

**Agreements**

- 1 100% Echo Bay Mines Ltd.
- 2a Thomas Ogden Gold Mines
- 2b Thomas Estate

Echo Bay Claims

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**Echo Bay Mines Ltd.**

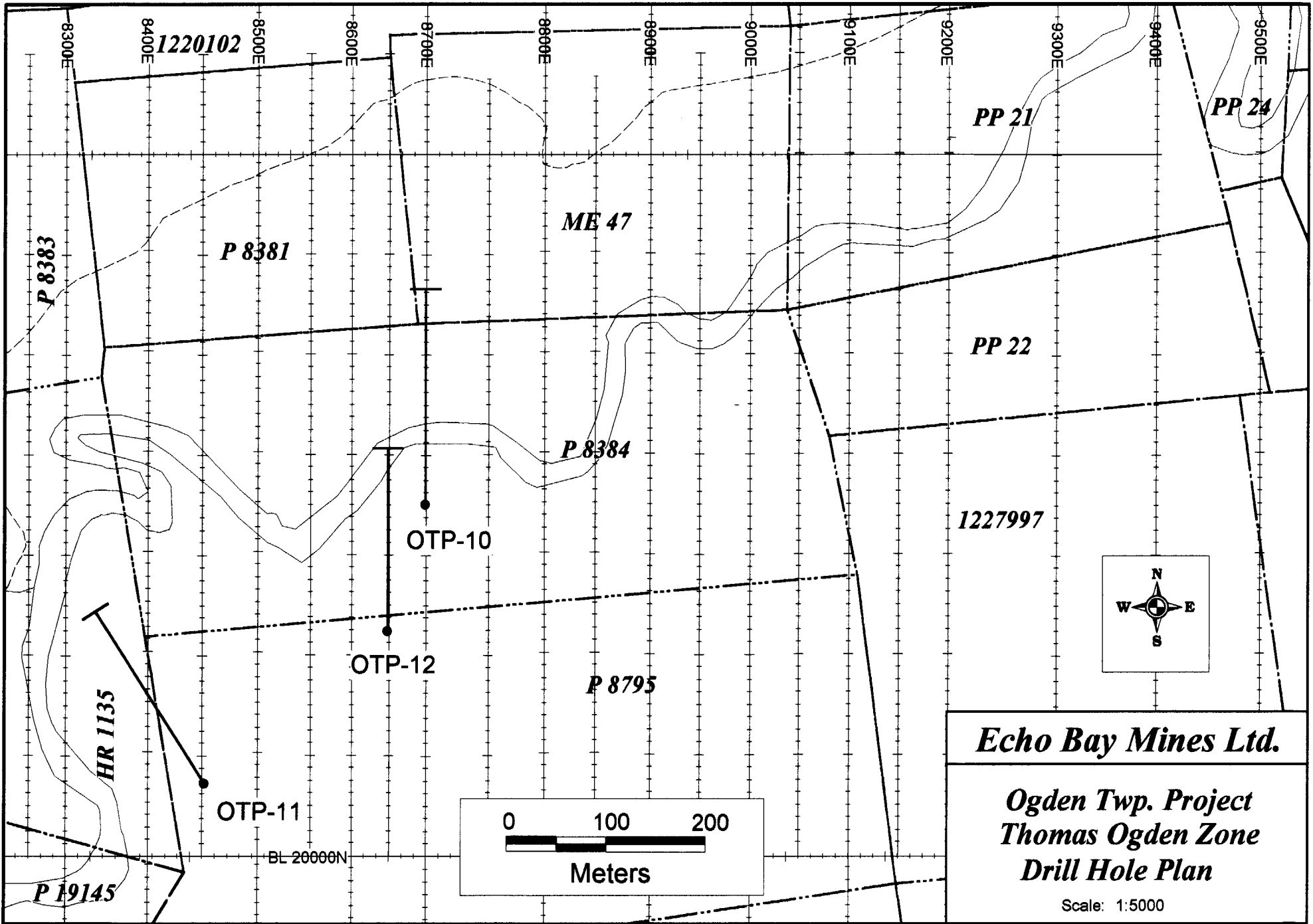
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**Ogden Township Project  
Land Position**

