



42A10SW0223 26 MACKLEM

010

DIAMOND DRILLING

TOWNSHIP: Macklem

REPORT No.: 26

WORK PERFORMED BY: Lac d'Amiante du Quebec Ltee.

<u>CLAIM No.</u>	<u>HOLE No.</u>	<u>FOOTAGE</u>	<u>DATE</u>	<u>NOTE</u>
P 512830	DAQ 83-1	687	July/83	(1)
P 528597	DAQ 83-2	534	July/83	(1)
P 512796	DAQ 83-3	756	July/83	(1)
P 512797	DAQ 83-4	696	July/83	(1)
P 512796	DAQ 83-5	527	Aug/83	(1)

NOTES: (1) #241-83

Diamond Drill Hole Location Map Scale 1in=500ft.



L168 E

L172 E

L176 E

L180 E

L184 E

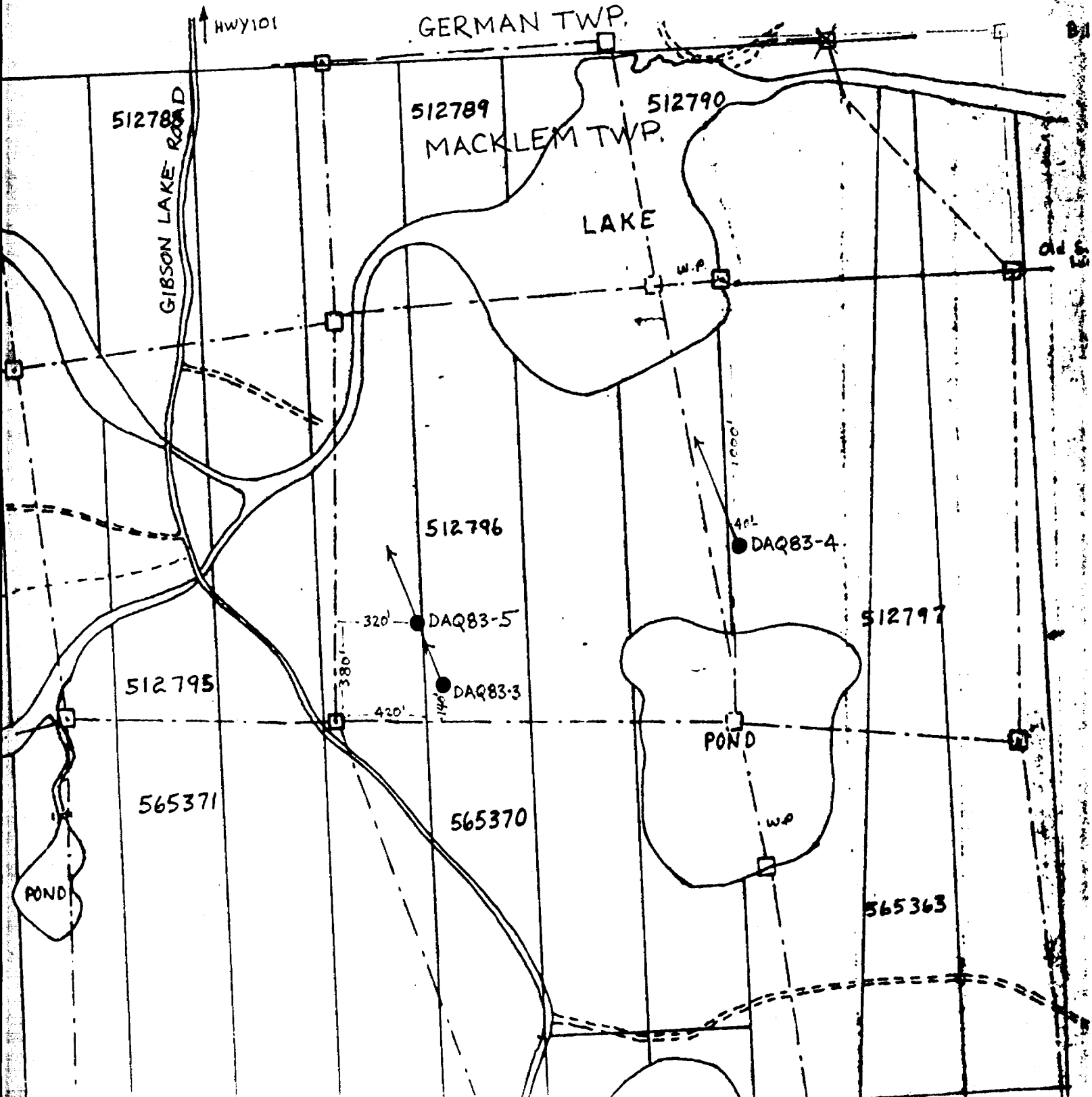
L188 E

L192 E

L196 E

L200 E

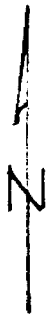
L204 E



512817

512818

512819



MACKLEM TWP.

