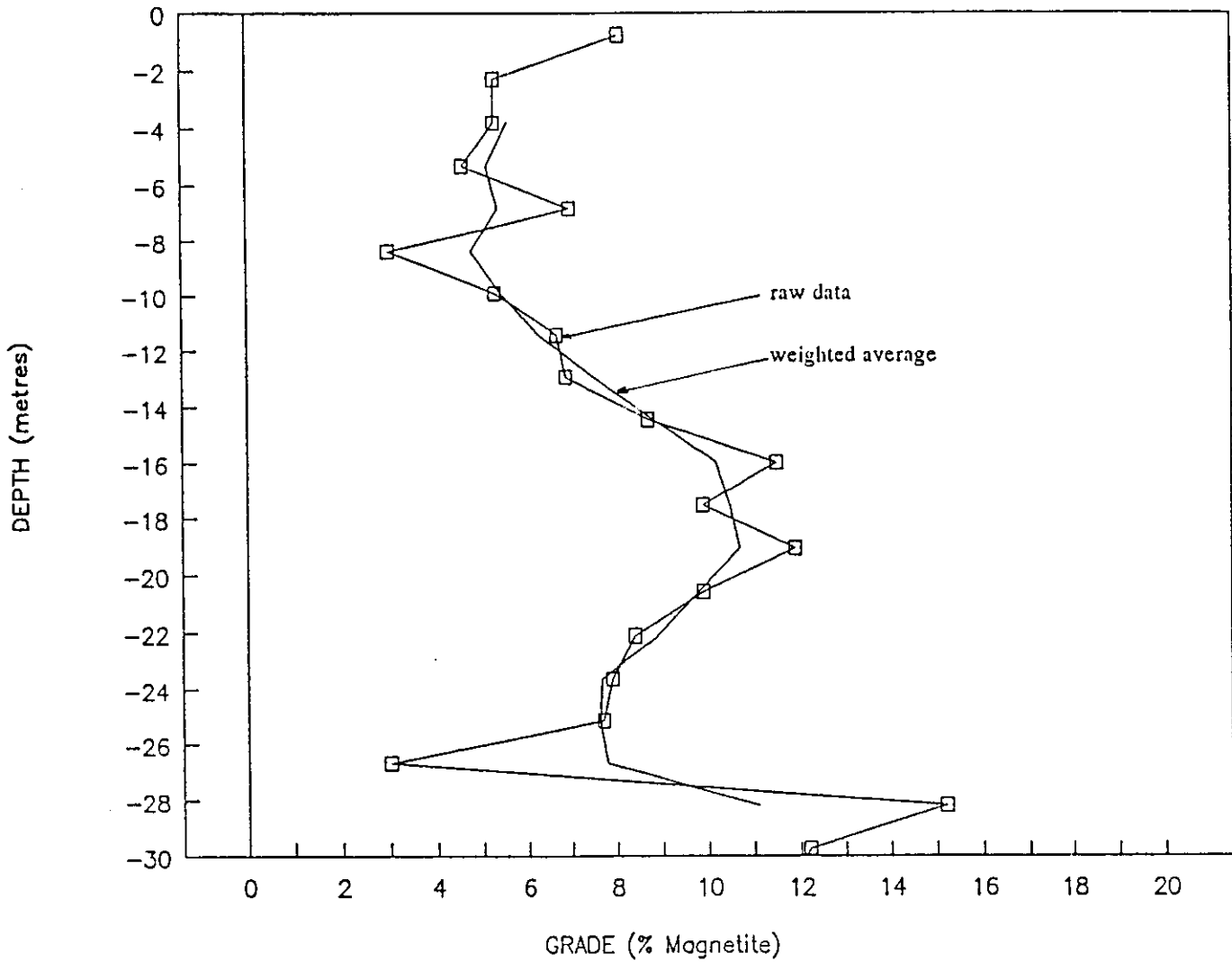
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**KLOHN LEONOFF LTD.**

PROJECT		MINE PLAN		
TITLE		ASSAY RESULTS AH91-22		
DATE OF ISSUE	PROJECT No.	DWG. No.	REV.	
12 SEPT 91	PB 5395 02	FIG. I-8		
APPROVED				
<i>[Signature]</i>				