**RECEIVED**  
 OCT - 9 2001  
 GEOSCIENCE ASSESSMENT  
 OFFICE

2. 22216





**Echo Bay Mines Ltd.**

**Ogden Twp. Project  
Thomas Ogden Zone  
Drill Hole Plan**

Scale: 1:5000

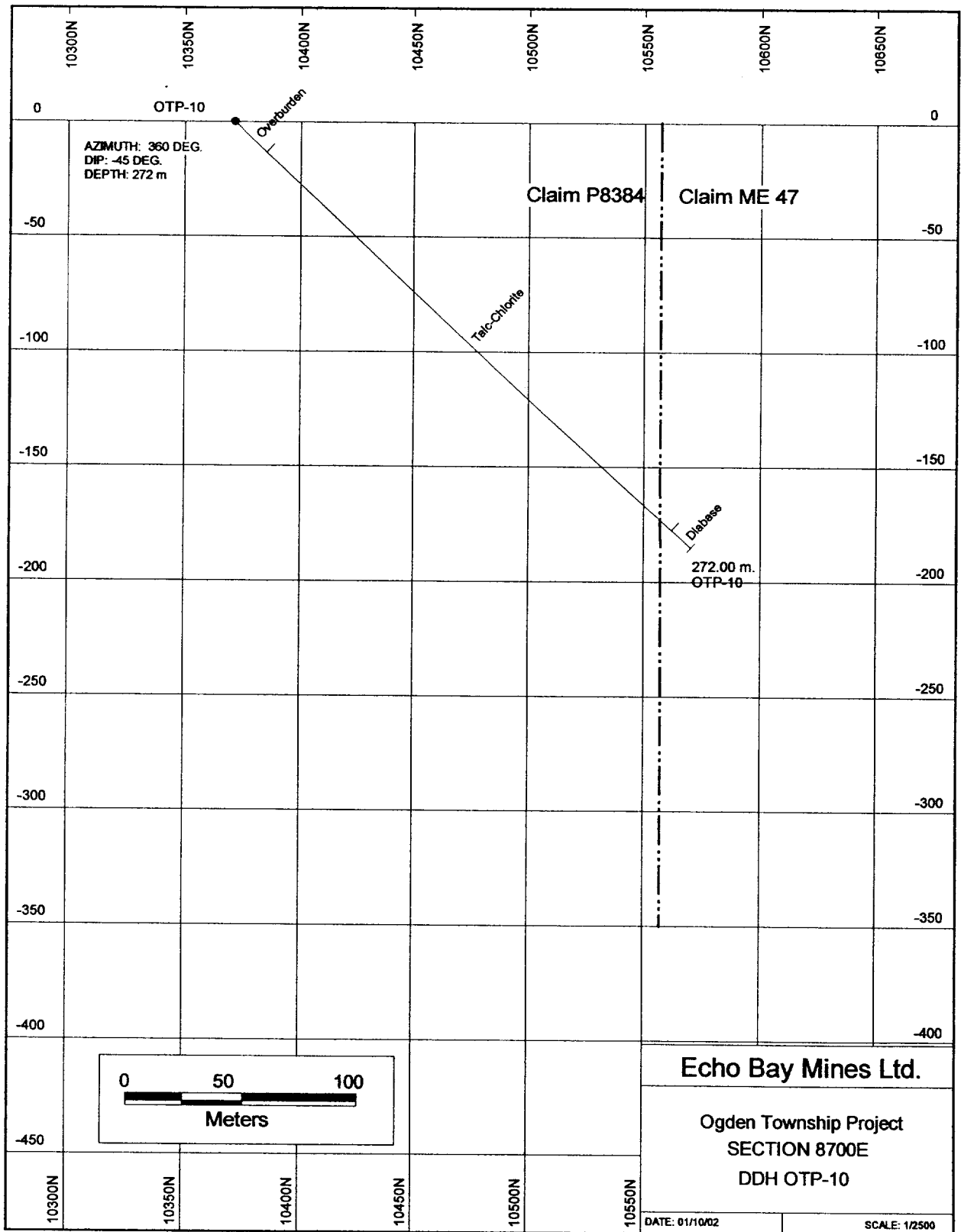
0. 000215

## ECHO BAY MINES LTD. - DIAMOND DRILL LOG

Drill Hole Number: OTP-10

								<u>Tests</u>	
Project Name:	Ogden Township Project	Grid Northing:	8700E	Measure:	Meters	Depth	Azi.	Dip	
Project Number:	737	Grid Easting:	10370N	Drilled By:	Norex Drilling	0.0		-45	
Claim Number:	P 8384, ME 47	Elevation:	0	Start:	6/28/01	20.0		-43	
Location:	Ogden Township	Azimuth:	360	Completed:	7/3/01	191.0		-43	
		Dip:	-45	Core Size:	NQ	272.0		-42	
		Length:	272m	Date(s) Logged:	3-Jul-01				
				Logged By:	Paul Degagne				

