

41104NW0006 001181 HALLAM

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Township of HALLAM

Diamond Drilling

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Report NO 13

Work performed by: Consolidated Bellenko Mines

Claim Nº	Hole NQ	Footage	Date	Note
S 147967	1	250.0'	Dec/67	
	2	245.0'	Jan/68	
	3	250.0'	Jan/68	
	6	335.0'	Jan/68	
	7	325.0'	Jan/68	
S 147968	14	333.0'	Dec/67	
	5	250.0'	Jan/68	

TOTAL 7 DH 1988 FT

Notes:

IEET NUMBER _	SECTION FROMTO		_ STA	RTED		- 4		
TITUDE 1+7	55, DATUM Post 4, claim S.	147967	COM	MPLETED_	•			
EPARTURE 0+0	OE BEARING 180° AZ.		UL1	IMATE D	EPT <u>H</u>	250		
EVATION	DIP45°			POSED DE				
DEPTH PEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SULIDOR GOLD	Τ		Γ
0-16	CASING				· · · · · · · · · · · · · · · · · · ·			
16-46	GREYWACKE: Typical, fine-grained, grey,							
	even-textured. Pyrrhotite blebs							
	up to 3% of mass.					_	_	
46-73	QUARTZ BRECCIA: Silicified greywacke					.		
	particles. 50-60% quartz.					ļ		
	Copper mineralization from 46-52 ft.			Cu.X	gold		<u> </u>	
	Pyrrhotite min. from 52-73 ft.		46-491	_3.30	nil	60 1	<u>pi.</u>	Spo
		The second s	49-521	2.86	11 			
		1-3	52-59'	0.06	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	60 1	<u>.</u>	Spi
73-91	QUARTZITE: Highly siliceous, fine-grained,							-
	even-textured, grey							-
<u>91-250 end</u>	(as 16-46) Quartz breccia 105-107, no min.			·				
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EET NUMBER	SECTION FROMTO_						
TITUDE <u>1+7</u>	DATUM Post 4. claim S.1	47967		MPLETED_	•		
PARTURE 0+5	BEARING 180° AZ.			TIMATE D	EPTH 24	51	
	DIP45°				EPTH	-	
DEPTH PEET							
0-28	CASING:						
28-62	GREYWACKE: Typical, fine-grained, dark grey,						
	even-textured, no min.						
62-81	QUARTZ BRECCIA: Silicified greywacke partic-						
	les, 50-60% quartz. No. min.						
81-104	(AS 28=62)						
104-130	QUARTZ BRECCIA: Quartz-calcite veins, no						
	min. at following locations: 105-7.		Cu.S	gold			
	121-2. From 123-126, min. vein.	2-1	2.46	nil			
130-245	QUARTZITE: Highly siliceous, fine-grained,	 		· · ·			
End	even-textured, grey						
	· · · · · · · · · · · · · · · · · · ·						
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	OCK FOLY NO. 501 REV. 12/51	l		7			

SHEET NUMBER _	<u></u>	SECTION FROMTO		_ ST/			
LATITUDE 1+8	55	DATUM Post 4, claim S.14	47967	_ coi	MPLETED	•	
DEPARTURE 1+0	OE	BEARING 180° Az.					
		li e C		PROPOSED DEPTH			
DEPTH PEET	FC	DRMATION	BAMPLE No.	WIDTH OF SAMPLE	QOLD .	BLUDOF BOLD 5	
0-23	CASING:	****					
23-73	GREYWACKE: Typical	, fine-grained, dark grey,			·		
	even-text	ured, no min.					
73-250 End	QUARTZITE: Highly s	iliceous, fine-grained,					
•	even-text	ured, grey.					
	96-98 Quartz Br	eccia (poor) no min.		Cu.%			
, 		119-121, Quartz-cal. vein, copper		5.79			
	والقريب ويواد المستحد بمناها والمعواجة المتكاف فستحدث المحاكة فالمحموق والمستجد والم	121-122, Quartz-cal. vein, copper		3.63			
		131-2, Quartz-cal. vein, no min.					
	161-163 Quartz-	cal. vein, copper	3-3	5.58			
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M.M.P., TORONTO-STOC	K FORM NO. 501 REV. 13/51		I		المشرك لي		

