



52F16NW0089 52F16NW0011C1 ECHO

010

Diamond Drilling

Township of Echo

Report NO: 19

Work performed by: Denison Mines Limited

Claim NO	Hole NO	Footage	Date	Note
PA 31877	1	476'	July/63	
	3	346'	July/63	
PA 31878	4	433'	July/63	
PA 31882	6	332'	Aug/63	
	<u>4 DH</u>	<u>1587'</u>		

Notes:

DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite Ex-454

HOLE NO. 1

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED July 15, 1963

LATITUDE 12+00S DATUM _____ COMPLETED July 19, 1963

DEPARTURE 150'E of line 27W BEARING 328° declination 5°E ULTIMATE DEPTH 476'

10,022.0

ELEVATION 2 1/2 casing above ground DIP -45° test at 400' = 45° PROPOSED DEPTH 475'

Footage from top of casing

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	MoS₂ %	MoS₂ %	Au BURGE GOLD \$	Bi
0-37	Overburden - casing to 38'	913	37-40	Tr	Tr	Tr	
37-47.5	Quartz vein milky streaky patches of fibrous green ampniboles. Fine MoS ₂ at 40, 42.5, 44.5, 46.5, minor pyrite.	914	40-45	Tr.	0.01	Tr.	
		915	45-50	Tr.	Tr.	Tr.	
		916	269.8-270.5	Tr.		Tr.	
47.5-50.0	Sediments chlorite schist with 40% pink vein quartz and fine MoS ₂ .						
50.0-74.5	Sediments with quartz lenses 1" amphibolitized pyrite bdg 80° to 90° to C.A. pyrrhotite, minor chalcopyrite.						
74.5-252.7	Sediments argillaceous quartzites 81.5-87.5 pyrite pyrrhotite & minor chalcopyrite near quartz veins 2" at 102', 10" at 114' bdg 85-90° to C.A. Chalco. & pyrrhotite increasing to depth.	917	275-280.5			Tr.	
		918	280.5-285.5			Tr.	
		919	285.5-288.5			Tr.	
252.7-254.1	Aplite, fine molybdenite contact & bdg. 60° to C.A.	920	288.5-292			Tr.	
254.1-260.2	Sediments coarse grained at end with much biotite	921	292-293.5	Tr.		Tr.	
260.2-260.7	Quartz. molybdenite	922	293.5-295	Tr.		Tr.	
260.7-261.5	Lost core						
261.5-263.0	Pegmatite & schist molybdenite, rock vuggy 70% core recovery.						
263.0-263.7	Lost core.						
263.7-265.8	Schist biotite coarse grained.						
265.8-267.0	Lost core.						

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TO FOLLOW**

DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite Ex-454

HOLE NO. 1

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED July 15, 1963

LATITUDE 124008

DATUM _____

COMPLETED July 19, 1963

DEPARTURE 150' E of line 27W
10,022.0

BEARING 328° declination 5° E

ULTIMATE DEPTH 476'

ELEVATION 2 1/2 casing above ground
Footages from top of casing

DIP -45° test at 400' = -45°

PROPOSED DEPTH 475'

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Molybdenum	Au GOLD %	Bi
0-37	Overburden - casing to 38'	913	37-40	Tr	Tr	Tr
37-47.5	Quartz vein milky streaky patches of fibrous green amphiboles. Fine MoS ₂ at 40, 42.5, 44.5, 46.5, minor pyrite	914	40-45	Tr	0.01	Tr
		915	45-50	Tr	Tr	Tr
		916	267.8-276.5	Tr		Tr
47.5-50.0	Sediments chlorite schist with 40% pink vein quartz and fine MoS ₂ .					
50.0-74.5	Sediments with quartz lenses 1" amphibolized pyrite bdg 80° to 90° to C.A. pyrrhotite, minor chalcopyrite.					
74.5-252.7	Sediments argillaceous quartzites 81.5-87.5 pyrite pyrrhotite & minor chalcopyrite near quartz veins 2" at 102', 10" at 114' bdg 85°-90° to C.A. Chalco. & pyrrhotite increasing to depth.	917	275-286.5			Tr
		918	286.5-288.5			Tr
		919	288.5-289.5			Tr
252.7-254.1	Aplite, fine molybdenite contact & bdg. 60° to C.A.	920	289.5-292			Tr
254.1-260.2	Sediments coarse grained at end with much biotite	921	292-293.5	Tr		Tr
260.2-260.7	Quartz, molybdenite	922	293.5-295	Tr		Tr
260.7-261.5	Lost core					
261.5-263.0	Pegmatite & schist molybdenite, rock vuggy 70% core recovery.					
263.0-263.7	Lost core.					
263.7-265.8	Schist biotite coarse grained.					
265.8-267.0	Lost core					

