



42A07SW0028 58 LANGMUIR

010

DIAMOND DRILLING

TOWNSHIP: LANGMUIR TWP.

REPORT NO: 58

WORK PERFORMED FOR: Placer Dome Inc.

RECORDED HOLDER: Same as Above [xx]
: Other []

<u>Claim No.</u>	<u>Hole No.</u>	<u>Footage</u>	<u>Date</u>	<u>Note</u>
P 852173	281-001	200.3m	Nov-Dec/88	(1)
P 850100	281-2	199.6m	Nov/88	(1)
P 755301	281-3	118.3m	Nov/88	(1)
	281-4	203.6m	Nov/88	(1)
	281-5	127.4m	Nov/88	(1)
P 755303	281-6	151.8m	Nov/88	(1)
P 755301	281-7	310.3m	Nov/88	(1)
	<u>7</u>	<u>1311.3M</u>		

NOTES: (1) W8906-241, date filed June/89

REF CORD: 13100.0 B075.0 SURVEYED: NO

PLACER DOME INC.

LOCATION: L31+00N 19+25W BRID: EAST-WEST

DIAMOND DRILL RECORD

POST LOCATION: 215 m E and 85 m S to POST 2, CLAIM P. 852173

HOLE NO: 281-001
PROPERTY: PROJECT 281
LANGMUIR TWP., ONTARIO
SECTION:

AZIMUTH: 90.0

LENGTH: 200.3

ELEVATION: .0

LOGGED BY: T. TENNENT

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: DEC. 3 TO DEC. 7, 1988

STARTED: NOVEMBER 29, 1988

COMPLETED: DECEMBER 4, 1988

CLAIM NO: P. 852173

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
26.50		-44.8	200.00		-41.0
91.40		-45.0			

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE

.00 23.47 CASING IN OVERBURDEN

23.47 29.60 RHYOLITIC CRYSTAL TUFF

Medium greenish grey, white. Very fine grained to fine grained. Hardness 6. 10% 1 mm anhedral to euhedral white feldspar phenocrysts. 90% very fine grained medium green grey silicious matrix. Lightly silicified. Trace to 1% very fine grained disseminated pyrite. 3% to 5% quartz calcite filled hairline fractures with nil to trace pyrite. Fractures up to 1 mm wide, at 10 to 58 degrees to the core axis and often have narrow, bleached selvages. Unit grades into altered crystal tuff.

23.47 25.00 Trace pyrite.

E6691 23.47 25.00 1.53

25.00 26.50 Trace pyrite.

E6692 25.00 26.50 1.50

26.50 28.00 1% very fine grained pyrite.

E6693 26.50 28.00 1.50

28.00 29.60 1% very fine grained pyrite. A 10 cm bleached band.

E6694 28.00 29.60 1.60

29.60 52.30 ALTERED RHYOLITIC CRYSTAL TUFF

Medium greenish-grey, buff, cream and white. Very fine grained to fine grained. 10% 1 mm white anhedral to euhedral feldspar phenocrysts in a very fine grained matrix. Hardness 6. Moderately foliated at 45 degrees to the core axis. Variably altered. 70% lightly silicified and sericitized crystal tuff. 30% strongly bleached 1 cm to 12 cm irregular buff to creamy coloured silicified and sericitized bands and patches at 45 degrees to the core

PLACER DOME INC.
DIAMOND DRILL RECORD

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		axis. Locally lightly chloritic. 1% to 2% very fine grained disseminated and occasionally fracture-filling pyrite. 5% quartz calcite sericite, minor chlorite filled fractures at 15 to 55 degrees to the core axis. Lower contact sharp and broken.								
		From 40.00 to 52.30 metres the unit becomes locally agglomeritic with 1 cm to 5 cm long stretched crystal tuff clasts and minor creamy silicious clasts surrounded by a bleached and silicified matrix. Lightly brecciated.								
29.60	31.10	1% pyrite.	E6695	29.60	31.10	1.50				
31.10	32.60	1% pyrite. A 1 cm white quartz stringer at 30 degrees to the core axis.	E6696	31.10	32.60	1.50				
32.60	34.10	2% pyrite. A 7 cm white quartz stringer at 35 degrees to the core axis with trace pyrite.	E6697	32.60	34.10	1.50				
34.10	35.60	1% pyrite.	E6698	34.10	35.60	1.50				
35.60	37.10	1% pyrite.	E6699	35.60	37.10	1.50				
37.10	38.60	1% pyrite.	E6700	37.10	38.60	1.50				
38.60	40.10	1% fracture-filling and disseminated pyrite. A 1 cm white quartz stringer with pyritic selvages at 55 degrees to the core axis.	E6701	38.60	40.10	1.50				
40.10	41.60	Trace pyrite. 5% to 10% quartz calcite chlorite filled fractures. Agglomeritic.	E6702	40.10	41.60	1.50				
41.60	43.10	Up to 1% pyrite. 5% quartz calcite filled fractures. Some fractures are pyrite and chlorite filled. A 22 cm bleached band at 40 degrees to the core axis. Agglomeritic.	E6703	41.60	43.10	1.50				
43.10	44.60	1% pyrite. A 1 cm quartz chlorite stringer with trace pyrite at 18 degrees to the core axis. Agglomeritic.	E6704	43.10	44.60	1.50				
44.60	46.10	Trace pyrite. Agglomeritic.	E6705	44.60	46.10	1.50				
46.10	47.40	1% pyrite. Agglomeritic.	E6706	46.10	47.40	1.30				
47.40	47.85	A 45 cm lens of aafic to intermediate volcanic with 3% very fine grained pyrite. Well foliated at 45 degrees to the core axis. Contacts sharp at 45 degrees to the core axis.	E6707	47.40	47.85	.45				
47.85	49.60	1% very fine grained pyrite.	E6708	47.85	49.60	1.75				
49.60	50.30	A 70 cm altered intermediate dike. 20% fine grained biotite laths. Trace pyrite. Contacts sharp at 55 degrees to the core axis.	E6709	49.60	50.30	.70				
50.30	51.30	1% pyrite.	E6710	50.30	51.30	1.00				
51.30	52.30	1% to 3% pyrite. 8% quartz calcite chlorite filled fractures.	E6711	51.30	52.30	1.00				

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
53.72	55.20	2% to 3% pyrite. Moderate patchy bleaching.	E6713	53.72	55.20	1.48				
55.20	56.70	2% to 3% pyrite. Strongly bleached.	E6714	55.20	56.70	1.50				
56.70	58.20	3% very fine grained disseminated and medium grained blebs pyrite. Several chloritic patches. Strongly altered.	E6715	56.70	58.20	1.50				
58.20	59.70	1% pyrite. Strongly altered.	E6716	58.20	59.70	1.50				
59.70	61.20	1% to 2% pyrite. Minor chloritic patches. Strongly altered.	E6717	59.70	61.20	1.50				
61.20	62.70	1% pyrite. Strongly altered.	E6718	61.20	62.70	1.50				
62.70	64.60	3% coarse grained blebs pyrite. Chloritic and carbonatized agglomerate clasts. 40% patchy strong alteration. 15% chlorite filled fractures.	E6719	62.70	64.60	1.90				
64.60	65.20	A 60 cm fine grained, medium green intermediate to felsic dikelet with 8% coarse grained blebs of pyrite. Contacts sharp at 56 degrees to the core axis.	E6720	64.60	65.20	.60				
65.20	66.70	2% pyrite.	E6721	65.20	66.70	1.50				
66.70	68.20	2% pyrite.	E6722	66.70	68.20	1.50				
68.20	69.70	5% medium grained to coarse grained blebs pyrite.	E6723	68.20	69.70	1.50				
69.70	71.40	5% pyrite.	E6724	69.70	71.40	1.70				
71.40	72.70	5% 5 mm to 1 cm pyrite bands at 48 degrees to the core axis. Moderately sheared at 48 degrees to the core axis. Locally calcareous.	E6725	71.40	72.70	1.30				
72.70	73.50	5% pyrite.	E6726	72.70	73.50	.80				
73.50	74.00	50% white quartz veining at 45 degrees to the core axis. Chloritic and sericitized inclusions with 5% pyrite.	E6727	73.50	74.00	.50				
74.00	75.50	2% pyrite.	E6728	74.00	75.50	1.50				
75.50	77.00	1% pyrite.	E6729	75.50	77.00	1.50				
77.00	78.50	1% pyrite. Two 1 cm white quartz stringers at 30 degrees to the core axis.	E6730	77.00	78.50	1.50				
78.50	80.00	2% pyrite. Moderately to strongly silicified. Moderately sericitized.	E6731	78.50	80.00	1.50				
80.00	81.50	Trace pyrite. Similar to 78.50 to 80.00.	E6732	80.00	81.50	1.50				
81.50	83.00	Up to 1% pyrite. Very broken core. Brecciated. Minor brecciated quartz veining. A 5 cm pyritic band.	E6733	81.50	83.00	1.50				
83.00	84.90	ALTERED SYENODIORITE Medium green, buff, dark green. Fine grained matrix with 5% 1 mm to 5 mm pale pink feldspar phenocrysts. Non magnetic. Up to 1% disseminated pyrite. Bleached. Moderately carbonatized (ankerite). Weakly silicified. Unit very broken. Upper contact broken. Lower contact irregular and sharp.								
83.00	84.00	Trace pyrite.	E6734	83.00	84.00	1.00				

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
	84.00	84.90 Up to 1%.	E6735	84.00	84.90	.90				
84.90	87.10	ALTERED FINE GRAINED INTERMEDIATE INTRUSIVE Medium greenish-grey. Fine grained matrix with 2% 1 mm to 3 mm anhedral feldspar phenocrysts and 3% 3 mm chlorite phenocrysts. Hardness 5.5. Non foliated. Non magnetic. Moderately to strongly calcareous. Weakly silicified. 5% fine grained disseminated pyrite. 2% chlorite-calcite-minor pyrite filled fractures at 25 degrees to the core axis. Upper contact irregular and sharp. Lower contact sharp at 60 degrees to the core axis.								
	84.90	86.00 5% pyrite.	E6736	84.90	86.00	1.10				
	86.00	87.10 5% pyrite.	E6737	86.00	87.10	1.10				
87.10	91.40	FELDSPAR PORPHYRY DYKE Fine grained, medium greenish-grey matrix. 20% 2 mm to 5 mm zoned buff euhedral to subhedral plagioclase phenocrysts. Hardness 6. Non foliated. Matrix lightly chloritic. Weakly sericitized and silicified. 1% very fine grained disseminated pyrite. 2% 1 cm white barren quartz stringers at 25 degrees to the core axis. 3% chlorite quartz filled fractures at 15 to 85 degrees to the core axis. Upper contact sharp at 60 degrees to the core axis. Lower contact sharp at 35 degrees to the core axis.								
	87.10	88.60 1% pyrite. Four 1 cm barren quartz stringers at 25 degrees to the core axis.	E6738	87.10	88.60	1.50				
	88.60	90.10 1% pyrite.	E6739	88.60	90.10	1.50				
	90.10	91.40 1% to 2% pyrite.	E6740	90.10	91.40	1.30				
91.40	92.37	SYENODIORITE Medium greenish-grey, dark grey, light green. Fine grained chlorite, feldspar and quartz matrix. 3% anhedral 1 mm to 2 mm feldspar phenocrysts. Non foliated. Non magnetic. <1% very fine grained pyrite. Upper contact sharp at 35 degrees to the core axis. Lower contact sharp at 45 degrees to the core axis.								
	91.40	92.37 <1% pyrite. A 1 cm white quartz stringer at 10 degrees to the core axis.	E6741	91.40	92.37	.97				

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		pyrite. 3% wispy quartz calcite stringers and sweats. Upper contact sharp at 50 degrees to the core axis. Lower contact gradual.								
	128.50	128.90	2%	pyrite.	8%	quartz calcite sweats.	E6755	128.50	128.90	.40
	129.40	130.00		Trace pyrite. Brecciated.			E6756	129.40	130.00	.60
	131.50	131.87		A 37 cm white barren quartz calcite veinlet at 48 degrees to the core axis.			E6757	131.50	131.87	.37
133.70	200.25	THOLEIITIC BASALT								
		Similar to 110.60 to 125.35 metres. Trace to 2% fine grained disseminated pyrite. From 133.70 to 188.00 metres 2% wispy quartz calcite stringers and filled fractures. From 188.00 to 200.25 metres 20% wispy calcite quartz stringers at 68 degrees to the core axis.								
		From 188.00 to 200.25 metres 20% wispy calcite quartz stringers at 68 degrees to the core axis. Barren.								
	133.90	134.20		A 3 cm irregular quartz calcite feldspar veinlet at 15 degrees to the core axis. Barren. 3% very fine grained pyrite in selvages.			E6758	133.90	134.20	.30
	136.80	137.14		A 20 cm irregular quartz veinlet.			E6759	136.80	137.14	.34
	137.14	138.00		A 86 cm silicified and weakly K metasomatized brecciated monzonite dikelet. 35% fine network of chlorite filled fractures. Trace pyrite. Contacts broken.			E6760	137.14	138.00	.86
	145.00	146.00		5% very fine grained pyrite. A 30 cm vuggy quartz veinlet.			E6761	145.00	146.00	1.00
	149.20	149.70		5% irregular quartz stringers with 3% pyrite in selvages.			E6762	149.20	149.70	.50
	151.00	152.00		5% irregular quartz stringers. 3% very fine grained pyrite.			E6763	151.00	152.00	1.00
	154.50	155.30		5% brecciated quartz stringers. 3% pyrite.			E6764	154.50	155.30	.80
	158.00	159.50		8% disseminated and stringer pyrite. A 5 cm irregular quartz stringer with pyritic selvages.			E6765	158.00	159.50	1.50
	159.50	161.00		8% disseminated and stringer pyrite. A 3 cm irregular quartz feldspar stringer.			E6766	159.50	161.00	1.50
	162.00	163.00		2% pyrite. 40% irregular quartz veinlets with trace pyrite.			E6767	162.00	163.00	1.00
	174.80	175.30		Trace pyrite. 20% patchy barren quartz veinlets.			E6768	174.80	175.30	.50
	188.00	189.50		Trace pyrite. 20% wispy quartz calcite stringers.			E6769	188.00	189.50	1.50
	189.50	191.00		Similar to 188 to 189.5.			E6770	189.50	191.00	1.50

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
191.00	192.50	Trace pyrite. 80 cm of strong sericite, fuchsite and carbonate (calcite) alteration. 20% quartz calcite stringers.	E6771	191.00	192.50	1.50				
192.50	194.00	Similar to 188 to 189.5.	E6772	192.50	194.00	1.50				
194.00	195.50	Similar to 188 to 189.5.	E6773	194.00	195.50	1.50				
195.50	197.00	Similar to 188 to 189.5.	E6774	195.50	197.00	1.50				
197.00	198.50	Similar to 188 to 189.5.	E6775	197.00	198.50	1.50				
198.50	200.25	Similar to 188 to 189.5.	E6776	198.50	200.25	1.75				

200.25 END OF HOLE

CASING LEFT IN THE HOLE.