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ET NUMBER	SECTION FROMTO		_ STA						
TITUDE1+	758, DATUM Post 4, claim S.	3.147967 COMPLETED							
EPARTURE0+		ULTIMATE DEPTH 333							
	DIP45°				PTH				
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF BAMPLE	00LD \$	SOLD S				
0-20	CASING:								
20-333	GREYWACKE: Typical, fine-grained, dark grey	1							
End	even-textured.		Cu. 3	Gold	••••••••••••••••••••••••••••••••••••••				
	43.5-47': QUARTZ BRECCIA, 20% pyrrhotite	4-1	0.02	nil	60 El.	Spec	•		
	54 ' minor shear zone.								
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	) CK PORM NO. 201 REV. 12/51			1,					

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EET NUMBER	SECTION FROM	>	-	STA	RTED			
TITUDE 1+7	55, DATUM Post 4. claim S.	147967	-	COM	IPLETED_	•		
PARTURE 1+6	OW BEARING 180 AZ.		<b></b>	ULT	IMATE DI	ept <u>H2</u>	50	
VATION	DIP	· ·			DPOSED DEPTH			
DIPTH FEET	FORMATION		GOLD \$					
0-34	CASING:							
34-225	GREYWACKE: Typical, fine-grained, grey,							
end	even-textured, No Mineralization							
<u></u>	other than minor sections with							
	up to 15% pyrite-pyrrhotite in ble	ebs,						
	stringers, and fine dissemination.			_				
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	SECTION FROMTO							
TITUDE <u>1+85</u>	DATUM Fost 4, claim S.14	-	CON	MPLETED_	•			
PARTURE 1+5	0E ΒΕΑRING <u>180<sup>°</sup> Λz.</u>		-	บเว	IMATE DE	PTH 3	35	
	DIP45 <sup>°</sup>		-	FRO	ROPOSED DEPTH			
DEPTH PEET	FORMATION	BAMPLE NO.	OF		90LD \$	BLUDGE GOLD		
0-18	CASING:							
18-54	GREYWACKE: Typical, fine-grained, grey,							
	even-textured.					,		
	· 19-20 Quartz-cal vein. No. min.							
	25-26 15 <sup>d</sup> dissem. pyrite-pyrrhotite							
	29-31.5 Graphite			. 1				
	50-51 Quartz Broccia, No. Min.							
54-335	QUARTZITE: Highly siliceous, fine-grained,							
END	even-textured, dark grey.							
	101-103 Quartz breccia, no min.							
<u></u>	197 2" copper min.							
				<b></b>				
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ET NUMBER _		SECTION FROM	то	. STA	RTED				
TITUDE	758					9 			
EPARTURE 0+(	00					ерт <u>н 325</u>			
EVATION DIP						EPTH			
DEPTH FEET	r	FORMATION SAMPLE NO. OF							
0-34	CASING:	·							
<u>34-325</u> end	GREYWACKE: Typica	l, fine-grained, grey,							
end		tured, Minor Mineralizat							
	·34-54 Gabb	ro, medium-grained			·				
	· · · · · · · · · · · · · · · · · · ·								
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CONSOLIDATED BELLEKENO MINES LINITED

DIAMOND DRILL REPORT

HALLAM TOWNSHIP, ONTARIO

Gerald L. Kirwan

#### SUMMARY:

Seven holes totalling 1,963 ft. of diamond drilling recently investigated a known surface copper showing, substantiated by geophysical methods, on your Hallam Township property, Ontario.

