

42801NW0052 38 KEITH

010

Diamond Drilling

Township of KEITH

Report NO 38

Work performed by: Palomar Gold Mines

Claim	Νō	Hole Nº	Footage	Date	Note
		1	7441		(1)
		2	2831		(1)
		3	2921		(1)
		Ħ	755'		(1)
		5	5051		(1)
		6	6031		(1)
		. 7	7071		(i)
•		8	5781		(1)
		9	6261		(1)
		9ddn	5093'		

Notes:

(1) These holes were probably located in claims S 42642, S 42640, S 42645, S 42641, S 42653. The work was done during the winter of 1946-47.

4, JOJA 18 24 P

PLANS FILED IN 'i' FILE

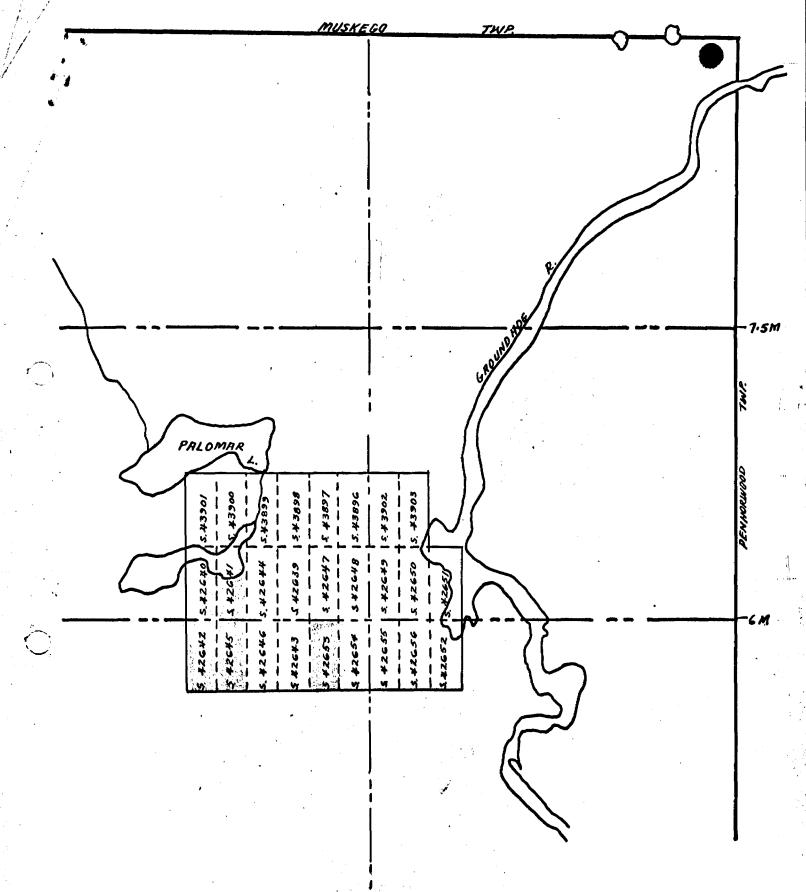
PALOMAR GOLD MINES LTD. Keith Twp.

Description

Cubicle No.

Diamond Drill Section 1-8 -- Uncoloured Paper Tracing -- 1"-100"

32



PALOMAR GOLD MINES LIMITED

Keith Township

Scale: 1 inch - 40 chains

T-100

PROPERTY FALOMAR GOLD MINES ATD. Keith Twp. DIAMOND DRILL RECORD

ŀ	OLE NUMBER		1 :	T- 100
. 5	SHEET NUMBER		1	
	ECTION FROM	01	TO	412

N 13711	0 45 ⁰	
LOCATION: E 16178	250' 40°	STARTED
ELEVATION OF COLLAR 1156	500' 34°	COMPLETED
DATUM	701! 33 ¹⁰	ULTIMATE DEPTH 7441
DIRECTION AT START: BEARING S 10 W Ast.		PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	GOLD \$	
0 - 1 11	Casing					
1 1-108	Banded Silicious Iron Form					_
	Black and White cherty bands up to 1 in. thic	k				_
	- No effect on compass.					
108-434	Tuffaceous Sediment? Greywacke?					
	Some dark argillaceous sections but largely					
	light green, granular type showing some		,			
<u> </u>	bedding and granular texture, like a true					
	greywacke.					!
	From 200° it is a light grey, massive,					
	coarsely bedded type, with only a few places					
	where the bedding is apparent. Indication			-		
	of tops to top of hole. Somewhat altered to	Tops	N (?)			
	carbonates and sericite. 270'	1				
	325-395 - Becoming more sheared and altered					
	but retains some bedding. Sericite					
	and carbonate mark planes of					
	foliation at about 45°.					
	395-412 - Massive light grey type as before	1				
	sheared zone. Some banding with					
	blue-grey carbonate and quartz					

			279	
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PRUPERIY	PALUMAA	עעטט	THE TAX DAY AND	11 1) e

