

42407580028 58 LANGMUIR

010

DIAMOND DRILLING

ALC: NOT SHE

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>	Footage	Date	<u>Note</u>
P 852173	281-001	200.3m	Nov-Dec/88	(1)
P 850100	281-2	199.6m	Nov/88	(1)
P 755301	281-3 281-4 281-5	118.3m 203.6m 127.4m	Nov/88 Nov/88 Nov/88	(1) (1) (1)
P 755303	281-6	151.8m	Nov/88	(1)
P 755301	281-7	310.3m	Nov/88	(1)
	7	1311.3M		

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

REF CORD: 13100.0 B075.0 SURVEY		ACER DOME INC.	
	DIAM	OND DRILL RECORD	HOLE NO: 281-001 PROPERTY: PROJECT 281
POST LOCATION: 215 m E and 85 m B to	POST 2, CLAIM P. 852173		LANGMUIR TWP., ONTARIO Section;
AZIMUTH: 90.0	LENGTH: 200.3	ELEVATION: .O	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 ND: P. 852173	

				DIP TESTS (c)	prrected)					
		DEPTH	AZIMUTH DIP	DEPTH	AZIMUTH DIP					
		26.50	-44.B	200.00	-41.0					
		91.40	-45.0							
FROM	TO	DESC	RIPTION		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.			28.00	
28.00 29.60 1% very fine grained pyrite. A 10 cm bleached			29.60	
band,				

29.60 52.30 ALTERED RHYDLITIC 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



PAGE NO: 2

FROM	TO	DESCRIPTION	SAMPLE	FROM	то	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.						
		31.10 32.60 1% pyrite. A 1 cm white quartz stringer at 30	E6693 E6696	29.60 31.10	31.10 32.60	1.50 1.50		
		degrees to the core axis.	20070	0		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.	E669B	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 mafic 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.	E670B	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		

52.30 53.72 SYENODIORITE

• ·

FROM -----DESCRIPTION------TD

Dark green and buff. Medium grained. Hardness 5.5. 25% anhedral 1 mm to 2 mm feldspar phenocrysts in a biotitic and chloritic matrix. Moderately foliated at 55 degrees to the core axis. Non magnetic. Weakly silicified. 3% disseminated blebs pyrite. Upper contact sharp and broken. Lower contact sharp at 65 degrees to the core axis.

52.30 53.72 3% pyrite.

E6712 52.30 53.72 1.42

53.72 83.00 ALTERED RHYDLITIC ABBLOMERATE

From 53.72 to 64.60 metres the rhyolitic agglomerate is strongly altered. Light yellowish-green, very fine grained bleached matrix with pale bleached yellowish-green coloured subangular agglomerate clasts. Clasts range in size from 2 cm to 5 cm. Hardness 5.5. Non magnetic. Moderately to well foliated at 45 degrees to the core axis. Locally brecciated. The unit is strongly silicified and weakly sericitized. Occasional chloritic patch. 1% to 3% very fine grained disseminated and medium grained to coarse grained blebs pyrite. 8% to 10% i an ouartz filled fractures or stringers at 15 to 45 degrees to the core axis. Fractures occasionally pyrite and chlorite filled.

From 65.20 to 78.50 metres the agglomerate becomes weakly moderately altered. Medium green to grey brown to subangular to subrounded, stretched agglomerate clasts ranging in size from 3 mm to 5 cm. Occasional milky coloured clast. The matrix is very fine grained, yellowish-green to greyish-green. Hardness 6. Moderately to well foliated at 40 degrees to the core axis. 5% 1 mm white feldspar phenocrysts. The matrix and clasts are weakly to moderately silicified and sericitized. Weakly chloritic. 1% to 5% very fine grained disseminated and fine grained to coarse grained blebs of pyrite. 3% quartz calcite filled fractures. Fractures occasionally pyritic and chloritic. From 71.40 to 72.70 metres the unit is moderately sheared at 48 degrees to the core axis.

From 78.50 to 83.00 metres the agglomerate is moderately to strongly silicified and moderately sericitized. Similar to 53.72 to 64.60 metres. Trace to 2% pyrite, 5% to 10% quartz calcite filled fractures. Lower contact broken.

HOLE NO: 281-001

BAMPLE FROM TO LENBTH Au g/t RERUN REJECT AVERAGE

PAGE NO: 3

DRILL RECORD

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t RERUN	REJECT AVERAG	θE
		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	E6715	56.70	58.20	1.50			
		grained blebs pyrite. Several chloritic patches. Strongly altered.	20/13	J0.7V	JD, 2V	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	E6719	62.70	64.60	1.90			
		carbonatized agglomerate clasts. 40% patchy strong alteration. 15% chlorite filled fractures.			•••••				
		64.60 65.20 A 60 cm fine grained, medium green	E6720	64.60	65.20	. 60			
		intermediate to felsic dikelet with BX coarse grained							
		blebs of pyrite. Contacts sharp at 56 degrees to the core axis.							
		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	E6725	71.40	72.70	1.30			
		the core axis. Moderately sheared at 48 degrees to the core axis. Locally calcareous.							
		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	E6727	73.50	74.00	.50			
		core axis. Chloritic and sericitized inclusions with 5% pyrite.							
		74.00 75.50 2% pyrite.	£6728	74.00	75.50	1.50			
		75.50 77.00 1% pyrite.	£6729	75.50	77.00	1.50			
		77.00 78.50 1% pyrite. Two 1 cm white quartz stringers at	E6730	77.00	78.50	1.50			
		30 degrees to the core axis.							
		78.50 B0.00 2% pyrite. Moderately to strongly silicified.	E6731	78.50	80.00	1.50			
		Moderately sericitized,							
		80.00 B1.50 Trace pyrite. Similar to 78.30 to 80.00.	E6732	80.00	81.50	1.50			
		B1.50 B3.00 Up to 1% pyrite. Very broken core. Brecciated.	E6733	81.50	83.00	1.50			
		Minor brecciated quartz veining. A 5 cm pyritic band.				••••			

B3.00 B4.90 ALTERED SYENODIDRITE

,

•

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.

HOLE ND: 281-001 PAGE NO: 4

E6734 B3.00 84.00 1.00

HOLE NO: 281-001 PAGE NO: 5

FROM 70 -----DESCRIPTION-----LENGTH Au g/t RERUN REJECT AVERAGE SAMPLE FROM TO 84.00 B4.90 Up to 1%. E6735 **B4.**00 84.90 .90 84.90 87.10 ALTERED FINE GRAINED INTERMEDIATE INTRUBIVE 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. 86.00 E6736 B4.90 1.10 86.00 87.10 5% pvrite. E6737 86.00 87.10 1.10 91.40 FELDSPAR PORPHYRY DYKE 87.10 Fine grained, medium greenish-grey matrix, 20% 2 mm to 5 00 zoned buff euhedral to subhedral placioclase phenocrysts. Hardness 6. Non foliated. Matrix lightly chloritic. Weakly sericitized and silicified. 1% very fine disseminated pyrite. 2% 1 cm white barren guartz grained 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 E6738 87.10 88.60 1.50 at 25 degrees to the core axis. 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 guartz stringer at 10 E6741 91.40 92.37 . 97 decrees to the core axis.

FROM TO -----DESCRIPTION-----SAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE 92.37 93.40 ALTERED RHYDLITIC ABBLOMERATE Similar to 65.20 to 78.50 metres. Weakly to moderately silicified. Weakly sericitized. 1% pyrite. Locally brecciated. Upper contact sharp at 45 degrees to the core axis. Lower contact sharp at 47 degrees to the core axis. 92.37 93.40 1% pyrite. E6742 92.37 93.40 1.03 93.40 96.63 LAMPROPHYRE Dark grey green. Fine grained. Hardness 3. Moderately foliated at 40 degrees to the core axis. Non magnetic, 25% 1 mm biotite phenocrysts. Weakly to strongly carbonatized (calcite). 3% Fine grained disseminated anhedral to euhedral and minor stringer pyrite. 5% quartz calcite sweats and stringers at 45 to 60 degrees to the core axis. Upper contact sharp at 47 degrees to the core axis. Lower contact sharp at 30 degrees to the core axis. 93.40 94.90 3% pyrite. E6743 93.40 94.90 1.50 94.90 96.63 3% pyrite. E6744 94.90 96.63 1.73 96.63 99.12 FELDSPAR PORPHYRY DYKE Similar to 87.10 to 91.40 metres but feldspar phenocrysts are fine grained. Very fine grained medium greenish-grey silicious matrix with 25% 1 mm white feldspar phenocrysts. Hardness 6. Non foliated. Weakly silicified. Lightly chloritic. 3% to 5% fine grained blebs pyrite. 2% chlorite calcite filled fractures at 35 degrees to the core axis. Upper contact sharp at 30 degrees to the core axis. Lower contact sharp at 50 degrees to the core axis. 96.63 98.13 3% to 5% pyrite. 96.63 98.13 1.50 E6745 98.13 99.12 5% pyrite. Three 5 mm quartz stringers at 20 , 99 E6746 98.13 99.12 degrees to the core axis. 99.12 102.32 RHYDLITIC FLOW Medium grey green fine grained matrix with 5% 1 mm white feldspar phenocrysts. Hardness >5. Non foliated to moderately foliated at 37 degrees to the core axis. Non magnetic. Weakly silicified and calcareous. 7% fine grained disseminated pyrite. 2% 1 mm white quartz stringers with trace pyrite at 40 degrees to the core axis. 1% chlorite calcite filled fractures. Upper contact

FROM	0DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t RERUN	REJECT AVERAGE
	sharp at 50 degrees to the core axis. Lower contact sharp at 57 degrees to the core axis.						
	99.12 100.62 7% pyrite. 2% quartz stringers with trace pyrite. 100.62 102.32 7% pyrite. 3% quartz stringers with trace	E6747 E6748		100.62	1.50 1.70		
	pyrite. 37 cm of ultramafic komatiite.						
102.32 110.	60 CHLORITIZED ULTRAMAFIC KONATIITE Dark green grey. Fine grained. Hardness 2.5 to 3. Well foliated at 47 degrees to the core axis. Non magnetic. Moderately chloritic. Weakly to moderately talcose. From 103.70 to 105.70 metres and 110.60 to 111.40 metres 5% patchy and wispy epidote. Locally weakly silicified. Trace to 3% fine grained disseminated pyrite. 8% to 20% 1 cm to 2 cm quartz calcite stringers at 50 degrees to the core axis. Lower contact gradual.						
	From 105.70 to 106.30 metres weakly silicified.						
	102.32 103.80 2% to 5% pyrite. B% quartz calcite stringers. Minor epidote.	E6749	102.32	103.80	1.48		
	103.80 105.30 3% pyrite. 8% quartz calcite stringers. Minor epidote.	E6750	103.80	105.30	1.50		
	105.30 106.80 2% pyrite. 8% quartz calcite stringers. Locally weakly silicified.	E6751	105.30	106.80	1.50		
	106.80 108.30 Trace pyrite. 10% quartz calcite stringers.		106.80		1.50		
	108.30 109.80 1% pyrite. 20% quartz calcite stringers. 109.80 110.60 Trace pyrite. 5% quartz calcite stringers.		108.30	109.80	1.50		
110.60 125.	35 THDLEIITIC BASALT Dark grey green. Very fine grained. Hardness 3.3. Non magnetic. Weakly to moderately chloritic. Locally weakly calcareous and silicified. From 110.60 to 111.40 metres minor epidote alteration. 1% fine grained disseminated pyrite. 2% calcite quartz filled fractures at 40 degrees to the core axis. <1% 1 cm calcite quartz stringers at 30 degrees to the core axis. Upper contact gradual. Lower contact sharp at 50 degrees to the core axis.						