Results indicated that a copper deposit exists on this property with dimensions 100 ft. (plus) along strike east-west, three feet wide, 120 ft. deep. Average grade would be over 3% copper per ton. The zone was apparently delimited.

This zone is too small to support a mining operation. Prior to due date of the claim group, a re-appraisal of work done will be made in light of results of other programs in the area insomuch that a study of this nature may point to areas on the property worthy of further attention.

> Gereld L. Kirkona Exploration & Mining GEOLOGIST

- Lunn

G.L. Kirwan

Toronto, Ontario, March 4, 1968 CONSOLIDATED BELLEKENO MINES LIMITED, Suite 503-62 Richmond St. West, Toronto 1, Ontario.

Gentlemen:

This report covers results of a diamond drill program recently completed over your property located in Hallam, Town-

. Contration

A total of 1,963 ft. of drilling was done from seven 'drill hole locations to test potential of a known occurrence of copper mineralization.

#### PROPERTY, LOCATION, ACCESS:

The property consists of 15 contiguous, unpatented mining claims, numbered S.147948-954; S.147967-974, all inclusive, located in the south central portion of Hallam Township, Lots 7 and 8, Concessions 2 and 3, in Sudbury Mining Division, District' of Sudbury, Ontario.

The claim group is located some six miles west southwest from the townsite of Espanola, Ontario, and is reached by all-weather good secondary roads. A short walking distance is required from access road to drilling site.

Gereid L. Kin

ORATION & MINING GEOLOGIST

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#### GEOLOGY:

The claim group is underlain by Precambrian metasedimentary rocks consisting of Huronian and/or Pre-Huronian age greywacke and quartzite, according to 0.D.M. Map No. P.105, Espanola Sheet.

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Trend of formation is east-west. A strike fault passing through claims S.147967 and S.147968 forms a prominent valley with a corresponding prominent scarp on the south side of the valley.

Diamond drilling was done from valley into scarp face.

#### **HISTORY**:

As exhibited in old trenches and pits, an east-west trending copper occurrence is located atop a fault scarp in the northwest portion of claim S.147967 and the northeast portion of claim S.147968, Hallam Township.

According to assessment files of the Ontario Department. of Mines, the Keevil Mining Group examined the area through use of self potential and magnetic methods in 1966 resulting in the detection of an intensive and reasonably large self potential anonalous zone in the area of the pits and trenches. Diamond drilling was not recommended by the Keevil representatives, and there is no field or statuatory indications that the copper zone has been drill tested prior to acquisition by present management.

> Gereld L. Kirwan ORATION & MINING GEOLOGIST

DIAMOND DRILLING:

Based upon results of exploration to that date, Consolidated Bellekeno Mines Ltd. initiated a drill program under the direction and supervision of the writer to explore more fully the known copper-mineralized occurrence. Seven holes totalling 1,963 ft. of drilling investigated the copper zone, the results of which form subject material of this report. Holes were spotted so that collaring was located at base of fault scarp thus allowing maximum vertical testing with minimum of drill footage.

Diamond drilling commenced December 13th, 1967, and was terminated February 20th, 1968.

HOLE NO.	LATITUDE	DEFARTURE	AZIMUTH	DIP	DEPTH (f	t.) DATUM
1234567	1+758 1+758 1+858 1+758 1+758 1+858 0+758 -	0+00E 0+50E 1+00E 0+60W 1+60W 1+50E 0+00E Total Fo	180° 180° 180° 180° 180° 180° 180° 0tage:	-44555 -44555 -44455 -44	250 245 250 333 225 335 325 1,963	DATUM REFERENCE FOR ALL HOLES IS POST NO. 4, CLAIM NO. S.147967

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DRILL RESULTS:

Essentially a typical greywacke type rock was encountered with amounts of typical quartzite. The target area was a quartz breccia appearing in trenches on surface with abundant copper mineralization in the form of chalcopyrite with minor bornite.