CLIENT: CRAIGMONT MINES



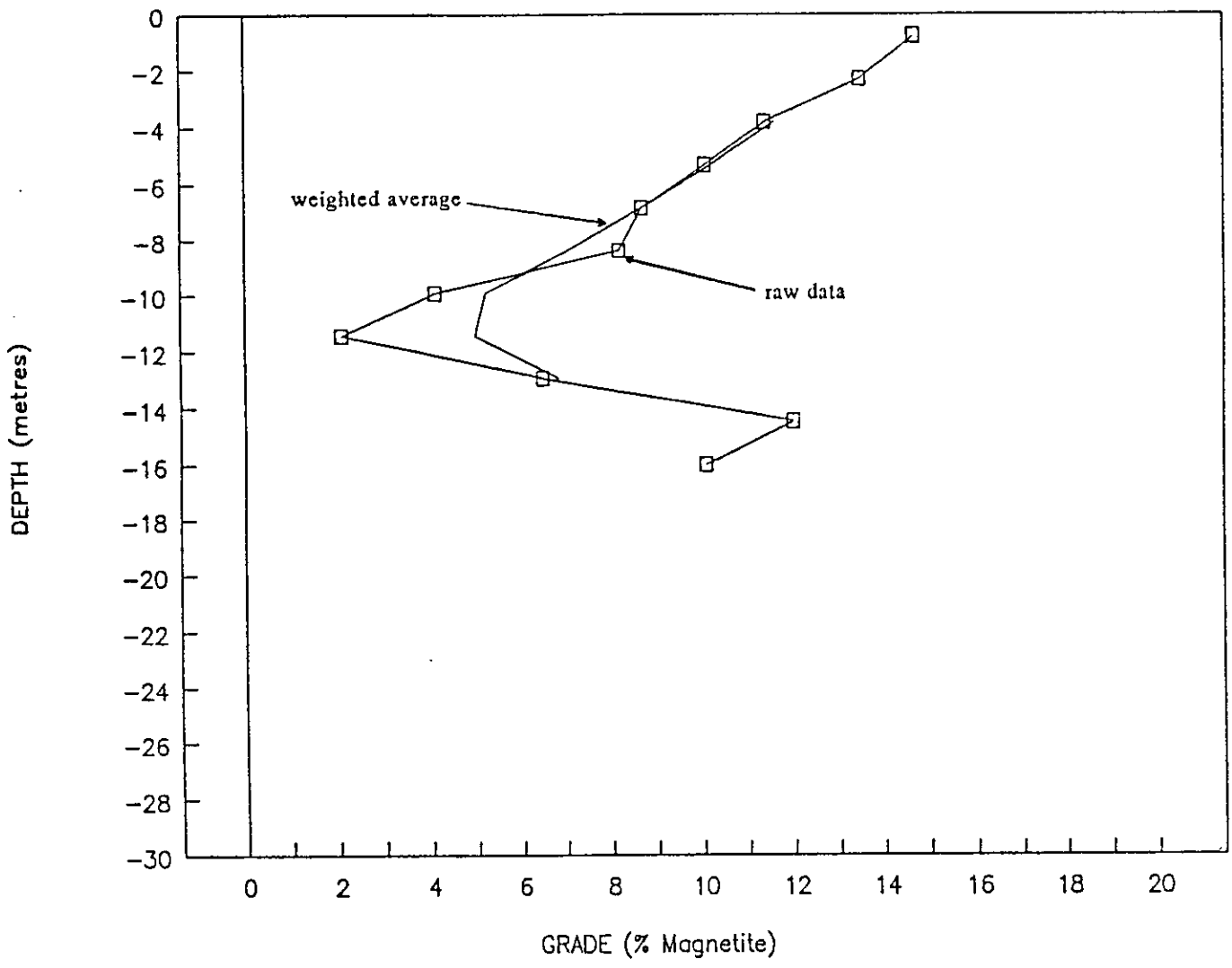
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SCALE