DRILL HOLE
LOCATION MAP

512823

SCALE 1in = 500ft.

512822

512824

512828

528598

512827

NIGHTHAWK LAKE

520'
DAQ 83-2

AQUARIUS
SHAFT

BEAVER
POND

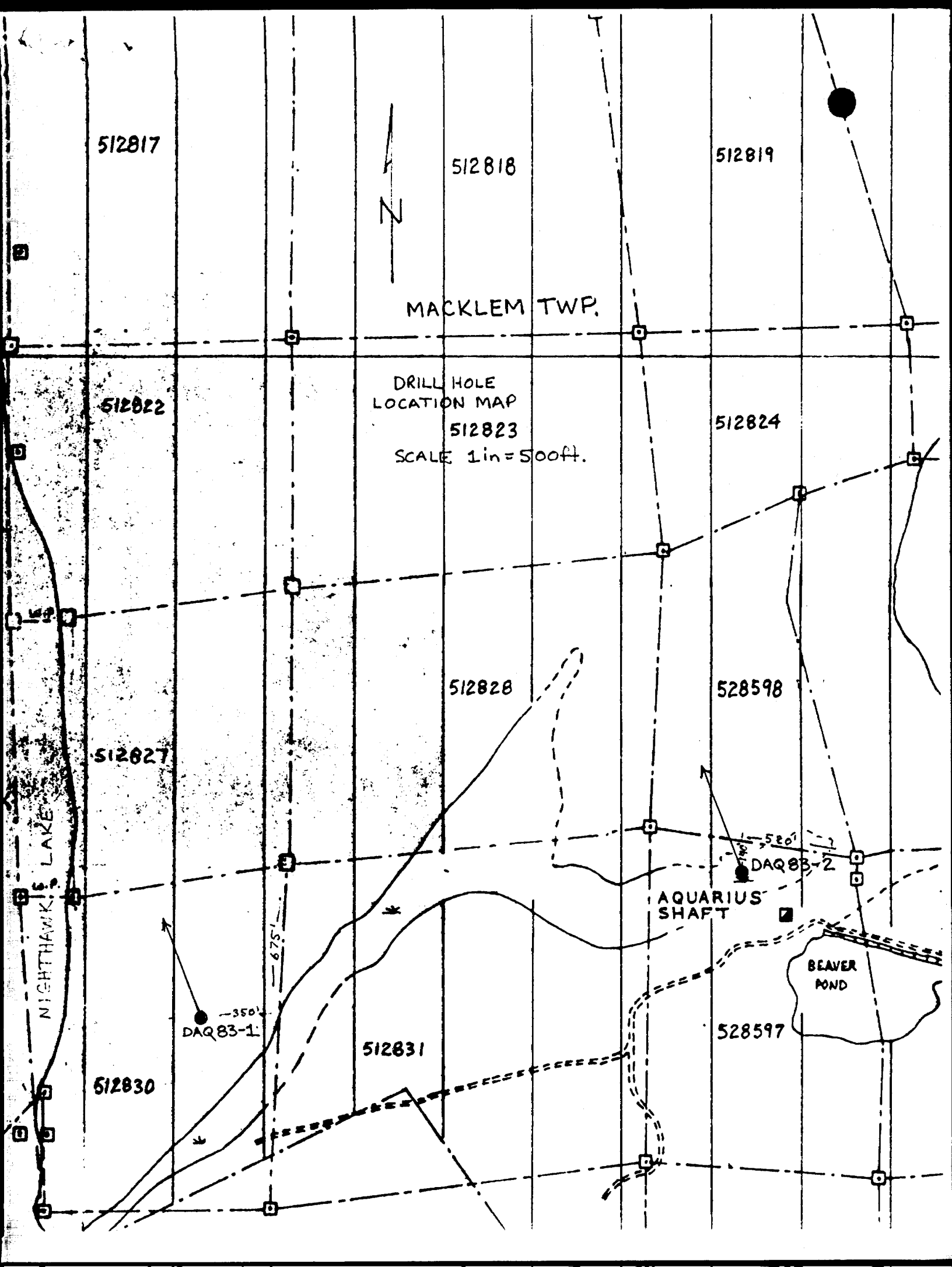
350'
DAQ 83-1

512831

528597

512830

675'