> Gerald L. Kirsonn Exploration & Mining Geologie

Drill holes 1, 2, and 3 respectively intersected 3.08% copper per ton over 3 ft., 2.46% copper over 3 ft., and 5.07% copper over 3 ft. No gold values of importance were returned. A 310 ft. strike length was examined, and hole No. 7 examined the downdip extension of the copper zone to 250 ft. vertical below trenches.

#### CONCLUSIONS AND RECOMMENDATIONS:

Seven holes totalling 1,963 ft. examined a 310 ft. strike length to vertical depth 250 ft. of a copper-mineralized zone previously detected through trenching and self potential coverage on the Hallam Township property of Consolidated Bellekeno Mines Ltd.

Results indicated good copper mineralization occurs from surface to depth 120 ft. along strike for a distance of 100 ft. and is contained in a quartz breccia. The copper zone appears to be localized in the area drilled and was delimited by diamond drilling.

No further work is warranted at this time. Prior to due date of the claim group, a re-appraisal of work done will be made in light of results obtained and in light of results of work programs on other properties in the area. This study may point to areas on the property deserving further attention.

ully submitted. TWAN Consulting Geologist

GLK/1k March\_4, 1968

Gereld L. Kirwa TION & MINING DEC

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#### CERTIFICATE

I, Gerald L. Kirwan of the city of Toronto in the Province of Ontario, certify as follows:

- 1. THAT I am a geologist with offices at 160 Bay St., Toronto, and 130 Kingslake Rd., Willowdale, Ontario.
- 2. THAT I have practised my profession continuously since being graduated from Carleton Universty, B.Sc., 1957.
- 3. THAT I am a Fellow of the Geological Association of Canada.
- 4. THAT I have not directly or indirectly received nor do I expect to receive any interest direct or indirect in the property of Consolidated Bellekeno Mines Ltd. or any affiliate, nor do I beneficially own directly or indirectly any security of the Company or any affiliate thereof.
- 5. THAT the accompanying report has been prepared by myself and is based upon many visits to the subject property, a study of pertinent data found in government reports, maps, and files, upon a general knowledge of the area, and upon supervision of the drill program herein noted.

Dated at Toronto, Ontario, this 4th day of March, 1968

Gerald L. Kirwan Exploration a Mining Geologist

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G.L. Kirwan

	CHEMICAL REBEARCH AND ANALYSIS     INSTRUMENT SALES AND'SCRVICE
	TECMNICAL SERVICE LABORATORIES Division of Burgenets Technical Enterances Limited 355 King St. W., Toronto 2B, Ont., Canada
Representing Jarrelliäsh Company Hilder a watte Limited	TELEPHONE : 342-4248
SADYLER RESEARCH Ultra Carbon Corporation Metals research limited	CERTIFICATE OF ANALYSIS
-Uni	ted Bellekeno Mines Limited,
130	Pald L. Kirwan, Doration & Mining Geologist, Kingslake Road, Llowdale, Ontario.
AMPLE(S) OF	· · · ·

Sample No.	<u>Gold (Au)oz:ton</u>	Copper (Cu)%
1 - 1		3.30
1 - 2		2.86
1 - 3	nil	0.06
4 - 1	<b></b> ,·	0.02

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TE	Dec. 27/67	SIGNED	C.S. JOYCE; B.Sej, Monoger of	
•	VANCOUVER - TSL LABORATORI	IES LTD., 325 HOWE		• •
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## X-RAY ASSAY LABORATORIES LIMITED

45 LESMILL ROAD - DON MILLS, ONTARIO - TELEPHONE 445-5755

### Certificate of Analysis

•	· NO.599			
	<sup>TO.</sup> G. L. Kirwan,	(Consolidated	Bellekeno	Mines Ltd.)
	130 Kingslake Rd.,			
	Willowdale, Ont.		• •	

split core SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

RECEIVED Jan. 11, 1968

January 12, 1968

ANALYTICAL CHEMISTS -

DATE

INVOICE NO. 2089

SAMPLE(S) OF

Sample No.% CuAu oz/ton2-12.46Nil

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY

SPECTROGRAPHERS

# X-RAY ASSAY LABORATORIES LIMITED

45 LESMILL ROAD - DON MILLS, ONTARIO - TELEPHONE 445-5755

### Certificate of Analysis

NO. 641

TO. Consolidated Bellekeno Limted, c/o G.L.Kirwan,
130 Kingslake Rd.,
WILLOWDALE, Ontario.