**KLOHN LEONOFF LTD.**

PROJECT		MINE PLAN		
TITLE		ASSAY RESULTS AH91-24		
CLIENT:	DATE OF ISSUE	PROJECT No.	DWG. No.	REV.
CRAIGMONT MINES	12 SEPT 91	PB 5395 02	FIG. I-9	
	APPROVED			
	<i>[Signature]</i>			



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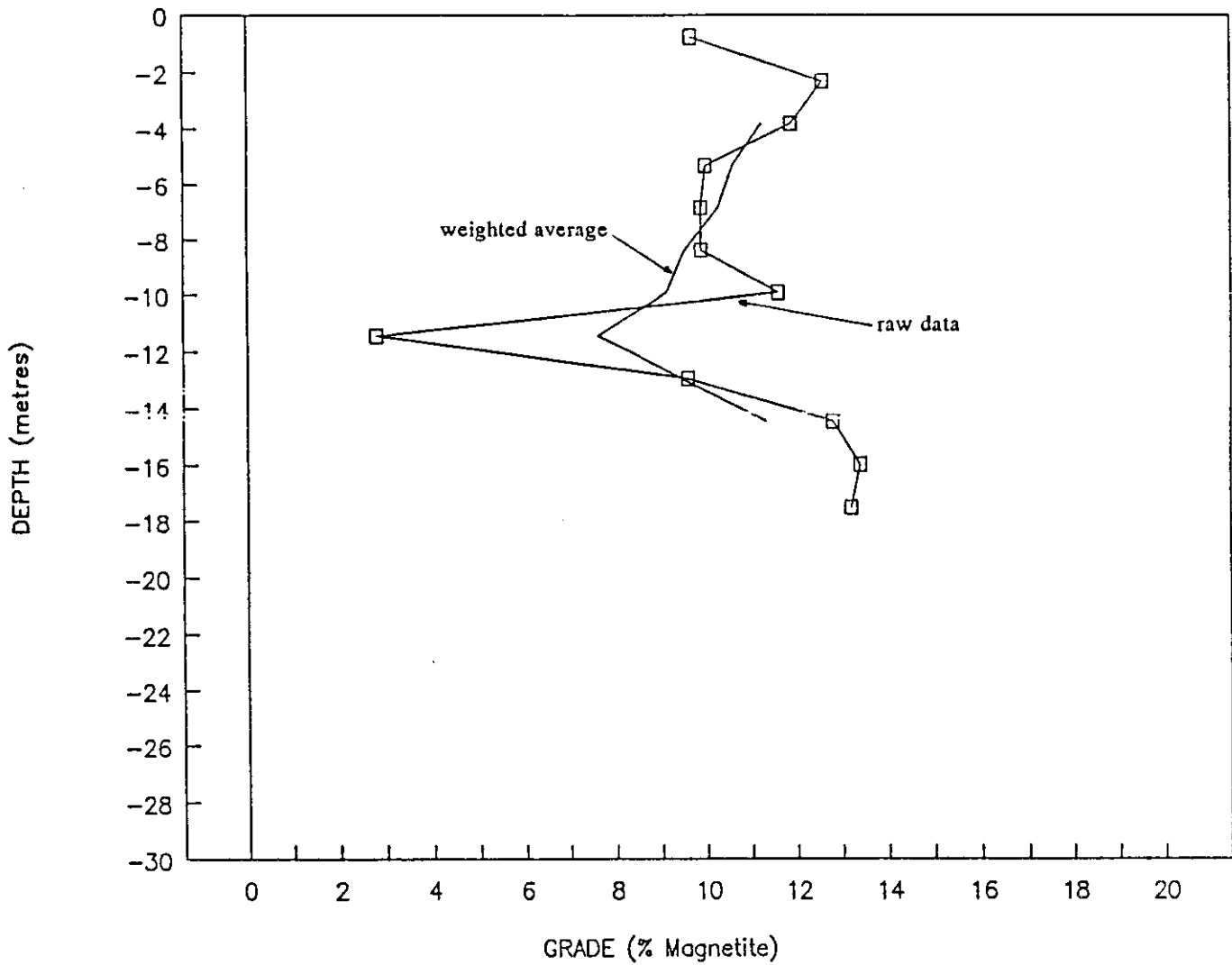
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**KLOHN LEONOFF LTD.**