, **`**

•......

125.3 Jark green grey. Fine grained. Hardness 2.5. Weakly foliated at 50 degrees to the core axis. Non magnetic. Moderately chloritic. <1% fine grained disseminated

· ·

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.			128.90	.40		
	129.40 130.00 Trace pyrite. Brecciated. 131.50 131.87 A 37 cm white barren quartz calcite veinlet at 48 degrees to the core axis.			130.00 131.87	. 60 . 37		
133.70 200.25	THOLEIITIC BABALT 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.		137.14		.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 BX 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		

HOLE ND: 281-001 PAGE ND: 9

FROM TO -----DESCRIPTION-----SAMPLE FROM TD LENGTH Au g/t RERUN REJECT AVERAGE 191.00 192.50 Trace pyrite. 80 cm of strong sericite, E6771 191.00 192.50 1.50 fuchsite and carbonate (calcite) alteration, 20% quartz calcite stringers. 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.

ECONDMIC BEDLOGY: The IP anomoly 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.



.

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

This is not expected to be anomolous in gold.

HOLE NO: 281-001 PAGE ND: 10

.

PLACER DOME INC. DIAMOND DRILL RECORD

e . + +

REF CORD	13025.0 B155.0 SURVE	YED. NO		PLACER DOME INC.			
		EAST-WEST	DI	AMOND DRILL RECORD		PROPERTY	HOLE NO: 281-2 Project 281
POST LOC	ATION: 0 m N and 105 m E to	POST 1, CLAI	M P 850100			SECTION	LANGMUIR TWP., ONTARIO
AZIMUTH:	150.0	LENGTH:	199.6	ELEVATION:	.0	LOGSED BY:	T. TENNENT
DIP:	-48.0	CORE SIZE:	BQ	SYSTEM OF MEA	SURE: METRIC	DATE LOGGE	D: NOV. 28 TO 30, 1988
STARTEDI	NOVEMBER 18 , 1988	COMPLETED:	NOVEMBER 29, 198	B CLAIM NO: P	B50100		
		DEPTH AZIMU 61.00 137.00		S (corrected) PTH AZIMUTH DIP .00 -50.0			
FROM	TO	DESCRIPTION	4	SAMPLE	FROM TO	LENGTH Au g/t F	RERUN REJECT AVERAGE
.00	61.00 CASING IN OVERBURDEN						
61.00	93.67 ULTRAMAFIC KOMATIITIC Dark green grey. Ver weakly foliated at 45 magnetic (magnetite). (calcite and ankerite serpentinized. 1% to pyrite. Minor hemati wispy calcite sweats <1% 1 cm barren quart the core axis. Lowe core axis.	y fine grained degrees to th Moderately). Weakly to m 3% medium grai te along fract at 15 to 70 de z calcite stri	te core axis. Mode to weakly carbon oderately chlori ined blebs and co cure surfaces. 21 grees to the core ingers at 70 degr	erately natized tic and ubes of X to 8% e axis. rees to			
	61.00 71.00 4% calcite 61.00 76.00 3% medium 70.50 71.50 3% pyri degrees to the core ax 71.00 84.00 8% calcite 73.50 74.60 2% pyri veinlet at 46 degre calcite stringer at 70 76.00 89.00 2% to 3% f 81.80 82.20 A 1 cm degrees to the core ax	grained blebs te. A 4 cm is. sweats. te. A 10 cm es to the c degrees to th ine grained py barren quartz is.	calcite veinlet vuggy quartz c core axis. A 1 cm e core axis. vrite.	calcite E6667 quartz	70.50 71.50 73.50 74.60 B1.B0 82.20	1.10	
-	B4.00 93.67 2% calcite B9.00 93.67 1% fine gr						

.