HOLE NO. DA283-1 Q-1

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

PAGE 1 OF 7

LOGGED BY R. [unclear]

DIAMOND DRILL LOG

DATE STARTED July 5/83

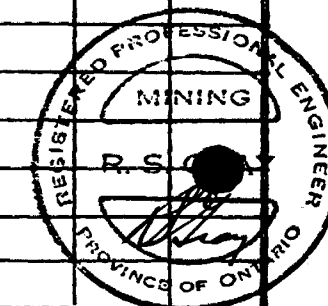
AQUARIUS PROJECT

DATE FINISHED July 11/83

Grid COLLAR CO-ORD E. 720 S. 5900 ELEV. _____ BEARING 340° A₂ DECLINATION -54.5° TOTAL DEPTH 687 CORE SIZE BQ CONTRACTOR Bradley B.

ACID TESTS 230, -65° 430, -65° 630, -66°

From	To	% Rec.	Description	Vein	% Matrix	Vein Material % Quartz % Carb	Sample No	From	To	Au	Ag
0	229.5		OVERBURDEN								
227.5	382		Talc-chlorite Bx - dk green lightly Bxed talc-chl. rock fragments in white carbonate, talc content varies from high to minor, carbonate cement Box 1 - 10%; Box 2 - 5%; Box 3 - 5%; Box 4 - 5%; 5 - 5%; 6 - 5%; 7 - 7%; 8 - 2%								
			238' - 1" carb. alb. vein								
			267.5' - gouge 1" < ?								
			306' - 1" carb. alb. vn < 80°								
			328.5' - slickenside < 35°								
			331' - gouge, 1/2" < 80°?								
			360.5' - 2" T.W. carb. vn. w. rock frags < 40°								
			372.5' - 1/2" T.W. alb. carb. vn. < 15°								
			382.0' - fault gouge < 35°								
382	382.8		Porphyritic andesite - light green								



HOLE NO. DAQ 83-1

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

PAGE 2 OF 7

LOGGED BY R. Mielke

DIAMOND DRILL LOG

DATE STARTED _____

AQUARIUS PROJECT

DATE FINISHED _____

COLLAR CO-ORD _____ E. _____ N. _____ ELEV. _____ BEARING _____ DECLINATION _____ TOTAL DEPTH _____ CORE SIZE _____ CONTRACTOR _____

ACID TESTS _____

From	To	% Rec.	Description	Vein	% Matrix	Vein Material % Quartz % Carb	Sample No	From	To	Au oz/t	Ag
			will light grey phenocrysts (< 1/8") bxd lower contact								
382.8	414		Talc-Chlorite Bx - ds per 328.5 to 382 except 385 to 414 contains more pronounced and thicker carbonate stringers (matrix or cement) with some albite ± qtz?								
			382.8-383 - broken & ground core, fault?								
			387-388 - " " " "								
			389-400 - " " " "								
414	422		Mixed Talc-chlorite-carbonate, lightly carbonated talc-chl. rock med green, brecciated "by" qtz- carb stringers, 419-423; much broken core w. gouge, faults?				34306	414	422	.016	
								419	422		
							34307	422	428	.082	
422	494		Carbonate Bx				34308	428	433	.003	
			422-428 - gradational, chlorite rich darker green, lightly Bxed				34309	433	438	.006	
			423-424 - 3% dissem. py.				34310	438	443	.002	
							34311	443	448	.004	

HOLE NO. DAQ 83-2 Q-2

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

PAGE 1 OF 8

LOGGED BY R. Mielke

DIAMOND DRILL LOG

DATE STARTED July 12/83

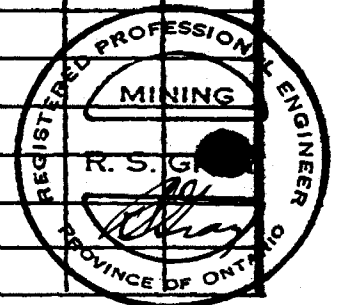
AQUARIUS PROJECT

DATE FINISHED July 15/83

Grid COLLAR CO-ORD 81+45 E. 52+60 N. ELEV. _____ BEARING 340° 42' DECLINATION -55.5° TOTAL DEPTH 534 CORE SIZE BQ CONTRACTOR Bratley Bros.