RECEIVED	January 29, 1968	3 INVOICE NO.	2132
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SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

SAMPLE(S) OF split core

. . .

 Sample No.
 % Cu

 3-1
 5.79

 3-2
 3.63

 3-3
 5.58

ABSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY

DATE January 31, 1968

INSTRUMENT SALES AND DERVICE	TECMINICAL SELEVICE LABORATION CONTO 28 C										
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American Contract       CERTIFICATE OF ANALYSIS         Somiquantilative Spectrographic         SAMPLEKS FROM	CERTIFICATE OF ANALYSIS         Somiquanitative Spectrographic         Colspan="2">Colspan="2"         Colspan="2">Colspan="2"         Sample       Sample <th colspan="2" sample<<="" td=""><td>Representing</td><td>•</td><td>1</td><td>355 K</td><td>ING ST. W., 1</td><td></td><td></td><td></td></th>	<td>Representing</td> <td>•</td> <td>1</td> <td>355 K</td> <td>ING ST. W., 1</td> <td></td> <td></td> <td></td>		Representing	•	1	355 K	ING ST. W., 1			
Somiquantitative Spectrographic         Somiquantitative Spectrographic         SAMPLE(S) FROM       -United Bollekeno Mines Limited, or Gorald Kirwan, Exploration & Mining Geologist, 130 Kingslake Road,         SAMPLE(S) OF       Willowdale, Ontario.         DRILL CORE         Image: Sample Sample Sample Sample Sample Sample Sample Colspan="2">Sample Sample Sa	Somiquanitative Spectrographic		,				1	LPRUNE: DEFINAND	- AUTU - 14		
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SAMPLE(S) FROM       -United Bollekeno Mines Limited, c/o Gerald Kinwan, Exploration & Mining Geologist, 130 Kingslake Road,       REPORT NC T-09709         SAMPLE(S) OF       Willowdale, Ontario.       DRILL CORE         BRILL CORE       Sample       Sample       Sample         1 - 1       1 - 3       4 - 1       1 - 1       1 - 3         imedy       -       -       -       -         imedy       -       -       -       -       - <t< td=""><td>-United Bellekeno Mines Limited, c/o Gerald Kirwan, Exploration &amp; Mining Geologist, 130 Kingslake Road, Willowdale, Ontario.       REPORT NO. T-09709         BRILL CORE      </td><td>METALS RESEARC</td><td></td><td>,</td><td>Somiquar</td><td>ntitative Spectrogr</td><td>aphic</td><td></td><td></td></t<>	-United Bellekeno Mines Limited, c/o Gerald Kirwan, Exploration & Mining Geologist, 130 Kingslake Road, Willowdale, Ontario.       REPORT NO. T-09709         BRILL CORE	METALS RESEARC		,	Somiquar	ntitative Spectrogr	aphic				
$ \begin{array}{c} c/o \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	C/o Gerald Kirwan, Exploration & Mining Geologist, 130 Kingslake Road, Willowdale, Ontario. DRILL CORE • 1 - 3 4 - 1 1 - 1 1 - 3 4 - 1 Phosphorus Phosphorus Platinum Platinum X X X Rubdum X X X X Rubdum X X X X Rubdum X X X X Rubdum X X X X Rubdum  X X X Tantalum (1-0.)  	SAMPLE(S) FR			ekeno Min	es Limited.					
130 Kingslake Road, Willowdale, Ontario.         DRILL CORE         Sample       Sample       Sample         1 - 1       1 - 3 $L - 1$ 1 - 1       1 - 3 $L - 4$ Millowdale, Ontario.         Sample       Sample       Sample       Sample         1 - 1	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	w	c/	o Gerald I	Kirwan,	•					
SAMPLE(S) OF         Willowdale, Ontario.           DRTLL CORE         Sample	Willowdale, Ontario.         DRILL CORE         •       1 - 3       Sample					Geologist,		T-0	9709		
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ntimony Phosphorus	$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Sample ] - ]	Sample 1 - 3			Sample 1 - 1		Sample L - 1		