DRILLED BY Continental D.D. Henry Daigle Foreman

SIGNED F. Q. Barnes

DIAMOND DRILL RECORD

PROPERTY _____

Lateral Molybdenite Ex-454

HOLE NO. 1

SHEET NUMBER 2

SECTION FROM _____ TO _____

STARTED _____

LATITUDE _____

DATUM _____

COMPLETED _____

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH _____

ELEVATION _____

DIP _____

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	MoS₂ %	^{Au} MoS₂ MoS₂ %	Bi		
267.0-268.7	Sediments coarse biotite at each ground end bdg. 70° to C.A							
268.7-269.8	Lost Core.							
269.8-270.0	Schist coarse grained black much biotite.							
270.0-270.5	Quartz & molybdenite							
270.5-275.0	Lost core.							
275.0-292.0	Pegmatite coarse molybdenite.							
292.0-292.3	Schist - fine molybdenite.							
292.3-295.0	Aplite vuggy from leached sulphide fine but minor molybdenite.							
295.0-316	Aplite grading into granodiorite pink fine grained minor fine molybdenite 1" quartz veins 20° C.A at 301	2651A	301-302.5	N11				
316-346.5	Granodiorite medium to coarse grained pink feldspar 5% mafic molybdenite flakes at 337.							
346.5-384	Aplite fine grained pink with medium grained granodiorite phases 1' quartz vein 45° C.A at 375.							
384-409	Granodiorite.							
409-424	Aplite.							
424-448	Granodiorite - ground core 440-442; 443-445.							
448-455.5	Aplite.							
455.5-471	Granodiorite & aplite							
471-476	Aplite ½" quartz at 476, minor molybdenite at 475.							

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DIAMOND DRILL RECORD

 PROPERTY Lateral Molybdenite No-454

 HOLE NO. 1

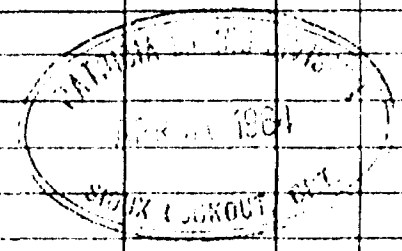
 SHEET NUMBER 2 SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

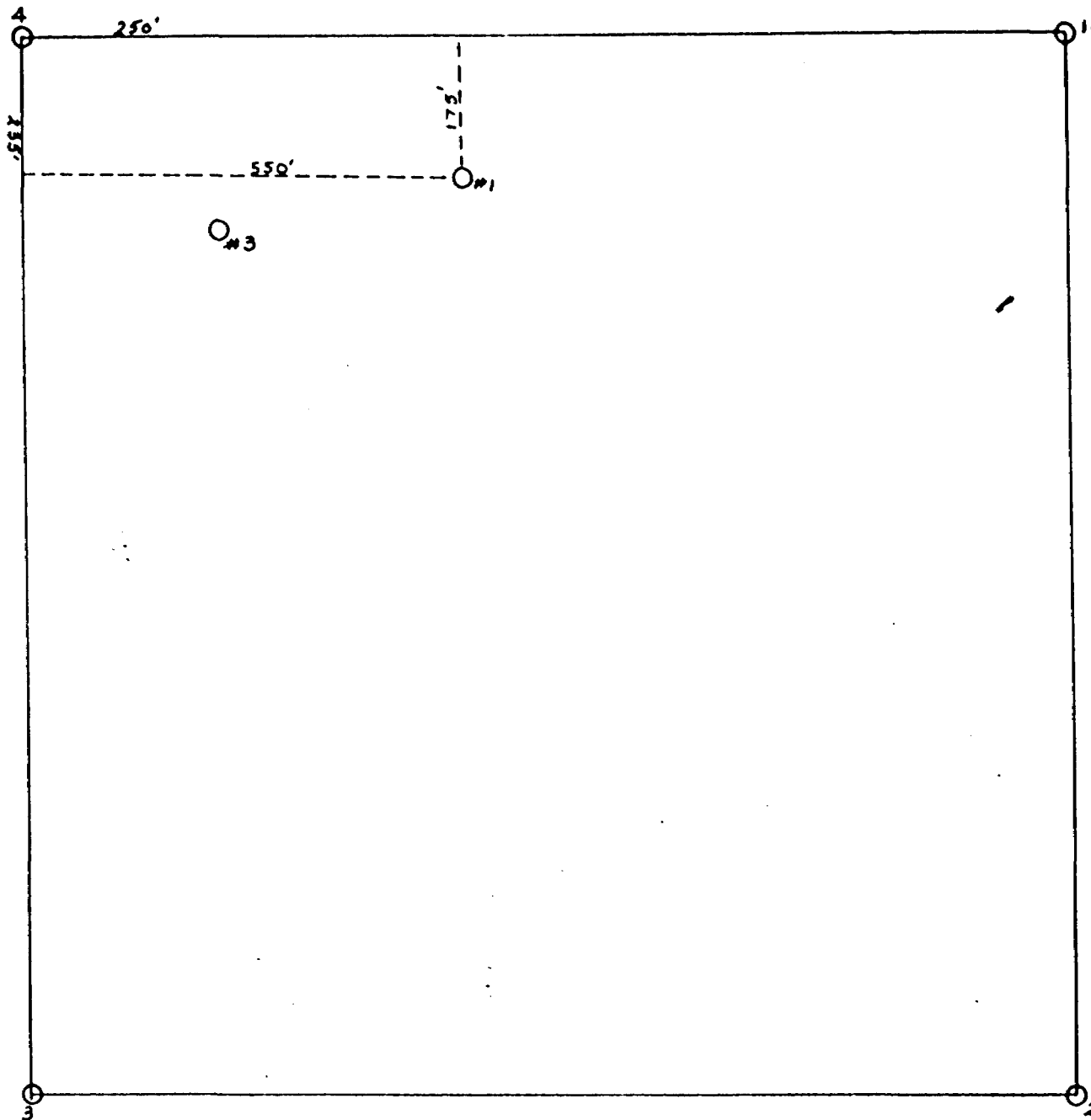
ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	No. of specimens	Air charge used	Bl
267.0-268.7	Sediments coarse biotite at each ground end bdg. 70° to C.A.					
268.7-269.8	Lost core.					
269.8-270.0	Schist coarse grained black much biotite.					
270.0-270.5	Quartz & molybdenite					
270.5-273.0	Lost core.					
273.0-292.0	pegmatite coarse molybdenite.					
292.0-292.3	Schist - fine molybdenite.					
292.3-295.0	Aplite vuggy from leached sulphide fine but minor molybdenite.					
295.0-316	Aplite grading into granodiorite pink fine grained minor fine molybdenite 1" quartz veins 20° C.A. at 301.	2651A	20-22.5	N11		
316-346.5	Granodiorite medium to coarse grained pink feldspar 5% mafic molybdenite flakes at 337.					
346.5-384	Aplite fine grained pink with medium grained granodiorite phases 1' quartz vein 45° C.A. at 375.					
384-409	Granodiorite.					
409-424	Aplite.					
424-448	Granodiorite - ground core 440-442; 443-445.					
448-455.5	Aplite.					
455.5-472	Granodiorite & aplite					
472-476	Aplite 1/2" quartz at 476, minor molybdenite at 475.					