4

PLACER DOME INC. Diamond drill record

4

HOLE ND: 291-2 PAGE NO: 2

то	DESCRIPTION	SAMPLE	E FROM	TO	LENGTH	Au g/t RERUN	REJECT AV	ERAGE
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. 95.17 96.58 5% pyrite.	E6669 E6670						
99,67	MEDIUM BRAINED 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. 98.08 99.67 <1% pyrite. Moderately calcareous.				1.50 1.59			
	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							
	102.67 103.47 1% pyrite. 10% calcite-quartz sweats. 103.47 105.20 Mixed ultramafic komatiite and contaminated monzonite. 3% pyrite. A 2 cm irregular guartz stringer	E6674 E667 5	101.17 102.67	102.67 103.47	1.50 1.50 .80 1.73			
	96.5B	 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 me to 2 me 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. 95.17 96.58 5% pyrite. 97.67 MEDIUM GRAINED INTERMEDIATE TO ACID INTRUBIVE 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. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp and broken. 96.58 98.08 (1% pyrite. 98.08 99.67 (1% pyrite. Moderately calcareous. 05.20 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. Btrongly calcareous. Moderately foliated at 45 degrees to the core axis. Non magnetic. Moderately broken. Btrongly calcareous. Moderately talcose. 1% very fine grained disseminated pyrite. 10% calcite sweats. Upper and lower contacts sharp and broken. From 10% to 10% aetres 50 cm of lost core. 	 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 me to 2 me biotite phenocrysts. The boundaries of the k feldspar crystals are diffuse. Neakly K metasomatized. 5% medium grained disseminated blabs pyrite. 3% calcite-biotite-quartz filled hairline fractures at various degrees to the core axis. 93.67 95.17 5% pyrite. 95.67 95.17 5% pyrite. 96.67 MEDIUM BRAINED INTERMEDIATE TO ACID INTRUBIVE Motiled dark grey, black and buff. Medium grained. Hardness 6. 25% blotchy textured feldspar and 75% anhedral mafic minerals. Non foliated. Non angnetic. 99.67 MEDIUM BRAINED INTERMEDIATE TO ACID INTRUBIVE Motiled dark grey, black and buff. Medium grained. Hardness 6. 25% blotchy textured feldspar and 75% anhedral mafic minerals. Non foliated. Non angnetic. 99.67 MEDIUM GRAINED INTERMEDIATE TO ACID INTRUBIVE Motiled dark grey, black and buff. Medium grained. Hardness 6. 25% blotchy textured feldspar and 75% anhedral mafic minerals. Non foliated Non angnetic. 99.67 MEDIUM GRAINED INTERMEDIATE TO ACID INTRUBIVE Motiled dark grey, black and buff. Medium grained. Mardness 5. 25% blotchy textured feldspar and 75% anhedral mafic minerals. Non foliated Non angnetic. 96.58 97.00 Chilled fine grained intermediate intrusive. 96.58 97.00 Chilled fine grained intermediate intrusive. 96.58 97.00 Chilled fine grained intermediate intrusive. 96.58 98.08 (1% pyrite. Moderately calcareous. 96.58 97.00 Chilled fine grained disceminated pyrite. 10% calcite sweats. Upper and lower contacts sharp and broken. From 103 to 106 metres 50 cm of lost core. 97.67 101.17 1% pyrite. 10% calcite sweats. 96.674 105.20 Mixed ultramafic komatiite and contaminated monzonite. 3% pyrite. A 2 cm irregular quarts stringer 	96.58 ALTERED MONZONITE Departure Demandary for a state of the state of th	 96.58 ALTERED MONZONITE Pink, black, dark green. Fine grained to sediue grained. Hardness 6. Moderately foliated at 60 degrees to the core axis. 15X 1 as to 2 ne biotite phenocrysts. The boundaries of the k feldspar crystals are diffuse. Weakly K metasonatized. 5X medium grained disseminated blebs pyrite. 3X 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 58 degrees to the core axis. Lower contact sharp at 60 degrees to the core axis. Lower contact sharp at 60 degrees to the core axis. Lower contact sharp at 60 degrees to the core axis. Lower contact sharp at 60 degrees to the core axis. Lower contact sharp at 80 degrees to the core axis. Lower contact sharp at 80 degrees to the core axis. Core axis. Upper contact sharp at 90 degrees to the core axis. 25X blochy taxtured feldspar and 75X enhedral medic ainerals. Non foliated. Non magnetic. Weakly calcareous. Trace very fine grained disseminated pyrite. 3X calcite filled hairine fractures at various degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower contact sharp at 58 degrees to the core axis. Lower 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 97.00 Chilled fine grained intermediate intrusive. 96.59 07.00 Chilled at 45 degrees to the core axis. Non magnetic. Moderately broken. Strongly calcareous. Moderately foliated at 45 degrees to the core. 97.67 101.17 12 pyrite. 10X calcite sweats. 102.67 103.47 105.20 Mixed ultramedic consating monorite. 33 pyrite. 03 calcitefic quarts sweats. 103.47 105.20 Mixed ultramedic consating degrees to consent at 30 consent consent	96.58 ALTERED MONZONITE Pink, black, dark green. Fine grained to mediue grained. Hardness 6. Moderately foliated at 60 degrees to the core axis. 15% 1 as to 2 me biotite phenorysts. The boundaries of the k feldspar crystals are diffuse. Neakly K metaconatized. 5% mediue grained dissentated bless pyrite. 3% calcite-biotice-quartz filled hairline fractures at various degrees to the core axis. 93.67 95.17 5% pyrite. 95.17 96.58 3% pyrite. 95.17 96.58 3% pyrite. 95.17 96.58 3% pyrite. 95.17 96.58 3% pyrite. 96.50 98.08 (1% pyrite. 96.58 97.00 Chilled fine grained intermediate intrusive. 96.58 97.00 Chilled fine grained intermediate intrusive. 96.58 98.08 (1% pyrite. 96.58 97.00 Chilled fine grained intermediate intrusive. 96.58 98.08 (1% pyrite. 96.58 97.00 Chilled fine grained intermediate intrusive. 96.58 98.08 (1% pyrite. 96.58 98.08 (1% pyrite. 96.59 98.08 (1% pyrite. 96.50 90.67 (1% pyrite. 97.67 101.17 12 pyrite. 10% calcite sweats. 101.17 102.67 1% pyrite. 10% calcite sweats. 101.17 102.67 1% pyrite. 10% calcite sweats. 101.17 102.67 1% pyrite. 10% calcite sweats. 103.47 105.20 Mixed ultramediate and contaminated provides pyrite size of the core axis. 105.47 103.47 105.20 Mixed ultramediate and contaminated provides pyrite size of the core axis. 105.47 103.47 10% calcite sweats. 105.47 103.47 105.20 11.73 105.47 103.47 105.20 11.73 105.47 105.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11.73 15.20 11	 96.58 ALTERED MONZONITE Pink, black, dark green. Fine grained to medius grained. Mardness 6. Moderately follated at 60 degrees to the core exis. 15% 1 as to 2, as biotite phenocrysts. The bounderies of the k wieldspar crystals are diffuse. Weakly K setsensatized. 5% medius grees to the core exis. Non magnetic. Upper contact sharp at 38 degrees to the core exis. Lower contact sharp at 38 degrees to the core exis. Lower contact sharp at 38 degrees to the core exis. Lower contact sharp at 38 degrees to the core exis. Lower contact sharp at 38 degrees to the core exis. Lower contact sharp at 38 degrees to the core exis. Lower contact sharp at 40 degrees to the core exis. Lower contact sharp at 58 degrees to the core exis. Lower contact sharp at 58 degrees to the core exis. Lower contact sharp at 58 degrees to the core exis. Lower contact sharp at 58 degrees to the core exis. Lower contact sharp at 58 degrees to the core exis. Lower contact sharp at 58 degrees to the core exis. 93.67 95.17 96.58 1.41 94.58 98.08 (1X pyrite. 96.58 97.00 Chilled fine grained intermediate intrusive. 96.58 97.00 Chilled fine grained intermediate intrusive. 96.58 97.00 Chilled fine grained intermediate intrusive. 96.58 97.00 Chilled fine grained dissectated pyrite. 10% calcite sweets. Upper and dissectated pyrite. 10% calcite sweets. 101.17 102.47 1% pyrite. 10% calcite sweets. 101.71 102.47 1% pyrite. 10% calcite sweets. 102.47 105.20 1% exelled pyrite are the core swite str	96.58 ALTERED HONZOWITE Pink, black, dark green. Fine grained to medium grained. Marchews 6. Moderately follated at 80 degrees to the core exis. 105. 1 as to 2 me blotte "phenorysis. The boundaries of the k foldspar crystals are diffuse. Neakly K metacomatics. 31 medium grained diseminated blobs pyrite. 33. calcite-biotite-queriz filled hairline fractures at various degrees to the core axis. 93.67 95.17 31 pyrite. 94.58 93.67 95.17 31 pyrite. 95.67 MEDIUM BRAINED INTERMEDIATE TO ACID INTRUBIVE Mattled dark grey, black and buff. Medium grained. Hardness 6. 225 blotchy textured foldspar and 752 anhedral medic sinerals. Non follated. Non asgnetic. 94.58 97.00 Chilled fine grained intermediate intrusive. 94.58 97.00 Chilled fine grained intermediate intrusive. 94.58 97.00 Chilled fine grained intermediate intrusive. 94.58 97.00 Chilled fine grained. Hardness 2.5. Moderately follated at 45 degrees to the core axis. Non magnetic. Moderately calcareous. 05.20 CANBONATIZED ULTRAMAFIC KOMATIZE Dark green grey. Very fine grained. Hardness 2.5. Moderately follated at 45 degrees to the core axis. Non magnetic. Moderately calcareous. Noderately follated at 45 degrees to the core axis. Non 94.59 97.00 Chilled fine grained. Hardness 2.5. Moderately follated at 45 degrees to the core axis. Non magnetic. Moderately calcareous. Noderately follated at 45 degrees to the core axis. Non Moderately follated at 45 degrees to the core axis. Non Mattle subper and lower contacts harp and broken. From 103 to 106 metres 50 ca of lost core. 94.67 101.17 11 pyrite. 107 calcite sweats. 101.17 102.67 11.50 103.47 105.20 Mixed ultramefic kometits meets. 103.47 105.20 Mixed ultramefic kometits meets. 103.47 105.20 mixed ultramefic kometits and contaminated Poncontie. 33 pyrite. 2 ca frequely guerts atringer

PLACER DOME INC. Diamond drill record

٠

•

FROM	TO	DESCRIPTION	SAMPLE	E FROM	TO	LENGTH	Au g/t RERUN	REJECT AVERAG	BE
105.20 1	09.68	ALTERED MONZONITE Pink, grey, white, dark green. Fine grained to medium grained. Hardness 6. 15% biotite phenocrysts. Feldspar crystal boundaries are diffuse. Neakly foliated at 48 degrees to the core axis. Neakly magnetic. Neakly 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 11	11.45	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 11		MEDIUM GRAINED INTERMEDIATE TO ACID INTRUSIVE Similar to 96.58 to 99.67 metres. Non magnetic. Neakly 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 11		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 magentite. 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. 115.81 116.90 4% pyrite.		114.81 115.81	115.81 116.90	1.00 1.09			

•

-

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t RERUN	REJECT AVER	AGE
		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 35 degrees to the core axis.							
		120.30 120.70 A 1 cm calcite-epidote stringer at 10 degrees to the core axis. 122.70 124.20 Unit becomes very fine grained. Chilled.	E6683	120.30	120.70	.40			
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 35 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			

HOLE NO: 281-2 PAGE NO: 3

FROM TO	DESCRIPTION	SAMPLE	E 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 GEDLOGY: The purpose of hole 281-2 was to test a possible shear zone and the bedrock upice of \$281-03.

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. S281-03 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 SUF	RVEYED: NO	PLACER DOME INC.		
		AMOND DRILL RECORD		HOLE NO: 281- PROPERTY: PROJECT 281
POST LOCATION: 195m S AND 228m E				LANGMUIR TWP., DNTARID
AZIMUTH: 330.0	LENGTH: 118.3	ELEVATION:)	LOGGED BY: B. NEEDHAM
DIP: -45.0	CORE SIZE: BQ	SYSTEM OF MEASURE: I	TETRIC	DATE LOGGED: NOVEMBER, 1988
STARTED: NOVEMBER 16, 1988	COMPLETED: NOVEMBER 18, 198	8 CLAIM ND: P.755301		
		S (corrected) PTH AZIMUTH DIP		
FROM TO	DESCRIPTION	SAMPLE FROM	TO LENG	TH Aug/t RERUN REJECT AVERAGE
.00 24.07 CASING IN DVERBURDEN	4			
band. Hardness locally strongly lightly sericitized carbonatized and Foliation at 0 to probably drilled do	Idspar blebs. Occasional crysta >5. Variably silicified, light with associated bleaching. I 5. Occasional lightly to mode effervescent clast or altered 5. 20 degrees to the core axis. Ho bundip. Trace to locally 1% disses pyrite. Very thin quartz car with associated pyrite blebs.	tly to Locally erately band. Dle was minated		
infilled fractures w	•••••••			
infilled fractures w 24.07 25.36 Crystal 25.36 26.29 Similar 26.29 27.47 Strongl fine grained pyrit	tuff. Lightly hematitic. Trace py	E7614 25.36	25.36 1.2 26.29 .9 27.47 1.1	3
infilled fractures w 24.07 25.36 Crystal 25.36 26.29 Similar 26.29 27.47 Strongl fine grained pyrit fractures. 27.47 28.90 Similar 28.90 30.48 Simila silicified bands.	tuff. Lightly hematitic. Trace py to 24 to 25. y silicified and bleached band. 1 e. 1 to 2% thin carbonate in	E7614 25.36 1% very E7615 26.29 nfilled E7616 27.47 trongly E7617 28.90	26.29 .9	3 3 3
infilled fractures w 24.07 25.36 Crystal 25.36 26.29 Similar 26.29 27.47 Strongl fine grained pyrit fractures. 27.47 28.90 Similar 28.90 30.48 Simila silicified bands. pyrite. 30.48 31.90 Similar 31.90 33.39 Similar 33.39 34.92 Simila	tuff. Lightly hematitic. Trace py to 24 to 25. y silicified and bleached band. 1 to 24 to 2% thin carbonate in to 24 to 25. To 24 to 25 with 30 to 40% st Trace to 1% disseminated fine g to 28 to 30.	E7614 25.36 1% very E7615 26.29 nfilled E7615 26.29 trongly E7616 27.47 trongly E7617 28.90 grained E7618 30.48 E7619 31.90 14 cm E7620 33.39	26.29 .9 27.47 1.11 28.90 1.4	3 3 3 2

•

PLACER DOME INC. Diamond drill record

. •

HOLE ND: 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.	57/00						
		37.86 39.45 Strongly to intensely silicified band with 5	E7622	36.35	37.86	1.51			
		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 bleb 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	E762B	44.19	45.30	1.11			
		grained with disseminated sericite blebs. Trace very fine grained pyrite. Trace tourmaline infilled fracture.							
		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.	E7631	47.94	49.50	1.56			
		Contorted, irregular alteration.							
		49.50 50.94 Similar to 47 to 49.	E7632	49.50	50.94				
		50.94 52.59 Moderately to strongly bleached, silicified.	E7632	50.94		1.44			
		Lightly sericitized. 1 to 2% disseminated very fine grained pyrite associated with the more intensely altered bands.	27833	30.74	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	E7635	54.32	RK 04	1 83			
		brecciated bands.			55.84	1.52			
•		55.84 57.30 Similar to 54 to 55. 57.30 58.76 As above.	E7636	55.84	57.30	1.46			
			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			