From (m)	To (m)	Rock Description		Sample	From (m)	To (m)	Length (m)	Au (ppb)	Au check (ppb)
		code	Description						
0.00	19.00		Overburden						
19.00	260.80		Talc-Chlorite (komatiite) - aphanitic, dark grey to black, talc and chlorite rich with numerous calcite stringers - spinafex textured section at 33m - unit varies in texture from massive to pillowed to poly sutured - variably magnetic throughout - numerous fault zones including: 58.6m to 59.0m (incl. 0.5m of ground core); 62.4m to 63.0m; 173.0m to 173.5m						
260.80	272.00		Diabase - fine to medium grained, equigranular, massive, dark grey in colour - magnetic						
	272.00		End Of Hole						

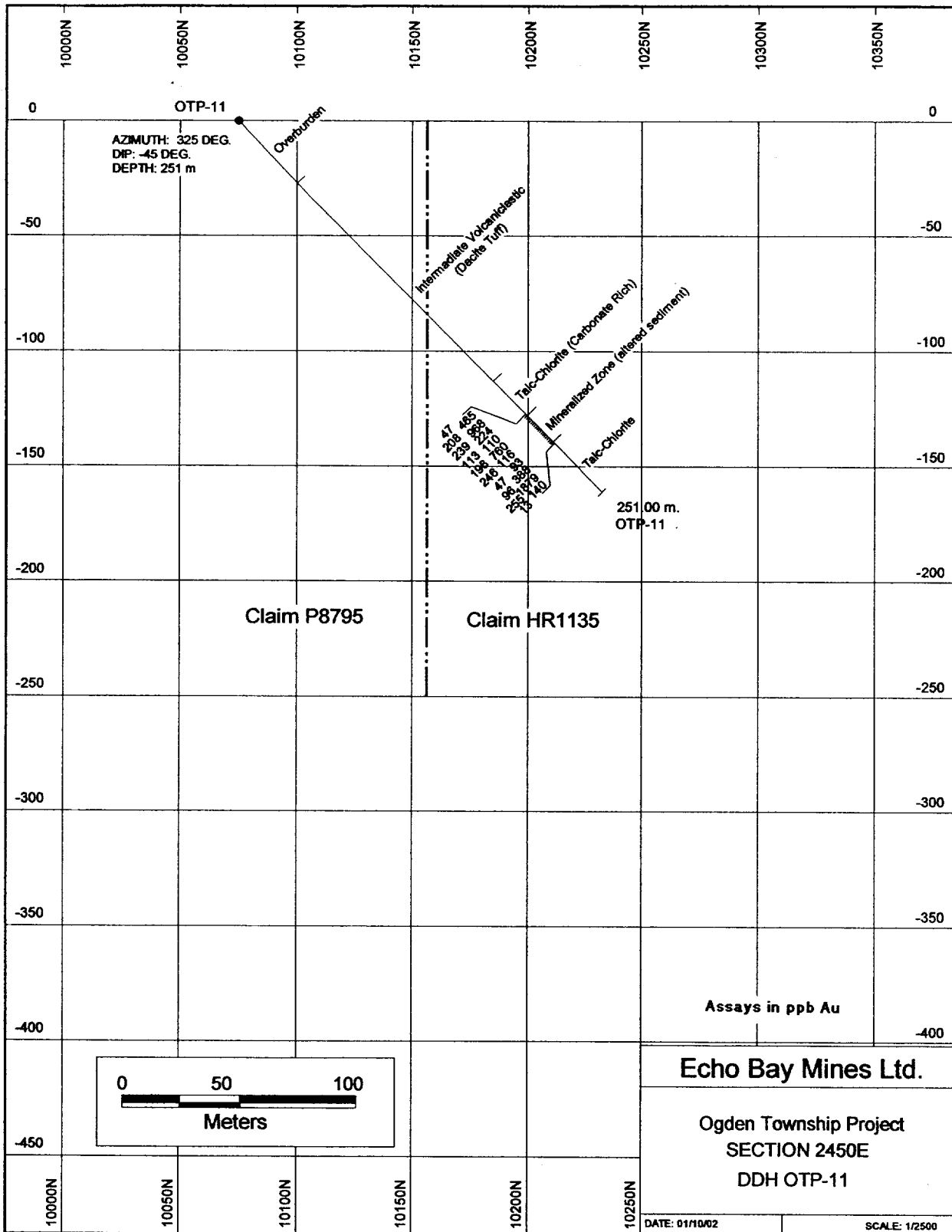


## ECHO BAY MINES LTD. - DIAMOND DRILL LOG

Drill Hole Number: OTP-11

Project Name:	Ogden Township Project	Grid Northing:	8450E	Measure:	Meters	Depth	Tests	
Project Number:	737	Grid Easting:	10075N	Drilled By:	Norex Drilling	0.0	Azi.	Dip
Claim Number:	P 8795, HR 1135	Elevation:	0	Start:	7/3/01	50.0		-45
Location:	Ogden Township	Azimuth:	325	Completed:	7/7/01	140.0		-38
		Dip:	-45	Core Size:	NQ	251.0		-41
		Length:	251m	Date(s) Logged:	7-Jul-01			-38
				Logged By:	Paul Degagne			

From (m)	To (m)	Rock Description		Sample	From (m)	To (m)	Length (m)	Au (ppb)	Au check (ppb)
		code	Description						
0.00	41.00		Overburden						
41.00	175.40		Dacite Tuff - well laminated, pale grey and grey-green interbeds at 45 degrees to core axis - local sections contain lapilli fragments (<2%) of mafic and felsic composition - matrix becomes more mafic (chloritic) towards bottom of section	858301	197.85	198.85	1.0	47	