DRILLED BY _____

 SIGNED F. Q. Barnes



PATRICIA MINING DIVISION
 APR 30 1964
 SIOUX LOOKOUT, GHT.

1" = 200'

DENISON MINES LIMITED

OPERATIONS DIVISION

PROPERTY LATERAL MOLYBDENUM

LOCATION ECHO TWP.

MAP NO. D.D.H. LOCATION CLAIM Pa 31877

SCALE 1" = 200' DRAWN BY F.Q.B. PROJECT EX 454

DATE 16 Oct. 1963 CHECKED BY [Signature]

DIAMOND DRILL RECORD

PROPERTY

Lateral Molybdenite Ex-454

HOLE NO. 3

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED July 21/63

LATITUDE 11 + 50 S

DATUM _____

COMPLETED night of July 24/63

DEPARTURE 150' W 27 + 00 W

BEARING 345°

ULTIMATE DEPTH 346'

10,021.2

ELEVATION Casing 3' above ground

DIP -45° test at 300' = 40°

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	COOK MOS, %	STUCK Au GOLDR GOLDR	Bi tr		
0-42	Overburden casing pipe							
42-43	Sediments(hornblende gneiss) green medium grained, string foliation to core; composed mostly of hornblende, quartz, disseminated pyrite, few blebs of Molybdenite and chalcopyrite.							
43-47.5	Quartz vein with 0.3 inches of sediment 46.0-46.3 white milky quartz contains occasional blebs of pyrite	2652A	4.8	Nil				
47.5-79.5	Sediments(hornblende gneiss)-green medium grained strong foliation mostly at an angle 70-75° to core axis, quartz, hornblende, pyrite and in a few places a few grains of molybdenite.							
79.5-80.0	Granite - white medium coarse grained quartz feldspar and a few tiny blebs of molybdenite and pyrite.	2653A	0.5	0.15				
80.0-144.0	Sediments medium grained quartz hornblende biotite blebs of pyrite, pyrrhotite and chalcopyrite, the rock is cut by occasional tiny stringers of quartz and granite at angle of either 70° or 30°(right angles to the core axis). Near contact the foliation is between 60-70 to core axis. Contact with granite at 144.0							
144.0-165.0	Granodiorite - pink coarse grained quartz feldspar							

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DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite Ex-154 HOLE NO. 3

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED July 21/63
 LATITUDE 11 + 50 S DATUM _____ COMPLETED night of July 21
 DEPARTURE 150° W 27 + 00 W BEARING 345° ULTIMATE DEPTH 346'
 ELEVATION 10,021.2 Casing 3' above ground DIP -45° PROPOSED DEPTH _____
Test at 300' - 40'

Not see how the
 casing was
 installed

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	% Mo	% Cu		
0-42	Overburden casing pipe						
42-43	Sediments (hornblende gneiss) green medium grained, strong foliation to core; composed mostly of hornblende, quartz, disseminated pyrite, few blebs of Molybdenite and chalcopyrite.						
43-47.5	Quartz vein with 0.3 inches of calcite 45.0-46.3 white milky quartz contains occasional blebs of pyrite.	2652A	4.8	NIL			
47.5-79.5	Sediments (hornblende gneiss) - green medium grained strong foliation mostly at an angle 70-75° to core axis, quartz, hornblende, pyrite and in a few places a few grains of Molybdenite.						
79.5-80.0	Granite - white medium coarse grained quartz feldspar and a few tiny blebs of Molybdenite and pyrite.	2653A	0.5"	0.15			
80.0-144.0	Sediments medium grained quartz hornblende biotite blebs of pyrite, pyrrhotite and chalcopyrite, the rock is cut by occasional tiny stringers of quartz and granite at angle of either 70° or 30° (right angles to the core axis). Near contact the foliation is between 60-70 to core axis. Contact with granite at 144.0.						
144.0-165.0	Granodiorite - pink coarse grained quartz feldspar						

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY Continental H. Daigle SIGNED F. Q. Barnes

DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite Ex-454

HOLE NO. 3

SHEET NUMBER _____ SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD	SLUDGE GOLD \$			
165.0-166.6	biotite grains of pyrite pyrrhotite chalcopyrite some epidote slight foliation to biotite right angles to the core axis cut by small quartz stringer (1" wide) of 58.6 which is about 30° to core axis. Aplite fine grained pink quartz feldspar pyrite few grains of molybdenite near contacts with granodiorite (contacts at 60° core axis).							
166.6-235.0	Granodiorite pink coarse grained feldspar quartz biotite pyrite chalcopyrite. Cut by aplite at 177-177.5 and 223-223.5 (indistinct contacts). Chalcopyrite seems to be increasing with depths.							
235-241	Aplite medium to fine grained pink feldspar quartz epidote chalcopyrite (a few blebs) pyrite contacts & granodiorite.							
241-257.6	Granodiorite pink coarse grained quartz feldspar epidote amphiboles biotite chalcopyrite pyrite, rock is cut by numerous aplite veins (about 1" wide) and 3 quartz veins (1" wide) these veins make angles of 60° with core axis and quartz veins show signs of leaching.							

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DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite Ex-154 HOLE NO. 3

SHEET NUMBER _____ SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %		
	biotite grains of pyrite pyrrhotite chalcopyrite near epidote slight foliation to biotite right angles to the core axis cut by small quartz stringer (1" wide) of 58.6 which is about 30° to core axis.						
165.0-166.6	Aplite fine grained pink quartz feldspar pyrite few grains of Molybdenite near contacts with granodiorite (contacts at 60° core axis).						
166.6-235.0	Granodiorite pink coarse grained feldspar quartz biotite pyrite chalcopyrite. Cut by aplite at 177-177.5 and 223-223.5 (indistinct contacts). Chalcopyrite seems to be increasing with depths.						
235-241	Aplite medium to fine grained pink feldspar quartz epidote chalcopyrite (a few blebs) pyrite contacts & granodiorite.						
241-257.6	Granodiorite pink coarse grained quartz feldspar epidote amphiboles biotite chalcopyrite pyrite, rock is cut by numerous aplite veins (about 1" wide) and 3 quartz veins (1" wide) these veins make angles of 60° with core axis and quartz veins show signs of leaching.						

N.M.P., TORONTO-STOCK FORM NO. 301 REV. 12/51

DRILLED BY _____

SIGNED F. Q. Barnes

DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite Ex-454

HOLE NO. 3

SHEET NUMBER _____ SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD	SLUDGE GOLD \$			
257.6-265.3	Aplite fine to medium grained pink quartz feldspar epidote chalcopyrite (a few blebs) 3" wide quartz vein at 263.7-264.							
265.3-307	Granodiorite pink coarse grained poor foliation quartz feldspar minor biotite epidote and a few grains of pyrite. Between 271 and 274 the rock is cut by 6 veins of aplite about 1" wide and at an angle of 75° to core axis.							
307-346	Aplite fine to coarse grained pink quartz feldspar some epidote amphiboles particularly on fracture joints and a few grains of pyrite. Between 322-327 the rock is cut by quartz stringers(5) (widest is 4") containing milky quartz and a few grains of pyrite and amphiboles. One tiny flake of Molybdenite was seen. The quartz veins make angles of about 25° or 45° with the core axis. The last few inches of rock are unfoliated granodiorite. At 345.5 there is about 1/2" of silicified shear zone at right angle to the core.							

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DIAMOND DRILL RECORD

3.