HOLE NUMBER	, 		1	
SHEET NUMBER		2		
SECTION FROM	413	TO	698°	

	DIAMOND DRILL I	RECOR	D	SECTION.FR	OM 413'	то <u></u>	981
	E TOTAS	ARTED		· ·		\	
		MPLETED					
DIRECTION AT	2.70 W	IMATE DEPTH					•••••
DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		T
	and yellow sericite.						I
	413-419 - Basic Dyke?			<u> </u>			
	Green, even-textured, andesitic	<u>.</u>	<u>.</u>		·		
	looking rock, with streaks of			ļ			
	leucoxene alteration distributed		ļ		<u>.</u>	<u> </u>	
	throughout, giving a peppery		·				1
	appearance. Contacts are sharp at	t		<u> </u>	· ·		
<u>,</u>	both ends.			ļ	·		
	419-434 - Grey-Green - sheared, banded type			ļ			
	as before with blue quartz carbons	ate				· · ·	
	stringers.				· · · ·		<u> </u>
34-499	Zone of Surface Oxidation - Soft, rusty						1
	weathered material, completely disintegrated	1-	,				4
·	489-493 - Greenstone - Coarse green relative	1 1					

unaltered section possibly a dyke. 499-5993 Andesite? - Green, medium textured, uniform type. Not badly altered except short sections that are rusted. 5993-710 Oxidized Zone - Red, rusty, completely altered rock, largely lost core. 683-698 - Somewhat less oxidized - andesite as

before.

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DIAMOND DRILL RECORD

HOLE NUMBER	1 1
SHEET NUMBER	3
SECTION EDOM	7101 TO 7421

ELEVATION OF C	OLLAR 1156 CO	TIMATE DEPTH						
DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		T	
710-742	indesitic Lava - Dense massive, light green type of lava. Hard and relatively unaltered.	,				· .		
742	END OF HOLE							
							+	
				•			1	
						, , , , , , , , , , , , , , , , , , ,	‡	
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DIAMOND DRILL RECORD

HOLE NUMBER			.A.AlY
SHEET NUMBER		3	` j
SECTION FROM	0"		283°

LOCATION: DEP	E TOTAS	ARTED			·			
ELEVATION OF C	OLLAR 1155 CO	MPLETED	••••••	•••••••••••••••••••••••••••••••••••••••				
DATUM	UL	TIMATE DEPTH.	2831					
DIRECTION AT S	UL BEARING S 10 K TART: DIP 47\frac{1}{2}0 PR	OPOSED DEPTH						
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
0 - 99	Casing - Lake 8°							_
	Mud 91*							
99_ 147	Andesitic Lava - Greenish fine to medium							
	texture win and relatively unaltered excer	ti				<u> </u>		
	sections which are oxidized.							
147-244	Oxidized zone - Contains sections of relative	ely			·			
	unaltered andesite to about 165' but is la	B.						_
	red, completely oxidized material.							
244-283	Andesitic Lava - Somewhat oxidized but can b	е				<u> </u>		
	recognized as similar type lava to start o	· 1	, , ,					_
	hole with coarse phases.				`			
282 283	END OF HOLE							٠.
				- :				
				, ,				-
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			<i>:</i>					

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DIAMOND DRILL RECORD

HOLE NUMBER		3	1/100
SHEET NUMBER		-	
SECTION FROM	01		2921

ELEVATION OF C	OLLAR 1179 COMPI	STARTED COMPLETED ULTIMATE DEPTH 292* PROPOSED DEPTH						
DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
0 - 135	Casing - Boulders and sand.							
135-292	Andesitic Lava - Light green dense, relatively							
·	unaltered. Similar to type at end of d.d.h.	1		<u> </u>		ļ		Ĺ
	- Badly broken - Core recovery 55% in hole.			 	ļ			_
<u> </u>	194-196 - Black, even textured basic dyke.	<u> </u>	<u> </u>				<u> </u>	
	225-250 - Lavas as above, with several short	<u> </u>		<u> </u>	<u> </u>	<u> </u>		<u> </u>
	dykes of coarse dioritic rock,				 	 		-
	showing a honey-comb effect on the			<u> </u>	· ·			
	ground surface, due to chlorite.	 			ļ			
	Core recovery is 55% in this hole.			<u> </u>		 		
		ļ			<u> </u>	 		
292	END OF HOLE	ļ				 -		_
	antical sale of the public of		, , , , , , , , , , , , , , , , , , , ,		<u> </u>			
		<u> </u>						·
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NC#THE'N MINER PRESS LIMITED, TORONTO-STOCK FORM No. 801 REV. 8/44

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PROPERTY PALOMAR GOLD MIN A LTD.