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

GEOLOGY: In the upper part, Hole 281-001 intersected variably altered rhyolite crystal tuffs, agglomerates and flows mixed with syenodiorite, feldspar porphyry, intermediate and lamprophyric dikes. Intercalated chloritized ultramafic komatiites and tholeiitic basalts were intersected in the lower portion of the hole.

Alteration in the felsic volcanics consisted of weak to strong silicification, weak sericitization and chloritization. The intrusives were commonly carbonatized and weakly silicified.

Moderate shearing occurs from 71.40 to 72.70 metres.

ECONOMIC GEOLOGY: The IP anomaly in Hole 281-001 was caused by up to 5% disseminated and stringer pyrite from 52.30 to 110.60 metres. From 71.40 to 72.70 metres there are 5% narrow pyrite bands.

Two zones of strong silicification and moderate sericitization occur in the rhyolites. Associated with these zones are 8% to 10% 1 mm quartz filled fractures or stringers. The fractures are occasionally pyrite filled.

From 188.00 to 200.25 metres there is a zone of 20% wispy barren calcite-quartz stringers in the tholeiitic basalt.

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
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This is not expected to be anomalous in gold.

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HOLE NO: 281-2
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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
93.67	96.58	ALTERED MONZONITE Pink, black, dark green. Fine grained to medium grained. Hardness 6. Moderately foliated at 60 degrees to the core axis. 15% 1 mm to 2 mm biotite phenocrysts. The boundaries of the k feldspar crystals are diffuse. Weakly K metasomatized. 5% medium grained disseminated blebs pyrite. 3% calcite-biotite-quartz filled hairline fractures at various degrees to the core axis. Non magnetic. Upper contact sharp at 58 degrees to the core axis. Lower contact sharp at 40 degrees to the core axis.								
	93.67 95.17	5% pyrite.	E6669	93.67	95.17	1.50				
	95.17 96.58	5% pyrite.	E6670	95.17	96.58	1.41				
96.58	99.67	MEDIUM GRAINED INTERMEDIATE TO ACID INTRUSIVE Mottled dark grey, black and buff. Medium grained. Hardness 6. 25% blotchy textured feldspar and 75% anhedral mafic minerals. Non foliated. Non magnetic. Weakly calcareous. Trace very fine grained disseminated pyrite. 3% calcite filled hairline fractures at various degrees to the core axis. Upper contact sharp at 58 degrees to the core axis. Lower contact sharp and broken.								
	96.58 97.00	Chilled fine grained intermediate intrusive.								
	96.58 98.08	<1% pyrite.	E6671	96.58	98.08	1.50				
	98.08 99.67	<1% pyrite. Moderately calcareous.	E6672	98.08	99.67	1.59				
99.67	105.20	CARBONATIZED ULTRAMAFIC KOMATIITE Dark green grey. Very fine grained. Hardness 2.5. Moderately foliated at 45 degrees to the core axis. Non magnetic. Moderately broken. Strongly calcareous. Moderately talcose. 1% very fine grained disseminated pyrite. 10% calcite sweats. Upper and lower contacts sharp and broken. From 103 to 106 metres 50 cm of lost core.								
	99.67 101.17	1% pyrite. 10% calcite sweats.	E6673	99.67	101.17	1.50				
	101.17 102.67	1% pyrite. 10% calcite sweats.	E6674	101.17	102.67	1.50				
	102.67 103.47	1% pyrite. 10% calcite-quartz sweats.	E6675	102.67	103.47	.80				
	103.47 105.20	Mixed ultramafic komatiite and contaminated monzonite. 3% pyrite. A 2 cm irregular quartz stringer with 1% pyrite and chloritic inclusions.	E6676	103.47	105.20	1.73				

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
105.20	109.68	ALTERED MONZONITE Pink, grey, white, dark green. Fine grained to medium grained. Hardness 6. 15% biotite phenocrysts. Feldspar crystal boundaries are diffuse. Weakly foliated at 48 degrees to the core axis. Weakly magnetic. Weakly K metasomatized. Moderately silicified. 5% fine grained disseminated pyrite. 20% broken white quartz veinlets with pyritic selvages. 10% network of chlorite, calcite and quartz filled fractures. Upper contact sharp and broken. Lower contact sharp at 58 degrees to the core axis.								
105.20	106.20	5% pyrite. K metasomatized. Silicified. A 30 cm broken quartz veinlet with pyritic selvages. Lower contact at 36 degrees to the core axis.	E6677	105.20	106.20	1.00				
106.20	108.00	5% pyrite. 40% broken quartz veinlets with pyritic selvages.	E6678	106.20	108.00	1.80				
108.00	109.68	5% pyrite. Locally K metasomatized. Silicified.	E6679	108.00	109.68	1.68				
109.68	111.45	FINE GRAINED INTERMEDIATE INTRUSIVE Dark grey. Fine grained. Hardness 5.5. Non magnetic. Weakly calcareous. Weakly silicified. Barren. Upper contact sharp at 58 degrees to the core axis. Lower contact sharp at 45 degrees to the core axis.								
111.45	114.81	MEDIUM GRAINED INTERMEDIATE TO ACID INTRUSIVE Similar to 96.58 to 99.67 metres. Non magnetic. Weakly foliated at 48 degrees to the core axis. Trace fine grained disseminated pyrite. Upper contact sharp at 45 degrees to the core axis. Lower contact sharp at 30 degrees to the core axis.								
114.81	117.30	FINE GRAINED INTERMEDIATE INTRUSIVE Similar to 109.68 to 111.45 metres. Moderately magnetic. 4% fine grained to coarse grained blebs pyrite. 8% very fine grained disseminated magnetite. Upper contact sharp at 30 degrees to the core axis. Lower contact sharp at 31 degrees to the core axis.								
114.81	115.81	4% pyrite.	E6680	114.81	115.81	1.00				
115.81	116.90	4% pyrite.	E6681	115.81	116.90	1.09				

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FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
	116.90	117.30	Massive pyrite. 5% calcite.	E6682	116.90	117.30	.40			
117.30	124.20	MEDIUM GRAINED INTERMEDIATE TO ACID INTRUSIVE Similar to 96.58 to 99.67 metres. Non foliated. Non magnetic. 1% fine grained blebs pyrite. 1% calcite-epidote stringers. Upper contact sharp at 31 degrees to the core axis. Lower contact sharp at 55 degrees to the core axis.								
	120.30	120.70	A 1 cm calcite-epidote stringer at 10 degrees to the core axis.	E6683	120.30	120.70	.40			
	122.70	124.20	Unit becomes very fine grained. Chilled.							
124.20	173.13	CARBONATIZED ULTRAMAFIC KOMATIITE Dark green grey. Very fine grained. Hardness 2.5. Moderately to well foliated at 47 degrees to the core axis. Moderately magnetic. Moderately chloritic and carbonatized (calcite). Weakly biotitic. 2% to 3% medium grained blebs pyrite. 2% calcite sweats at 35 to 55 degrees to the core axis. <1% 1 cm barren quartz calcite stringers at 50 degrees to the core axis. Upper contact sharp at 55 degrees to the core axis. Lower contact sharp at 37 degrees to the core axis.								
	142.00	173.13	Foliated at 15 to 25 degrees to the core axis							
	154.00	160.00	1% to 2% pyrite.							
	157.05	157.94	A fine grained mafic dike. Trace pyrite. Contacts indistinct.							
	160.00	173.13	Moderately sheared at 38 degrees to the core axis.							
	170.50	170.90	A 2 cm quartz calcite stringer at 30 degrees to the core axis.	E6684	170.50	170.90	.40			
173.13	178.00	FINE GRAINED INTERMEDIATE INTRUSIVE Dark reddish-brown-grey. Fine grained. Hardness 6. Non foliated. Weakly to moderately magnetic. 5% pink anhedral feldspar phenocrysts. Hematitized. 3% fine grained disseminated pyrite. 3% network of calcite and hematite filled fractures. Upper contact sharp at 37 degrees to the core axis. Lower contact sharp and broken.								
	173.13	174.63	3% pyrite. Hematitized.	E6685	173.13	174.63	1.50			

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FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
178.00	199.64	CARBONATIZED ULTRAMAFIC KOMATIITE Similar to 124.20 to 173.13 metres. 3% pyrite. Weakly to moderately sheared. Non magnetic to moderately magnetic. Moderately carbonatized (calcite), talcose and chloritic.								
190.00	190.30	A 3 cm brecciated quartz calcite veinlet with 15% fracture-filling pyrite.	E6686	190.00	190.30	.30				
191.50	191.90	Four 1 cm irregular quartz calcite stringers with 5% coarse grained blebs pyrite at 45 degrees to the core axis.	E6687	191.50	191.90	.40				
193.00	193.50	A 1 cm and 2 cm quartz calcite stringer with 5% coarse grained pyrite at 60 degrees to the core axis.	E6688	193.00	193.50	.50				
193.80	194.70	50 cm of irregular quartz calcite veinlets. 5% clotted coarse grained pyrite.	E6689	193.80	194.70	.90				
196.00	197.00	3% pyrite. 15% blotches of quartz calcite.	E6690	196.00	197.00	1.00				
199.64		END OF HOLE								

GEOLOGY: Hole 281-2 intersected carbonatized ultramafic komatiites with 3% pyrite, altered monzonite with 5% pyrite, medium grained intermediate to acid dikes and fine grained intermediate dikes.

ECONOMIC GEOLOGY: The purpose of hole 281-2 was to test a possible shear zone and the bedrock upice of 8281-03.

The shear zone was intersected in ultramafic komatiites from 160 to 173 metres and 178 to 199 metres. Minor calcite sweats found throughout the unit are not expected to be anomolous in gold. 8281-03 encountered silicified sheared feldspar porphyry or andesite tuff with trace to 1% pyrite at bedrock. This unit was not encountered in the hole.

ALL CASING PULLED FROM THE HOLE.

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.



REF CORD: 13350.0 10600.0 SURVEYED: NO

PLACER DOME INC.

LOCATION: 6+00E 52+50N GRID: 330 DE8

DIAMOND DRILL RECORD

POST LOCATION: 195m S AND 228m E TO POST #2, CLAIM P.755301

HOLE NO: 281-3
PROPERTY: PROJECT 281
LANGMUIR TWP., ONTARIO
SECTION:

AZIMUTH: 330.0

LENGTH: 118.3

ELEVATION: .0

LOGGED BY: B. NEEDHAM

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: NOVEMBER, 1988

STARTED: NOVEMBER 16, 1988

COMPLETED: NOVEMBER 18, 1988

CLAIM NO: P.755301

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
118.26		-45.8			

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
.00	24.07	CASING IN OVERBURDEN								
24.07	62.37	ALTERED RHYOLITIC CRYSTAL TUFF Light yellow green to grey medium pinkish grey. Fine grained to very fine grained matrix with medium grained to coarse grained feldspar blebs. Occasional crystal tuff band. Hardness >5. Variably silicified, lightly to locally strongly with associated bleaching. Locally lightly sericitized. Occasional lightly to moderately carbonatized and effervescent clast or altered band. Foliation at 0 to 20 degrees to the core axis. Hole was probably drilled downdip. Trace to locally 1% disseminated very fine grained pyrite. Very thin quartz carbonate infilled fractures with associated pyrite blebs.								
24.07	25.36	Crystal tuff. Lightly hematitic. Trace pyrite.	E7613	24.07	25.36	1.29				
25.36	26.29	Similar to 24 to 25.	E7614	25.36	26.29	.93				
26.29	27.47	Strongly silicified and bleached band. 1% very fine grained pyrite. 1 to 2% thin carbonate infilled fractures.	E7615	26.29	27.47	1.18				
27.47	28.90	Similar to 24 to 25.	E7616	27.47	28.90	1.43				
28.90	30.48	Similar to 24 to 25 with 30 to 40% strongly silicified bands. Trace to 1% disseminated fine grained pyrite.	E7617	28.90	30.48	1.58				
30.48	31.90	Similar to 28 to 30.	E7618	30.48	31.90	1.42				
31.90	33.39	Similar to 24 to 25.	E7619	31.90	33.39	1.49				
33.39	34.92	Similar to 24 to 25 but with 2, 14 cm moderately to strongly silicified and carbonatized bands at 40 degrees with 1 to 2% disseminated fine grained pyrite	E7620	33.39	34.92	1.53				
34.92	36.35	Lightly carbonatized lapilli band with	E7621	34.92	36.35	1.43				

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-3
PAGE NO: 2

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		foliation at 0 to 10 degrees. 10 to 15% moderately to strongly silicified bands. Trace pyrite.								
36.35	37.86	Similar to 34 to 36.	E7622	36.35	37.86	1.51				
37.86	39.45	Strongly to intensely silicified band with 5 to 10% carbonate impregnated fractures. Trace to 1% fine grained pyrite.	E7623	37.86	39.45	1.59				
39.45	40.28	Similar to 37 to 39. 1 cm quartz carbonate vein at 60 degrees with disseminated pyrite blob selvages.	E7624	39.45	40.28	.83				
40.28	41.28	Lapilli tuff to agglomerate. Lightly hematite altered.	E7625	40.28	41.28	1.00				
41.28	42.73	Similar to 40 to 41 but with 30 to 40% moderately silicified and/or carbonatized bands.	E7626	41.28	42.73	1.45				
42.73	44.19	Similar to 41 to 42.	E7627	42.73	44.19	1.46				
44.19	45.30	Strongly silicified zone, locally very fine grained with disseminated sericite blebs. Trace very fine grained pyrite. Trace tourmaline infilled fracture.	E7628	44.19	45.30	1.11				
45.30	46.40	Similar to 44 to 45.	E7629	45.30	46.40	1.10				
46.40	47.94	Moderately silicified and carbonatized band with 15 to 20% intensely silicified infilled fractures and bands. Trace fine grained pyrite.	E7630	46.40	47.94	1.54				
47.94	49.50	Strongly silicified, locally lightly to moderately hematite altered band with 3 to 5% irregular carbonate infilled fractures. Trace to 1% pyrite. Contorted, irregular alteration.	E7631	47.94	49.50	1.56				
49.50	50.94	Similar to 47 to 49.	E7632	49.50	50.94	1.44				
50.94	52.59	Moderately to strongly bleached, silicified. Lightly sericitized. 1 to 2% disseminated very fine grained pyrite associated with the more intensely altered bands.	E7633	50.94	52.59	1.65				
52.59	54.06	Similar to 40 to 41.	E7634	52.59	54.06	1.47				
54.06	54.32	Massive to lightly foliated, chloritized mafic to intermediate dyke. Upper and lower contacts at 60 and 55 degrees respectively.								
54.32	62.37	Moderately to strongly bleached and carbonatized zone with trace to 15% hematite altered brecciated bands. Lightly to moderately silicified and sericitized band. Trace to 1% pyrite.								
54.32	55.84	As above. 10 to 15% hematite altered brecciated bands.	E7635	54.32	55.84	1.52				
55.84	57.30	Similar to 54 to 55.	E7636	55.84	57.30	1.46				
57.30	58.76	As above.	E7637	57.30	58.76	1.46				
58.76	60.27	As above. 8 cm strongly silicified band.	E7638	58.76	60.27	1.51				
60.27	61.76	As above. 2 to 3 cm white quartz carbonate vein at 45 degrees with disseminated pyrite selvages.	E7639	60.27	61.76	1.49				
61.76	62.37	As above.	E7640	61.76	62.37	.61				