PROJECT	MINE PLAN		
TITLE	ASSAY RESULTS AH91-26		
DATE OF ISSUE	PROJECT No.	DWG. No.	REV.
12 SEPT 91	PB 5395 02	FIG. I-10	
APPROVED <i>[Signature]</i>			

CLIENT: **CRAIGMONT MINES**



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SCALE



**KLOHN LEONOFF LTD.**

PROJECT

**MINE PLAN**

TITLE

**ASSAY RESULTS  
AH91-27**

CLIENT:

**CRAIGMONT MINES**

DATE OF ISSUE

12 SEPT 91

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*[Signature]*

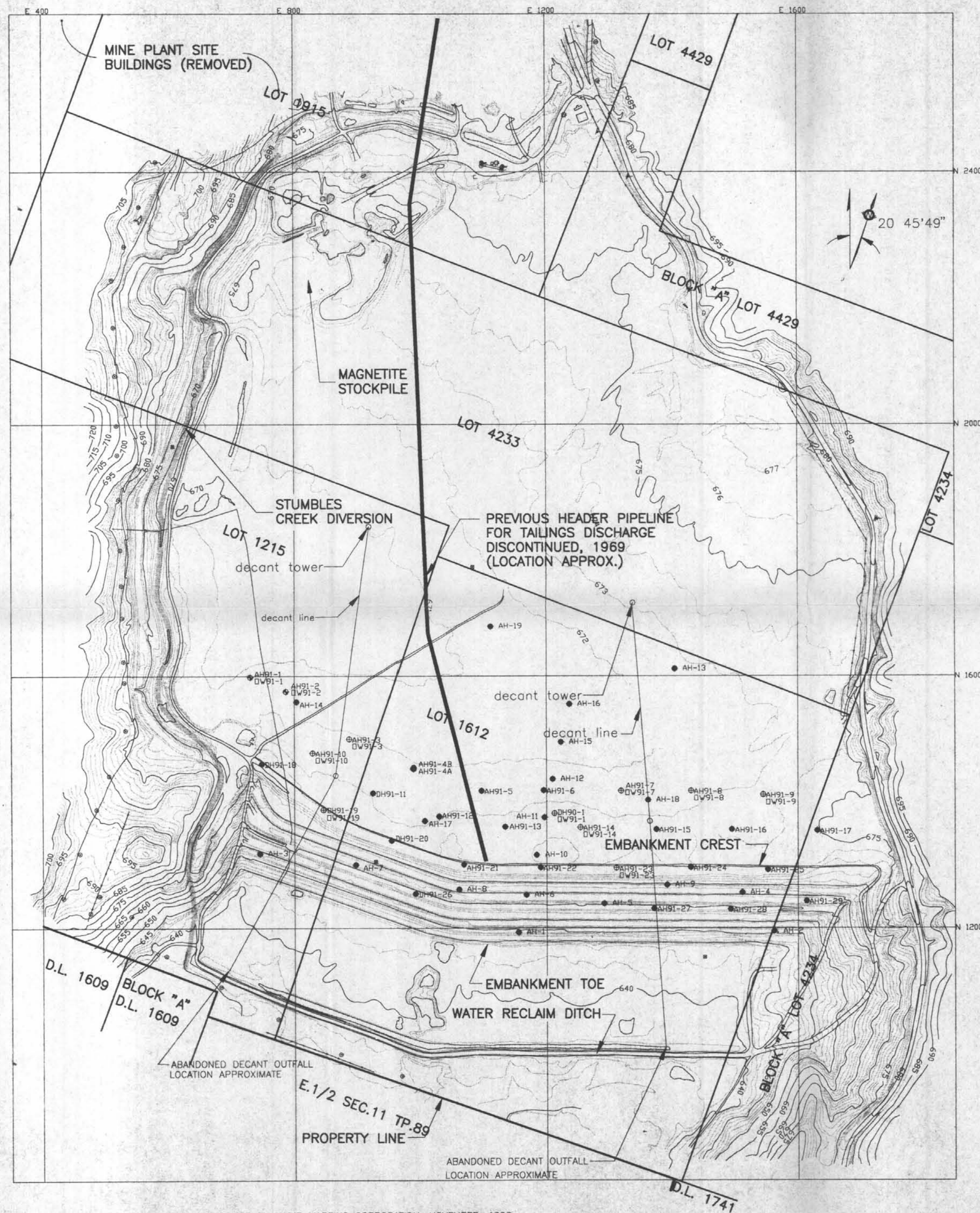
PROJECT No.