				858302	198.85	199.85	1.0	465	
				858303	199.85	200.85	1.0	208	
				858304	200.85	201.85	1.0	968	
175.40	198.85		Talc-Chlorite (Carbonate Rich) - typical talc-chlorite (fine grained to aphanitic, black in colour) with up to 50% carbonate (calcite) as stringers, blebs throughout section - no visible sulphides	858305	201.85	202.85	1.0	239	
				858306	202.85	203.85	1.0	224	
				858307	203.85	204.85	1.0	113	
				858308	204.85	205.85	1.0	110	
198.85	216.65		Mineralized Zone - siliceous and possibly albitized light grey to grey-yellow sediments? - unit is well laminated and locally contains chlorite, sericite and fuchite clasts - secondary quartz as blebs and stringers are common throughout section - contains up to 2% fine disseminated Py, Po and Asp (locally to 4%)	858309	205.85	206.85	1.0	196	
				858310	206.85	207.85	1.0	760	
				858311	207.85	208.85	1.0	246	
				858312	208.85	209.85	1.0	116	
				858313	209.85	210.85	1.0	47	
				858314	210.85	211.85	1.0	93	
				858315	211.85	212.85	1.0	96	
216.65	251.00		Talc-chlorite - typical black, aphanitic and talc rich with very minor secondary calcite - textures vary from massive to pillowed to poly-sutured	858316	212.85	213.85	1.0	388	
				858317	213.85	214.85	1.0	255	
				858318	214.85	215.85	1.0	1879	
				858319	215.85	216.65	0.8	13	
	251.00		E.O.H.	858320	216.65	217.65	1.0	140	
			<b>zone averages 0.38 gpt Au / 17.0m</b>						