• •

FRDM	TD	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g∕t RERUN	REJECT AVERAGE
62.37	63.94	MASSIVE MAFIC FLOW Medium to dark green. Fine grained to medium grained massive texture. Hardness 4. Non magnetic. Lightly carbonatized. Trace to 1% carbonate infilled fractures. Lightly hematite altered. Sharp upper and lower contacts at 45 and 35 degrees respectively. Possible mafic to intermediate intrusive.						
63.94	83.31	RHYOLITIC CRYSTAL TUFF Similar to 24 to 62 but less intensely altered. Alteration tends to occur as individual bands or stringers versus the more pervasive alteration of the previous unit. The unit has several thin massive to lightly foliated mafic to intermediate dykes ranging from 30 cm to 90 cm in the upper 13.5 metre. The unit varies between a crystal tuff and a fine grained ash tuff foliation and/or alteration banding at 20 to 30 degrees. Several strongly bleached and silicified band and/or irregular blobs. Locally lightly to moderately K metasomatized.						
		63.94 65.07 50 to 60% strongly silicified bleached bands. Dccasional thin quartz carbonate stringer. Trace to 1% disseminated pyrite. Locally lightly hematite altered. 3 to 4% carbonate infilled fractures.	E7641	63.94	65.07	1.13		
		65.07 66.54 Similar to 63 to 65.	E7642	65.07	66.54	1.47		
		67.35 69.71 20 to 30% moderately bleached, carbonatized	E7643	67.35	69.71	2.36		
		and silicified bands. 1 to 2% carbonate infilled fractures. Trace pyrite.	21010	0,100	07171	2,30		
		69.71 70.71 30 to 40% bleached strongly to intensely silicified blobs and/or brecciated clasts. Trace pyrite. 70.71 71.05 Chloritized mottled texture lightly foliated mafic to intermediate dyke. Sharp upper and lower contacts at 65 and 55 degrees.	E7644	69.71	70.71	1.00		
		71.05 72.17 40 to 50% moderately to strongly bleached, carbonatized and moderately silicified stringers and bands. Locally lightly K metasomatized. Trace pyrite.	E7646	71.05	72.17	1.12		
		72.18 72.99 Similar to 71 to 72. 3 to 4 cm irregular moderately K metasomatized blob. 72.99 73.32 Similar to 70 to 71. Lightly K metasomatized. Chilled contacts at 20 degrees.	E7647	72.18	72.99	. 81		

PLACER DOME INC. Diamond drill record

•

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t REF	UN REJEC	T AVERAGE
		73.32 74.57 Similar to 71 to 72. 13 cm intensely silicified bleached band with trace to 1% pyrite. 74.57 75.80 Similar to 70 to 71. Sharp contacts at 50 to 55 degrees.	E764B	73.32	74.57	1.25			
		74.57 75.52 Similar to 71 to 72 but with 2 thin stringers or infilled fractures of carbonate and K feldspar with disseminated pyrite selvages.	E7649	74.57	75.52	.95			
		75.80 76.58 Similar to 70 to 71. 76.58 77.48 Chloritized massive to lightly foliated mafic to intermediate dyke. Chilled contacts at 30 and 25 degrees respectively.	E7650	75.80	76.59	.78			
		77.48 79.19 Similar to 70 to 71 but with 15 to 20% strongly silicified and possible K metasomatized altered bands and blobs. 2 to 3% irregular chlorite and/or carbonate infilled fractures.	E7651	77.48	79.19	1.71			
		79.19 80.84 Similar to 70 to 71. Foliation at 10 degrees. 81.49 82.25 46 cm strongly bleached, carbonatized, effervescent, moderately silicified band with 2% disseminated pyrite. Lightly sericitized. 2 to 3% quartz carbonate chlorite veinlets at 60 degrees.	E7652 E7653	79.19 B1.49	80.84 82.25	1.65 .76			
83.31	98.10	RHYOLITIC ABBLOMERATE Medium grey green with silicified light green to creamy white subrounded to subangular agglomerate clasts ranging in size up to 8 cm. Fine grained, lightly carbonatized and/or silicified matrix. Hardness >5. Lightly silicified overall. Trace pyrite. 1 to 3% quartz carbonate stringers or veinlets occasional with 1% disseminated pyrite selvages. Lightly bleached as a result of carbonatization. Slightly to lightly chloritized matrix. Bradational upper and lower contacts.							
•		 B3.31 B4.26 2 to 3% carbonate infilled fractures. 30 to 40% irregular silicified agglomerate clasts. 1 cm quartz carbonate veinlet at 15 degrees with trace to 1% pyrite and molybdenite. B4.26 B5.16 Massive, fine grained, strongly carbonatized and effervescent intermediate dyke. Locally moderately K metasomatized or albitized. 1 to 2% carbonate-quartz infilled fractures. 1% pyrite. Contacts at 55 degrees. 	E7654	83.31	84.26	. 95			

HOLE NDr 281-3 FAGE NO1 5

FROM	TODESCRIPTION	SAMPLE	FROM	ŤO	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 silicif lightly sericitized bands and clasts. 2 cm white qua vein at 60 degrees with trace pyrite blebs.	ied 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, ligh to moderately silicified band with trace to 1% pyrite to 3% glassy quartz carbonate stringers and infil fractures.	tly E7658	88.75	89.53	. 78		
	92.10 92.57 Similar to 86 to 87 with 2 to 4% t irregular glassy quartz carbonate stringers and infil fractures. Trace pyrite.	hin E7659 led	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		9B.10	. 56		
78.10	105.05 ALTERED RHYDLITIC ASH TUFF Buff to light grey. Locally lightly oxidized. F grained, lightly foliated. Hardness >5.3 to locally carbonate-quartz infilled fractures and string occasional with chlorite selvages. Carbonate-qua infilled fractures commonly at 40 to 55 degrees. Ligh sericitized. Moderately to strongly carbonatized effervescent. Locally appears lightly brecciated. Seven white quartz and/or quartz carbonate veins with chlor blebs and trace pyrite. Trace to 1% fine grain disseminated pyrite. Foliation at 15 to 20 degrees.	10% ers rtz tly and ral ite					
	98.10 99.60 Moderately to strongly bleached. 5 to carbonate-quartz infilled fractures and 1 to 2% wh quartz carbonate veinlets. Trace to 1% pyrite.	10% E7662 ite	98.10	99.60	1.50		
	99.60 100.55 Similar to 98 to 99.	E7663	99.60		.95		
	100.55 102.80 30 cm oxidized quartz impregnated breccia zone, 0.6 metre lost core. 53,6 cm white quartz ve with chlorite blebs, trace pyrite at 55, 70 degr respectively.	ins	100.55	102.80	2.25		
	102.80 103.95 Lightly to moderately brecciated zone w numerous carbonate and/or chlorite infilled fractures. 1 to 3 cm quartz carbonate and/or chlorite veins w trace to 1% fine grained pyrite and/or hematite.	3,	102.80	103.95	1.15		
	103.95 105.05 Similar to 98 to 99.	E7666	103.95	105.05	1.10		
105.05 1	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

٠

٠

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		
18 74							

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 RADIDACTIVITY 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 respotted, drilling in the opposite



HOLE ND: 281-3 PASE NO: 7

. . •

TO ----- 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.

0900

		CER DOME INC.	
REF CORD: 15260.0 10600.0 SURVEY		ND DRILL RECORD	HOLE ND: 281-4
LOCATION: 52+60N 6+00E GRID:	150 DEG		PROPERTY: PROJECT 201 Langmuir TWP., Ontario
POST LOCATION: 210m S AND 238m E TD	POST #2, CLAIM P.755301		SECTION:
AZIMUTH: 150.0	LENGTH: 203.6	ELEVATION: .0	LOGGED BY: B. NEEDHAM
DIP: -45.0	CORE SIZE: BO	SYSTEM OF MEASURE: METRIC	DATE LOBBED: NOVEMBER, 1988
STARTED: NOVEMBER 26, 1988	COMPLETED: NOVEMBER 28, 1988	CLAIM ND:	

		DIP TESTS (correct	ted)					
		DEPTH AZIMUTH DIP DEPTH AZIMU	JTH DIP					
		50.00 -45.5 203.60	-39.0					
FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENSTH	Au g/t RERUN	REJECT AVERAGE

.00 24.99 CASING IN OVERBURDEN

24.99 39.59 ALTERED RHYDLITIC 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. Bradational 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% guartz 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	E7855	29.30	30.00	.70
pyrite. 30.00 32.26 52 cm fragment core. Trace to 1% disseminated	E7856	30.00	32.26	2.26
pyrite. 32.26 33.77 Moderately to locally strongly silicified, lightly sericitized and moderately carbonatized zone with	E7857	32.26	33.77	1.51