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DIAMOND DRILL RECORD

HOLE NUMBER		4	1/1
SHEET NUMBER		1	····
SECTION FROM	0*	. т	o 35 9 °

LOCATION: LAT	N 12641 E 15500 • 0 45 ⁰ STAF	TED		•		·		
ELEVATION OF C	OLIAD 3197 350 42 ⁹ COM	PLETED		·····	-			
DATUM	30041	MATE DEPTH		•				
DIRECTION AT ST	TART: DIP 450 600 2120 750 1920 PROF	POSED DEPTH			·····			·
DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD \$	SLUDGE			
0 - 87	Casing							L
87_118	Black Tuff - Well banded with very regular,		<u> </u>			<u> </u>		L
	but fine banding 98-99 - White, carbonatize	<u>a</u>	•	ļ		<u> </u>		L
	dyke, highly sheared, cuts off bedding at a						<u> </u>	L
· · · · · · · · · · · · · · · · · · ·	sharp angle.				ļ		Ŀ	L
118-133	Dioritic Dyke - Old, sheared, chloritic type	_						
	rather coarse textured. Includes 2 short	<u>.</u>				<u> </u>		Ŀ
	sections of tuff.					-		
133_139	Altered Greenstone - Probably lava, but conta	ins						
	numerous sections of quartz and carbonate	1						
	in veins and as irregular stringers.				·		•	
139-416	Andesitic Lava - Grades from former altered ze	one						
-	to more massive type and from 215 is quite							
•	coarse textured and uniform.				,			
	230-250 - Quite dioritic in appearance but	*:				-		Γ
	grades to fine lava both ways.	·						
	275-278 - Lost core.	١.		and the state of t	*** *** *** *** *** *** *** *** ***			Г
	278-350 - Spherulitic light green dense type	-					,	
	with zones of spherules scattered							广
								一
• • -	at intervals through the core!							\vdash

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DIAMOND DRILL RECORD

HOLE NUMBER	`: •••••••	<u></u>	
SHEET NUMBER		2	
SECTION FROM	28 5'	TO	546*

. LAT	N 12641	-			•				
	LOCATION: DEP. B 15500 STA		STARTED COMPLETED						
DATUM	UI	TIMATE DEPTH	755	••••					
DIRECTION AT ST	TART: DIP450 UI	ROPOSED DEPTH	<u> </u>						
DEPTH FEET	FORMATION	SAMPLE NO.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$				
	285-288 - Black, basic dyke, fine textured	·							
	and uniform.								
	320-321 - Basic, black dyke			,	<u> </u>	1		L	
	325-327 - Basic, black dyke.							L	
	350-355 - Reverts to massive andesite.			•		<u> </u>			
	355-357.5 - Basic Dyke as before.		4	<u> </u>					
	357.5-381 - Medium andesite lava, somewhat								
	altered.							L	
	381_385 _ Coarse dioritic phase.								
	385-416 - Andesite with stringers of quart	z							
	and carbonate.		·						
416-546	Diorite - Sharp contact to a coarse-grained		_						
	dioritic type, altered to carbonate								
	and chlorite. 437	1							
	450 - Same coarse diorite, less altered, wi								
1	greenish colour and some epidotization	The second secon							
	Surface marked by patches of white	•			4			2 %	
	opaque mineral.							_	
	530-546 - Becomes finer textured to contact				:				
	Contact is not sharp, but can be			-			П	·	
	located over a few inches and loc	2							

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DIAMOND DRILL RECORD

HOLE NUMBER	
SHEET NUMBER	3
SECTION FROM 5	

N 12641	•
LOCATION: DEP. E 15500	STARTED
ELEVATION OF COLLAR 1187	COMPLETED
DATUM	ULTIMATE DEPTH 755
DIRECTION AT START: DIP 450	PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			L
	like an intrusive contact.							Γ
546-673	Andesitic Lava - Light green, dense, massive		,				<u> </u>	
	type. Some zones of spherules noted and					 	<u> </u>	L
	some more massive zones particularly after					<u> </u>		L
	625.							L
	646-652 - Quartz and calcite vein, with very	ittle		· .				-
	pyrite and pyrrhotite.	·						L
	Contact at 673 is at 12 in. vein of white					<u> </u>		L
	quartz.							L
673-755	Diorite		•					
	673-715 - Extremely carbonated and lighter							
	grey-green throughout, with stringer	8						
· · · · · · · · · · · · · · · · · · ·	of quartz and carbonate.					·.		
	715-755 - Becomes less carbonatized coarse-		,			`		
	textured, dark green chloritic type		Ţ.		1.		·	
	similar to section from 416-546.							·
755	END OF HOLE							Γ
	* 14/m							Γ
					-			
								-

BORTHERN MINER PRESS LIMITED, TORONTO-STOCK FORM NO. 501 REV. 9/44

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PROPERTY PALOMAR GOLD MINE, LTD.