senic       - <td><math display="block">\begin{array}{c ccccccccccccccccccccccccccccccccccc</math></td> <td></td> <td></td> <td></td> <td>  ~ ~  </td> <td>}</td> <td></td> <td></td> <td><b>'T</b> = 1</td>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				~ ~ 	}			<b>'T</b> = 1		
senic       - <td>-       -       Platinum       -       -       -         .1%       .02%       Rhenium       X       X       X         -       -       Rhodium       -       -       -         -       -       Rubidium       X       X       X         -       -       -       Rubidium       X       X       X         -       -       -       Strontium       -       -       -       -         -       -       -       Strontium       -       -       -       -       -         -       -       -       Strontium       -</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	-       -       Platinum       -       -       -         .1%       .02%       Rhenium       X       X       X         -       -       Rhodium       -       -       -         -       -       Rubidium       X       X       X         -       -       -       Rubidium       X       X       X         -       -       -       Strontium       -       -       -       -         -       -       -       Strontium       -       -       -       -       -         -       -       -       Strontium       -										
rdum       .02%       .1%       .02%       Rhenium       X       X       X         ryflium       -       -       -       Rhenium       -	.1% $.02%$ Rhenium       X       X       X         -       -       Rhodium       -       -       -       -         -       -       Rubidium       X       X       X         -       -       Rubienium       -       -       -       -         -       -       Strontium       -       -       -       -         -       -       Strontium       -       -       -       -         -       -       Tatalalum (Ta,O)       -       -       -       -         -       -       Therlium (ThO)       -       -       -       -         -       -       Thallium       -       -       -       -         -       -       Thorium (ThO)       -       -       -       -         -       0.01%       .001%       LM2%       LM2%       LM2%         -       -       Tungsian       -       -       -       -         -       -       Vandum       .01%       .03%       .03%       .03%         -       -       Zinc       -       -       -       -       -		PM						-		
ryllium (BeO) Rubidium	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0.2%	1%	02%		- Y		- Y		
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Iladium $\langle .0050z; t \langle .0050z; t \langle .0050z; t olassium (K,0)   2%   2%   1%   1%   1%   1%   1%   1%$	$\frac{\text{oz:t} < .005 \text{oz:t} < .005 \text{oz:t} \text{Colassium (K,O)} 2\% 2\% 1\% - : \text{ not detected} \\ = : \text{ not detected} \\ \text{les are stored for 6 months, then discarded.} \\ = : \text{ approx.} & \text{LM} - \text{Low Medium} = .3 - 5\% \text{ approx.} & \text{FT} - \text{Faint Trace} = - \text{approx. less than .01\%.} \\ = : \text{ approx.} & \text{L} - \text{Low} = .1 - 1\% \text{ approx.} & \text{FT} - \text{Possible Trace} = - \text{presence not certain.} \\ = : \text{ approx.} & \text{TL} - \text{Trace Low} = .055\% \text{ approx.} & \text{X2DNX2NAWX} - \text{Elements looked for but not found.} \\ = : \text{ T} - \text{Trace} &011\% \text{ approx.} & \text{X - Not looked for} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{CTA} \\ = : \text{C} \cdot 28/67 & \text{SIGNED} & \text{C} \cdot 28/67 $	and the second	•	**	-		<u>н</u>	н			
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