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-3
PAGE NO: 5

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE	
	84.26	85.16	As above.	E7655	84.26	85.16	.90				
	86.18	87.04	30 to 40% moderately to strongly silicified lightly sericitized bands and clasts. 2 cm white quartz vein at 60 degrees with trace pyrite blebs.	E7656	86.18	87.04	.86				
	87.04	87.89	Similar to 86 to 87.	E7657	87.04	87.89	.85				
	88.75	89.53	Moderately to strongly carbonatized, lightly to moderately silicified band with trace to 1% pyrite. 2 to 3% glassy quartz carbonate stringers and infilled fractures.	E7658	88.75	89.53	.78				
	92.10	92.57	Similar to 86 to 87 with 2 to 4% thin irregular glassy quartz carbonate stringers and infilled fractures. Trace pyrite.	E7659	92.10	92.57	.47				
	94.39	95.10	Similar to 92.1 to 92.5.	E7660	94.39	95.10	.71				
	97.54	98.10	Similar to 92.1 to 92.5.	E7661	97.54	98.10	.56				
98.10	105.05	ALTERED RHYDLITIC ASH TUFF									
		Buff to light grey. Locally lightly oxidized. Fine grained, lightly foliated. Hardness >5. 3 to locally 10% carbonate-quartz infilled fractures and stringers occasional with chlorite selvages. Carbonate-quartz infilled fractures commonly at 40 to 55 degrees. Lightly sericitized. Moderately to strongly carbonatized and effervescent. Locally appears lightly brecciated. Several white quartz and/or quartz carbonate veins with chlorite blebs and trace pyrite. Trace to 1% fine grained disseminated pyrite. Foliation at 15 to 20 degrees.									
	98.10	99.60	Moderately to strongly bleached. 5 to 10% carbonate-quartz infilled fractures and 1 to 2% white quartz carbonate veinlets. Trace to 1% pyrite.	E7662	98.10	99.60	1.50				
	99.60	100.55	Similar to 98 to 99.	E7663	99.60	100.55	.95				
	100.55	102.80	30 cm oxidized quartz impregnated brecciated zone, 0.6 metre lost core. 53, 6 cm white quartz veins with chlorite blebs, trace pyrite at 55, 70 degrees respectively.	E7664	100.55	102.80	2.25				
	102.80	103.95	Lightly to moderately brecciated zone with numerous carbonate and/or chlorite infilled fractures. 3, 1 to 3 cm quartz carbonate and/or chlorite veins with trace to 1% fine grained pyrite and/or hematite.	E7665	102.80	103.95	1.15				
	103.95	105.05	Similar to 98 to 99.	E7666	103.95	105.05	1.10				
105.05	118.26	ALTERED RHYDLITIC CRYSTAL TUFF									
		Similar to 63 to 83 with 20 to 40% moderately to strongly silicified and/or K metasomatized bands. Occasional agglomerate clast. Lightly foliated at 20 to 25 degrees. Lightly to moderately carbonatized. Trace very fine									

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-3
PAGE NO: 6

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		grained pyrite.								
106.54	107.86	30 to 40% moderately to strongly silicified and/or K metasomatized bands. Trace pyrite. 1 to 3% carbonate-quartz infilled fractures.	E7667	106.54	107.86	1.32				
107.86	109.11	Similar to 106 to 107. 1 cm glassy quartz vein at 30 degrees.	E7668	107.86	109.11	1.25				
109.11	110.23	Similar to 106 to 107. 1 to 2% irregular thin quartz infilled fractures.	E7669	109.11	110.23	1.12				
112.30	113.51	5 to 10 white to glassy quartz veinlets with trace disseminated pyrite or pyrite bleb selvages. Patchy alteration. Moderately bleached and silicified.	E7670	112.30	113.51	1.21				
114.24	115.21	Similar to 112 to 113. 4 cm white at 22 degrees with trace pyrite. 2, 1 cm quartz carbonate and chlorite veinlets at 75, 85 degrees.	E7671	114.24	115.21	.97				
116.02	117.22	30 to 40% irregular strongly silicified, locally lightly K metasomatized altered bands. Trace fine grained pyrite.	E7672	116.02	117.22	1.20				
117.22	118.26	Similar to 112 to 113 but with only 2 to 3% quartz carbonate veinlets.	E7673	117.22	118.26	1.04				

118.26 END OF HOLE

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

All NW casing pulled. 12 feet of BW casing pulled, the remainder left in the hole.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

Geology: The hole intersected variably altered rhyolite crystal tuffs, tuffs and agglomerates with the occasional thin massive to lightly foliated basalt or mafic to intermediate intrusive dyke. Contacts were sharp and commonly chilled. Alteration especially in the upper portion of the hole consisted of silicification, light sericitization and carbonatization. Locally the rhyolites were lightly hematite altered. In general, the rhyolites had only trace to locally 1% disseminated fine grained pyrite except when adjacent to quartz veins. Irregular carbonate, carbonate quartz infilled fractures with chlorite selvages were commonly observed. Foliation varied from 0 to 25 degrees throughout the hole. The hole was stopped early, and resotted, drilling in the opposite

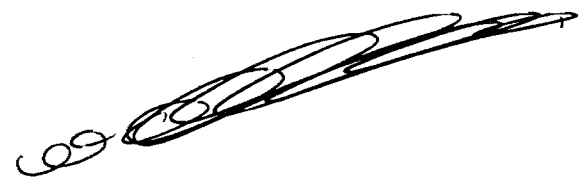
PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-3
PAGE NO: 7

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE

direction (ie. See 281-7).

Economic Geology: Strong silicification and or carbonatization was logged but in general pyritization was limited to the most intensely altered zones or immediately adjacent to some of the quartz veins. Some of these zones or quartz and or quartz carbonate veins may return anomalous gold assays.



REF CORD: 15260.0 10600.0 SURVEYED: NO
 LOCATION: 52+60N 6+00E GRID: 150 DEG
 POST LOCATION: 210m S AND 238m E TO POST #2, CLAIM P.755301
 AZIMUTH: 150.0 LENGTH: 203.6 ELEVATION: .0
 DIP: -45.0 CORE SIZE: BB SYSTEM OF MEASURE: METRIC
 STARTED: NOVEMBER 26, 1988 COMPLETED: NOVEMBER 28, 1988 CLAIM NO: P.755301

PLACER DOME INC.
 DIAMOND DRILL RECORD

HOLE NO: 281-4
 PROPERTY: PROJECT 281
 LANGMUIR TWP., ONTARIO
 SECTION:
 LOGGED BY: B. NEEDHAM
 DATE LOGGED: NOVEMBER, 1988

DIP TESTS (corrected)
 DEPTH AZIMUTH DIP DEPTH AZIMUTH DIP
 50.00 -45.5 203.60 -39.0

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
.00	24.99	CASING IN OVERBURDEN								
24.99	39.59	ALTERED RHYOLITIC CRYSTAL TUFF Light yellow green to grey green. Fine grained matrix with disseminated medium grained carbonate porphyroblasts and feldspar crystals. Very minor foliation dominantly massive resulting in a flow like texture. Occasional strongly bleached intensely silicified agglomeritic clast ranging from 3 to 8 cm. Moderate to stringer alteration masks the original texture. Hardness >5. Moderately to strongly bleached. Moderately carbonatized. Moderately to strongly silicified. Lightly sericitized. Trace to locally 2% disseminated fine grained pyrite. 2 to 3% quartz carbonate infilled fractures and stringers. 1 to 3% wispy carbonate infilled fractures. Gradational lower contact suggesting that the original unit was a clast deficient agglomerate to crystal tuff.								
	24.99	26.18	Fragmented core.							
	26.82	28.24	Trace to 1% disseminated pyrite. 3 to 5% quartz carbonate stringers and infilled fractures.	E7854	26.82	28.24	1.42			
	29.30	30.00	Lightly to moderately K metasomatized band with 2 to 3% chlorite infilled fractures commonly at 45 to 50 degrees to the core axis. 1% fine grained disseminated pyrite.	E7855	29.30	30.00	.70			
	30.00	32.26	52 cm fragment core. Trace to 1% disseminated pyrite.	E7856	30.00	32.26	2.26			
	32.26	33.77	Moderately to locally strongly silicified, lightly sericitized and moderately carbonatized zone with	E7857	32.26	33.77	1.51			

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-4
PAGE NO: 3

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		flow or intrusive bands. Sharp upper contact at 75 degrees.								
57.51	59.12	Similar to 54 to 56. 2 cm glassy quartz carbonate veinlet at 60 degrees with disseminated pyrite selvages.	E7868	57.51	59.12	1.61				
60.12	61.00	Similar to 54 to 56. 45 cm band of fragmented core. 0.33 metres of ground core.	E7869	60.12	61.00	.88				
61.00	62.98	Intensely silicified lightly foliated bands at 60 degrees. 5 to 10% chlorite and/or carbonate blebs and infilled fractures. 1% pyrite blebs.	E7870	61.00	62.98	1.98				
62.98	64.38	Moderately carbonatized. Lightly to moderately silicified, lightly to moderately sericitized. 2 to locally 5% carbonate stringers. Trace to 1% disseminated pyrite. 5 to 15% strongly silicified bands.	E7871	62.98	64.38	1.40				
65.62	66.91	Similar to 62 to 64.	E7872	65.62	66.91	1.29				
66.91	67.54	Similar to 62 to 64 but with a 7 cm white quartz carbonate vein at 40 degrees with coarse grained pyrite selvages.	E7873	66.91	67.54	.63				
67.54	68.89	Similar to 62 to 64.	E7874	67.54	68.89	1.35				
68.89	70.39	Similar to 62 to 64.	E7875	68.89	70.39	1.50				
70.39	71.70	Similar to 62 to 64.	E7876	70.39	71.70	1.31				
71.70	73.18	Similar to 62 to 64 but with a 17 cm quartz carbonate chlorite impregnated band. 1 cm carbonate-quartz veinlet at 0 to 30 degrees.	E7877	71.70	73.18	1.48				
73.18	74.77	Similar to 62 to 64 but with 10 to 15% carbonate and carbonate-quartz infilled fractures and stringers. 12 cm quartz carbonate vein at 35 degrees. 1 to 2% disseminated pyrite.	E7878	73.18	74.77	1.59				
76.51	77.38	Similar to 62 to 64 but with more strongly silicified bands. 2, 1 cm quartz carbonate veinlet with coarse grained pyrite blebs at 10 to 15 degrees.	E7879	76.51	77.38	.87				
77.38	83.20	Strongly bleached buff to light yellow green. Strongly to intensely silicified zone with 2 to 4% disseminated pyrite blebs. Lightly to moderately sericitized. 3 to 4% wispy carbonate infilled fractures.								
77.38	78.70	As above.	E7880	77.38	78.70	1.32				
78.70	80.21	As above.	E7881	78.70	80.21	1.51				
80.21	81.68	As above.	E7882	80.21	81.68	1.47				
81.68	83.20	As above.	E7883	81.68	83.20	1.52				
83.20	84.73	Similar to 62 to 64.	E7884	83.20	84.73	1.53				
84.73	86.23	Similar to 62 to 64.	E7885	84.73	86.23	1.50				
86.23	87.78	Similar to 62 to 64.	E7886	86.23	87.78	1.55				
87.78	89.25	Similar to 62 to 64. 1 cm carbonate-quartz	E7887	87.78	89.25	1.47				

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-4
PAGE NO: 4

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		stringer at 30 degrees.								
	89.25 90.83	Similar to 62 to 64. 6 cm quartz carbonate vein with disseminated chlorite and 1 to 2% disseminated pyrite blebs. 5 to 10% carbonate stringers occasionally with 1% disseminated pyrite selvages.	E7888	89.25	90.83	1.58				
	90.83 91.63	Similar to 62 to 64. Moderately silicified.	E7889	90.83	91.63	.80				
	91.63 92.79	Strongly bleached, buff to light yellow green. Strongly to intensely silicified. 1 to 2% disseminated fine grained pyrite. 2 to 3% carbonate infilled fractures.	E7890	91.63	92.79	1.16				
92.79	93.55	SYENODIORITE Medium yellow green to grey. Fine grained to medium grained granular texture. Hardness >5. Moderately to strongly carbonatized. Trace to 1% disseminated fine grained pyrite. 2 cm quartz carbonate vein at 12 degrees with coarse grained pyrite blebs. Sericitized chilled upper and lower contacts at 60 to 65 degrees.								
	92.79 93.55	As above.	E7891	92.79	93.55	.76				
93.55	126.61	ALTERED RHYOLITIC AGGLOMERATE Similar to 51 to 92 but subangular to subrounded agglomerate clasts are more readily identifiable. Occasional moderately brecciated band. Hardness >5. Moderately to strongly carbonatized, locally lightly to moderately effervescent. Lightly to moderately sericitized. Lightly to moderately silicified with the occasional buff, strongly bleached and silicified band with 1 to 3% pyrite blebs. Trace to 1% disseminated fine grained pyrite overall. 1 to locally 5% carbonate stringers and/or wispy carbonate infilled fractures. Occasional zone disseminated chlorite blebs or infilled fractures.								
	93.55 94.36	Intensely silicified bleached zone with 4 cm quartz carbonate sericite impregnated band at 65 degrees. 1 cm quartz carbonate veinlet at 60 degrees. Trace to 1% disseminated fine grained pyrite.	E7892	93.55	94.36	.81				
	94.36 95.52	Similar to 62 to 64 but with 40 to 50% strongly silicified bands. 1 to 2% pyrite blebs. 1 to 2 cm carbonate-quartz sericite impregnated band.	E7893	94.36	95.52	1.16				
	95.52 97.11	Moderately to strongly carbonatized. Lightly to moderately silicified, lightly sericitized. 2 to 5% carbonate stringers. Trace to 1% disseminated pyrite. 10 to 20% strongly silicified bands.	E7894	95.52	97.11	1.59				