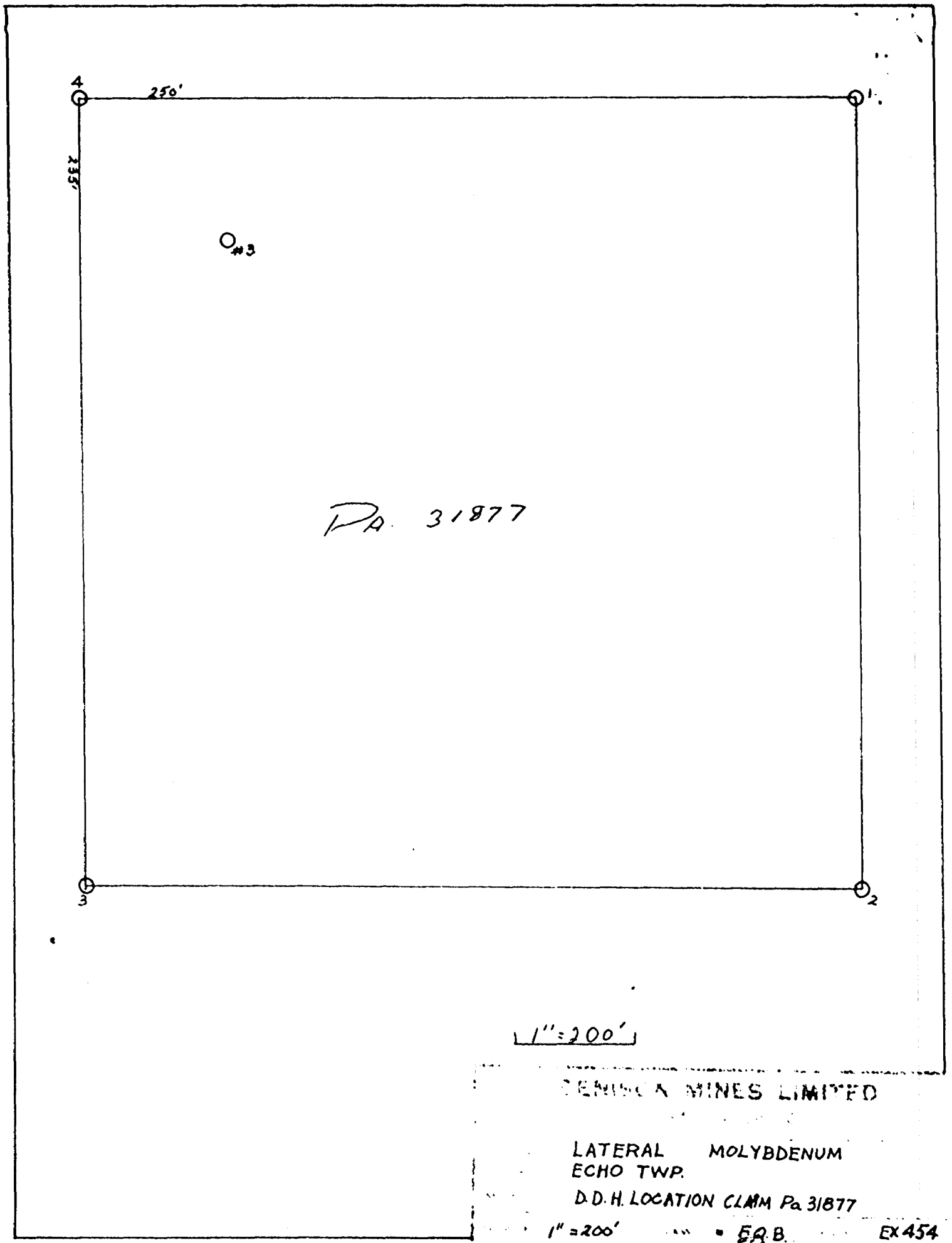
PROPERTY Lateral Molybdenite Ex-454 HOLE NO. 3

SHEET NUMBER _____ SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %		
257.6-265.3	Aplite fine to medium grained pink quartz feldspar epidote chalcopyrite pyrite (a few blebs) 3" wide quartz vein at 263.7-264.						
265.3-307	Granodiorite pink coarse grained poor foliation quartz feldspar minor biotite epidote and a few grains of pyrite. Between 271 and 274 the rock is cut by 6 veins of aplite about 1" wide and at an angle of 75° to core axis.						
307-346	Aplite fine to coarse grained pink quartz feldspar some epidote amphiboles particularly on fracture joints and a few grains of pyrite. Between 322-327 the rock is cut by quartz stringers (5) (widest is 4") containing milky quartz and a few grains of pyrite and amphiboles. One tiny flake of Molybdenite was seen. The quartz veins make angles of about 25° or 45° with the core axis. The last few inches of rock are unfoliated granodiorite. At 345.5 there is about 1/2" of silicified shear zone at right angle to the core.						

N.M.P. TORONTO-STOCK FORM NO. 301 REV. 12/51

DRILLED BY _____ SIGNED F. Q. Barnes



PA. 31877

1" = 200'

GENESSEE MINES LIMITED

LATERAL MOLYBDENUM
ECHO TWP.