•

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t RERUN	REJECT AVERAGE
		1 to 2% disseminated fine grained pyrite. 1 to 2% carbonate infilled fractures.						
		33.77 34.70 Strongly to intensely silicified, lightly to moderately sericitized zone. 10 to 15% carbonate-quartz infilled fractures. 2 to 3% disseminated pyrite.	E7858	33.77	34.70	.93		
		34.70 35.60 Similar to 32 to 33 with a 7 cm quartz carbonate impregnated band at 30 degrees with 2 to 3%	E7859	34.70	35.60	.90		
		coarse grained pyrite blebs. 36.07 37.60 Similar to 32 to 33.						
		37.60 38.51 Similar to 32 to 33.	E7860 E7861	36.07	37.60	1.53		
		38.51 39.59 Similar to 32 to 33.	E7862	37.60 38.51	38.51	.91		
			L/002	50151		1,00		
39.59	51.92	RHYOLITIC ABBLOMERATE						
		Dark grey to pinkish grey with 20 to 30% lightly to						
		moderately bleached, silicified and/or carbonatized bands similar to 24 to 39. Occasional lightly brecciated						
		silicified band with subangular clasts. Disseminated						
		medium grained carbonate porphyroblasts and quartz						
		feldspar lapilli blebs. Hardness >5. 1 to 3% puartz						
		carbonate infilled fractures commonly with moderately to						
		strongly bleached selvages and trace to 1% disseminated						
		pyrite. Trace fine grained disseminated pyrite overall.						
		Identifiable agglomerate clasts usually range from 2 to B cm. Gradational lower contact.						
		two of adactorial lower concelt.						
		39.59 40.22 Lightly bleached, lightly silicified and/or carbonatized with trace to 1% disseminated pyrite.	E7863	39.59	40.22	. 63		
		48.38 49.45 30 to 40% moderately to strongly bleached,	E7864	48.38	49.45	1.07		
		silicified bands with associated 5 to 10% white quartz carbonate veinlet and stringers. 2 to 3% disseminated						
		pyrite. 16 cm brecciated band,						
		p;						
51.92	92.79	ALTERED RHYOLITIC CRYSTAL TUFF						
		Similar to 24 to 39.						
		51.92 52.98 Similar to 32 to 33. 3 to 5% carbonate	E7865	51.92	52.98	1.04		
		infilled fractures at approximately 35 degrees. 1 cm	2/000		02170			
		quartz carbonate stringer with 1 to 2% disseminated pyrite						
_		blebs at 25 degrees.						
		53.43 54.88 Similar to 32 to 33. 12 cm band of fragment	E7866	53.43	54.89	1.45		
	,	core. Disseminated chlorite bløbs,						
		54.88 56.50 40 to 50% intensely silicified bands. Lightly to moderately brecciated with associated silicification	E7867	54.98	56.50	1.62		
		trace disseminated pyrite,						
		54 50 57 51 40Y medium arginant chloridized manalum action						

56.50 57.51 60% medium grained, chloritized, massive mafic

HOLE ND: 281-4 PASE NO:

2

-

FROM	то	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. 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. 	E7879	76.51	77.38	.87		
_		77.38 78.70 As above.	E7880	77.38	78.70	1.32		
		78,70 80.21 As above.	£7881	78.70	80.21	1.52		
		80.21 B1.68 As above.	E7882	80.21	81.68	1.47		
		B1.68 83.20 As above.	E7883	B1.68	83,20	1.52		
		DT DA DT Cipilar to 40 to 44	C 7004	07 00				

HOLE NO: 281-4 PAGE ND: 3

. .

83.20 84.73 Similar to 62 to 64. 84.73 86.23 Similar to 62 to 64. 86.23 87.78 Similar to 62 to 64.

E7885 84.73 86.23 E7886 86.23 87.78 1.55 F7887 97 70

E7884

00 95

83.20

84.73 1.53

1.50

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 AVER	RAGE
		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. 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.	E7889 E7890	90.83 91.63	91.63 92.79	.80 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. i 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	DESCR1PTION	SAMPLE	FROM	то	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	00 10	100.10	1.50		
	100.10 101.52 Similar to 95 to 97 but with 30 to 40% buff,			101.52			
	strongly to intensely silicified brecciated bands with 2 to 3% disseminated pyrite blebs.	E/07/	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.			108.58	. 52		
	108.58 111.83 Lightly to acderately 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.			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.		111.83		1.39		
	113.22 114.40 Similar to 95 to 97. 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	E7908	113.22	114.40	1.18		
	blebs. 114.40 115.94 Moderately to strongly carbonatized and	E7909	114.40	115.94	1.54		
	silicified. 3 to 4% pyrite stringers and blebs. Moderately brecciated.						
	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		118.92		1.58		

PLACER DOME INC. Diamond drill record

HOLE NO: 281-4 PAGE NO: 6

FROM TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au o/t RERUN	REJECT AVERAGE
	120.50 121.91 Similar to 118 to 120. 5 to 7% carbonate-quartz and/or quartz carbonate infilled fractures and impregnated bands at approximately 70 degrees	E7913	120.50	121.91		•	
	121.91 123.44 Intensely silicified and bleached with 5% disseminated coarse grained sericite carbonate blebs. 5 to 10% small pyrite with minor pyrrhotite stringers and bands.	E7914	121.91	123.44	1.53		
	123.44 124,94 Strongly brecciated zone with subangular to subrounded clasts in a carbonate sericite impregnated matrix. Clasts are strongly silicified. 1 to 2% pyrite blebs, stringers.	E7915	123.44	124.94	1.50		
	124.94 125.87 Similar to 123 to 124 but with 5 to 6% pyrite blebs and stringers.	E7916	124.94	125.87	.93		
	125.87 126.61 Similar to 123 to 124 but with 5 to 10% pyrite blobs and stringers. Lightly to moderately sericitized.	E7917	125.87	126.61	.74		
126.61 127.82	MASSIVE SULPHIDE IN ALTERED MAFIC TO INTERMEDIATE VOLCANIC						
	Dark grey cherty siliceous matrix with small pyrite in the upper 42 cm decreasing downhole to 10 to 15% pyrite stringers parallel to foliation at 50 to 60 degrees and 3 to 5% disseminated pyrrhotite dominantly in the stringer zone. Wispy carbonate infilled fractures parallel to foliation. Foliation is locally contorted. Possible metasediment. Chloritized lower contact. Sharp upper and lower contacts at 80 degrees. Locally moderately to strongly magnetic.						
	126.61 127.82 As above.	E7918	126.61	127.82	1.21		
127.82 132.11	FELDSPAR PDRPHYRY DYKE Medium grey to light yellow grey with coarse grained crowded subhedral feldspar phenocryst texture. Hardness >5. Lightly to moderately bleached. Moderately to strongly carbonatized. Lightly sericitized. Trace to 1% disseminated fine grained pyrite. 3 to 4% disseminated chlorite blebs. 1 to 3% quartz carbonate stringers. Lightly silicified. Sharp lower contact at 65 degrees.						
	127.82 129.33 As above. 129.33 130.82 As above.		127.82 129.33	129.33 130.82	1.51 1.49		
-	130.B2 132.11 As above. Lightly K metasomatized lower 70 cm		130.82		1.29		

132.11 158.33 MAFIC FLOW

• ,

.

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

1.34

1.57

. 68

. 92

1.43

1.08

1.50

Dark green to green grey. Massive to locally moderately to strongly foliated at approximately 75 degrees. Hardness 3.5 to 4. Moderately chloritized. 3 to 15% epidote stringers and infilled fractures dominantly parallel to foliation. Non magnetic. Trace to locally 1% disseminated pyrite blebs the rare coarse grained pyrite blob. 2 to 5% carbonate infilled fractures and stringers. Occasional quartz carbonate veinlet.

132.11 133.45 2 to 3% carbonate infilled fractures. Trace to 1% pyrite blebs.

133.45 135.02 Similar to 132 to 133 but with a 33 cm carbonate impregnated moderately to strongly foliated band with 1 to 2% disseminated pyrite blebs.

136.20 136.88 Moderately to strongly foliated, carbonate impregnated zone with trace to 1% pyrite. Foliation at 60 to 65 degrees.

138.81 139.73 2 cm quartz carbonate veinlet at 40 degrees. 30 cm moderately foliated carbonate impregnated and epidote altered band. Trace to 1% pyrite.

140.82 142.25 Similar to 136.2 to 136.8. 1 cm guartz carbonate stringer at 17 degrees. Epidote alteration parallel to foliation. 1 to 2% pyrite blebs and stringers.

143.50 144.5B Moderately to strongly epidote altered zone dominantly parallel to foliation. 1 to 3% quartz blobs. 1 to 2% pyrite as coarse grained blebs.

145.69 147.19 10 to 15% spidots altered stringers and impregnated bands. 1 to 2% pyrite blebs.

147.19 148.58 1 cm pink quartz carbonate veinlet at 23 degrees. Trace to 1% pyrite with the lower 28 cm with 3 to 4% disseminated pyrite in a moderately foliated band.

148.58 150.06 Zone of intercalated medium to dark grey siliceous metasediments ? or rhvolitic tuffs and chloritized basalt. Overall 15 to 20% pyrite, 1 to 2% pyrrhotite.

148.58 150.06 4 small to stringer pyrite bands with minor pyrrhotite varying from 12 to 30 cm. Pyrite parallel to foliation at 65 degrees. Sharp contacts with basalt.

150.06 158.33 Lightly silicified fine grained to very fine grained andesitic flow. Hardness 4 to 4.5. Lightly chloritized. 5 to locally 15% carbonate and/or epidote infilled fractures. 2 to 4% disseminated pyrite blebs.

E7930 148.58 150.06 1.48

E7922 132.11 133.45

E7923 133.45 135.02

E7924 136.20 136.88

E7925 138.81 139.73

E7926 140.82 142.25

E7927 143.50 144.58

E7928 145.69 147,19

E7929 147.19 148.58 1.39

HOLE NO: 281 - 4PAGE NO: 7



FROM

TO

•

FROM	TDDESCRIPTION	SAMPLE	FROM	TO	LENOTH	Au g/t RERUN	REJECT AVERAGE
	epidote altered infilled fractures.						
	151.46 152.90 As above.			152.90	1.44		
	152,90 154.07 As above. Occasional strongly chloritized pyritized band with 3 to 4% disseminated pyrite blebs.	E7933	152.90	154.07	1,17		
	154.07 154.89 As above. Locally lightly hematite altered.	E7934	154.07	154.89	. 82		
	3 to 4% pitted pink carbonate stringers.						
	154.89 155.34 Dark red grey fine grained mafic to						
	lamprophyric dyke. Disseminated biotite in the matrix. Strongly carbonatized,						
	effervescent. Moderately to strongly						
	hematite altered. Contacts at 75 degrees.						
	154.89 155.34 Trace to 1% disseminated pyrite blebs.	F7935	154.89	155.34	.45		
	155.34 156.85 Similar to 154 to 154.8. 5 to 10% pink			156.85			
	carbonate chlorite and/or epidote stringers, blebs with						
	associated 2 to 3% pyrite blebs, 2 cm carbonate veinlet at 10 degrees,						
	156.85 158.33 Similar to 150 to 158.	E7937	156.85	158.33	1.48		
150 77 150	69 SYENDDIORITE						
100:00 107	Dark pinkish grey. Fine grained to medium grained with						
	chilled contacts. Hardness >5. Possible symmitic. Lightly						
	to moderately carbonatized and effervescent. Moderately						
	to strongly K metasomatized. 1 to 2% carbonate infilled fractures. Trace to 1% disseminated pyrite blebs. Sharp						
	upper and lower contacts at 62 and 32 degrees.						
	158.33 159.69 As above.	F7939	150 33	159.69	1 74		
		.,,,,,	100100		1.00		
159.69 160.	96 FINE GRAINED MAFIC OR LAMPROPHYRIC DYKE						
	Similar to 154 to 155. 2 to 3% disseminated pyrite blebs. 3 to 4% carbonate infilled fractures. Strongly to						
	intensely hematite and carbonate altered. Poorly defined						
	lower contact. Possible intensely altered ultramafic						
	komatiite.						
	159.69 160.96 As above.	E7939	159.69	160.96	1.27		
160.96.164.	17 SERPENTINIZED ULTRAMAFIC KOMATIITE						
	Dark grey green. Fine grained, moderately to strongly						
-	foliated at 55 degrees. Hardness 2.5 to 3, Strongly to						

intensely serpentinized. Hoderately to strongly carbonatized, non effervescent, 2 to 4% disseminated