ACID TESTS 200', -64° 400', -65°

From	To	% Rec.	Description	Vein	% Matrix	Vein Material %Quartz %Carb	Sample No	From	To	Au oz/t	Ag
0	144		OVERBURDEN								
144	147		Diabase, very fine grained, dk grey massive - may be a boulder, upper & lower contact ground by drill								
147	177.4		Fault Breccia - fragments of carbonated volcanic rock which contains grey scaly spots and brown carbonate / limonite stained mottling, much irregular contorted white carb veinlets & stringers in places				34341	147	152	.002	
							34340	152	157	.002	
							34339	157	162	NIL	
							34338	162	172	.002	
								167	172		
							34337	172	177	.002	
			161.5 - 177.4 contains irregular talc-chlorite stringers & masses								
		166-72 50% recov.	10 - 2570								
			165 - 177.4 much broken and friable								
		172-177 70% recov.	core.								
			177 - 177.4 strong limonite staining & patches								



HOLE NO. DAQ83-2

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

PAGE 3 OF 8

LOGGED BY R. M. Velke

DIAMOND DRILL LOG

DATE STARTED _____

AQUARIUS PROJECT

DATE FINISHED _____

COLLAR CO-ORD _____ E. _____ N. _____ ELEV. _____ BEARING _____ DECLINATION _____ TOTAL DEPTH _____ CORE SIZE _____ CONTRACTOR _____

ACID TESTS _____

From	To	% Rec.	Description	Vein	% Matrix	Vein Material %Quartz %Carb	Sample No	From	To	Au oz/t	Ag
216.3	217.2		White carbonate vein, vuggy, 260°								
217.2	244		Mixed carbonate + talc chlorite Bx - strongly Bxed, pred. carb. rock with patches of talc-chlorite - strongly limonite stained in places - buff to greenish grey mottled rock with "irregular layers" of white carbonate + carb patches - grades to carbonate Bx				34332	217	222	.015	
							34331	222	227	.002	
							34330	227	232	.002	
							34329	232	237	.002	
							34328	237	244	.002	
244	263		Carbonate Bx - strongly Bxed dk green (chloritic) to green mottled in minor (5-10%) white carb and/or qtz stringers (CS 30960) - contains <1% pyrite as anhedral grains - 249.5 to 253.3 - silicified with fuchsite				34327	244	248	.002	
							34326	248	253	.050	
							34325	253	258	.010	
							24324	258	263	.009	

HOLE NO. DA983-2

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

PAGE 4 OF 8

LOGGED BY R. Mielke

DIAMOND DRILL LOG

DATE STARTED _____

AQUARIUS PROJECT

DATE FINISHED _____

COLLAR CO-ORD _____ E. _____ N. _____ ELEV. _____ BEARING _____ DECLINATION _____ TOTAL DEPTH _____ CORE SIZE _____ CONTRACTOR _____

ACID TESTS _____

From	To	% Rec.	Description	Vein	% Matrix	Vein Material %Quartz %Carb	Sample No	From	To	Au oz/t.	Ag
254.7			-254.7 to 255 - fragment of pink "aplite" (AD)								
			262.4 - 259.5 - as per 249.5 - 253.3								
263	268		Grey carbonate rock, massive grey to greenish-grey carbonate rock				34342	263	268	.002	
268	280.5		Carbonate Bx - grey to greenish (dark) rock with fragments and discont- inuous veins of white carb w. minor qtz, weak foliation $\angle 30 \times 60$ 273-275 weathered, w. limonite				34343	268	273	.003	
							34344	273	280.5	.006	
280.5	285.5		Grey carbonate rock - massive greyish green rock with light grey mottling				34345	280.5	285.5	.002	
285.5	293		Carbonate Bx - as per 268-280.5 except more qtz (29% vs 1%) 285.5 contact $< 60^\circ$				34346	285.5	290	.004	
							34347	290	293	.004	

HOLE NO. DAQ 80-2

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

PAGE 6 OF 8

LOGGED BY R. Mielke

DIAMOND DRILL LOG

DATE STARTED _____

AQUARIUS PROJECT

DATE FINISHED _____

COLLAR CO-ORD _____ E. _____ N. _____ ELEV. _____ BEARING _____ DECLINATION _____ TOTAL DEPTH _____ CORE SIZE _____ CONTRACTOR _____