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-4
PAGE NO: 5

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
97.11	98.60	Lightly to moderately brecciated zone with disseminated chlorite blebs and/or stringers. 5 to 10% carbonate stringers. 2 cm white quartz carbonate veinlet at 17 degrees with coarse grained pyrite bleb.	E7895	97.11	98.60	1.49				
98.60	100.10	Similar to 95 to 97.	E7896	98.60	100.10	1.50				
100.10	101.52	Similar to 95 to 97 but with 30 to 40% buff, strongly to intensely silicified brecciated bands with 2 to 3% disseminated pyrite blebs.	E7897	100.10	101.52	1.42				
101.52	102.95	Similar to 77 to 83 but with agglomerate clasts.	E7898	101.52	102.95	1.43				
102.95	103.67	Similar to 95 to 97. 2 to 4% smokey grey quartz infilled fractures and stringers.	E7899	102.95	103.67	.72				
103.67	105.22	Similar to 95 to 97.	E7900	103.67	105.22	1.55				
105.22	106.71	Similar to 95 to 97.	E7901	105.22	106.71	1.49				
106.71	108.06	Similar to 95 to 97.	E7902	106.71	108.06	1.35				
108.06	108.58	Similar to 95 to 97.	E7903	108.06	108.58	.52				
108.58	111.83	Lightly to moderately brecciated zone. Moderately to strongly carbonatized, lightly sericitized. Upper 1.35 metres is strongly to intensely silicified with chlorite carbonate infilled fractures, blebs.								
108.58	109.93	Strongly to intensely silicified. 1 to 2% disseminated pyrite. 3 to 5% carbonate stringers. 2, 2 to 3 cm white quartz carbonate veinlets at 35 and 60 degrees respectively.	E7904	108.58	109.93	1.35				
109.93	111.21	As above.	E7905	109.93	111.21	1.28				
111.21	111.83	As above.	E7906	111.21	111.83	.62				
111.83	113.22	Similar to 95 to 97. Coarse grained pyrite blob. 43 cm strongly silicified flow lens.	E7907	111.83	113.22	1.39				
113.22	114.40	Similar to 95 to 97.	E7908	113.22	114.40	1.18				
114.40	126.61	Lightly to strongly brecciated zone with angular to subangular clasts. Matrix in the brecciated bands is carbonatized, sericite. Small pyrite and/or pyrrhotite stringers or blebs.								
114.40	115.94	Moderately to strongly carbonatized and silicified. 3 to 4% pyrite stringers and blebs. Moderately brecciated.	E7909	114.40	115.94	1.54				
115.94	117.39	Lightly to moderately brecciated, strongly to locally intensely carbonatized and silicified. 2 to 3% pyrite blebs.	E7910	115.94	117.39	1.45				
117.39	118.92	Similar to 115 to 117.	E7911	117.39	118.92	1.53				
118.92	120.50	Lightly brecciated. Strongly silicified. 1	E7912	118.92	120.50	1.58				

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-4
PAGE NO: 9

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		pyrite blebs. Non to moderately magnetic. Sharp fragmented lower contact at 55 degrees.								
	160.96	162.50	As above.	E7940	160.96	162.50	1.54			
	162.50	164.17	As above. Contact foliation at lower contact.	E7941	162.50	164.17	1.67			
164.17	165.89	SYENODIORITE Similar to 158 to 159 but the upper 63 cm is dark grey fine grained mafic dyke or massive mafic flow with 2 to 3% disseminated pyrite blebs. Chilled lower contact at 50 degrees.								
	164.17	164.80	Fine grained, mafic dyke or flow with 2 to 3% disseminated pyrite blebs. 1 to 2% carbonate infilled fractures.	E7942	164.17	164.80	.63			
	164.80	165.89	Strongly K metasomatized, syenodiorite dyke. Trace to 1% disseminated pyrite.	E7943	164.80	165.89	1.09			
165.89	166.66	SERPENTINIZED ULTRAMAFIC KOMATIITE Similar to 160 to 164. Moderately foliated at 65 degrees. Strongly carbonate impregnated. Strongly serpentinized. 1 to 2% disseminated pyrite.								
	165.89	166.66	As above.	E7944	165.89	166.66	.77			
166.66	189.48	MAFIC FLOW Medium green grey with the occasional lightly to moderately hematite altered bands. Fine grained with numerous carbonate-quartz and hematite infilled fractures, blebs and stringers. Hardness 4.5 to 5. Lightly to moderately carbonatized. 2 to 4% hematite infilled fractures and blebs. Trace to 3% pyrite blebs. Possible mg tholeiite basalt.								
	167.09	168.56	Lightly to moderately hematite altered bands. 3 to 5% hematite infilled fractures and blebs. 3 to 4% carbonate infilled fractures. 1 to 2% disseminated pyrite.	E7945	167.09	168.56	1.47			
	169.03	170.56	Similar to 167 to 168.	E7946	169.03	170.56	1.53			
	173.93	175.32	5 to 10% pink carbonate infilled fractures and stringers with 2 to 3% pyrite blebs.	E7947	173.93	175.32	1.39			
	177.68	178.25	Similar to 167 to 168.	E7948	177.68	178.25	.57			

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-4
PAGE NO: 10

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
180.87	182.27	Lightly hematite altered band with 1% disseminated pyrite blebs. Wispy epidote infilled fractures	E7949	180.87	182.27	1.40				
182.27	183.85	5 to 10% irregular quartz carbonate blebs and infilled fractures with trace to 1% pyrite blebs. 1 cm pyrite blob. Lightly hematite altered.	E7950	182.27	183.85	1.58				
186.68	188.23	2 to 3% disseminated pyrite blebs. 3 to 5% carbonate-quartz infilled fractures. Lightly hematite altered.	E7951	186.68	188.23	1.55				
189.48	197.76	KOMATIITIC BASALT								
		Dark green to red green. Fine grained matrix locally with coarse grained spinifex texture laths. Hardness 3.5 to 4.5. Strongly serpentinized. Locally hematite altered. Several thin hematite altered lamprophyric dykes. 1 to 2% disseminated pyrite blebs. Non magnetic. Trace to 2% pyritized quartz carbonate stringers.								
191.01	191.55	Lamprophyre dyke. Strongly hematite altered carbonatized and effervescent. Trace to 1% fine grained disseminated pyrite. Sharp upper and lower contacts at 35 and 30 degrees respectively.								
191.01	191.55	As above.	E7952	191.01	191.55	.54				
193.38	193.90	Similar to 191 to 191.5. Lamprophyre dyke. Sharp upper and lower contacts at 50 and 70 degrees respectively.								
193.38	193.90	As above.	E7953	193.38	193.90	.52				
193.90	195.32	Similar to 186 to 188.	E7954	193.90	195.32	1.42				
196.17	197.76	Similar to 167 to 168 but with a 25 cm strongly hematite altered, carbonatized lamprophyre dyke.	E7955	196.17	197.76	1.59				
197.76	200.83	SERPENTINIZED ULTRAMAFIC KOMATIITE								
		Dark green. Fine grained, lightly foliated. Hardness 2.5 to 3. Strongly serpentinized. Lightly to moderately carbonatized, non effervescent. 1.2 metre moderately hematite altered band with 2 to 3% disseminated pyrite blebs and 3 to 5% carbonate infilled fractures. Sharp upper and lower contacts at 75 and 35 degrees respectively								
198.82	200.03	Moderately hematite altered with 2 to 3% pyrite blebs and 3 to 5% carbonate infilled fractures.	E7956	198.82	200.03	1.21				

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-4
PAGE NO: 12

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE

Economic Geology: The more intensely silicified rhyolites commonly had 2 to 3% disseminated pyrite blebs. These bands may return anomalous Au assays. The probable cause of the IP anomaly would be the massive sulphide unit and the adjacent pyritized, brecciated rhyolite agglomerates. The mafic flows in the lower portion of the hole were commonly pyritized and hematite altered. Hematite alteration was observed in the form of pervasive alteration and or hematite blebs and stringers. No significant Au assays are expected from this zone however.



REF CORD: 15000.0 10700.0 SURVEYED: NO

PLACER DOME INC.

LOCATION: 50+00N 7+00E BRID: 330 DEG

DIAMOND DRILL RECORD

POST LOCATION: 30m S AND 28m E TO POST #2, CLAIM P.755301

HOLE NO: 281-5
PROPERTY: PROJECT 281
LANGUIR TWP., ONTARIO
SECTION:

AZIMUTH: 330.0

LENGTH: 127.4

ELEVATION: .0

LOGGED BY: B. NEEDHAM

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: NOVEMBER, 1988

STARTED: NOVEMBER 15, 1988

COMPLETED: NOVEMBER 16, 1988

CLAIM NO: P.755301

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
50.00		-37.5	127.40		32.5

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
.00	20.11	CASING IN OVERBURDEN								
20.11	85.25	MASSIVE MAFIC FLOW Medium green. Fine grained, massive texture. Occasional coarse grained amphibole needles. Hardness 3.5 to 4.5. Lightly to moderately chloritized. 1 to 3% quartz carbonate stringer and infilled fractures with associated 1 to 2% pyrite blebs. Trace to 1% disseminated pyrite blebs. Non magnetic. Lightly carbonatized, non effervescent.								
32.80	33.02	2 to 4% quartz carbonate infilled fractures. 1% pyrite blebs.	E7588	32.80	33.02	.22				
37.95	39.43	3 to 5% pink quartz carbonate infilled fractures and stringers with associated 1% pyrite blebs. Locally lightly foliated at 23 degrees.	E7589	37.95	39.43	1.48				
45.00	45.63	Similar to 37 to 39.	E7590	45.00	45.63	.63				
51.81	53.33	Lightly bleached, moderately carbonatized zone with 3 to 5% carbonate infilled fractures. 1 to 2% pyrite blebs.	E7591	51.81	53.33	1.52				
58.36	78.52	Medium to dark green grey. Fine grained to very fine grained. Hardness 4 to 5. Only lightly chloritized. Micro wispy carbonate infilled fractures.								
64.95	65.51	2 cm strongly pyritized pink quartz carbonate vein at 70 degrees.	E7592	64.95	65.51	.56				
71.55	72.12	Similar to 64 to 65. 2 to 3% carbonate hematite stringers.	E7593	71.55	72.12	.57				

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-5
PAGE NO: 3

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		serpentinized.								
94.72	96.26	Strongly serpentinized and foliated at 25 degrees. 15 cm fragmented core band, possible shear.	E7603	94.72	96.26	1.54				
96.26	97.40	1% pyrite blebs.	E7604	96.26	97.40	1.14				
97.40	98.90	Similar to 96 to 97.	E7605	97.40	98.90	1.50				
98.90	99.97	Similar to 96 to 97.	E7606	98.90	99.97	1.07				
102.37	103.02	Lightly bleached, moderately foliated at 10 to 15 degrees. 1% pyrite blebs.	E7607	102.37	103.02	.65				
103.02	104.65	FINE GRAINED MAFIC OR LAMPROPHYRIC DYKE Similar to 91 to 94. 1 to 2% fine grained disseminated pyrite. Strongly effervescent. Non magnetic. Sharp upper contact at 60 degrees.								
103.02	104.65	As above.	E7608	103.02	104.65	1.63				
104.65	127.40	TALCOSE ULTRAMAFIC KOMATIITE Medium to dark grey locally moderately to strongly serpentinized light green. Lightly brecciated, lightly to moderately foliated. Hardness 1.5 to 2. 10 to 15% irregular carbonate infilled fractures. Moderately to strongly carbonatized, non to locally moderately effervescent. Moderately magnetic. Trace to 1% pyrite blebs. Locally bleached. Sharp upper contact at 30 degrees. Occasional strongly serpentinized shear.								
106.43	107.97	Moderately bleached, strongly foliated and carbonatized band with trace to 1% pyrite. 5 to 10% carbonate infilled fractures and stringers.	E7609	106.43	107.97	1.54				
121.31	127.40	Moderately to strongly serpentinized and moderately carbonatized zone. Moderately to strongly foliated. Trace to 2% pyrite blebs.								
123.44	124.63	As above. 1 to 2% disseminated pyrite blebs.	E7610	123.44	124.63	1.19				
124.63	126.23	As above. 1 to 2% disseminated pyrite blebs and cubes.	E7611	124.63	126.23	1.60				
126.23	127.40	Lightly bleached, strongly to intensely serpentinized. Thin clay infilled shear at 25 degrees. 3 cm quartz carbonate impregnated band with serpentine selvages.	E7612	126.23	127.40	1.17				

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-5
PAGE NO: 4

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE

127.40 END OF HOLE

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

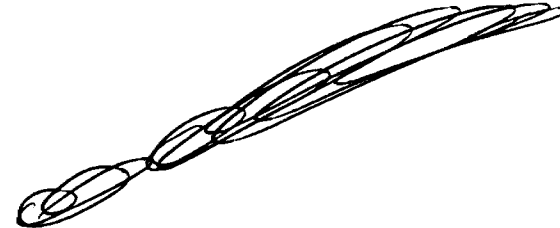
CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

CASING LEFT IN THE HOLE.

Geology: The hole intersected massive basalt, serpenitized and or talcose ultramafic komatiites and two strongly carbonatized fine grained mafic or lamprophyric dykes. Foliation was commonly at 20 to 35 degrees. It is possible the hole was drilled down dip or the hole intersected shearing at an oblique angle. The basalts and the mafic dykes were locally hematite altered and strongly carbonatized and efferescent with trace to locally 3% disseminated pyrite. A thin shear zone was intersected at 25 degrees at the bottom of the hole.

Economic Geology: The altered mafic dyke and the hematite altered basalts were locally pyritized. The basalts had several quartz carbonate veins with associated coarse grained pyrite and rarely chalcopryite blebs. The assay samples testing these quartz veins may return anomalous Au assays. The cause of the IP anomaly may be magnetic mafic dykes and/or the lightly magnetic talcose ultramafic komatiites.



PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-6
PAGE NO: 2

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
17.92	19.39	5 to 10% pink carbonate blobs. 5 to 10% carbonate infilled fractures and stringers.	E7541	17.92	19.39	1.47				
19.39	23.35	Coarse grained spinifex texture.								
25.76	26.38	Strongly foliated and serpentized zone with 5 to 10% carbonate stringers. Trace to 1% pyrite.	E7542	25.76	26.38	.62				
26.38	36.92	CHILLED SYENITE Dark pink to red. Very fine grained, with medium grained disseminated biotite and occasional disseminated fine grained to medium grained carbonate porphyroblasts. Hardness >5. Trace to 2% disseminated specular hematite blebs. Trace to locally 3 to 4% disseminated pyrite. 1 to 3% quartz carbonate infilled fractures. Several lenses of strongly foliated occasionally carbonatized ultramafic komatiite. Locally lightly bleached due to carbonatization. Non to locally moderately magnetic. Occasional moderately to strongly K metasomatized and/or silicified band with associated pyritization.								
26.38	27.64	Lightly bleached and carbonatized. 1 to 2% disseminated pyrite. 6 cm intensely serpentized ultramafic komatiite xenolith. Sharp lower contact at 45 degrees.	E7543	26.38	27.64	1.26				
27.64	28.68	Strongly serpentized ultramafic komatiite. Carbonate impregnated. 0.3 metres of ground core associated with a strongly foliated sheared zone at 15 degrees parallel to lower contact.								
28.68	30.13	Fine grained, syenite with disseminated fine grained to medium grained carbonate porphyroblasts. 5 to 10% strongly serpentized ultramafic komatiite xenoliths. 1 to 2% disseminated pyrite.	E7544	28.68	30.13	1.45				
30.13	31.71	Strongly serpentized and foliated ultramafic komatiite. 5 to 10% carbonate infilled fractures. Trace to 1% pyrite. Sharp lower contact at 70 degrees.	E7545	30.13	31.71	1.58				
31.71	32.91	Very fine grained, lightly to moderately magnetic syenite. Trace pyrite. 1 to 2% disseminated specular hematite.	E7546	31.71	32.91	1.20				

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-6
PAGE NO: 3

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
	32.91	33.63	Similar to 31 to 32 with 3 to 5% disseminated biotite blebs.	E7547	32.91	33.63	.72			
	33.63	34.88	Lightly to moderately K metasomatized and/or silicified zone with 3 to 4% disseminated pyrite. 2 to 3% quartz carbonate infilled fractures. Sharp lower contact at 25 degrees.	E7548	33.63	34.88	1.25			
	34.88	35.55	Strongly bleached, quartz carbonate impregnated, strongly foliated ultramafic komatiite with 2 to 3% specular hematite blebs. 3 to 5% K feldspar blebs and/or stringers. 1 to 2 cm quartz vein at 55 degrees.	E7549	34.88	35.55	.67			
	35.55	36.92	Similar to 33 to 34. Sharp lower contact at 15 degrees.	E7550	35.55	36.92	1.37			
36.92	68.62	TALCOSE ULTRAMAFIC KOMATIITE Similar to 6 to 13. Fine grained, lightly to locally strongly foliated at 30 to 50 degrees. Occasional coarse grained spinifex texture band. Hardness 1.5 to 2.5. Non to locally lightly magnetic. 5 to 15% carbonate infilled fractures and stringers commonly parallel to foliation. Trace pyrite blebs. 2 to 3% white carbonate-quartz bleb or stringer.								
	36.92	37.60	Strongly serpentized. 5 to 10% carbonate-quartz infilled fractures and blebs.	E7551	36.92	37.60	.68			
	42.48	42.72	Intensely serpentized sheared band at 20 degrees.							
	67.62	68.62	10 to 15% carbonate and carbonate-quartz infilled fractures and stringers. Trace to 1% pyrite blebs.	E7552	67.62	68.62	1.00			
68.62	72.86	CHILLED SYENITE Similar to 26 to 36. 3 to 5% strongly serpentized, foliated ultramafic komatiite xenolith. 1 to 2% carbonate and carbonate-quartz infilled fractures. Trace to locally 3% disseminated pyrite. Locally lightly biotitic. Sharp upper and lower contacts at 30 and 40 degrees respectively.								
	68.62	70.10	As above.	E7553	68.62	70.10	1.48			
	70.10	71.31	As above but with 20 to 30% strongly serpentized carbonate impregnated ultramafic komatiite xenoliths. 2 to 3% fine grained pyrite.	E7554	70.10	71.31	1.21			
	71.31	72.86	As above.	E7555	71.31	72.86	1.55			

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-6
PAGE NO: 4

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
72.86	76.58	SERPENTINIZED ULTRAMAFIC KOMATIITE Dark green grey. Fine grained, moderately to strongly foliated at approximately 45 degrees. 5 to 15% carbonate and carbonate-quartz infilled fractures and stringers. Occasional spinifex texture band. Lightly magnetic. Sharp lower contact at 10 degrees.								
	72.86	73.93	10 to 15% carbonate-quartz and carbonate infilled fractures and blebs. Trace pyrite. Occasional fine grained syenite blob.	E7556	72.86	73.93	1.07			
	75.40	76.58	15% irregular carbonate infilled fractures. Strongly foliated. 8 cm clay and serpentized shear at 40 degrees. Trace to 1% disseminated pyrite.	E7557	75.40	76.58	1.18			
76.58	78.42	CHILLED SYENITE Similar to 26 to 36. Medium grained to coarse grained disseminated carbonate porphyroblasts. 3 to 5% ultramafic komatiite xenoliths. 1 to 2% fine grained disseminated pyrite. Sharp lower contact at 25 degrees.								
	76.58	77.60	As above.	E7558	76.58	77.60	1.02			
	77.60	78.42	As above.	E7559	77.60	78.42	.82			
78.42	151.79	SERPENTINIZED ULTRAMAFIC KOMATIITE Similar to 72 to 76. Moderately to strongly foliated. Variable foliation at 10 to 50 degrees. Locally lightly to moderately bleached, strongly carbonatized band. Occasional strongly carbonatized contaminated syenodiorite dyke. Occasional strongly hematite altered, carbonatized and silicified spinifex texture band. Trace to locally 1% pyrite cubes. Non to lightly magnetic. Gradational increase in talc alteration downhole.								
	78.42	79.77	Thinly and strongly foliated zone with 15 to 20% carbonate stringers parallel to foliation. 11 cm strongly carbonatized band. Trace to 1% pyrite.	E7560	78.42	79.77	1.35			
	79.77	80.08	Similar to 26 to 36. Upper and lower contacts at 50 degrees. Lightly biotitic. Trace to 1% pyrite.	E7561	79.77	80.08	.31			
	80.08	81.21	Strongly foliated with 5 to 10% carbonate and/or carbonate-quartz infilled fractures and stringers	E7562	80.08	81.21	1.13			

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-6
PAGE NO: 6

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
103.45	105.15	As above.	E7574	103.45	105.15	1.70				
106.86	107.96	Lightly to moderately hematite altered, strongly carbonatized band. Trace pyrite bleb.	E7575	106.86	107.96	1.10				
108.58	109.29	Spinifex texture band.								
109.29	110.54	20 to 25% carbonate and carbonate-quartz stringers and infilled fractures. 3 to 4 cm intensely serpentinized clay infilled shear at 30 degrees.	E7576	109.29	110.54	1.25				
110.54	151.79	Fine grained with fine grained to medium grained talc carbonate porphyroblasts. Moderately foliated. Moderately to strongly carbonatized. 5 to 10% poorly defined carbonate serpentine stringers. Trace pyrite.								
116.88	117.25	16 cm fine grained syenite dyke with moderately hematite altered and carbonatized selvages.	E7577	116.88	117.25	.37				
127.94	128.59	36 cm fine grained, carbonatized syenite dyke with strongly and carbonatized serpentinized selvages. Trace pyrite.	E7578	127.94	128.59	.65				
136.55	137.05	Intensely serpentine and carbonate impregnated band.	E7579	136.55	137.05	.50				
140.24	140.91	Contorted syenodiorite. Strongly biotitic and carbonatized. Strongly serpentinized contacts. Thin clay infilled shear at lower contact at 35 degrees.	E7580	140.24	140.91	.67				
142.40	143.89	Strongly to intensely foliated and carbonate impregnated. 20 to 25% carbonate and serpentine infilled fractures and stringers. Strongly serpentinized. Foliation at 60 degrees.	E7581	142.40	143.89	1.49				
144.10	145.20	Similar to 142 to 143.	E7582	144.10	145.20	1.10				
145.20	146.90	Strongly to intensely carbonatized 20 to 30% moderately hematite altered bands. Trace pyrite. Lightly biotitic. Mottled, fine grained to medium grained texture.	E7583	145.20	146.90	1.70				
146.90	148.58	Lightly to moderately bleached, strongly to intensely carbonatized zone with medium grained carbonate porphyroblasts. 3 to 5% carbonate and/or carbonate-quartz infilled fractures.								
147.06	147.49	As above with a 12 cm carbonate-quartz impregnated band with associated light hematite alteration.	E7584	147.06	147.49	.43				
147.77	148.58	As above. Strongly to intensely bleached and carbonatized, strongly foliated band at 60 degrees. Irregular serpentine infilled fractures crosscutting	E7585	147.77	148.58	.81				

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-6
PAGE NO: 7

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
148.58	149.45	Strongly foliated with 10 to 15% carbonate infilled fractures and stringers. Strongly serpentinized. Foliation at 35 to 65 degrees.	E7586	148.58	149.45	.87				
150.22	151.12	10 to 15% carbonate-quartz infilled fractures and stringers. 15 cm strongly serpentinized clay infilled shear at 35 degrees.	E7587	150.22	151.12	.90				

151.79

END OF HOLE

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

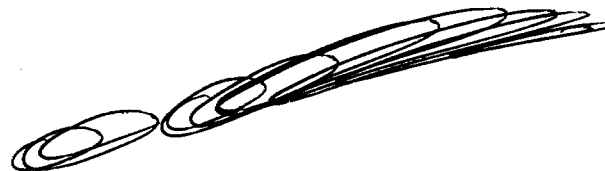
ALL CASING PULLED FROM THE HOLE.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

Geology: The hole intersected talcose and serpentinized ultramafic komatiites and 3 fine grained syenitic dykes. The dykes were commonly pyritized and moderately carbonatized. Several shear zones were intersected in the komatiites. In general, the komatiites were moderately to strongly foliated with up to 15% carbonate, carbonate quartz and/or carbonate serpentine stringers. The stringers were commonly parallel to foliation which commonly varied from 20 to 50 degrees. Hematite alteration of the komatiites was observed commonly associated with spinifex textured bands. Spinifex texture was frequently observed in the komatiites.

Economic Geology: The cause of the IP anomaly(s) is the pyritized fine grained syenite dykes. The more strongly pyritized zones in the dykes may have anomalous gold assays. The numerous carbonate and carbonate quartz stringers in the komatiites are thought to be barren.



REF CORD: 15450.0 10600.0 SURVEYED: NO

PLACER DOME INC.

LOCATION: 54+50N 6+00E GRID: 150 DEG

DIAMOND DRILL RECORD

POST LOCATION: 220m N and 96m W TO POST #4, CLAIM P.755301

HOLE NO: 281-7
PROPERTY: PROJECT 281
LANGMUIR TWP., ONTARIO

AZIMUTH: 150.0

LENGTH: 310.3

ELEVATION: .0

LOGGED BY: B. NEEDHAM

DIP: -45.0

CORE SIZE: BB

SYSTEM OF MEASURE: METRIC

DATE LOGGED: NOVEMBER, 1988

STARTED: NOVEMBER 21, 1988

COMPLETED: NOVEMBER 26, 1988

CLAIM NO: P.755301

DIP TESTS (corrected)

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
91.44		-48.5	304.19		-50.5
182.88		-48.5			

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE

.00 24.99 CASING IN OVERBURDEN

24.99 33.43 RHYOLITIC LAPILLI TUFF

Light to medium green grey to medium dark reddish grey to buff. Fine grained, with the occasional band with medium grained lapilli clasts. Occasional moderately to strongly foliated band at approximately 40 degrees to the core axis. 30 to 40% moderately to strongly silicified, bleached and/or lightly hematitic ? altered bands with associated irregular silicified fracture and/or 1 to 3% thin quartz carbonate stringers. Trace to locally 1% fine grained pyrite. Lightly to moderately carbonatized. Numerous irregular wispy carbonate infilled fractures. Gradational lower contact.

25.14	26.83	30 to 40% bleached and/or hematitic ? altered bands with 3 to 4% irregular carbonate infilled fractures.	E7674	25.14	26.83	1.69
26.83	27.50	Similar to 25 to 26. Alteration banding at approximately 30 degrees. 1% thin pyritized quartz carbonate stringer.	E7675	26.83	27.50	.67
27.50	29.13	Moderately bleached, moderately to strongly carbonatized zone. Moderately foliated at 45 degrees. 12 cm quartz carbonate vein at 55 degrees. Numerous lapilli clasts.	E7676	27.50	29.13	1.63
29.13	30.29	Similar to 25 to 26. Thin carbonate infilled fractures crosscutting foliation at 60 degrees occasional have trace pyrite and/or tourmaline blebs.	E7677	29.13	30.29	1.16
30.29	31.93	Similar to 25 to 26 but with lightly to moderately carbonatized bands with 2 to 3%	E7678	30.29	31.93	1.64

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-7
PAGE NO: 2

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		carbonate-quartz infilled fractures and stringers.								
	31.93 33.43	Similar to 25 to 26. 19 cm strongly foliated, carbonatized tuff band at 35 degrees.	E7679	31.93	33.43	1.50				
33.43	41.32	BRECCIATED RHYOLITIC PYROCLASTIC 50 to 60% strongly brecciated bands with bleached strongly silicified buff matrix and medium dark reddish grey subangular clasts. Medium grained feldspar grains disseminated throughout the unit. Locally moderately bleached and carbonatized. 1 to 2% wispy carbonate infilled fractures. Trace very fine grained disseminated pyrite. Rare quartz carbonate veinlet. Poorly defined lower contact.								
	33.77 34.67	As above.	E7680	33.77	34.67	.90				
	34.67 36.18	As above. 1 cm irregular quartz carbonate veinlet with trace disseminated pyrite selvages.	E7681	34.67	36.18	1.51				
	37.14 38.67	As above.	E7682	37.14	38.67	1.53				
	38.67 40.14	As above. 1 cm white quartz carbonate vein at 35 degrees.	E7683	38.67	40.14	1.47				
	40.14 41.32	As above but intensely silicified and moderately bleached.	E7684	40.14	41.32	1.18				
41.32	100.49	RHYOLITIC ABBLOMERATE Light to medium green grey to dark reddish grey. Fine grained matrix with disseminated white feldspar clasts. Slightly to lightly foliated. Dark reddish grey band with buff subrounded to subangular coarse grained commonly buff, silicified fragments increase downhole. Occasional strongly carbonatized, moderately bleached and silicified band with trace to 1% disseminated pyrite. Trace to 2% glassy quartz carbonate stringer. Numerous irregular wispy carbonate infilled fractures occasional with associated fine grained pyrite. Slightly to lightly foliated at 60 to 70 degrees.								
	41.32 42.26	Similar to 25 to 26.	E7685	41.32	42.26	.94				
	42.84 44.36	40 to 50% moderately bleached, carbonatized and silicified bands with trace to 1% fine grained pyrite. 2 to 3% irregular quartz carbonate stringers.	E7686	42.84	44.36	1.52				
	44.36 45.21	Moderately bleached, carbonatized and silicified band with trace to 1% disseminated pyrite.	E7687	44.36	45.21	.85				
	46.00 47.05	Similar to 42 to 44.	E7688	46.00	47.05	1.05				
	47.60 48.03	Similar to 42 to 44.	E7689	47.60	48.03	.43				
	49.82 50.41	6 cm strongly bleached silicified quartz	E7690	49.82	50.41	.59				