HOLE NO: 281-4 PAGE NO: B

•

HOLE NO: 281-4 PAGE ND: 9

•

FROM TO	DESCRIPTION	SAMPLE	FRDM	TO	LENGTH	Au g/t RERUN	REJECT AVERASE
	pyrite blebs. Non to moderately magnetic. Sharp fragmented lower contact at 55 degrees.						
	160.96 162.50 As above. 162.50 164.17 As above. Contact foliation at lower contact.			162.50 164.17			
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. 173.93 175.32 5 to 10% pink carbonate infilled fractures		169.03 173.93		1.53		
	and stringers with 2 to 3% pyrite blebs. 177.68 178.25 Similar to 167 to 168.		177.69		. 57		

• •

HOLE NO: 281-4 PAGE ND: 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	27949	180.97	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. I 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. 193.38 193.90 Similar to 191 to 191.5. Lamprophyre dyke. Sharp upper and lower contacts at 50 and 70 degrees respectively.	E7952	191.01	191.55	. 54				
	193.38 193.90 As above.	E7953	193.38	193.90	.52				
	193.90 195.32 Similar to 186 to 188. 196.17 197.76 Similar to 167 to 168 but with a 25 cm strongly hematite altered, carbonatized lamprophyre dyke.		193,90 196,17		1.42 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 anderately 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				

•

.

HOLE NO: 281-4 PAGE NO: 11

FROM	TD	DESCRIPTION	SAMPLE	FRDM	TO	LENGTH	Au g/t RERUN	REJECT AVERAGE
200.B3 20	03.10	ULTRAMAFIC KOMATIITE WITH DISSEMINATED TALC CARBONATE BLEBS Medium grey. Fine grained matrix with disseminated medium grained carbonate porphyroblasts and stringers. Hardness 1.5 to 2. 10 to 15% carbonate infilled fractures and stringers. Trace pyrite blebs. Strongly carbonatized and effervescent. Non magnetic. Sharp lower contact at 36 degrees.						
203.10 20	03.60	FELDSPAR PORPHYRY DYKE Medium to dark red grey. Fine grained matrix with medium grained to coarse grained feldspar phenocrysts. Hardness >5. 1 to 2% hematite and carbonate infilled fractures. Trace to 1% fine grained disseminated pyrite. Fragmented core.						
		203.10 203.60 As above.	E7957	203.10	203.60	.50		
203.60		END OF HOLE						
		DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.						
		CORE STORED AT DOME MINES, SOUTH PORCUPINE, DNTARID.						
		CASING LEFT IN THE HOLE.						
		CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.						
•		Geology: The hole intersected variably altered rhyolitic agglomerates and crystal tuffs, mafic flows which were locally hematite altered, feldspar porphyry and syenodiorite and lamprophyric dykes and in the lower portion of the hole serpentinized or talcose ultramafic komatiite flows. The rhyolite crystal tuff units may actually be porphyritic flows as very little lamination was observed in the core. Alteration of the rhyolites includes silicification, carbonatization and sericitization. A thin semi massive sulphide zone was intersected inwhich the sulphides occurred as stringers parallel to foliation. A strongly brecciated zone was logged immediately up hole of the massive sulphide band.						

HOLE ND: 281-4 PAGE NO: 12

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 pervassive alteration and or hematite blebs and stringers. No significant Au assays are expected from this zone however.

-----DESCRIPTION-----



↓
 ↓

FROM

TO

REF CORD: 15000.0 10700.0 SURVE	PL/	ACER DOME INC.			
LOCATION: 50+00N 7+00E BRID:	330 DEG DIANO	OND DRILL RECORD		PROPERTY	HOLE NO: 281-5 PROJECT 281 LANGHUIR TWP., ONTARID
POST LOCATION: 30m S AND 28m E TO P	DST #2, CLAIM P.755301			SECTION:	CHADROIN INF., DNIMAID
AZIMUTH: 330.0	LENGTH: 127.4	ELEVATION:	.0	LOGGED BY:	B. NEEDHAM
DIP: -45.0	CORE SIZE: BO	SYSTEM DF MEASURE	T METRIC	DATE LOGGED	NOVEMBER, 1988
STARTED: NOVEMBER 15, 1988	COMPLETED: NOVEMBER 16, 1988	CLAIM NO: P.7553	01		
	DIP TESTS (DEPTH AZIMUTH DIP DEPTH 50.00 -37.5 127.40	AZIMUTH DIP			
FROM TD	DESCRIPTION	SAMPLE F	ROM TO L	LENGTH Au g/t R	ERUN REJECT AVERAGE
.00 20.11 CASING IN OVERBURDEN					
coarse grained amphib Lightly to moderatel carbonate stringer an	rained, massive texture. Occasi- ole needles. Hardness 3.5 to y chloritized. 1 to 3% qu d infilled fractures with associ- s. Trace to 1% disseminated py ic. Lightly carbonatized,	4.5. artz ated rite			
32.80 33.02 2 to 4% 1% pyrite blebs.	quartz carbonate infilled fractu	res. E7588 32.	80 33.02	. 22	
37.95 39.43 3 to 5 fractures and stringe Locally lightly foliate	% pink quartz carbonate infil rs with associated 1% pyrite blo d at 23 decrees.	lled E7589 37. ebs.	.95 39.43	i.48	
45.00 45.63 Similar to 51.81 53.33 Lightly bl with 3 to 5% carbonat blebs. 58.36 78.52 Medium to very fine	37 to 39. eached, moderately carbonatized a e infilled fractures. 1 to 2% pyr dark green grey. Fine grained grained. Hardness 4 to 5. C hloritized. Micro wispy carbon	ite Ito Dnlv		.63 1.52	
vein at 70 degrees.	ngly pyritized pink quartz carbon		95 65.51	.56	
71.55 72.12 Similar hematite stringers.	to 64 to 63. 2 to 3% carbon	ate E7593 71.	55 72.12	. 57	

• •

FROM TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t RERUN	REJECT
	78.52 85.25 Lightly to moderately hematite altered zone. Moderately to strongly carbonatized and effervescent. 3 to 4% white pyritized quartz carbonate veins. Moderately chloritized.						
	78,52 79.57 As above. 3 cm white quartz carbonate vein at 60 degrees.	E7594	78.52	79.57	1.05		
	79.57 80.03 29 cm white quartz carbonate vein with associated quartz carbonate stringers at 65 degrees. Trace to 1% pyrite. Strongly chloritized selvages.	E7595	79.57	80.03	. 46		
	80.03 81.28 As above. 1 to 2% pyrite blebs.3 to 5% irregular carbonate infilled fractures.	E7596	80.03	81.28	1.25		
	81.28 82.38 As above. 1 to 2 cm pyritized carbonate-quartz vein with strongly chloritized and hematitized selvages.	E7597	81.28	82.38	1.10		
	82.38 82.90 9 cm quartz carbonate vein at 70 degrees with 4 to 5% pyrite blebs and the occasional chalcopyrite bleb.	E7598	82.38	82.90	. 52		
	B3.55 B5.25 1 and 2 cm quartz carbonate vein similar to B2.3 to B2.9. 1 to 2% pyrite blebs.	E7599	83.55	85.25	1.70		

85.25 91.11 SERPENTINIZED ULTRAMAFIC KOMATIITE

Dark green. Fine grained, lightly to moderately foliated. Hardness 2.5. Strongly serpentinized. Non to lightly magnetic. Lightly carbonatized. Upper contact at 25 degrees. Foliation at approximately 35 degrees. Trace pyrite blebs. Sharp lower contact at 20 to 25 degrees.

91.11 94.72 FINE GRAINED MAFIC OR LAMPROPHYRIC DYKE

Dark reddish green. Fine grained, massive texture. Hardness 4.5 to 5. Moderately to strongly magnetic. Lightly to moderately hematite altered. Strongly carbonatized, moderately effervescent. 1 to 3% disseminated pyrite blebs. Rare pyrite and carbonate stringer at 50 degrees. Sharp lower contact at 30 degrees. Very blocky core.

91.11 92.59 As above.				
	E7600	91.11	92.59	1.48
92.59 93.52 As above.			93.52	
93.52 94.72 As above.	E7602			
	6/ WV4	10.02	741/2	1.20

103.02 SERPENTINIZED ULTRAMAFIC KOMATIITE

94

Similar to 85 to 91. Lightly to moderately foliated at approximately 15 to 20 degrees. Non to lightly magnetic. Trace to locally 1% pyrite blebs. Moderately to strongly

2

AVERAGE

E7600	91.11	92.59	1.48
E7601	92.59	93.52	. 93
E7602	93.52	94.72	1.20

.