ACID TESTS _____

From	To	% Rec.	Description	Vein	% Matrix	Vein Material %Quartz %Carb	Sample No	From	To	Au oz/t.	Ag	
312.6	364.5		Mixed carbonate rock + talc-chlorite rock Breccia - fragments of both with white carb-gtz (avg 20%) stringers and layers, foliated in places @ 326 < 50°; 329.5 < 90° - some intervals of carbonate rock				34352	313.6	320	.002		
							34353	320	325	.002		
							34354	325	330	.003		
							34355	330	335	.002		
							34356	335	340	.003		
							34357	340	345	.021		
329.7	357		Carbonate rock 329.7-335 vuggy limonite stained 335-345.7 pyritic zone (5% py) 345-348.7 within an interval of predom. (80%) qtz-carb 345-346.2 (Vg @ 345) 346-351 - limonite stained 348-348.5 - vuggy w. limonite 349.7-350.8 - vuggy w. limonite 351.5-364.5 - qtz breccia white qtz-carb with fragments of carb rock + talc-chl. rock talc-chl. becoming predom in lower half (358-364.5).				34358	345	346.2	1.800	Vg	P+M
		@ 365					34359	346.2	350	.003		
		3' core ground					34360	350.5	358	.005		
							34361	358	364.5	.014		

HOLE NO. DA083-3 Q-3

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

PAGE 1 OF 4

LOGGED BY R. Mielke

DIAMOND DRILL LOG

DATE STARTED July 18/83

AQUARIUS PROJECT

DATE FINISHED July 26/83

COLLAR CO-ORD 180+74 E. 23460 N. ELEV. _____ BEARING N20W DECLINATION -51° TOTAL DEPTH 756' CORE SIZE PQ CONTRACTOR Bratley Bros.

ACID TESTS 198', -61° 400', -60° 600', -59°

From	To	% Rec.	Description	Vein	% Matrix	Vein Material % Quartz % Carb	Sample No	From	To	Au	Ag
0	140		Overburden								
140	201.5		Andesite - diorite - greenish-grey massive rock andesite in fine grained diorite intervals								
201.5	220		Fine grained diorite - massive greenish grey rock with some flow brecciation?								
220	240		@ 220 hairline fault < 10° Andesite - diorite flow breccia greenish grey massive rock with wavy thin lenses of aphanitic diorite (green rock / breccia filling)								
			@ 221 - qtz filled 1/4" fault < 10°								
			@ 237 - " " 1/8" " < 10°								
			@ 240 - " " " " "								
240	249		Andesite - diorite as per 140-201.5 @ 242, 1/8" qtz filled fault < 35° 240-244.5 - some porous groundwater leached intervals								



HOLE NO. DAQ 83-4 Q-4

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

PAGE 1 OF 5

LOGGED BY R. Mielke

DIAMOND DRILL LOG

DATE STARTED July 27/83

AQUARIUS PROJECT

DATE FINISHED Aug 4/83

COLLAR CO-ORD 192440 E. 19400 S. ELEV. _____ BEARING 340° DECLINATION -53° TOTAL DEPTH 696' CORE SIZE BQ CONTRACTOR Bradley Bros.

ACID TESTS 100', -56° 200', -56° 400', -57° 600', -56°

From	To	% Rec.	Description	Vein	% Matrix	Vein Material		Sample No	From	To	Au	Ag
						% Quartz	% Carb					
0	145		Overburden									
145	250.5		Variolitic Basalt, green pillowed basalt with variolites at margins and breccia w. white dolomite and/or white albite-gtz "cement" - minor patches of coarse pyrite (<5%) - overall 10% variolitic, 30% breccia 174-185' weathered and vuggy fractures. < 25° w. epidote 240'-3.5' tw. coarse white calcite vein < 45°									
250.5	260.7		Flow Top Breccia - frags. of basalt with white carbonate and/or albite - patches of epidote									
260.7	311		Variolitic Basalt - as per 145-250.5 @ 285' - pink carb. - feldspar vein, 4" tw < 40°									
311	319		Gabbro - fine grained massive, dk green									



HOLE NO. DAQ 83-4

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

LOGGED BY R. Mielke

DIAMOND DRILL LOG

DATE STARTED _____

AQUARIUS PROJECT

DATE FINISHED _____

COLLAR CO-ORD _____ E. _____ N. _____ ELEV. _____ BEARING _____ DECLINATION _____ TOTAL DEPTH _____ CORE SIZE _____ CONTRACTOR _____