HOLE NUMBER	5	0
SHEET NUMBER	_	XII
•	Δ1	4 4 77 2

	Keith Twp.		SHEET NO	NRFK		
	DIAMOND DRILL	RECORD	SECTION F	ROM OT	то 447	71
LAT	N 12838 0° - 45° E 15528 150 - 46°		1			-7
LOCATION: DEP	E 15528 150 - 46° s	TARTED	***************************************			
ELEVATION OF C	OLLAR 1170 $300 - 22\frac{1}{2}$ C	OMPLETED	······································		***************************************	
DATUM	450 - 160	LTIMATE DEPTH 50	5'			
DIRECTION AT ST		ROPOSED DEPTH				
DEPTH FEET	FORMATION	SAMPLE No. OF SA	TH GOLD \$	SLUDGE GOLD \$		-
0 - 120	Casing					
120_129	Oxidized material					
129_137	Andesitic lava - Carbonatized and somewhat					, L,
	sheared with 25% lost core.			1,0		
137-152	Dioritic Dyke - Old. grey green chloritic t	уре				
	with some scattered large cubes of pyrite					
152-352	Interbedded Tuffs & Greywacke					
	Slatey, fine-bedded variety with short se	ctions		·		
•	of coarser, light grey fragmental. No					
	magnetic attraction.				-	
	200 - Sections of coarse grey type compris	**				
	more than 50% of core and remainder		,	~		<u>-</u>

and cherty. Somewhat sheared and crudely banded.

347-352 - Coarse greywacke.

slatey beds. 347 - End of black argillites

is black, slatey argillite. Several sections give indication of tops by grain gradation to top of hole in

Cherty Tuff - Light grey and yellow, sericitized

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Tops North ?

352-447

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DIAMOND DRILL RECORD

HOLE NUMBER			
SHEET NUMBER.	,i	2	
SECTION FROM	412'	TO.	506

N 12838	
LOCATION: DEP. E 15528	STARTED
ELEVATION OF COLLAR 1170	COMPLETED
DATUM	ULTIMATE DEPTH 505
DIRECTION AT START: DIRECTION AT START: 0.15	PROPOSED DEPTH
DIP93	

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$	<u> </u>	
	412-417 - Volcanic fragmental. Similar to						
	above cherty tuff, with obscure grey					<u> </u>	<u> </u>
	fragments.					<u> </u>	<u> </u>
	417-447 - Cherty tuff as before, but	,				<u> </u>	<u> </u>
	somewhat brecciated, with sections						
	of graphitic material near contact.						
47_506	Graphitic Tuff - Looks like black iron formation			• ,			
	with some bands of brown hematite and massive					ļ	
	sulphides. No magnetic attraction.			· · · · · · · · · · · · · · · · · · ·			
	40% lost core.			,	+ + ¹		
	500-506 - Grey and less graphitic, but highly			÷			
	sheared.			•			
			. ,		,		
506	END OF HOLE					. ,	
		• /		•			•
		,					
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	A Agricultural Company of the Artist Company of the						

Orthern miner press limited, toronto—stock form no. 501 Rev. 9/44

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DIAMOND DRILL RECORD

HOLE NUMBER	 6	100
SHEET NUMBER	1	1
SECTION FROM	 το	1.70

LAT. N 11944	0 - 45°	
LOCATION: DEP. E 15525	150 - 41	STARTED
ELEVATION OF COLLAR 1217	300 - 21 1	COMPLETED
DATUM	450 - 18	ULTIMATE DEPTH 6031
DIRECTION AT START: BEARING N 1 E	600 - 9½	PROPOSED DEPTH

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
0 - 96	Casing	·					\Box	C
96-132 1	Grey Siliceous Sheared Rhyolites and Fragmental	8			<u> </u>		_	Ŀ
	Includes sections of fragmental material.						<u> </u>	L
	Dark blue-gray, silications looking rock, with			 	<u> </u>	<u> </u>	_	L
•	occasional large quartz eyes and shearing @			<u> </u>	\	<u> </u>	<u>L</u>	L
	45° to core.					<u>L</u>	_	L
l	1283-132 is largely a volcanic looking					<u></u>	<u> </u>	L
	fragmental with angular white cherty							L
· · · · · · · · · · · · · · · · · · ·	fragments (chicken feed) 12921	4			Adastic		<u> </u>	L
1323-170	Coarse Quartz Porphyry - Light yellow-grey		proba	6/1 2 1	polite 1	teff.		Ĺ
	colour, with sericite in bands, and numerous	 						1
	large bluish quartz eyes. Contact at 1323	-			1			
-	is quite sharp, but quartz eyes continue into			`				
•	grey type. 150°	5	Thin &	ction-	Quartz-	Felo	1500	26
	155-1632 - Dioritic dyke - Even medium		Porphy	wal	lows	rige	he	
	textured chloritic type.		, ,			0		L
	165-170 - Quartz porphyry becomes light yello	w				<u> </u>		
	in colour and quite massive. Quart	•						
	eyes seem to diminish in size towar							L
	contact (Intrusive?)		`					