٠

HOLE ND: 281-5 PAGE ND: 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. 96.26 97.40 1% pyrite blebs.			96.26				
		97.40 98.90 Similar to 96 to 97.	E7604	96.26					
		98.90 99.97 Similar to 96 to 97.	E7605	97,40					
		102.37 103.02 Lightly bleached, moderately foliated at 10 to 15 degrees. 1% pyrite blebs.	E7606 E7607	98.90 102.37	99.97 103.02				
103.02	104.65	FINE BRAINED MAFIC DR 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		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. 121.31 127.40 Moderately to strongly serpentinized and moderately carbonatized zone. Moderately to strongly foliated. Trace to 2% pyrite blebs.	E7609	106.43	107.97	1.54			
		123.44 124.63 As above. 1 to 2% disseminated pyrite blebs. 124.63 126.23 As above. 1 to 2% disseminated pyrite blebs	E7610 E7611	123.44 124.63	124.63	1.19 1.60			
•		and cubes. 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 ND: 281-5 PAGE ND: 4

FROM TO _____DESCRIPTION-____DESCRIPTION-_____SAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE

127.40 END OF HOLE

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

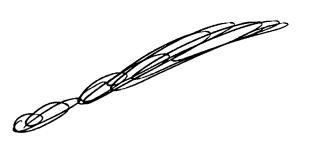
CORE STORED AT DOME MINES, SOUTH PORCUPINE, ONTARIO.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING DF INTEREST.

CASING LEFT IN THE HOLE.

Geology: The hole intersected massive basalt, serpenitinized 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 Beology: 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 chalcopyrite 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.



REF CDRD: 14800.0 10100.0 SURVEY		ACER DOME INC.	
		DND DRILL RECORD	HOLE NO: 281-6 Property: Project 281
POST LOCATION: 63m S AND 67m E TO PO	DST 2, CLAIM P.755303		LANGMUIR TWP., ONTARIO SECTION:
AZIMUTH: 330.0	LENGTH: 151.8	ELEVATION: .O	LDGGED BY: B. NEEDHAM
DIP: -45.0	CORE SIZE: BO	BYSTEM OF MEASURE: METRIC	DATE LOBGED: NOVEMBER, 1988
STARTED: NOVEMBER 13, 1988	COMPLETED: NOVEMBER 14, 1988	CLAIM NO: P.755303	

	DIP TESTS (corrected)								
		DEPTH AZIMUTH DIP DEPT	H AZIMUTH DIP						
		50.00 -36.8 151.7	9 -37,5						
FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t RERUN	REJECT AVERAGE	

- .00 6.09 CASING IN DVERBURDEN
- 6.09 13.13 ULTRAMAFIC KOMATIITE WITH DISSEMINATED TALC CARBONATE BLEBS Medium grey. Fine grained, with fine grained to medium disseminated talc carbonate porphyroblasts. prained Hardness 2. Strongly carbonatized, non effervescent. Lightly magnetic. 10 to 15% irregular carbonate and carbonate-quartz infilled fractures and stringers. Foliation varies from 20 to 50 degrees to the core axis. Lower contact at 50 degrees.

6.09 7.02 10 to 15% carbonate infilled fractures and E7539 6.09 stringers dominantly parallel to foliation at 20 degrees. 12.27 13.13 15 to 20% carbonate-quartz and carbonate E7540 12.27 infilled fractures and stringers.

13.13 26.38 SERPENTINIZED ULTRAMAFIC KOMATIITE

Dark grey to black. Fine grained with the occasional coarse grained spinifex texture bands. Hardness 2 to 2.5. Non to lightly magnetic. 3 to locally 10% carbonate infilled fractures and stringers. Moderately to strongly serpentinized. 2 to 3% pink carbonate blobs. Sharp strongly foliated lower contact at 25 degrees,

13.13 14.60 Coarse grained spinifex texture.

At 17.32 thin intensely serpentinized shear at 20 degrees.

7.02 .93 13.13 . 86

FROM TO -----DESCRIPTION-----BAMPLE FROM TO LENGTH Au g/t RERUN REJECT AVERAGE 17.92 19.39 5 to 10% pink carbonate blobs. 5 to 10% E7541 17.92 19.39 1.47 carbonate infilled fractures and stringers. 19.39 23.35 Coarse grained spinifex texture. 25.76 26.38 Strongly foliated and serpentinized zone with E7542 25.76 26.38 . 62 5 to 10% carbonate stringers. Trace to 1% pyrite. 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% E7543 26.38 27.64 1.26 disseminated pyrite. 6 cm intensely serpentinized ultramafic komatiite xenolith. Sharp lower contact at 45 dearees. 27.64 28.68 Strongly serpentinized 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 28.68 E7544 30.13 1.45 grained to medium grained carbonate porphyroblasts. 5 to 10% strongly serpentinized ultramafic komatiite xenoliths. 1 to 2% disseminated pyrite. 30.13 31.71 Strongly serpentinized and foliated ultramafic E7545 30.13 31.71 1.58 komatiite. 5 to 10% carbonate infilled fractures. Trace to 1% pyrite. Sharp lower contact at 70 degrees. 31.71 32.91 Very fine grained, lightly to moderately E7546 31.71 32.91 1.20 magnetic syenite. Trace pyrite. 1 to 2% disseminated specular hematite.

HOLE ND: 281-6 PAGE ND: 2

0: 2

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	E7547	32.91	33.63	, 72			

34.88 1.25

36.92 1.37

.67

35.55

biotite blebs. 33.63 34.88 Lightly to moderately K metasomatized and/or E754B 33.63 silicified zone with 3 to 4% disseminated pyrite. 2 to 3% quartz carbonate infilled fractures. Sharp lower contact at 25 decrees. 34.88 35.55 Strongly bleached, quartz carbonate E7549 34.88 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. 35.55 36.92 Similar to 33 to 34. Sharp lower contact at 15 E7550 35.55

36.92 68.62 TALCOSE ULTRAMAFIC KONATIITE

degrees.

FROM

TD

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 serpentinized. 5 to 10% E7551 36.92 37.60 . 68 carbonate-quartz infilled fractures and blebs. 42.48 42.72 Intensely serpentinized sheared band at 20 degrees.

67.62 68.62 10 to 15% carbonate and carbonate-guartz E7552 67.62 68.62 1.00 infilled fractures and stringers. Trace to 1% pyrite blebs.

68.62 72.86 CHILLED SYENITE

Similar to 26 to 36. 3 to 5% strongly serpentinized, 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. 70.10 71.31 As above but with 20 to 30% strongly serpentinized carbonate impregnated ultramafic komatiite xenoliths. 2 to 3% fine grained pyrite.			70.10 71.31	
71.31 72.86 As above.	E7555	71.31	72.86	1.55

HOLE NO: 281-6 PAGE NO: - 3

• •

HOLE NO: 281-6 PAGE NO: 4

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au ç	j/t RERUN	REJECT	AVERAGE
72.86	76.58	SERPENTINIZED ULTRAMAFIC KONATIITE 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 76.5B 15% irregular carbonate infilled fractures. Strongly foliated. B cm clay and serpentinized 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. 77.60 78.42 As above.	E7558 E7559	76.58 77.60	77.60 78.42	1.02				
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 sygnodiorite dyke. Occasional strongly hematite altered, carbonatized and silicified spinifex texture band. Trace to locally 1% pyrite cubes. Non to lightly magnetic. Bradational 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 B0.08 Similar to 26 to 36. Upper and lower contacts at 50 degrees. Lightly biotitic. Trace to 1% pyrite.	E7561	79.77	80.08	.31				
		B0.0B B1.21 Strongly foliated with 5 to 10% carbonate and/or carbonate-quartz infilled fractures and stringers	E7562	B0.0B	81.21	1.13				

PLACER DOME INC. Diamond drill record

. .

FROM	τO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t RERUN	REJECT AVERAGE
		parallel to foliation.						
		83.66 85.10 15 to 20% contorted carbonate and	E7563	83.66	85.10	1.44		
		carbonate-quartz stringers. Trace pyrite.				••••		
		86.00 86.65 Similar to 83 to 86.	E7564	86.00	86.65	. 65		
		87.14 B8.62 Strongly foliated possible sheared zone at 20	E7565	87.14	88.62	1.48		
		to 30 degrees with 3 to 5% quartz carbonate blebs and						
		stringers. 5 to 10% carbonate stringers and infilled						
		fractures.						
		BB.62 B9.52 Strongly carbonatized, biotitic symodiorite	E7566	88.62	89.52	.90		
		dyke. Trace pyrite. Sharp upper and lower contact at 50 and 60 degrees.						
		90.09 90.93 Chloritized carbonate-quartz impregnated	E7567		00.07			
		basalt lens. 10 to 15% carbonate-quartz infilled	E/J0/	90.09	90.93	.84		
		fractures. Trace to 1% pyrite cubes.						
		90.93 93.24 Btrongly to intensely carbonatized, and						
		hematite altered, possible silicified spinifex						
		texture ultramafic komatiite. 3 to 5%						
		carbonate-quartz infilled fractures. Trace to						
		1% pyrite cubes.						
		 90.93 92.43 As above. 17 cm strongly bleached chloritized and silicified band with associated 2 cm white quartz vein at approximately 20 degrees. 92.43 93.24 As above. 1 cm quartz carbonate vein at 25 degrees parallel to foliation. 93.87 94.52 Strongly foliated carbonate serpentine impregnated band. 25 to 30% carbonate stringers. Foliation at 30 degrees. 95.08 96.46 20 to 30% lightly to moderately hematite altered bands. 2 to 3 cm quartz carbonate vein at 10 degrees. 96.46 97.60 Spinifex texture band. 	E7568 E7569 E7570 E7571	90.93 92.43 93.87 95.08	92.43 93.24 94.52 96.46	1.50 .81 .65 1.38		
		98.79 99.68 10 to 15% carbonate and serpentinized infilled	E7572	98.79	99.68	.89		
		fractures and stringers. 12 cm biotite altered band.						
		100.71 101.92 15 to 20% carbonate and serpentine stringers	E7573	100.71	101.92	1.21		
		and veinlets.						
		101.92 102.70 Medium grained to coarse grained talc carbonate altered band.						
•		102.70 105.56 Spinifex texture band with 5 to 10% irregular carbonate-quartz infilled fractures with serpentinized selvages. Trace pyrite. Strongly serpentinized.						

HOLE NO: 281-6 PAGE ND: 5

PLACER DOME INC. Diamond drill record

٠

.