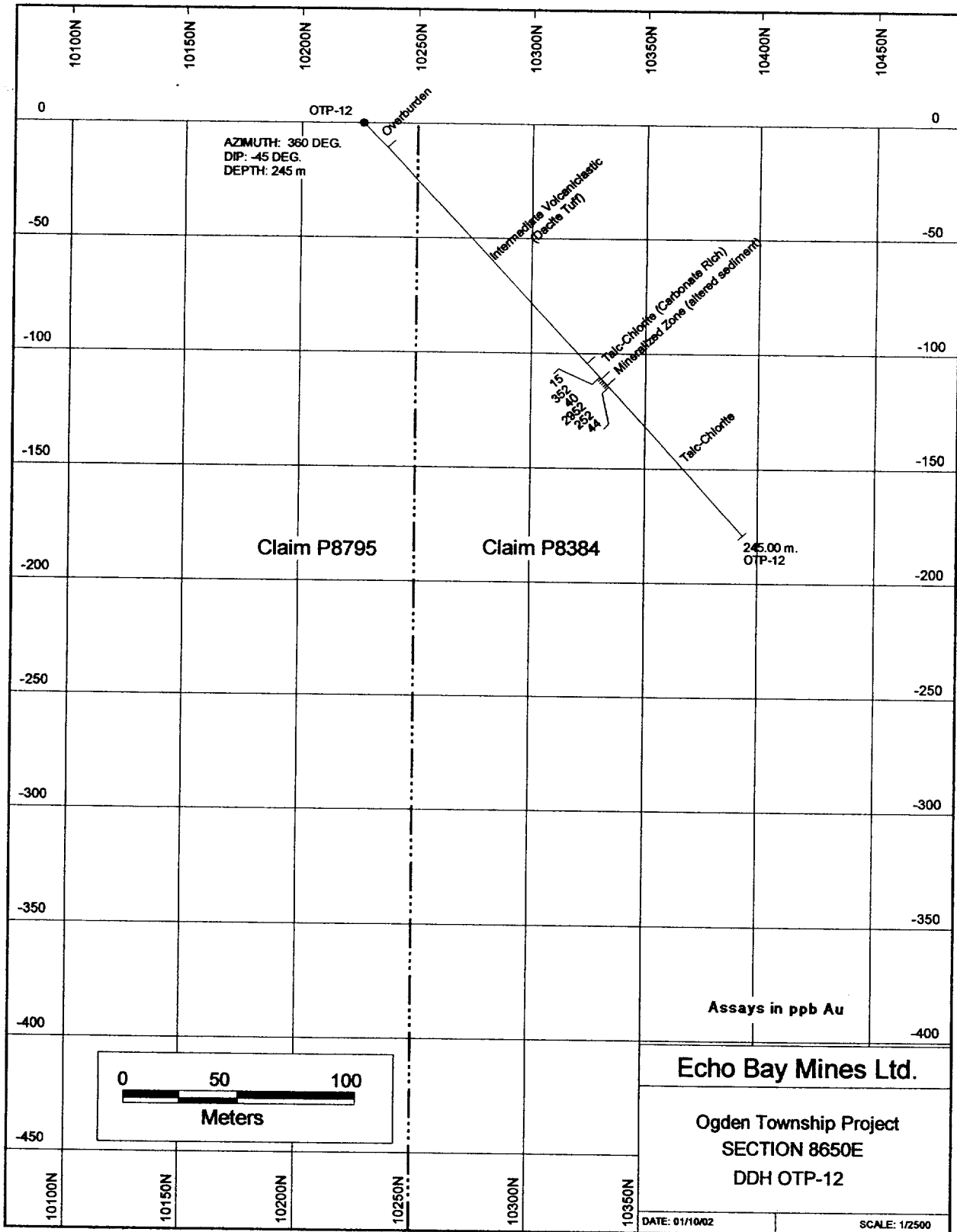


## ECHO BAY MINES LTD. - DIAMOND DRILL LOG

Drill Hole Number: OTP-12

Project Name:	Ogden Township Project	Grid Northing:	8650E	Measure:	Meters	Depth	<u>Tests</u>	
Project Number:	737	Grid Easting:	10225N	Drilled By:	Norex Drilling	0.0	Azi.	Dip
Claim Number:	P 8795, P8384	Elevation:	0	Start:	7/7/01	15.0		-45
Location:	Ogden Township	Azimuth:	360	Completed:	7/9/01	200.0		-45
		Dip:	-45	Core Size:	NQ	245.0		-49
		Length:	245m	Date(s) Logged:	10-Jul-01			-46
				Logged By:	Paul Degagne			