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DIAMOND DRILL RECORD

HOLE NUMBER	6		
SHEET NUMBER	2	,	
SECTION FROM	1701	TO	485

LOCATION: LAT. N 11944 LOCATION: DEP. E 15525 ELEVATION OF COLLAR 1217 DATUM DIRECTION AT START: BEARING N 1° B DIP -45°	STARTED COMPLETED 603						
DIRECTION AT START: DIP450	PROPOSED DEPTH	f		••••			
DEPTH FEET FORMATION	SAMPLE NO	OF SAMPLE	GOLD \$	SLUDGE GOLD \$	-		•
170-603 Sheared Rhyolitic Tuffs and Pyroclastics							_
Grey and yellow, crudely banded rock with							
sericite and carbonate stringers, but in		<u> </u>	-		<u> </u>		•_
general hard and cherty. The grey bands	are	<u> </u>	, -		·		_
brecciated in places. In part it is prob	ably						-
a volcanic fragmental. Occasional quartz	eyes	·					_
noted.		1					
Contains short sections of black graphiti	c l	ļ				<u> </u>	•
tuff, as from 235-245.		<u> </u>		-			
333-340 - Dark slatey volcanic fragmental		·					
with drawn out white fragments.							
342 - Amygdules? over a few inches.		<u> </u>		1.0			
350-365 - Fracture breccia.			•				
Grey elongated fragments in a b	lack.						
chloritic groundmass which in p	laces	• • •					
consists only of a series of st							
365-444 - Blue-Grey and yellow sheared, be	~ i						
tuffaceous type, with a little							
silicious flow material.				•			
444-485 - Flow material with well-develope	đ						
quartz eyes becomes increasingly				,			

promine

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DIAMOND DRILL RECORD

SECTION FROM		485	TC	6031
SHEET NUMBER			3	
	-			
HOLE NUMBER			0	* 1.24 Aug

ELEVATION OF C	OLLAR 1217 CO	MPLE	TED	60 3 °				
DIRECTION AT ST	TART: DIP45° UL	OPOS	ED DEPTH	<u> </u>		, •		 +
DEPTH FEET	FORMATION		SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$	T	
	485-603 - Blue-grey, cherty looking rock,							_
	with sericite in wavy fractures and considerable carbonate. Fragments	1						
	appearance in places is probably				<u>-</u>		 	_
	due to brecciation. 586'		6		<u> </u>		 	
603	END OF HOLE					<u> </u>	1	_
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	the manager of the standard of the transfer of the standard of							
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Keith Twp. DIAMOND DRILL RECORD

HOLE NUMBER	7	
SHEET NUMBER	1	1/10
SECTION FROM	0*	то 330 1 °

LAT. N 11436	0 - 520	
LOCATION: DEP E 15543	150 - 44 1	STARTED
ELEVATION OF COLLAR 1224	300 - 31 1	COMPLETED
DATUM	450 - 141	ULTIMATE DEPTH 707
DIRECTION AT START: BEARING N 10 W	600 - 0	PROPOSED DEPTH
DIRECTION AT START.		TROTOSED DEL TIT

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$	ţ	
0 - 68	Casing						I
68- 22-6 199 5	Dacitic Lava - Light green relatively massive,			<u> </u>			
	but sheared and carbonatized type of lava.		•				┙
	Very uniform and granular in texture, but			,			1
	there are a few sections containing quartz						1
	filled amygdules and a few quartz eyes visibl	е					
	Foliation is at about 40°.			-			
194 3 _216	Old Dioritic Dyke - Sheared, and largely altere	d.			-		
	to chlorite and carbonate.						
216-308	Dacitic Lava - as before						
	236-238) Old sheared dioritic			-	-		J
-	245_249 dykes as before.						
	261 - Changes from massive, dense type with						T
	quartz amygdules to coarser, uniform						T
	massive lavas. Contact at 308 is						1
	gradational.	*					T
08-330 1	Replacement Breccia - A grey, fragmental with						T
	the general appearance of flow tops 326'	7	·			·	1
	breccia but due in part to replacement by						1
	black graphitic and cherty material. In place						T
*	the black chert occurs only as narrow	00					T

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	כי ויוור דיוור	ממו וא	MINESAATD.
PROPERTY	PALAMMAN	1 44 / 1 4 / /	
PRUPERU		~~~	

HOLE NUMBER		7	
SHEET NUMBER			
CECTION EDOM	3501		

DIAMOND DRILL RECORD

LOCATION: P 15543	STARTED		***	
ELEVATION OF COLLAR 1224	COMPLETED	, ,		
	ULTIMATE DEPTH	7071	<u>.</u>	
DIRECTION AT START:	PROPOSED DEPTH			

DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
	stringers and in other places it constitutes						
	over 50%, with isolated angular grey fragments					<u> </u>	
	350-430 - Fragments less conspicuous and more						
	foliation, with massive pyrite in	\.		•		·	
	places						
330] _348	Chloritic Dyke - Texture is rather fine. with						
	chloritic streaks in a grey matrix.						
	347-348 - Lost core.			_			
348-525	Rhyolite Tuffs and Pyroclastics						
	Blue-grey and yellow banded rock, with high						
• :	carbonatization. Same as rock in d.d.h. 6						
	from 170-603.						
ş .	Banding is not regular.			-			
525-550	Black Graphitic Tuff - No magnetic attraction			•			
50-629	Acid Tuffs and Pyroclastics.			•			
	Grey, highly carbonatized, soft and somewhat						
	sheared.	-					
	5502-5512 - Basic dyke						
	593-608 - Basic dyke, highly chloritic.						
		•					

NØRTHERN MINER PRESS LIMITED, TORONTO—STOCK FORM NO. 501 REV, 9/44

N.H.