**PB 5395 02**

DWG. No.

**FIG. I - II**

REV.



**LEGEND**

- AH-13 AUGER HOLE FROM 1989 EXPLORATION PROGRAM (SEARCHLIGHT CONSULTANTS INC.)
- ⊕ DH90-1  
DW90-1 DRILL HOLE FROM 1990 GEOTECHNICAL INVESTIGATION (KLOHN LEONOFF LTD.) WITH OBSERVATION WELLS
- AH91-18 AUGER HOLE FROM 1991 EXPLORATION PROGRAM (KLOHN LEONOFF LTD.)
- ⊕ AH91-8  
DW91-8 AUGER HOLE FROM 1991 EXPLORATION PROGRAM (KLOHN LEONOFF LTD.) WITH OBSERVATION WELL
- CLAIM POST

**NOTES:**

1. CONTOUR PLAN PROVIDED BY NADIR MAPPING CORPORATION, NOVEMBER 1990. COORDINATES ARE ARBITRARY.
2. LOCATION OF 1989 DRILLHOLES APPROXIMATE ONLY.
3. LOCATION OF 1990 AND 1991 DRILLHOLES SURVEYED BY TUNBRIDGE & TUNBRIDGE SURVEYORS.

**GEOLOGICAL BRANCH ASSESSMENT REPORT**

**22,621**

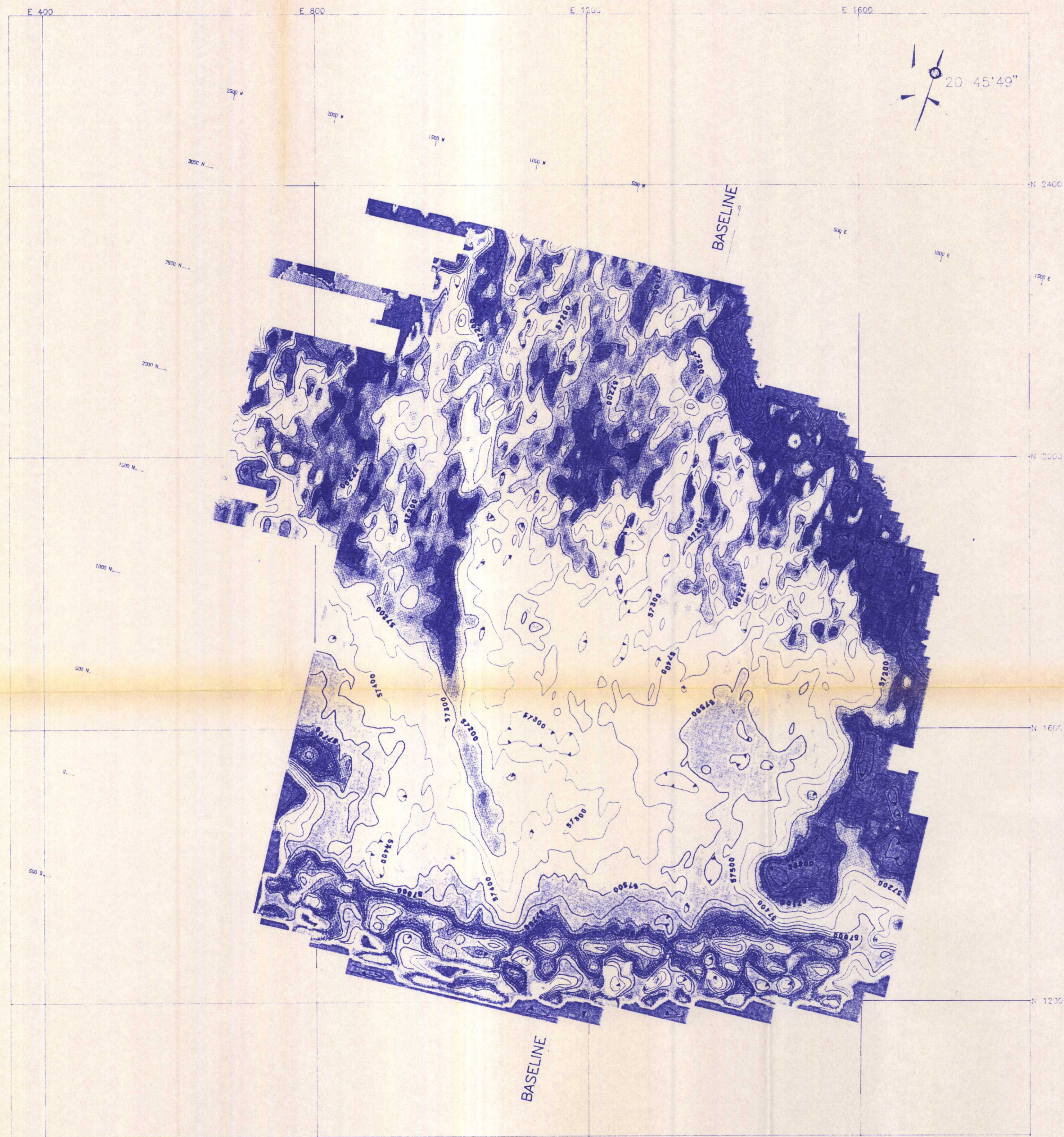


THIS DRAWING BASED ON TOPOGRAPHY SUPPLIED BY NADIR MAPPING CORPORATION, NOVEMBER, 1990

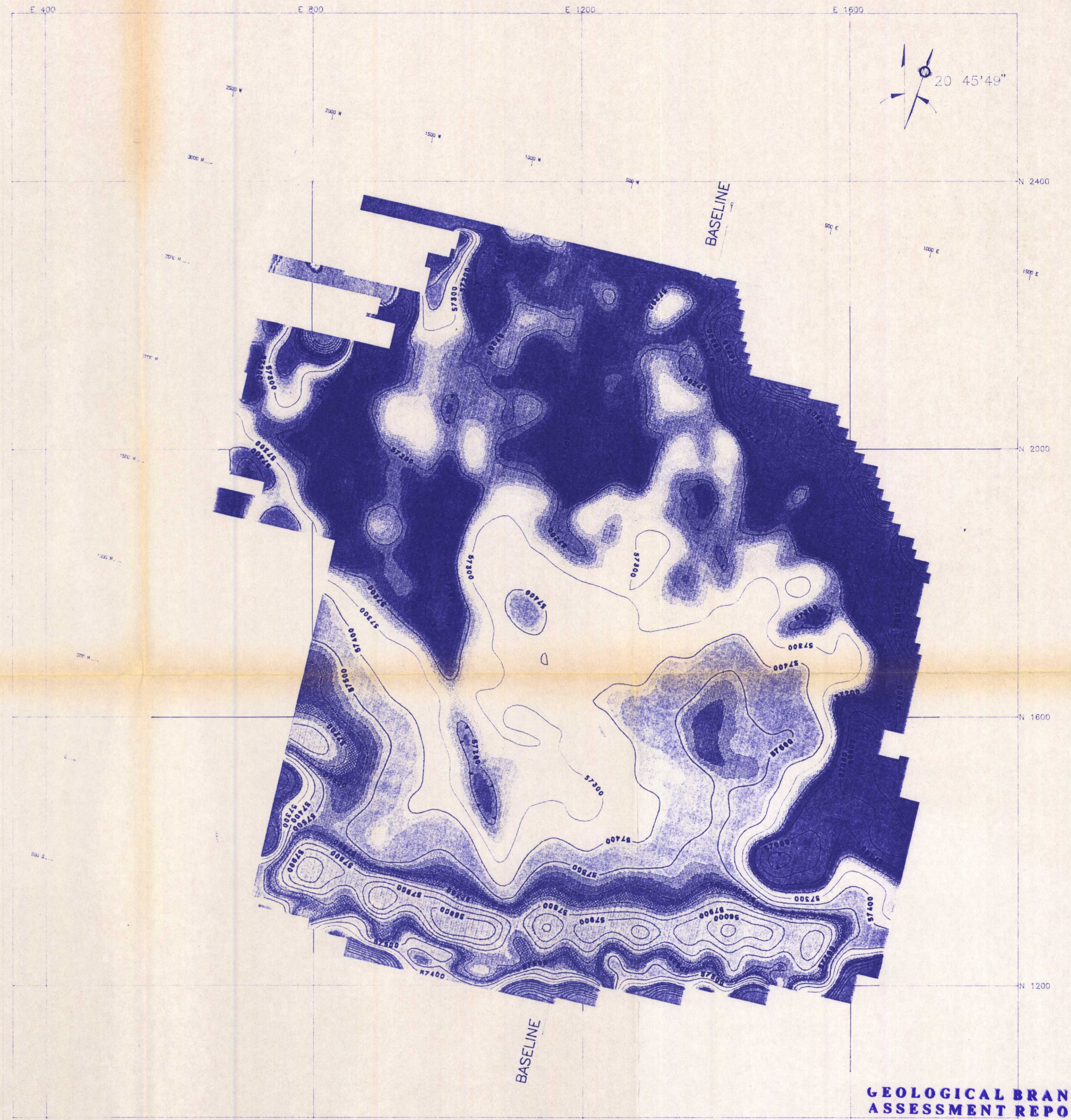
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TO BE READ WITH KLOHN LEONOFF REPORT DATED _____		REVISION DETAILS	
SCALE:	REV. DATE	DESIGN H.L.	DRAWN T.S.
		DATE AUG. 30/1991	SCALES 1 : 4000
PROJECT MINE PLAN		TITLE SITE PLAN	
CLIENT: CRAIGMONT MINES	DATE OF ISSUE	PROJECT No. PB539502	DWG. No. D-2102
APPROVED			REV.