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: 281-7
PAGE NO: 3

FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		carbonate impregnated band at 55 degrees. Trace pyrite.								
52.20	53.69	30 to 40% moderately bleached silicified and carbonatized bands or altered selvages adjacent to wispy quartz carbonate infilled fractures. Trace to locally 1% pyrite.	E7691	52.20	53.69	1.49				
53.69	55.30	Similar to 52 to 53.	E7692	53.69	55.30	1.61				
55.30	56.70	Similar to 52 to 53.	E7693	55.30	56.70	1.40				
56.70	58.23	Moderately to strongly bleached, carbonatized and silicified band with 1 to 3% quartz carbonate infilled fractures and stringers. Trace to 1% very fine grained disseminated pyrite.	E7694	56.70	58.23	1.53				
58.23	59.06	Similar to 52 to 53.	E7695	58.23	59.06	.83				
60.63	62.04	Similar to 56 to 58. 2, 1 cm quartz veinlets at 60, 70 degrees with disseminated pyrite selvages. 1% disseminated pyrite.	E7696	60.63	62.04	1.41				
62.04	63.27	Similar to 56 to 58. 1 cm quartz carbonate veinlet at 20 degrees with fine grained 1 to 2% disseminated pyrite selvages and coarse grained pyrite blob. Locally lightly sericitized.	E7697	62.04	63.27	1.23				
63.27	64.89	Similar to 52 to 53.	E7698	63.27	64.89	1.62				
65.19	67.68	Dark reddish grey moderately foliated lapilli tuff. Weak alteration banding. Foliation at 60 to 70 degrees. Trace to 3% carbonate-quartz infilled fractures and stringers.								
66.66	67.68	2 to 3% carbonate-quartz infilled fractures and stringers.	E7699	66.66	67.68	1.02				
70.63	71.45	Similar to 56 to 58.	E7700	70.63	71.45	.82				
72.28	73.25	Similar to 52 to 53 with a 26 cm strongly silicified lapilli tuff band with 2 to 3% quartz infilled fractures.	E7701	72.28	73.25	.97				
74.67	75.07	8 cm intensely silicified and bleached band at 70 degrees with trace fine grained pyrite.	E7702	74.67	75.07	.40				
75.07	76.41	Similar to 52 to 53. Locally lightly sericitized.	E7703	75.07	76.41	1.34				
77.88	79.07	Similar to 52 to 53.	E7704	77.88	79.07	1.19				
79.07	80.02	Similar to 56 to 58.	E7705	79.07	80.02	.95				
84.39	86.97	Similar to 56 to 58 with the occasional lightly sericitized band. Lightly to moderately effervescent. Trace to 1% fine grained pyrite.								
84.39	85.72	As above.	E7706	84.39	85.72	1.33				
85.72	86.97	As above.	E7707	85.72	86.97	1.25				
87.35	88.40	Similar to 52 to 53.	E7708	87.35	88.40	1.05				

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FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		carbonate infilled fractures and stringers. Trace to locally 3% disseminated fine grained pyrite. Locally lightly brecciated. Contorted lower contact at approximately 45 degrees.								
123.04	124.35	Strongly to intensely carbonatized, lightly to moderately brecciated zone with 3 to 4% carbonate-quartz and quartz carbonate stringers. Trace pyrite.	E7731	123.04	124.35	1.31				
124.35	125.80	Similar to 123 to 124.	E7732	124.35	125.80	1.45				
125.80	126.50	Similar to 123 to 124.	E7733	125.80	126.50	.70				
126.50	128.00	Strongly silicified and carbonatized zone. Lightly sericitized. Trace fine grained pyrite. 1 to 2% quartz carbonate stringers.	E7734	126.50	128.00	1.50				
128.00	128.81	Similar to 126 to 128. 1 cm glassy quartz carbonate veinlet at 40 degrees.	E7735	128.00	128.81	.81				
128.81	129.63	Moderately to strongly carbonatized, lightly to moderately silicified band. 2 to 3% irregular carbonate infilled fractures.	E7736	128.81	129.63	.82				
129.63	130.66	Strongly to locally intensely silicified zone. Moderately carbonatized. Trace pyrite.	E7737	129.63	130.66	1.03				
130.66	132.18	Contorted alteration banding. Strongly carbonatized and silicified with 2 to 3% carbonate infilled fractures. Trace pyrite.	E7738	130.66	132.18	1.52				
132.18	133.26	Similar to 130 to 132 with light sericitized zones. Trace to 1% disseminated fine grained pyrite. 1 to 2% quartz carbonate infilled fractures.	E7739	132.18	133.26	1.08				
133.26	133.70	Intensely silicified. Lightly to moderately sericitized zone with 3 to 4% irregular quartz carbonate infilled fractures. Trace to 1% fine grained disseminated pyrite.	E7740	133.26	133.70	.44				
133.70	134.47	Similar to 130 to 132. 1 to 2% carbonate stringers with trace to 1% pyrite blebs.	E7741	133.70	134.47	.77				
134.47	135.68	Intensely carbonatized, moderately silicified zone. Strongly bleached. Trace to 1% carbonate-quartz stringers. Trace pyrite.	E7742	134.47	135.68	1.21				
135.68	137.17	Similar to 130 to 132. 10 to 15% bleached silicified agglomerate clasts. Trace to 1% fine grained pyrite.	E7743	135.68	137.17	1.49				
137.17	138.60	Similar to 130 to 132. Strongly bleached. 2 to 3% disseminated fine grained pyrite.	E7744	137.17	138.60	1.43				
138.60	139.99	Similar to 130 to 132. 1% disseminated pyrite and blebs.	E7745	138.60	139.99	1.39				
139.99	140.83	Similar to 133.2 to 133.7. 2 to 3% fine grained disseminated pyrite. 3 to 4% carbonate and carbonate-quartz infilled fractures.	E7746	139.99	140.83	.84				
140.83	141.32	Similar to 130 to 132.	E7747	140.83	141.32	.49				

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
141.32	152.15	ALTERED RHYDLITIC AGGLOMERATE Lightly to moderately brecciated with buff silica impregnation. Medium green andesitic and dark reddish grey clasts. Thin wispy carbonate infilled fractures. Locally lightly chloritized zones. Lightly to moderately silicified and carbonatized. Trace to locally 1% disseminated pyrite.								
141.32	142.90	Moderately to strongly silicified. Moderately carbonatized. 2 strongly silicified tuff bands with lamination at 40 degrees.	E7748	141.32	142.90	1.58				
142.90	144.49	Lightly to moderately brecciated with 30 to 40% buff silica and carbonate impregnation. 2 to 3% carbonate-quartz stringers with trace to 1% pyrite.	E7749	142.90	144.49	1.59				
144.49	146.06	Similar to 142 to 144.	E7750	144.49	146.06	1.57				
146.06	147.80	Similar to 142 to 144.	E7751	146.06	147.80	1.74				
147.80	149.17	Similar to 142 to 144 but the upper 52 cm is strongly carbonatized locally with light hematite altered blobs. 1 cm quartz carbonate veinlet at 70 degrees.	E7752	147.80	149.17	1.37				
149.17	150.69	Similar to 142 to 144.	E7753	149.17	150.69	1.52				
150.69	152.15	Similar to 142 to 144.	E7754	150.69	152.15	1.46				
152.15	163.81	RHYDLITIC PYROCLASTIC Dark grey with disseminated medium grained to coarse grained quartz and/or feldspar phenocrysts intercalated with lightly to moderately altered light to medium green to yellow green brecciated and/or agglomeritic bands, possible flow margin. Massive to slightly foliated at 45 to 50 degrees. 3 to 5% fractures with bleached silicified selvages. 1 to 3% quartz carbonate veinlets. Hardness >5. Non to locally moderately carbonatized and silicified. Gradational upper and lower contacts.								
152.15	153.42	Moderately to strongly carbonatized, lightly to moderately silicified zone. 1 to 3% carbonate-quartz infilled fractures and stringers. Trace pyrite.	E7755	152.15	153.42	1.27				
153.64	154.07	Moderately to strongly silicified locally hematite altered band with trace to 1% pyrite. 3 to 4% quartz carbonate stringers at 75 degrees.	E7756	153.64	154.07	.43				
154.83	156.13	Similar to 153 to 154.	E7757	154.83	156.13	1.30				
156.35	157.93	60 to 70% lightly to moderately silicified and carbonatized bands with associated buff irregular silicified stringers. 1 cm quartz carbonate chlorite veinlet with 1% fine grained pyrite selvages.	E7758	156.35	157.93	1.58				
159.97	160.24	40 to 50% buff silicified bands and	E7759	159.97	160.24	.27				

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		stringers. Trace pyrite.								
	160.24	161.01 Moderately brecciated and/or agglomeritic silicified and carbonatized band. Trace pyrite.	E7760	160.24	161.01	.77				
	162.47	162.97 Similar to 153 to 154.	E7761	162.47	162.97	.50				
163.81	169.68	RHYOLITIC CRYSTAL TUFF Similar to 107 to 123. Locally lightly brecciated with associated silicification, carbonatized and light to moderate sericitization. Trace disseminated fine grained pyrite. 2 to 3% white quartz carbonate veinlets commonly with associated chlorite blebs and strongly bleached silicified and carbonatized selvages.								
	163.81	165.39 Moderately to strongly bleached, silicified and carbonatized. Pervasive. 3 to 4% white quartz carbonate veinlets. Trace to 1% disseminated fine grained pyrite.	E7762	163.81	165.39	1.58				
	165.39	166.80 As above.	E7763	165.39	166.80	1.41				
	166.80	167.37 As above. 3 cm white quartz chlorite vein at 27 degrees with trace pyrite.	E7764	166.80	167.37	.57				
	167.37	168.84 As above.	E7765	167.37	168.84	1.47				
	168.84	169.68 As above.	E7766	168.84	169.68	.84				
169.68	198.23	RHYOLITIC PYROCLASTIC Similar to 152 to 163. Occasional massive mafic flow and/or intrusive. Occasional lightly to moderately brecciated silicified and/or K metasomatized zone or band.								
	170.20	171.80 30 to 40% irregular buff silicification. 3 to 4% glassy quartz carbonate veinlets. Trace to 1% disseminated pyrite.	E7767	170.20	171.80	1.60				
	172.74	173.68 Lightly to moderately K metasomatized, fine grained intermediate dyke. 1 to 2% disseminated fine grained pyrite. 2 to 3% carbonate infilled fractures. Sharp upper and lower contacts at 80 and 40 degrees.								
	172.74	173.68 As above.	E7768	172.74	173.68	.94				
	174.67	174.90 Strongly chloritized massive mafic flow or intrusive. Trace disseminated pyrite. Sharp upper and lower contacts at 35 and 45 degrees respectively.								
	175.95	177.45 Lightly bleached. 15 to 20% buff silica	E7769	175.95	177.45	1.50				

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		impregnated fractures and bands with 3 to 4% K feldspar blebs. Lightly brecciated. Trace pyrite.								
177.45	178.06	Chloritized massive basalt. Trace pyrite. Chilled, sharp upper and lower contacts at 43 and 35 degrees respectively.								
179.48	180.63	Similar to 175 to 177.	E7770	179.48	180.63	1.15				
183.20	185.00	Chloritized, fine grained mafic dyke. 1 to 2% carbonate stringers. Trace pyrite. Non magnetic. Sharp upper and lower contacts at 25 and 35 degrees respectively.								
185.00	186.35	Similar to 175 to 177 but locally moderately brecciated.	E7771	185.00	186.35	1.35				
186.35	187.72	Moderately to strongly K metasomatized and silicified with 2 to 3% chlorite infilled fractures. 3 to 4% quartz carbonate stringers. Trace to 1% disseminated fine grained pyrite. 11 cm altered mafic xenolith.	E7772	186.35	187.72	1.37				
187.72	188.99	Similar to 175 to 177. 1 to 2% chlorite infilled fractures.	E7773	187.72	188.99	1.27				
188.99	189.55	Chloritized amygdaloidal massive basalt. Trace to 1% carbonate infilled fractures. Sharp upper and lower contacts at 40 and 20 degrees respectively.								
189.55	198.23	Medium to dark green grey with 3 to locally 10% silicified and lightly sericitized infilled fractures. Disseminated medium grained quartz, feldspar blebs. Slightly to lightly foliated at 45 degrees. Flow ?.								
189.55	190.58	Similar to 175 to 177.	E7774	189.55	190.58	1.03				
191.34	192.20	Similar to 175 to 177. 1 cm carbonate-quartz stringer at 25 degrees.	E7775	191.34	192.20	.86				
198.23	205.30	ALTERED RHYOLITIC ASH TUFF Similar to 123 to 141. Moderately to strongly bleached, silicified and carbonatized. Lightly to locally moderately effervescent. Locally lightly sericitized. Locally very fine grained. Trace to locally 2% very fine grained disseminated pyrite. Occasional buff to white intensely silicified band.								
198.23	199.17	Moderately to strongly silicified. Locally	E7776	198.23	199.17	.94				