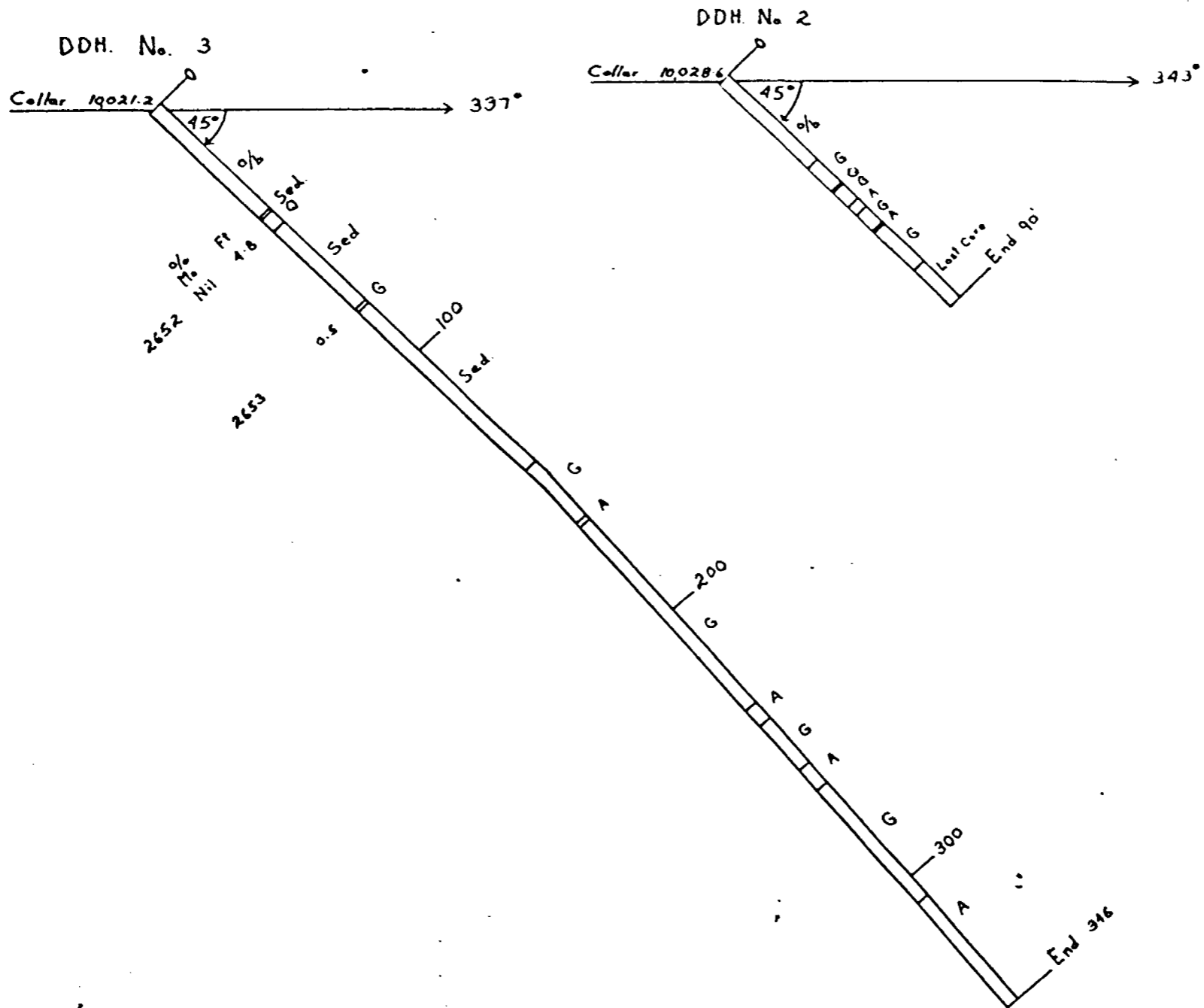
D.D.H. LOCATION CLAM Pa 31877

1" = 200'

E.B.B.

16 Oct, 1963

EX 454



10,000

9900

9800

DIAMOND DRILL RECORD

PROPERTY

Lateral Molybdenite Ex-454

HOLE NO.

4

SHEET NUMBER 1

SECTION FROM _____ TO _____

STARTED July 26/63

LATITUDE 12 + 50S

DATUM _____

COMPLETED July 29

DEPARTURE 150°W of 30 + 00S-10,022.9 BEARING 345°

ULTIMATE DEPTH 433'

ELEVATION Casing 2.5 above ground

DIP -45° test at 400' -50°

PROPOSED DEPTH 350'

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD	SLUDGE GOLD \$			
0-38	Casing overburden.							
38-227	Sediments-green in color predominantly medium grained hornblende biotite quartz occasional muscovite. disseminated pyrite throughout pyrrhotite and chalco. in places, occasional stringers of milky quartz barren except for blebs of pyrite and chalcopryrite a few tiny stringers(1/2" wide) of pegmatite which in one contained a few blebs of Molybdenite. Foliation is well developed and varies from right angles to an angle of 65° to core axis. Usually 75-80°.							
227-230	Aplite with a small quartz vein and foliated granite fine grained pink feldspar quartz pyrite epidote one tiny grain of molybdenite was seen, foliation near contact 80-85°.							
230-237.5	Granodiorite occasional small quartz and splite veins at 75° to core axis. Small splite veins particularly numerous from 320-340. One small pegmatite vein at 313.5 Granodiorite is coarse grained, pink, feldspar quartz biotite epidote and occasional flecks of pyrite. There is some amphibole.							

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DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite No-454 HOLE NO. 4

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED July 26/63
 LATITUDE 12 + 30 S DATUM _____ COMPLETED July 29
 DEPARTURE 150' W of 30 + 00 S BEARING 345° ULTIMATE DEPTH 433
 ELEVATION 10,022.9 DIP -45° Test at 400' -50° PROPOSED DEPTH 350'
Casing 2.5 above ground

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD S	SLURRY GOLD F
0-38'	Casing overburden.				
38-227	Bediments - green in color predominantly medium grained hornblende biotite quartz occasional muscovite, disseminated pyrite throughout pyrrhotite and chalcoc. in places, occasional stringers of milky quartz barren except for blebs of pyrite and chalcocopyrite a few tiny stringers (1/2" wide) of pegmatite which in one contained a few blebs of Molybdenite. Foliation is well developed and varies from right angles to an angle of 65° to core axis. Usually 75°-80°.				
227-230	Aplite with a small quartz vein and foliated granite fine grained pink feldspar quartz pyrite epidote one tiny grain of Molybdenite was seen, foliation near contact 80-85°.				
230-237.5	Granodiorite occasional small quartz and aplitic veins at 75° to core axis. Small aplitic veins particularly numerous from 320-340. One small pegmatite vein 3" wide containing one fleck of Molybdenite occurs at 313.5. Granodiorite is coarse grained, pink, feldspar quartz biotite epidote and occasional flecks of pyrite. There is some amphibole.				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY

Continental (H. Daigle)