PALOMAR COLD MINEALTD. PROPERTY

DIAMOND DRILL RECORD

HOLE NUMBER	7	
SHEET NUMBER	3	/ ;-
SECTION FROM	529° TO	707*

ELEVATION OF COLLAR 1224		START	ED	_		;	
		COMPL	ETED				
DATUM DIRECTION AT START: DIP50°			ATE DEPTH		<u> </u>		
DEPTH FEET	FORMATION		SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$	
529_690	Rhyolite - grey, siliceous type - Contact distinct but quartz eyes appear and rock						

DEPTH FEET	FORMATION	SAMPLE No.	OF SAMPLE	GOLD \$	GOLD \$		
629-690	Rhyolite - grey, siliceous type - Contact not						
	distinct but quartz eyes appear and rock is					1	\perp
	siliceous.						\bot
	647-6492 - Grey siliceous dyke. Tuffs revert			<u> </u>	•		L
· .	to banded sericitic type as from	· /					
	348-525.						
	6492-690 - Largely flow type, yellow to grey	` .				1	
	with quartz eyes. Includes short	4					
	sections that are light gray with						
	numerous large quartz eyes.				:		
690-707	Coarse Quartz Porphyry	,					
	Grey, coarse type, with numerous large quartz			-			
` .	phenocrysts.						
			·				
707	END OF HOLE						
				•			
· - · · · · · · · · · · · · · · · · · ·							
				,			
			,				
-			:				
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						~~~~~	

# PROPERTY PALOMAR GOLD MINESS, FD. Keith Twp. DIAMOND DRILL RECORD

SECTION FROM	0,	то 446
SHEET NUMBER	1	7"
HOLE NUMBER	8	Man.

<b></b> .	• -													
LOCATION LATE	N 10979 E 15602	0 - 450		START	en.		•			• •	٠.			
DEP	E 15602	150 <b>.</b> 37 <del>\frac{1}</del>				•••••••				·				
ELEVATION OF C	ollar 1222	300 - 142		COMPL	ETED	•••••		······	······					
DATUM		450 - 4		ULTIM	ATE DEPTH.	578°	.*	• • • • • • • • • • • • • • • • • • • •		•				
DIRECTION AT S	TART: DIP 450		·		SED DEPTH						 			
DEPTH FEET		FORMATION			SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			_			
0 - 69	Casing										- -			
69 709	Shapped Carbor	oticed Indocitie To	0.770	Cmarr			•	<b>[</b>						

0 - 69	Casing		<u> </u>	<u> </u>		<u> </u>	$\sqcup$	_
69-302	Sheared Carbonatized Andesitic Lavas - Grey					<u> </u>		_
	green, sheared, carbonatized type, with	<u>.</u>						-
	shearing at about 45°. Some grey carbonate							
	in planes of foliation.		·					
	145 - Carbonatization increases and rock			\ . ·	<u> </u>			
<u>i</u>	becomes brownish, soft and sheared.				<u> </u>			· ·
	Some stringers of white carbonate.	- 						
	231-245 - Black-grey brecciated zone.							
·	245 - Soft brown, highly carbonatized and		<u> </u>					
* :	sheared as before.						-14	:
302-446	Sheared Andesitic Lavas - Alteration less	·						
•	intense and shearing less intense, but core			<u> </u>		1.5	-	; ;
	is intersected by numerous quartz and	• • •						
	carbonate stringers, very much like Joburke.					`		
	main zone flows. Colour is light green.	•						· .
•	3212-3252 - Grey carbonate alteration.							
	3252-446 - Sheared green lavas with contorted							<del></del> , <u>:</u>
	quartz and carbonate stringers.							_
	as before.			,				_
		-						

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#### PROPERTY PALOMAR GOLD MINES TD.

Keith Twp.

## DIAMOND DRILL RECORD

HOLE NUMBER		<b>o</b>	
SHEET NUMBER	2	*	
	4461	_	5781

SIGNED N.H.