From (m)	To (m)	Rock Description		Sample	From (m)	To (m)	Length (m)	Au (ppb)	Au check (ppb)
		code	Description						
0.00	15.00		Overburden						
15.00	143.25		Dacite Tuff - well laminated, pale grey and grey-green interbeds - foliation/bedding changes from 30 to 50 degrees to core axis from top to bottom of section - fault zone from 40m to 42m	858321 858322 858323 858324	151.40 152.40 153.40 154.40	152.40 153.40 154.40 155.40	1.0 1.0 1.0 1.0	15 352 40 2952	
143.25	152.40		Talc-Chlorite (Carbonate Rich) - typical talc-chlorite (fine grained to aphanitic, black in colour) with up to 50% carbonate (calcite) as stringers, blebs throughout section - no visible sulphides	858325 858326	155.40 156.30	156.30 157.30	0.9 1.0	252 44	
152.40	156.30		Mineralized Zone Weak) - grey to greyish yellow, well laminated weak to moderately altered sediment with narrow (<10cm) intercalated sections of talc-chlorite - strongest alteration is from 152.4 to 153.1 and from 155.0 to 156.3, where interval is silicified and albitized with 1% diss. Pyrite, Asp - remaining intervals are generally unaltered to weakly sericitic with tr diss. py						
156.30	245.00		Talc-chlorite - typical black, aphanitic and talc rich with <10% secondary calcite - textures vary from massive to pillowed to poly-sutured						
	245.00		E.O.H.  Note: Hole was drilled to 245 meters to complete a stratigraphic fence with TOG-10  zone averages 0.89 gpt Au / 3.9m						







CHIMITEC  
BONDAR CLEGG



2. 222 16  
Certificat D'Analyse  
Assay Lab Report

CLIENT: ECHO BAY MINES

REPORT: T01-57156.0 ( COMPLETE )

PROJECT: 737

DATE RECEIVED: 11-JUL-01

DATE PRINTED: 17-JUL-01

PAGE 1 DE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB
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858301		47
858302		465
858303		208
858304		968
858305		239

858306		224
858307		113
858308		110
858309		196
858310		760

858311		246
858312		116
858313		47
858314		93
858315		96

858316		388
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Chimitec - Bondar Clegg

1322-B rue Harricana, Val d'Or, Québec, J9P 3X6

Tél: (819) 825-0178, Fax: (819) 825-0256



CHIMITEC  
BONDAR CLEGG



2 222 16

Certificat D'Analyse  
Assay Lab Report

CLIENT: ECHO BAY MINES  
REPORT: T01-57176.0 ( COMPLETE )

DATE RECEIVED: 17-JUL-01

PROJECT: OGDEN

DATE PRINTED: 23-JUL-01

PAGE 1 DE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	AuPulp G/T
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858317		255	
858318		1879	1.30
858319		13	
858320		140	
858321		15	

858322		352	
858323		40	
858324		2952	3.20
858325		252	
858326		44	

Chimitec - Bondar Clegg

1322-B rue Harricana, Val d'Or, Québec, J9P 3X6

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Ministry of  
Northern Development  
and Mines

Ministère du  
Développement du Nord  
et des Mines



Date: 2001-NOV-19

GEOSCIENCE ASSESSMENT OFFICE  
933 RAMSEY LAKE ROAD, 6th FLOOR  
SUDBURY, ONTARIO  
P3E 6B5

PAUL RHEAL DEGAGNE  
ECHO BAY MINES LTD.  
P.O. BOX 551  
TIMMINS, ONTARIO  
P4N 7E7 CANADA

Tel: (888) 415-9845  
Fax: (877) 670-1555

**Submission Number:** 2.22216  
**Transaction Number(s):** W0160.30892

Dear Sir or Madam

**Subject: Approval of Assessment Work**

We have approved your Assessment Work Submission with the above noted Transaction Number(s). The attached Work Report Summary indicates the results of the approval.

At the discretion of the Ministry, the assessment work performed on the mining lands noted in this work report may be subject to inspection and/or investigation at any time.

If you have any question regarding this correspondence, please contact LUCILLE JEROME by email at [lucille.jerome@ndm.gov.on.ca](mailto:lucille.jerome@ndm.gov.on.ca) or by phone at (705) 670-5858.

Yours Sincerely,

A handwritten signature in black ink, appearing to read "Ron Gashinski".

Ron Gashinski  
Supervisor, Geoscience Assessment Office

**Cc:** Resident Geologist  
Echo Bay Mines Ltd.  
(Claim Holder)

Assessment File Library  
Echo Bay Mines Ltd.  
(Assessment Office)