SIGNED

F. Q. Barnes

DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite Ex-454

HOLE NO. 4

SHEET NUMBER _____ SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	Mo Mo	Bi Bi			
337.5-344	Aplite - fine grained with Molybdenite .4' core ground, sample not representative	2654A	337.5-344	Nil	Tr			
344-346.5	Pegmatite coarse grained feldspar quartz minor pyrite & epidote. Disseminated Molybdenite occurs between 344.5 and 344.8.	2655A	344-346.5	Nil	Tr			
346.5-355	Granodiorite coarse grained pink feldspar quartz biotite, pyrite epidote amphibole one narrow quartz stringer sutting rock at angle of 60°.							
355-402.5	Aplite pink fine to medium grained quartz feldspar, epidote, pyrite a few flecks of Molybdenite were seen. The rock is cut by several quartz stringers generally making angles of 45° or less.							
402.5-414	Granodiorite pink coarse grained quartz feldspar epidote, a few flecks of pyrite, biotite amphibole possibly few grains chalcopyrite.							
414-418	Aplite fine grained pink quartz feldspar epidote pyrite							
418-421.5	Granodiorite pink coarse grained feldspar quartz epidote pyrite biotite, quartz vein 3" wide from 421.2-421.3 - barren.							
421.5-433	Aplite fine to medium grained quartz feldspar epidote pyrite a few small quartz veins.							

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DIAMOND DRILL RECORD

PROPERTY

Lateral Molybdenite 265A

HOLE NO.

SHEET NUMBER _____ SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	Mo GOLD	Bi GOLD
337.5-344	Aplite - fine grained with Molybdenite. 4' core ground, sample not representative	2654A	337.5-5-74	Nil	Tr
344-346.5	pegmatite coarse grained feldspar quartz minor pyrite & epidote. Disseminated Molybdenite occurs between 344.5 and 344.8.	2655A	344-346.5	Nil	Tr
346.5-355	Granodiorite coarse grained pink feldspar quartz biotite, pyrite epidote amphibole one narrow quartz stringer cutting rock at angle of 60°.				
355-402.5	Aplite pink fine to medium grained quartz feldspar, epidote, pyrite a few flecks of Molybdenite were seen. The rock is cut by several quartz stringers generally making angles of 45° or less.				
402.5-414	Granodiorite pink coarse grained quartz feldspar epidote, a few flecks of pyrite, biotite amphibole possibly few grains chalcocite.				
414-418	Aplite fine grained pink quartz feldspar epidote pyrite.				
418-421.5	Granodiorite pink coarse grained feldspar quartz epidote pyrite biotite, quartz vein 3" wide from 421.2 - 421.3 - barren.				
421.5-433	Aplite fine to medium grained quartz feldspar epidote pyrite a few small quartz veins.				

N.M.P. TORONTO-STOCK FORM NO. 501 REV. 12/51

DRILLED BY

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F. Q. Barnes

1

20

300'

4

3

2

10 15 25

1" = 200'

TENNESSEE STATE SURVEY

LATERAL MOLYBDENUM
ECHO TWP.

DDH LOCATION CLAIM Pa 31878

1" = 200'
16 Oct, 1963

F.Q.B.

EX 454

DIAMOND DRILL RECORD

PROPERTY

Lateral Molybdenite Ex-454

HOLE NO. 6

SHEET NUMBER 1

SECTION FROM TO

STARTED August 5/63

LATITUDE 8 + 50 S

DATUM

COMPLETED August 7/63

DEPARTURE 80'W of 18 W
10,004.3

BEARING 345

ULTIMATE DEPTH 332

ELEVATION 2.5' casing above ground DIP -45° Test 300' 44°

PROPOSED DEPTH 350

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD	SLUDGE GOLD \$			
0-127	Overburden							
127-128	Aplite highly leached quartz feldspar epidote muscovite.							
128-128.8	Hornblende schist quartz hornblende foliation -40° to core axis.							
128.8-140	Quartz vein milky white quartz barren.							
140-154.6	Granodiorite highly leached white to pink in color coarse grained quartz feldspar pyrite epidote magnetite flecks of Molybdenite between 141-151.0 (probably wont assay) 50% core recovery between 140-141, 141.8-143.3. Pegmatite at 142, 143, 144.							
155.3-156.1	Aplite highly leached.							
156.1-157	Quartz vein- barren							
157-157.7	Aplite - leached							
157.7-158.8	Quartz vein - barren							
158.8-161.8	Aplite - flecks of molybdenite.							
161.8-162.8	Pegmatite coarse grained quartz feldspar muscovite.							
162.8-167	Aplite - fine grained leached Molybdenite.							
167-168.5	Quartz vein - barren.							
168.5-172	Granodiorite a few flecks of molybdenite pegmatite vein is half of core from 168.3-169.3 pegmatite at 170' and 172'							

**DUPLICATE COPY
POOR QUALITY ORIGINAL.
TO FOLLOW**

DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite No-47 HOLE NO. 6

SHEET NUMBER 1 SECTION FROM _____ TO _____ STARTED August 5/63
 LATITUDE 8 + 90 S DATUM _____ COMPLETED August 7/63
 DEPARTURE 80° W of 18 W BEARING 345 ULTIMATE DEPTH 332
10,004.3
 ELEVATION 2.5' casing above ground DIP -45° Test 300' 44° PROPOSED DEPTH 350