ACID TESTS _____

From	To	% Rec.	Description	Vein	% Matrix	Vein Material % Quartz % Carb	Sample No	From	To	Au oz/t.	Ag
			623.2-623.5 - fault zone with gouge $\angle 60^\circ$								
623.5	629.5		talc-chlorite-carbonate rock, massive dk green to black with carbonate spots, dissem. mt. and a few white carb-talc stringers 625.8', $\frac{3}{4}$ " T.W. carb-talc vein $\angle 30^\circ$				34371	623.5	629.5	NIL	
629.5	664		Talc-chlorite Bx, as per 584-623.5 except 30% broken & ground core (gouge?) 631.5-632 - spinifex - foliated in places $\angle 20^\circ$								
664	674.5		Carbonated Granodiorite - grey calcite rich med. grained rock with albite, actinolite? & chlorite 1% dissem. pyrite				34372 34373	664 669	669 674.5	.012 .020	

HOLE NO. DAQ 83-5

ASARCO EXPLORATION COMPANY OF CANADA LIMITED

PAGE 1 OF 2

LOGGED BY R. Muelke

DIAMOND DRILL LOG

DATE STARTED Aug 8/83

AQUARIUS PROJECT

DATE FINISHED Aug 11/83

COLLAR CO-ORD 179+88.5 E. 21+25 S N. ELEV. _____ BEARING N20W DECLINATION -44° TOTAL DEPTH 527' CORE SIZE Bq CONTRACTOR Bradley Bros. Ltd.

ACID TESTS @100', -55° @400', -56°

From	To	% Rec.	Description	Vein	% Matrix	Vein Material		Sample No	From	To	Au oz./t.	Ag
						% Quartz	% Carb					
0	186		Overburden									
186	225		Diorite - med to fine grained massive green, <1% dissem. pyrite									
225	370.5		Varicolitic Basalt - pillowed with small varicolitic zones at pillow edges with white albite-gte-carb flow breccia in places <1% pyrite irregular distributed 10-15% varicolitic, 2% breccia 264.7' - 1" vein of mauve gte w. epidote < 85° 216.8' - 1" interval of mauve gte & epidote veins < 55°									
370.5	469		Rhyolite - greenish grey to white massive rhyolite with up to 1% disseminated pyrite, contains numerous hair like fractures with dk green chlorite and					34375	420	425	.039	
								34376	456	461	.015	





Report of Work **Macklem**
Burman # 241
1 Cody.

The Mining Act

Instructions - Supply required data on a separate form for each type of work to be recorded (see table below).
- For Geo-technical work use form no. 1362 "Report of Work (Geological, Geophysical, Geochemical and Expenditures)".

P-512812

Name and Postal Address of Recorded Holder: **Lac d'Amiante du Quebec Ltee**
Prospector's Licence No.: **T1131**

Hwy 112, Black Lake, Quebec GON 1A0

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed	Mining Claim			Mining Claim			Mining Claim		
	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.	Prefix	Number	Work Days Cr.
3,200		See			See			See	
for Performance of the following work. (Check one only) <input type="checkbox"/> Manual Work <input type="checkbox"/> Shaft Sinking Drifting or other Lateral Work. <input type="checkbox"/> Compressed Air, other Power driven or mechanical equip. <input type="checkbox"/> Power Stripping <input checked="" type="checkbox"/> Diamond or other Core drilling <input type="checkbox"/> Land Survey		Attachment 1			Attachment 1			Attachment 1	

All the work was performed on Mining Claim(s): **P512830, P528597, P512796, P512797**

Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

See Attachment -2-

ASSIGNMENT FILED
RESEARCH OFFICE
OCT 18 1983
RECEIVED

RECORDED
SEP 2 1983
Receipt No. _____

FOR QUANTINE MINING DIVISION
RECEIVED
SEP 2 1983
A.M. P.M.
7 8 9 10 11 12 1 2 3 4 5 6

Date of Report: **August 30/83**
Recorded/Holder/Agent (Signature): *[Signature]*

Certification Verifying Report of Work

I hereby certify that I have a personal and intimate knowledge of the facts set forth in the Report of Work annexed hereto, having performed the work or witnessed same during and/or after its completion and the annexed report is true.