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
218.10	218.34	Massive mafic flow or intrusive. Strongly carbonatized. Chilled sharp contacts at 60 degrees. Chlorite infilled fractures at lower contact.								
218.34	219.56	30 to 40% strongly to intensely silicified bands with 2 to 3% disseminated pyrite blebs. 1 cm quartz veinlet at 45 degrees with pyrite blebs. 2 to 4% carbonate infilled fractures.	E7789	218.34	219.56	1.22				
219.56	220.91	Similar to 218 to 219.	E7790	219.56	220.91	1.35				
221.42	222.87	Similar to 218 to 219. 3 cm white quartz vein at 32 degrees with trace medium grained pyrite blebs. 3 to 4% carbonate infilled fractures and stringers.	E7791	221.42	222.87	1.45				
222.87	224.33	Similar to 218 to 219.	E7792	222.87	224.33	1.46				
224.33	225.75	Similar to 221 to 222. 5 cm quartz carbonate and chlorite vein at 55 degrees.	E7793	224.33	225.75	1.42				
225.75	227.16	Similar to 218 to 219.	E7794	225.75	227.16	1.41				
227.16	228.51	Similar to 218 to 219.	E7795	227.16	228.51	1.35				
228.51	230.05	Similar to 218 to 219.	E7796	228.51	230.05	1.54				
230.05	231.58	Similar to 218 to 219. Lightly brecciated intensely silicified bands. 1% pyrite blebs.	E7797	230.05	231.58	1.53				
231.58	232.53	Strongly to intensely silicified zone with 1 to 2% pyrite blebs. 3 to 4% wispy carbonate infilled fractures. Lightly brecciated.	E7798	231.58	232.53	.95				
232.80	234.17	Similar to 231 to 232.	E7799	232.80	234.17	1.37				
234.17	241.94	BRECCIATED RHYOLITIC PYROCLASTIC Light to medium grey green to yellow green. Strongly brecciated locally granulated texture with numerous chlorite carbonate infilled fractures between angular rhyolite fragments. Hardness >5. Moderately bleached overall, moderately to strongly carbonatized and silicified. Occasional strongly bleached, intensely silicified fragment. Trace to 1% disseminated pyrite and blebs. 2 to 3% quartz carbonate veinlets. Sharp upper contact at 20 degrees. Possible agglomerate. Gradational lower contact.								
234.17	235.70	As above.	E7800	234.17	235.70	1.53				
235.70	236.28	As above.	E7801	235.70	236.28	.58				
236.28	238.77	As above. 1 cm glassy quartz carbonate veinlet at 10 degrees.	E7802	236.28	238.77	2.49				
238.77	240.36	As above.	E7803	238.77	240.36	1.59				
240.36	241.94	As above but less intensely brecciated. 3 to 5% glassy quartz carbonate veinlet with disseminated	E7804	240.36	241.94	1.58				

PLACER DOME INC.
DIAMOND DRILL RECORD

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
		locally intensely effervescent. Locally lightly to moderately chloritized. Occasional sericitized band. Occasional carbonate-quartz vein or impregnated band. Locally moderately foliated at 40 degrees. Trace to locally 2% fine grained disseminated pyrite.								
281.10	282.10	Strongly carbonatized, lightly sericitized zone with 4 to 5% irregular carbonate chlorite infilled fractures. 2 to 3% quartz carbonate stringers and 10 cm white quartz carbonate vein at 80 degrees.	E7834	281.10	282.10	1.00				
282.10	283.63	Lightly to moderately foliated zone at approximately 40 degrees. Lightly to moderately silicified. Chloritized matrix.								
283.85	285.13	Lightly to moderately bleached, carbonatized and silicified brecciated zone. Lightly sericitized. 1 to 2% disseminated fine grained pyrite.	E7835	283.85	285.13	1.28				
285.13	286.15	Similar to 283 to 285. 20 cm pink carbonate-quartz impregnated band.	E7836	285.13	286.15	1.02				
286.15	286.82	Moderately to strongly silicified, moderately carbonatized zone. 3 to 4% carbonate quartz stringers and blebs. 1 to 2% disseminated fine grained pyrite.	E7837	286.15	286.82	.67				
286.82	300.36	ALTERED RHYOLITIC AGGLOMERATE Light grey green to yellow green. Fine grained moderately to strongly carbonatized, lightly chloritized or sericitized matrix with up to 10 cm subangular to locally subrounded rhyolite clasts. Hardness 4.5 to >5. Strongly silicified and moderately to strongly carbonatized. Lightly sericitized. Pitted vuggy upper 3.5 metres. 3 to locally 10% carbonate-quartz blebs and stringers. 1 to 2% disseminated pyrite with trace to 1% coarse grained pyrite blebs.								
286.82	287.51	As above. 14 cm carbonate-quartz impregnated and pyritized band. 2 to 3% pyrite blebs.	E7838	286.82	287.51	.69				
287.51	289.07	As above. Vuggy. Strongly carbonatized and silicified. Lightly foliated at 43 degrees. 10 to 15% carbonate blebs and stringers. 1 to 2% pyrite.	E7839	287.51	289.07	1.56				
289.07	290.62	Similar to 287 to 289. 8 cm carbonate-quartz impregnated band.	E7840	289.07	290.62	1.55				
290.62	292.07	As above. 1 to 2% disseminated pyrite and blebs.	E7841	290.62	292.07	1.45				
292.07	293.05	As above.	E7842	292.07	293.05	.98				

PLACER DOME INC.
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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
293.05	294.33	As above. Chlorite in matrix more common. 4 to 6% pyrite blobs or irregular stringers.	E7843	293.05	294.33	1.28				
294.33	294.51	Strongly serpentinized ultramafic komatiite xenolith.								
294.51	295.45	5 to 10% pyrite blebs and stringers locally semi massive. 15 to 20% carbonate, quartz, chlorite infilled fractures, blebs surrounding rhyolite clasts.	E7844	294.51	295.45	.94				
295.45	296.44	Similar to 294 to 295. 10 cm irregular semi massive pyrite band.	E7845	295.45	296.44	.99				
296.44	297.73	Similar to 295 to 296.	E7846	296.44	297.73	1.29				
297.73	298.63	Similar to 295 to 296 but with 20 to 30% coarse grained feldspar porphyritic dykelets. Numerous irregular wispy carbonate infilled fractures. Only 2 to 3% pyrite.	E7847	297.73	298.63	.90				
298.63	300.36	Contact zone. Intercalated feldspar porphyritic dykelets, rhyolite agglomerate clasts and serpentinized ultramafic komatiite xenoliths. Moderately to locally strongly K metasomatized bands.								
298.63	300.36	As above. 12 cm semi massive pyrite associated with K metasomatized zone. 1 to 2% disseminated pyrite. Brecciated lower contact.	E7848	298.63	300.36	1.73				
300.36	310.28	SERPENTINIZED ULTRAMAFIC KOMATIITE Dark green. Fine grained, slightly to lightly foliated with the occasional lightly brecciated or moderately to strongly foliated strongly carbonatized band. Hardness 3 to 3.5. Strongly serpentinized. Non magnetic. Locally lightly bleached. Lightly to moderately carbonatized and effervescent. Occasional carbonatized, lightly K metasomatized syenodioritic dyke. Trace to 3% pink carbonate blebs or veinlet. Trace to locally 3% pyrite blebs.								
300.36	301.14	3 to 5% carbonate stringers occasionally with K feldspar selvages. Trace to 1% pyrite.	E7849	300.36	301.14	.78				
304.83	305.50	Syenodioritic dyke. Upper and lower contacts at 60 to 65 degrees. 1 to 2% disseminated pyrite. 3 to 5% carbonate chlorite infilled fractures.	E7850	304.83	305.50	.67				
305.85	307.06	18 cm dark pink felsic dyke with 1% disseminated pyrite. 1 cm pink carbonate veinlet at 15 degrees. 1% pyrite blebs.	E7851	305.85	307.06	1.21				

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FROM	TO	-----DESCRIPTION-----	SAMPLE	FROM	TO	LENGTH	Au g/t	RERUN	REJECT	AVERAGE
308.68	309.53	2 to 3% disseminated pyrite blebs. 5 to 10% carbonate infilled fractures and blebs.	E7852	308.68	309.53	.85				
309.53	310.28	Lightly bleached, moderately to strongly carbonatized, strongly foliated zone with 1 to 2% disseminated pyrite. Foliation at 45 degrees.	E7853	309.53	310.28	.75				
310.28		END OF HOLE								

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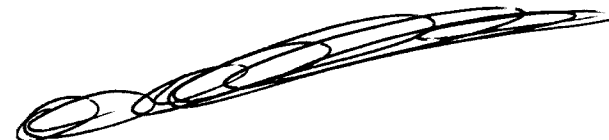
CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

ALL CASING PULLED FROM THE HOLE.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

Geology: The hole intersected dominantly variably altered rhyolite and dacitic pyroclastics, including agglomerates, crystal tuffs and tuffs. Some of the units logged as crystal tuffs or tuffs may actually be porphyritic flows. Alteration includes silicification, carbonatization and light to moderate sericitization and localized pyritization. Locally the agglomerates have a brecciated appearance. Other units intersected include a feldspar porphyry dyke or sill which appears to be associated with a 1.1 metre massive sulphide unit. The massive sulphide unit occurs close to a change from rhyolitic to dacitic units.

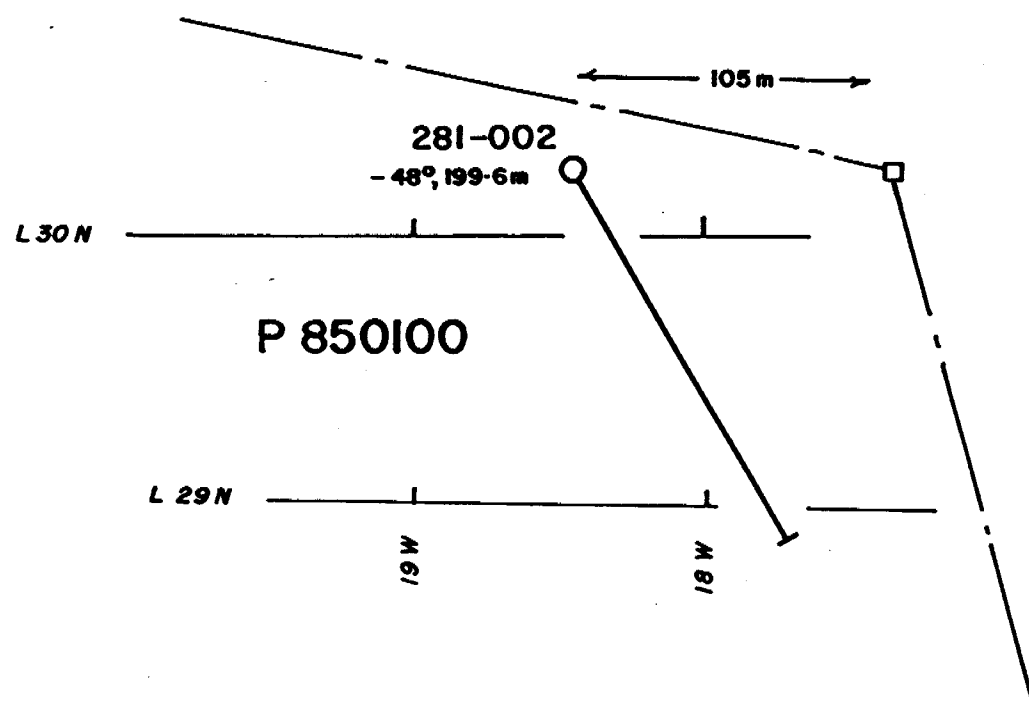
Economic Geology: Strong silicification and or carbonatization was logged but in general, strong pyritization (ie. >2%) was limited to the most intensely altered bands or immediately adjacent to the quartz veins. Some of these pyritized bands may return anomalous Au assays. The 1.1 metre massive sulphide unit is locally thinly laminated with 70 to 75% pyrite, 15% pyrrhotite and 10 to 15% cherty quartz carbonate blebs. No significant copper or zinc analyses are expected.



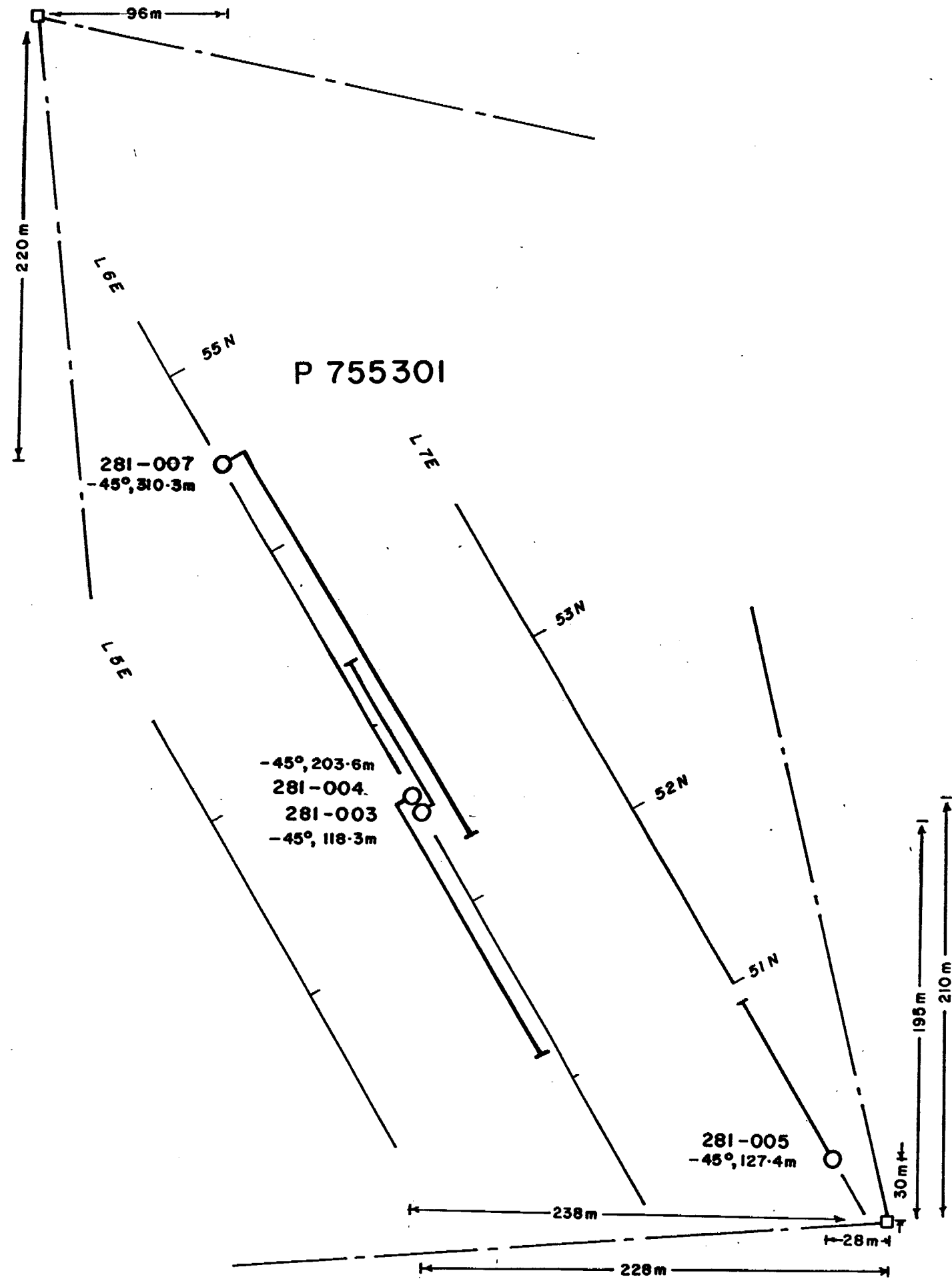
SCHEDULE "A"