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD %
0-127	Overburden				
127-128	Aplite highly leached quartz feldspar epidote muscovite.				
128-128.8	Hornblende schist quartz hornblende foliation -40° to core axis.				
128.8-140	Quartz vein milky white quartz barren.				
140-154.6	Grenodiorite highly leached white to pink in color coarse grained quartz feldspar pyrite epidote magnetite flecks of Molybdenite between 141-151.0 (probably went assay) 50% core recovery between 140-141, 141.8 143.5. Magnetite at 142, 143, 144.				
155.3-156.1	Aplite highly leached.				
156.1-157	Quartz vein - barren.				
157-157.7	Aplite - leached.				
157.7-158.8	Quartz vein - barren.				
158.8-161	Grenodiorite leached a few flecks of Molybdenite.				
161-161.8	Aplite - flecks of Molybdenite.				
161.8-162.8	Pegmatite coarse grained quartz feldspar muscovite.				
162.8-167	Aplite - fine grained leached Molybdenite.				
167-168.5	Quartz vein - barren.				
168.5-172	Grenodiorite a few flecks of Molybdenite pegmatite vein is half of core from 168.3 169.3 pegmatite at 170' and 172'.				

N.M.F. TORONTO-STOCK FORM NO. 801 REV 12/51

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DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite Ex- 454 HOLE NO. 6

SHEET NUMBER _____ SECTION FROM _____ TO _____ STARTED _____
 LATITUDE _____ DATUM _____ COMPLETED _____
 DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____
 ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD	SLUDGE GOLD \$		
172-174.8	Aplite white foliated.						
174.8-178	Granodiorite - strongly foliated.						
178-178.8	Quartz vein - barren						
178.8-182	Aplite contains much milky white quartz.						
182-255	Granodiorite coarse grained quartz feldspar biotite hornblende magnetite pyrite.						
255-256	Quartz vein - barren						
256-257.7	Aplite - fine grained.						
257.7-263.5	Granodiorite.						
263.5-264.7	Aplite contains quartz stringer running parallel to core.						
264.7-272	Granodiorite.						
272-290	Aplite pink fine grained quartz feldspar epidote, a few flakes of Molybdenite.						
290-290.8	Quartz vein barren						
290.8-294.3	Aplite contains occasional quartz stringers.						
294.3-295	Quartz vein-milky white barren						
295-320	Granodiorite.						
320-325	Quartz vein - contains some pegmatite splite biotite schist, biotite schist has foliation at 45° to core axis magnetite in biotite schist						

**DUPLICATE COPY
 POOR QUALITY ORIGINAL,
 TO FOLLOW**

DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite D-45 HOLE NO. 6

SHEET NUMBER _____ SECTION FROM _____ TO _____ STARTED _____

LATITUDE _____ DATUM _____ COMPLETED _____

DEPARTURE _____ BEARING _____ ULTIMATE DEPTH _____

ELEVATION _____ DIP _____ PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD %	SLUDGE GOLD †			
172-174.8	Aplite white foliated.							
174.8-178	Granodiorite - strongly foliated.							
178-178.8	Quartz vein - barren.							
178.8-182	Aplite contains much milky white quartz.							
182-255	Granodiorite coarse grained quartz feldspar biotite hornblende magnetite pyrite.							
255-256	Quartz vein - barren.							
256-257.7	Aplite - fine grained.							
257.7-263.5	Granodiorite.							
263.5-264.7	Aplite contains quartz stringer running parallel to core.							
264.7-272	Granodiorite.							
272-290	Aplite pink fine grained quartz feldspar epidote, a few flakes of Molybdenite.							
290-290.8	Quartz vein barren							
290.8-294.3	Aplite contains occasional quartz stringers.							
294.3-295	Quartz vein - milky white barren.							
295-320	Granodiorite.							
320-325	Quartz vein - contains some pyroxenite aplite biotite schist, biotite schist has foliation at 45° to core axis magnetite in biotite schist.							

N.M.P. TORONTO-STOCK FORM NO. 801 REV. 12/81

DRILLED BY _____

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F. Q. Barnes 

DIAMOND DRILL RECORD

PROPERTY Lateral Molybdenite Ex-454

HOLE NO. 6

SHEET NUMBER _____

SECTION FROM _____ TO _____

STARTED _____

LATITUDE _____

DATUM _____

COMPLETED _____

DEPARTURE _____

BEARING _____

ULTIMATE DEPTH _____

ELEVATION _____

DIP _____

PROPOSED DEPTH _____

DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD	SLUDGE GOLD \$		
325-329 329-331.9 331.9-332	Aplite contains quartz veins magnetite. Quartz vein - barren Granodiorite.						
<p>DUPLICATE COPY POOR QUALITY ORIGINAL TO FOLLOW</p>							

4

1

3

2

#6

1033

245'

1" = 200'

DENISON MINES LIMITED

LATERAL MOLYBDENUM
ECHO TWP.

D.D.H LOCATION CLAIM Pa 31882

1" = 200'
DATE 16 Oct, 1963

F2B

EX 454



52F16NW0089 52F16NW0011C1 ECHO

900

1" = 2640'

Echo Twp 2236

DENISON MINES LIMITED

EXPLORATIONS DIVISION

PROPERTY LATERAL MOLYBDENUM

LOCATION ECHO TWP. PATRICIA MINING DIVISION

MAP TITLE PROPERTY MAP

SCALE 1" = 2640'
DATE 24 APR, 1963

DRAWN BY K.Q.B.
APPC BY *[Signature]*

PROJECT 21454
DWG.

Lomond Twp.

Webb Twp.