Name and Postal Address of Person Certifying: **R.J. Dean, Asarco Exploration Co. of Canada Limited, 350 Bay Street,**

12th Floor, Toronto, Ontario M5H 2S6
Date Certified: **August 30/83**
Certified by (Signature): *[Signature]*

Table of Information/Attachments Required by the Mining Recorder

Type of Work	Specific information per type	Other information (Common to 2 or more types)	Attachments
Manual Work	Nil	Names and addresses of men who performed manual work/operated equipment, together with dates and hours of employment.	Work Sketch: these are required to show the location and extent of work in relation to the nearest claim post.
Shaft Sinking, Drifting or other Lateral Work			
Compressed air, other power driven or mechanical equip.	Type of equipment	Names and addresses of owner or operator together with dates when drilling/stripping done.	
Power Stripping	Type of equipment and amount expended. Note: Proof of actual cost must be submitted within 30 days of recording.		
Diamond or other core drilling	Signed core log showing; footage, diameter of core, number and angles of holes.		Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.	Nil	Nil

Attachment -1-

Distribution of Assessment Credit

Macklem Township

<u>Claim No.</u>	<u>Days Credit (Total Applied)</u>	<u>Claim No.</u>	<u>Days Credit (Total Applied)</u>
P512812	56 (200)	P528722	80 (200)
P512813	56 (200)	P528723	40 (200)
P512814	36 (200)	P545387	20 (140)
P512815	36 (200)	P545388	20 (140)
P512817	56 (200)	P545389	20 (140)
P512818	56 (200)	P545390	20 (140)
P512819	36 (200)	P545391	20 (140)
P512820	36 (200)	P545392	20 (140)
P512822	56 (200)	P545393	20 (140)
P512823	56 (200)	P545394	20 (140)
P512824	36 (200)	P545395	20 (140)
P512825	36 (200)	P545396	20 (140)
P512827	56 (200)	P545397	20 (140)
P512828	56 (200)	P545398	20 (140)
P512830	56 (200)	P565355	20 (140)
P512831	56 (200)	P565356	20 (140)
P512832	20 (200)	P565357	20 (140)
P512788	20 (200)	P565358	20 (140)
P512789	30 (200)	P565359	20 (140)
P512790	30 (200)	P565360	20 (140)
P512793	30 (200)	P565361	20 (140)
P512795	20 (200)	P565362	20 (140)
P512796	20 (200)	P565363	20 (140)
P512797	30 (200)	P565364	30 (140)
P512800	10 (200)	P565365	20 (140)
P512804	20 (200)	P565366	20 (140)
P512805	20 (200)	P565367	20 (140)
P512806	40 (200)	P565368	20 (140)
P528597	80 (200)	P565369	20 (140)
P528598	80 (200)	P565370	20 (140)
P546727	80 (200)	P565371	20 (140)
P546915	80 (200)	P565372	20 (140)
P528716	40 (200)	P565373	20 (140)
P528717	40 (200)	P565374	20 (140)
P528718	60 (200)	P565375	30 (140)
P528719	60 (200)	P565376	30 (140)
P528720	40 (200)	P565377	40 (140)
P528721	49 (200)	P565378	30 (140)
		P565379	20 (140)
		P565380	20 (140)
		P565381	20 (140)

Attachment -1-

Distribution of Assessment Credit

Macklem Township

<u>Claim No.</u>	<u>Days Credit</u> <u>(Total Applied)</u>	
P565382	20	(140)
P565432	20	(140)
P565407	20	(140)
P565408	20	(140)
P565409	20	(140)
P565410	20	(140)
P565411	20	(140)
P565412	20	(140)
P565413	20	(140)
P565414	20	(140)
P565415	20	(140)
P565416	20	(140)
P565417	20	(140)
P565418	20	(140)
P565419	20	(140)
P565420	20	(140)
P565421	20	(140)
P565422	20	(140)
P565423	20	(140)
P565424	20	(140)
P565425	20	(140)

Cody Township

P565426	20	(140)
P565427	20	(140)
P565428	20	(140)
P565429	20	(140)
P565430	20	(140)
P565431	20	(140)

German Township

P512807	5	(185)
P512808	20	(200)