A: CONTOURED PLOT OF UNFILTERED DATA



B: CONTOURED PLOT OF 9-POINT FILTERED DATA

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

22,621



NOTES:

1. MAIN GRID COORDINATES CORRESPOND TO GRID USED ON SITE PLAN (FIG.II-1)
2. LINE LABELLING AND GEOPHYSICAL GRID COORDINATES ARE GIVEN IN FEET TO BE CONSISTANT WITH GRID COORDINATES PREVIOUSLY USED. SCALE IS METRIC TO MATCH OTHER KLOHN LEONOFF DRAWINGS.
3. MAGNETIC SURVEY ALONG LINES 650S TO 1400N CARRIED OUT BY WHITE GEOPHYSICAL INC. IN 1989. MAGNETIC SURVEY ALONG LINES 1450N TO 3100N CARRIED OUT BY KLOHN LEONOFF LTD. IN 1991.
4. MAGNETIC CONTOUR INTERVAL = 100 GAMMAS.

AS A MUTUAL PROTECTION TO OUR CLIENT, THE PUBLIC AND OURSELVES, ALL REPORTS AND DRAWINGS ARE SUBMITTED FOR THE CONFIDENTIAL INFORMATION OF OUR CLIENT FOR A SPECIFIC PROJECT AND AUTHORIZATION FOR USE AND/OR PUBLICATION OF DATA, STATEMENTS, CONCLUSIONS OR ABSTRACTS FROM OR REGARDING OUR REPORTS AND DRAWINGS IS RESERVED PENDING OUR WRITTEN APPROVAL.

TO BE READ WITH KLOHN LEONOFF REPORT DATED

REV No.	REVISION	DES	DRN	CHK	APP/DATE

KLOHN LEONOFF

DATE



KLOHN LEONOFF LTD.

CLIENT

CRAIGMONT MINES

PROJECT

MAGNETOMETER SURVEY

TITLE

TOTAL MAGNETIC FIELD  
CONTOURED PLOTS

DATE OF ISSUE  
12 SEP 91

PROJECT No.  
PB539503

DWG. No.  
FIG.II-3

REV.