ELEVATION OF CO	ULTIN	LETED MATE DEPTH OSED DEPTH	5781			•••••	
DEPTH FEET	FORMATION	SAMPLE NO	WIDTH OF SAMPLE	GOLD \$	GOLD \$		
446-578	Sheared, Carbonatized Andesitic Lava			• ,			
	Exetasifa Grey soft, highly carbonatized						_
	and highly sheared. Entirely different than	<u>a</u>		·			_
•	former type. Carbonatization decreases				. ,	ļ	
	gradually from 525 to 550 and colour change	3		·			ļ
	to green.			-	,	ļ	ļ
	550-578 - Massive andesitic type: with litt	La			·	ļ,	<u> </u>
.′	shearing but considerable quartz					ļ.,	<u> </u>
	and carbonate in small veinlets.		,				<u> </u>
					<u> </u>	ļ	<u> </u>
5781	END OF HOLE					<u> </u>	<del> </del>
-			·			ļ	<u> </u>
						ļ	<u> </u>
<u> </u>					<u> </u>	<del> </del>	<u>   ·                                   </u>
			+			<del> </del>	<del> </del>
						<del></del>	<u> </u>
						<u> </u>	<u> </u>
· ·				,	<u> </u>	<u> </u>	<u> </u>
						<b></b>	<u> </u>
						ļ	<u> </u>
*	IN LIMITED TORROY OF STOCK FORM NO SOLDEN SEA						

# Keith Twp. DIAMOND DRILL RECORD

HOLE NUMBER		9	al_
SHEET NUMBER		-	1110
SECTION FROM	01	1	o 570°

LOCATION: DEP	Fi 1007.0	LETED	•		,	•	 ••••
DATUM	OF COLLAR 1124 COMPLETED.  AT START: SEARING South 2° N Ast. PROPOSED DEPTH 526.  T FORMATION SAMPLE NO OFFICE COLDS SUCCESS  Casing Sheared Carbonatized Andesite  Green, fine grained highly sheared - Foliation  © 45°,  75-83 - Light grey highly carbonatized  coarse phase - Possibly a dyke, Some  old sheared dioritic dykes, less than  2' long as a rule. Contact grades  220-220 from andesite to dacite.  Dacite - Darker green massive, with brown  leucoxene and small quartz eyes.  Andesite - Massive green, fine textured, with  stringers of quartz and carbonate.  Dacite ? - Sharp contact to coarse textured,  highly carbonatized and chloritic, green rook  Dioritic near contact, but it passes gradually  back to finer textured typs. Small blue quart  eyes visible. He shearing until about 460.  Chloritic Carbonate Schist  Becomes progressively more achistose from 470  to 480, with grey carbonate stringers.						
DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$		
0 ~ 60	Casing						
60-220	Sheared, Carbonatized Andesite				<u> </u>		
,		on					
							L
							L
	coarse phase - Possibly a dyke. Some						
	old sheared dioritic dykes, less than	1					
	2' long as a rule. Contact grades		,				
			·				Ŀ
220-250	Dacite - Darker green massive, with brown				:		l
							<u></u>
250-304	Andesite - Massive green, fine textured, with	,					
	stringers of quartz and carbonate.						
304-470		4.7		•			
		c	,				
	and the contract of the contra	1					
					`		_  -
							_
470-570				,			<u> </u>
			3		·		 
•							
NORTHERN MINER PR	ESS LIMITED, TORONTO-STOCK FORM NO. 301 REV. 9/44	N.			· .	1	 _

PROPERTY	PALOMAR	GOLD	MINES	.)
1 1(01 =	Keith	Twp.		

# DIAMOND DRILL RECORD

HOLE NUMBER	9	, 
SHEET NUMBER	2	********
SECTION EDOM		TO 626

"LOCATION: DEP ELEVATION OF C	OLLAR 1124 COMP	TARTED OMPLETED LTIMATE DEPTH ROPOSED DEPTH						
DEPTH FEET	FORMATION	SAMPLE No.	WIDTH OF SAMPLE	GOLD \$	SLUDGE GOLD \$			
/	Rock is dark green-black, soft and broken.							
	5532-559 - Hornblende Lamprophyre.							
	A grey, siliceous dyke, with							
	numerous needles of hornblende.			,	i .			
	partly gone to chlorite.	,	1	·				
70-626	Chloritized Basic Lava	4	•					
	Green-black, fairly soft massive greenstone.				•			
	Probably same rock as above, but no schistin							
	and few carbonate stringers.							
-					,			
626	END OF HOLE							
•	END OF HOLE							
		20.5	٠.					
					<del></del>			
<del> </del>								
•								
·								
					<del></del>			

SIGNED NAHA



#### DEPARTMENT OF MINES

RESIDENT GEOLOGIST 39 THIRD AVENUE, TIMMINS, ONT.

#### PALOMAR GOLD MINES ITD.

#### Keith Twp.

#### Sudbury Mining Division

#### Introduction:

The program of exploration carried out during the winter of 1946-47 was under the direction of Mr. G. W. Moore of the engineering staff at Joburke Gold Mines. The core was logged by the writer, and an attempt was made to correlate it with the geology of the Joburke property. This report is intended as a record of the observations resulting from the limited study of the drill core and its comparison with the results from neighbouring properties. A composite cross-section showing the results of the drilling is included with this report. No plan has been prepared, but the location and geology of the Palomar drilling is included on the 1" = 400' scale plan of Joburke Gold Mines Ltd.