Attachment -2-

Report of Work: -- Required Information

Owner/Operator: -- Bradley Bros. Diamond Drilling
P.O. Box 485
Timmins, Ontario

Core Size: BQ

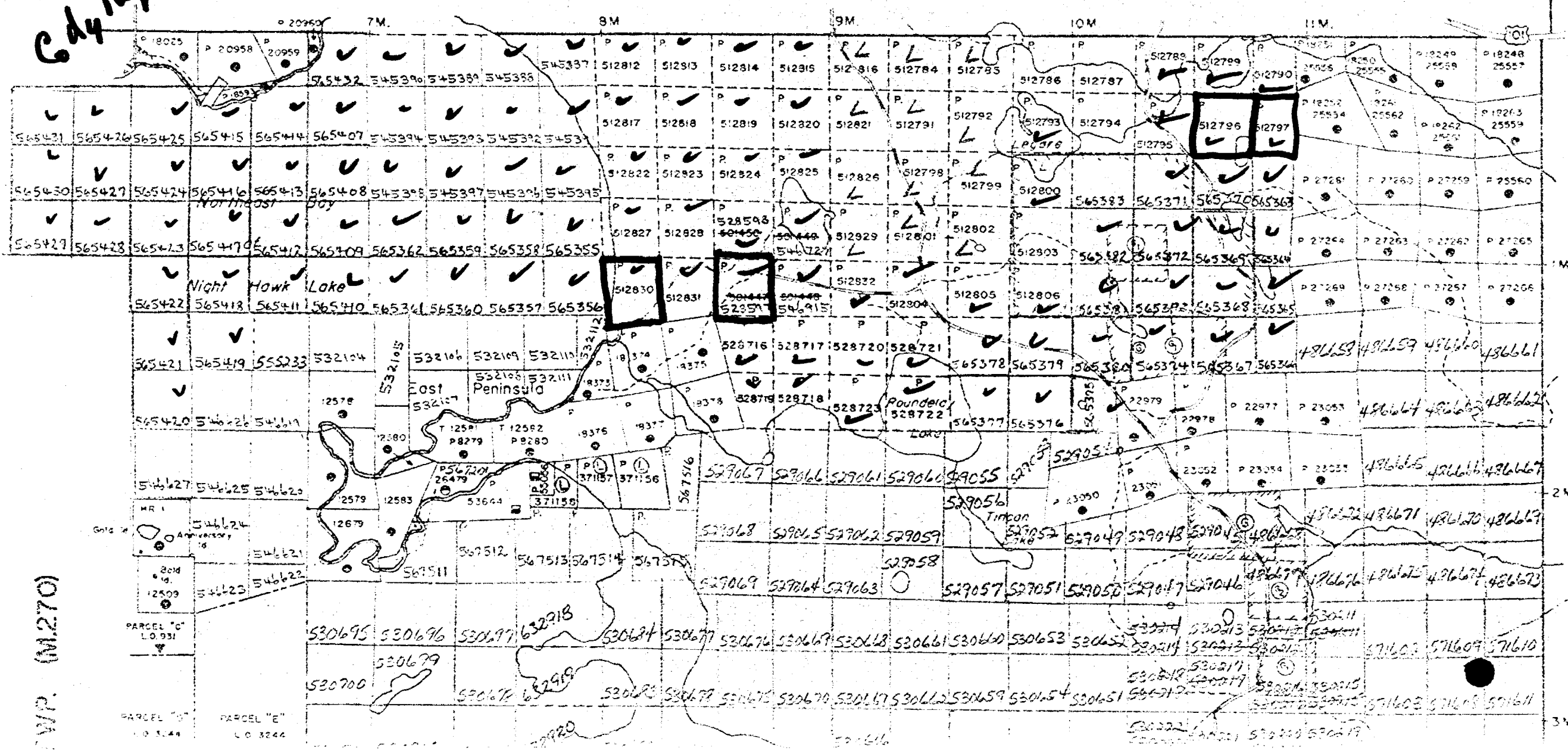
<u>Hole</u>	<u>Footage</u>	<u>Dip</u>	<u>Date of Drilling</u>
DAQ83-1	687	-54.5°	July 5 to July 11, 1983
DAQ83-2	534	-55.5°	July 12 to July 15, 1983
DAQ83-3	756	-51°	July 18 to July 26, 1983
DAQ83-4	696	-53°	July 27 to Aug. 4, 1983
DAQ83-5	<u>527</u>	-44°	Aug. 8 to Aug. 11, 1983
Total Footage	3,200 Feet = 3,200 Days Credit		



GERMAN TWP. (M.283)

*Wackam Top.
M 295*

Cody Top.



TWP. (M.270)