Project 281

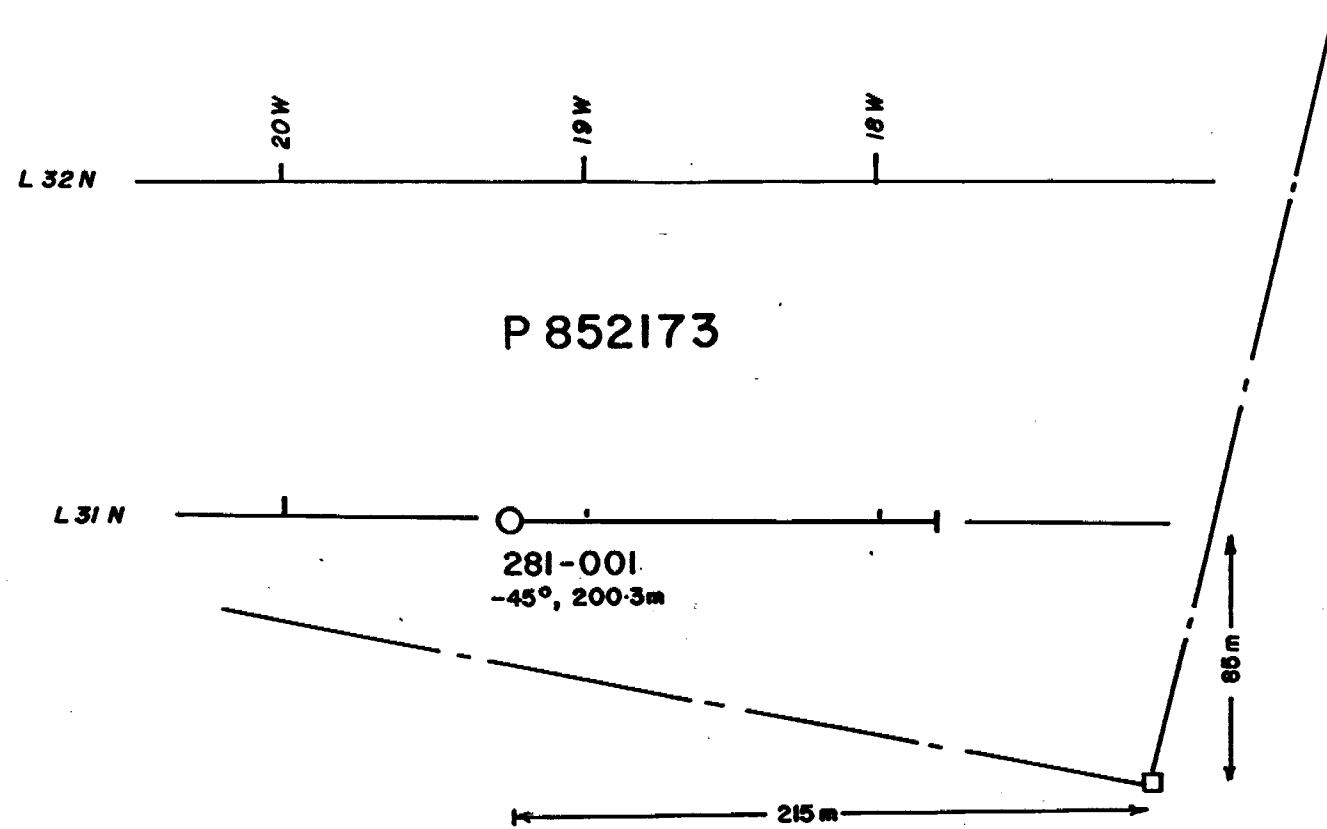
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PLACERDOME INC.		
Proj. No. 281, McLEOD CREEK, LANGMUIR & BLACKSTOCK TP		
DDH LOCATIONS		
Scale 1: 2500	Drawn F.C.	Dwg. No.
Date APL. 1989	NTS Ref. 42A/7	281-15

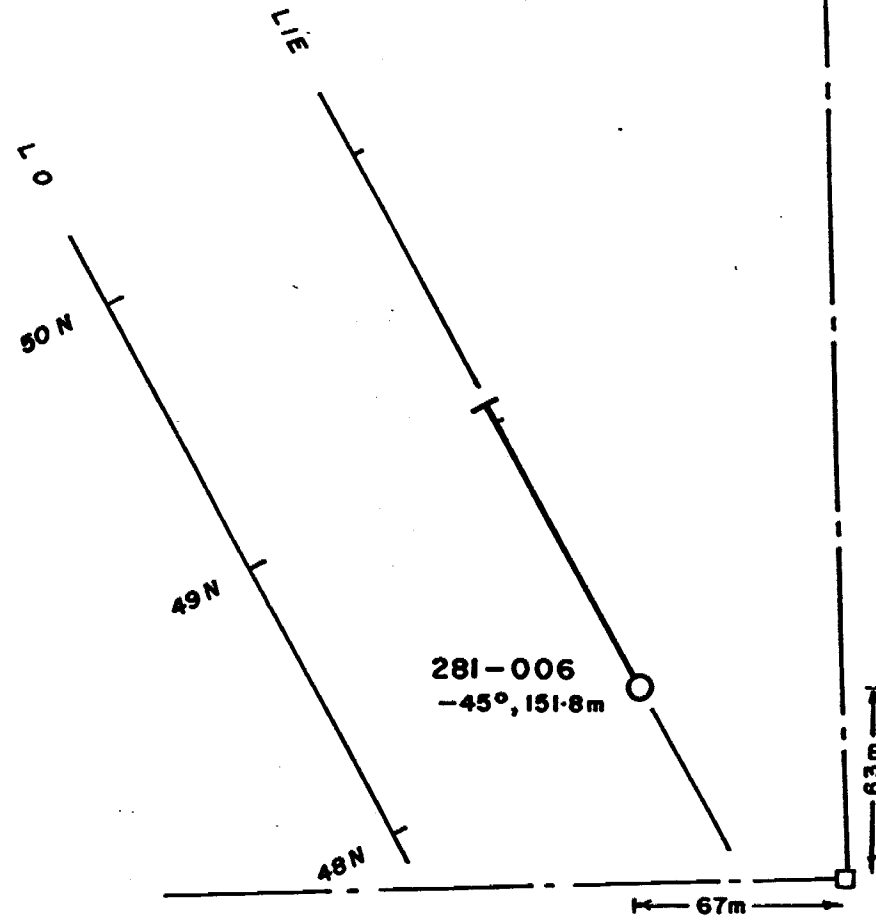


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DDH LOCATIONS		
Scale 1: 2500	Drawn F.C.	Dwg. No.
Date Apl. 1989	NTS Ref. 42A/7	281-16



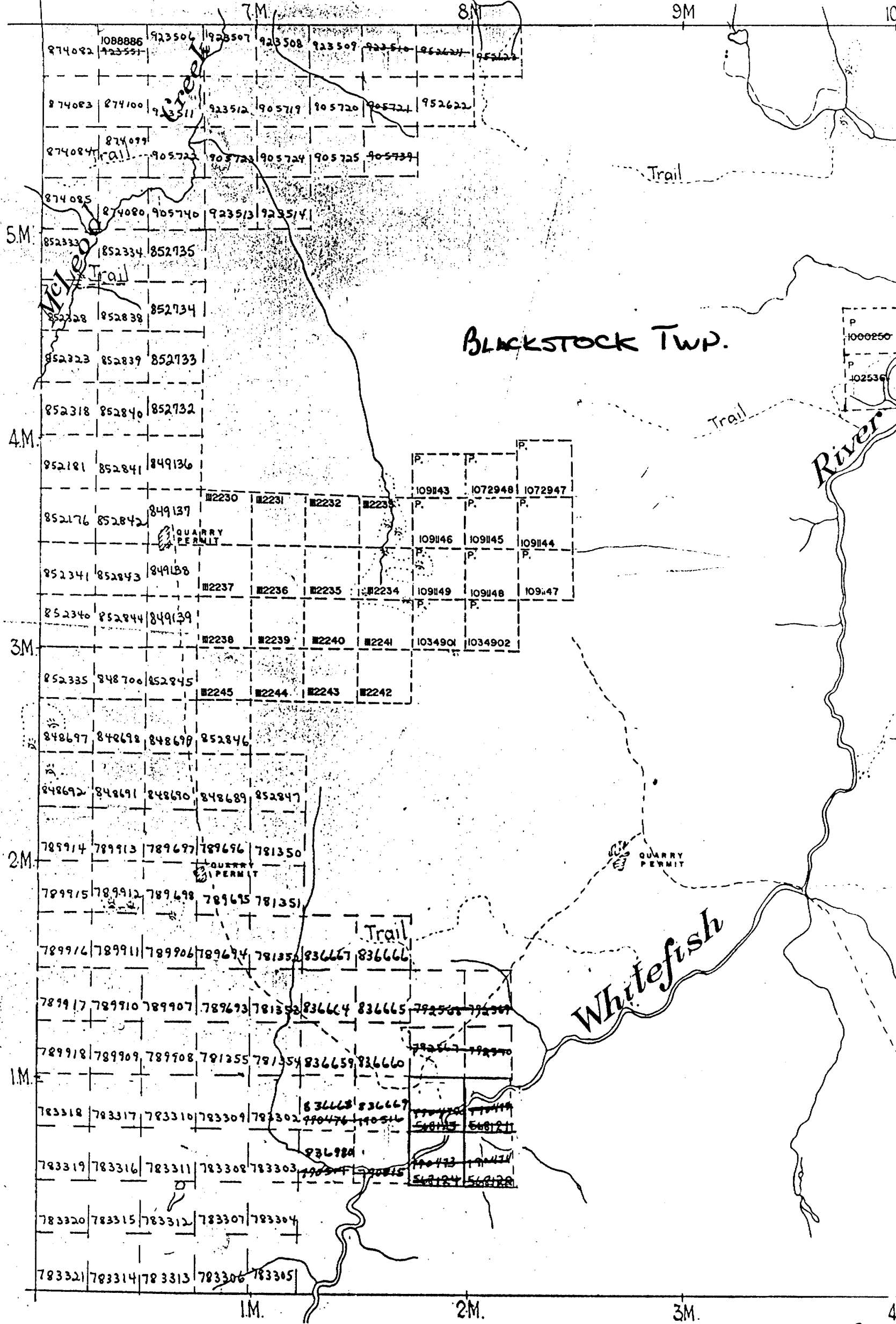
 PLACERDOME INC.		
Proj. No. 281, McLEOD CREEK, LANGMUIR & BLACKSTOCK TP. DDH LOCATIONS		
Scale 1:2500	Drawn F.C.	Dwg. No.
Date Apl., 1989	NTS Ref. 42A/7	281-17

P 755303



PLACER DOME INC.		
Proj. No. 281, McLEOD CREEK, LANGMUIR & BLACKSTOCK TR.		
DDH LOCATIONS		
Scale 1:2500	Drawn F.C.	Dwg. No.
Date Apl. 1989	NTS Ref. 42A/7	281-18

LANGMUIR



LEGEND

- | | |
|-----------------------|--------|
| CANCELLED | C |
| PATENTED LAND | Ⓢ |
| CROWN LAND SALE | C.S |
| LEASES | Ⓛ |
| LOCATED LAND | LOC |
| LICENSE OF OCCUPATION | L.U |
| MINING RIGHTS ONLY | M.R.O. |
| SURFACE RIGHTS ONLY | S.R.O. |

FASKEN

Receiv
400' Surface
This town
CITY of





42A075W0028 58 LANGMUIR

Mining Ac

900

Name and Postal Address of Recorded Holder
Reger Dome Inc. T 831
 P.O. Box 350, Suite 3500, IBM Tower, TD Centre, Toronto, Ontario M5K 1N3

Summary of Work Performance and Distribution of Credits

Total Work Days Cr. claimed 4301.3	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.	Mining Claim		Work Days Cr.
	Prefix	Number		Prefix	Number		Prefix	Number	
for Performance of the following work. (Check one only)	P	755301	101.3	(SEE SCHEDULE "A")					
<input type="checkbox"/> Manual Work		et al							
<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									

All the work was performed on Mining Claim(s): P755301, P850100, P852173, P755303 & B.

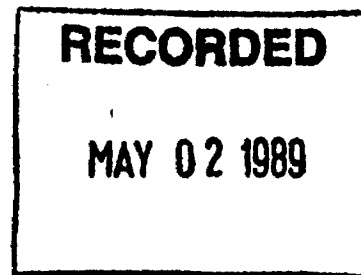
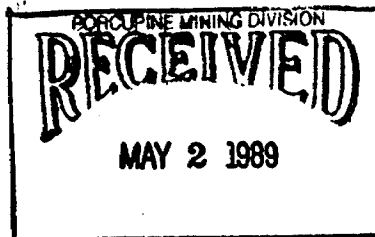
Required Information eg: type of equipment, Names, Addresses, etc. (See Table Below)

281-001	200.3m	(657.15')
281-002	199.6m	(654.85')
281-003	118.3m	(388.02')
281-004	203.6m	(667.80')
281-005	127.4m	(417.87')
281-006	151.8m	(497.90')
281-007	310.3m	(1,017.78')

1,311.3m (4,301.37')

Drilling by: Norex Drilling Ltd., Porcupine, Ontario

Core Size: BQ



NOV 13 1989

Date of Report April 25/89	Recorded Holder or Agent (Signature) <i>In Carl West</i>
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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
John M. Morganti, Manager, Exploration
 P.O. Box 350, Suite 3500, IBM Tower, TD Centre Toronto, Ontario M5K 1N3

Date Certified April 25/89	Certified by (Signature) <i>John M. Morganti</i>
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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.	Nil	Work Sketch (as above) in duplicate
Land Survey	Name and address of Ontario land surveyor.		Nil