#### Location & Access:

The property consists of 26 claims in Keith Twp., adjoining directly east of Joburke Gold Mines Ltd. It reaches the Groundhog River on the east, and includes part of Mackeith Lake on the west. The main line of the C. N. R. runas obliquely across the property from N.W. to S.E. and Joburke Station is within the property.

The claims are numbered as follows:

S42639 - S42656 - 18 claims S43896 - S43903 - 8 claims.

No permanent camps have been constructed at the time of writing.

#### Object and Extent of Development

The property was formed on the assumed extension of the gold-bearing zone of Joburke Gold Mines Ltd. Since there is little outcropping in the area south of Mackeith Lake, it was thought that cross-sectional drilling would be advisable as an initial step.

Some prospecting was done during the summer of 1946, but no geological map was prepared. Rock outcroppings are quite plentiful in the north part of the property, but the only rock located in the south half is in the S.E. corner of \$42653, where there are a few small outcrops of sheared rhyolite porphyry.

Approximately 5100 feet of diamond drilling was completed in 9 holes. The object was to cross-section the ground from Mackeith Lake, south to the boundary of the property. Drilling was started about 900 feet east of the Joburke boundary and No. 1 hole was located on the small point on the north shore of Mackeith Lake. Holes 2 and 3 ran into bad ground under the lake, and the section was continued further west, only 200 feet from the Joburke boundary.

#### Geology:

A study of the few outcrops on surface on the Palomar and on the east end of the Joburke indicates that the shearing and the rock formations swing to the south east across the corner of Palomar and onto the property of Hoodoo Lake Mines. This trend is confirmed to some extent by the drilling.

The northern part of the section drilled, encountered interbedded greywacke and andesitic lava, which probably corresponds to the sedimentary series encountered in the collar of d.d.h. 146 on the Joburke property, to the north of the ore zone.

The sediments include quartzose greywacke and argillite, with sections of graphitic tuff. These graphitic tuffs occur in bands up to 60 feet wide in both the andesites and sediments. The sediments in hole P-1 reach a width of 300 feet, dip north at about 75° and face north.

The andesites which appear to be interbedded with the sediments are on the whole relatively unaltered and massive. However, in two sections in holes 1 & 2 they are completely disintegrated by oxidation, apparently as a result of infiltration of surface solutions. In hole 1, an oxidized zone over 100 feet wide was encountered at a vertical depth of 400 feet below lake level. These zones of oxidation probably represent faults of considerable magnitude. It is interesting to note that they line up very well with the strong strike fault encountered in d.d.h.'s 186 and 188

on the Joburke.

South of the sediments in d.d.h. 5, a wide zone of rhyolites, tuffs, and pyroclastics was entered. This series is over 800 feet wide, in holes 5, 6, and 7. It comprises graphitic tuffs, acid fragmentals and cherty tuffs, sheared grey, siliceous rhyolite, and coarse quartz porphyry. It is comparable to the series of rhyolitic volcanics encountered by drilling to the south east on the Hoodoo Lake property, and also probably is part of the same horizon as the quartz porphyry which outcrops north of the ore zone on the Joburke.

To the south of the acid volcanics, in the collar of d.d.h. 7 and also in holes 8 and 9, a series of interbedded dacites and andesites was encountered. These are similar in appearance to the rocks in the ore zone at Joburke, and also similar to the zone drilled on the Hoodoo Lake property. In hole No. 8 from 302-446 a section of sheared andesitic lavas was intersected, with numerous contorted stringers of quartz and carbonate, very similar to some of the rocks in the vicinity of No. 1 zone at Joburke.

In hole No. 9, near the south extremity of the cross-section, 100 feet of soft chlorite-carbonate schist was cut, from 470 to 570 feet, and south of this the rock is a black, basaltic looking greenstone. This section corresponds to the rocks encountered in Joburke hole No. 27, south of the ore zone.

#### Values:

No values of interest were encountered.

#### Conclusions:

The sequence and appearance of the rocks in this drilling indicates that the horizon embracing the Joburke Ore Zone was passed through. While no values were obtained, the amount of work done was not sufficient to test the favourable zone thoroughly. Only one drill hole tested the extension of these lavas, which showed typical quartz and carbonate stringers, but failed to yield interesting mineralization at this point.

If the structure has been properly interpreted, the favourable horizon of andesites and dacites swings sharply to the south on the Palomar and straightens out again to the east in the area drilled by Hoodoo. In that case the most

(Continued) - Page 4

favourable ground might lie in the area where folding takes place. This area was not tested in the drilling program completed to date on the Palomar property.

Low to the heart of the property of the

同一、自己心心的的 **以外的 经**有效 医生活性

Timmins, Ontario, June 4, 1947.

Nelson Hogg, Resident Geologist, The state of the second of