FROM	TO	DESCR1PT10N	SAMPLE	FROM	TO	LENGTH	Au g/t RE	UN	REJECT	AVERAGE
		103.45 105.15 As above. 106.86 107.96 Lightly to moderately hematite altered, strongly carbonatized band. Trace pyrite bleb. 108.58 109.29 Spinifex texture band.			105.15 107.96	1.70 1.10				
		 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. 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. 	E7576	109.29	110.54	1.25				
		116.88 117.25 16 cm fine grained syenite dyke with moderately hematite altered and carbonatized selvages.	E7577	116.98	117.25	. 37				
		127.94 128.59 36 cm fine grained, carbonatized synite 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.	E75B0	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	E7581	142.40	143.89	1.49				
		at 60 degrees. 144.10 145.20 Similar to 142 to 143. 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. 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.		144.10 145.20		1.10 1.70				
		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				

HOLE NO: 281-6 PAGE NO: 6

HOLE NO: 281-6 PAGE NO: 7

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

151.79 END OF HOLE

. . . .

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARIO.

ALL CASING PULLED FROM THE HOLE.

infilled shear at 35 degrees.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, DNTARIO.

CORE CHECKED FOR RADIOACTIVITY AND FLUORESCENCE - NOTHING OF INTEREST.

Geology: The hole intersected talcose and serpentinized ultramafic komatiites and 3 fine grained symmitic dykes. were commonly pyritized and moderately The dykes 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 komatiltes 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.

000



STARTED: NOVENBER 21, 1988	COMPLETED: NOVEMBER 26, 1988	CLAIM NO: P.755301	
DIP: -45.0	CORE SIZE: BQ	BYSTEM OF MEASURE: METRIC	DATE LOSSED: NOVEMBER, 1988
AZIMUTH: 150.0	LENGTH: 310.3	ELEVATION: .O	LOGGED BY: B. NEEDHAM
POST LOCATION: 220m N and 96m W T() POST #4, CLAIM P.755301		LANGMUIR TWP., ONTARID Section:
LDCATION: 54+50N 6+00E GRI): 150 DEG	10ND DRILL RECORD	HOLE ND: 281-7 Property: Project 281
REF CDRD: 15450.0 10600.0 SUR			
	PL	ACER DOME INC.	

				DIP TESTS (corrected)					
		DEPTH	AZIMUTH DIP	DEPTH	AZIMUTH DIP					
		91.44	-48.5	304.19	-50.5					
		182.88	-48.5							
FROM T	TÖ	DESC	RIPTION		BAMPLE	FROM	то	LENGTH	Au g/t RERUN	REJECT AVERAGE

.00 24.99 CASING IN DVERBURDEN

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 orained labilli clasts. Occasional moderately to strongly foliated band at approximately 40 degrees to the core 30 to 40% moderately to strongly silicified. axis. 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 orained pyrite. Lightly to moderately carbonatized. Numerous irregular wispy carbonate infilled fractures. Bradational lower contact.

25.14 26.83 30 to 40% bleached and/or hematitic ? altered E7674 26.83 25.14 bands with 3 to 4% irregular carbonate infilled fractures. 26.83 27.50 Similar to 25 to 26. Alteration banding at E7675 26.B3 27.50 approximately 30 degrees. 1% thin pyritized quartz carbonate stringer. 27.50 29.13 Moderately bleached, moderately to strongly E7676 27.50 29.13 1.63 carbonatized zone. Moderately foliated at 45 degrees. 12 cm quartz carbonate vein at 55 degrees. Numerous lapilli clasts. 29.13 30.29 Similar to 25 to 26. Thin carbonate infilled E7677 29.13 fractures crosscutting foliation at 60 degrees occasional have trace pyrite and/or tourmaline blebs. 30.29 31.93 Similar to 25 to 26 but with lightly to

moderately carbonatized bands with 2 to 3%

30.29 1.16 E7678 30.29 31.93 1.64

1.69

.67

А

PLACER DOME INC.

. `

、

FROM

TO

DIAMOND DRILL RECORD

----- 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 foliate carbonatized tuff band at 35 degrees.	d, E7679	31.93	33.43	1.50		
33.43	41.32 BRECCIATED RHYOLITIC PYROCLASTIC 50 to 60% strongly brecciated bands with bleached strong silicified buff matrix and medium dark reddish gri subangular clasts. Medium grained feldspar grai disseminated throughout the unit. Locally moderate bleached and carbonatized. 1 to 2% wispy carbona infilled fractures. Trace very fine grained disseminate pyrite. Rare quartz carbonate veinlet. Poorly defin- lower contact.	eý ns ly te ed					
	33.77 34.67 As above.	E7680	33.77		.90		
	34.67 36.18 As above. 1 cm irregular quartz carbona veinlet with trace disseminated pyrite selvages.	te 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 a 35 degrees.		38.67	40.14	1.47		
	40.14 41.32 As above but intensely silicified ar moderately bleached.	nd E7684	40.14	41.32	1.18		
41.32	100.49 RHYDLITIC AGGLOMERATE Light to medium green grey to dark reddish grey. Fir grained matrix with disseminated white feldspar clasts Slightly to lightly foliated. Dark reddish grey band wit buff subrounded to subangular coarse grained common buff, silicified fragments increase downhole. Occasiona strongly carbonatized, moderately bleached and silicifie band with trace to 1% disseminated pyrite. Trace to 2 glassy quartz carbonate stringer. Numerous irregula wispy carbonate infilled fractures occasional wit associated fine grained pyrite. Slightly to lightly foliated at 60 to 70 degrees.	s. Sh V V V V V V V V V V V V V V V V V V					
	41.32 42.26 Similar to 25 to 26. 42.84 44.36 40 to 50% moderately bleached, carbonatize and silicified bands with trace to 1% fine grained pyrite 2 to 3% irregular quartz carbonate stringers.	•	41.32 42.84	42.26 44.36	.94 1.52		
	44.36 45.21 Moderately bleached, carbonatized an silicified band with trace to 1% disseminated pyrite.	d 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 quart	z E7690	49.82	50.41	.59		

HOLE ND: 281-7 PAGE NO:

2

PLACER DOME INC.

, **•**

FROM

ΤO

DIAMOND DRILL RECORD

DESCRIPTION	SAMPLE	FROM	ŤO	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	E7691	52.20	53.69	1.49			
carbonatized bands or altered selvages adjacent to wispy							
quartz carbonate infilled fractures. Trace to locally 1%							
pyrite.							
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	E7694	56.70	58.23	1.53			
and silicified band with 1 to 3% guartz carbonate infilled							
fractures and stringers. Trace to 1% very fine grained							
disseminated pyrite.							
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	E7696	60.63	62.04	1.41			
at 60, 70 degrees with disseminated pyrite selvages. 1%							
disseminated pyrite.							
62.04 63.27 Similar to 56 to 58.1 cm quartz carbonate	E7697	62.04	63.27	1.23			
veinlet at 20 degrees with fine grained 1 to 2%							
disseminated pyrite selvages and coarse grained pyrite							
blob. Locally lightly sericitized.							
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	F7/00						
and stringers.	E7699	66.66	67.6B	1.02			
70.63 71.45 Similar to 56 to 58.	E7700						
72.28 73.25 Similar to 52 to 53 with a 26 cm strongly	E7701	70.63 72.28	71.45 73.25	.82			
silicified lapilli tuff band with 2 to 3% quartz infilled	E//01	12.20	13.25	.97			
fractures.							
74.67 75.07 8 cm intensely silicified and bleached band at	E7702	74.67	75 07	40			
70 degrees with trace fine grained pyrite.	6//02	/4.0/	75.07	.40			
75.07 76.41 Similar to 52 to 53. Locally lightly	E7703	75.07	76.41	1.34			
coricitized	£//V3	/3.0/	/0.41	1-24			

dissem blob. 63.27 65.19 . 66.66 and st 70.63 72.28 silici fractu 74.67 70 deg 75.07 sericitized. 77.88 79.07 Similar to 52 to 53. E7704 77.88 79.07 1.19 79.07 B0.02 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 B6.97 1.25 87.35 88.40 Similar to 52 to 53. E7708 87.35 88.40 1.05 - ------

HOLE NO: 281-7 PAGE NO: 3

PLACER DOME INC. Diamond drill record

, ,

HOLE NO: 281-7 PAGE NO: 4

FROM	TO	DESCRIPTION	SAMPLE	FROM	то	LENGTH	Au g/t RERUN	REJECT AVERAGE
		92.49 96.36 Similar to 56 to 58. Locally lightly sericitized, strongly to intensely silicified band. Occasional thin tuff band. Minor disseminated chlorite blebs.						
		92.49 93.70 As above. 93.70 94.20 As above but with a 8 cm white quartz vein at	E7710 E7711	92.49 93.70	93.70 94.20			
		20 degrees.	67711	73170	74.20	. 30		
		94.20 95.06 As above. Thin tuff band. 95.06 96.36 As above. Sharp lower contact at 30 degrees.	E7712 E7713	94.20 95.06		.86 1.30		
100.49 1	07.26	ALTERED RHYOLITIC AGGLOMERATE Similar to 92 to 96. Locally core has a brecciated appearance. Lightly to moderately sericitized. 1 to 3% irregular carbonate infilled fractures.						
		100.49 101.85 As above.	E7714	100.49	101.85	1.36		
		101.85 103.30 As above.	E7715	101.85	103.30	1,45		
		103.30 104.57 As above.			104.57			
		104.57 106.07 As above. 106.07 107.26 As above. 1 cm quartz carbonate veinlet at			106.07			
		53 degrees.	E//18	105.07	107.26	1.19		
107.26 1		RHYOLITIC CRYSTAL TUFF Light green grey to yellow green to orangy buff. Fine grained to very fine grained matrix with disseminated medium grained feldspar blebs. Occasional buff strongly silicified agglomeritic clast. Hardness >S. Moderately to locally strongly silicified. Lightly to moderately carbonatized, slightly to locally moderately effervescent. Locally lightly sericitized. 1 to 3% carbonate infilled fractures. Occasional quartz carbonate veinlet with disseminated pyrite selvages. Locally lightly to moderately albitized and/or K metasomatized. Less intensely altered bands are lightly chloritized. Approximately 50% altered irregular bands. Gradational lower contact.						
		107.26 108.29 Dark reddish grey crystal tuff. 3 to 5% lightly to moderately bleached and silicified bands.						

•

HOLE NO: 281-7 PAGE NO: 5

FROM 1	D DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t RERUN	REJECT AVERAGE
	108.29 109.75 Moderately to strongly silicified, carbonatized and lightly to moderately albitized and/or K metasomatized. 2 to 3% carbonate-quartz infilled fractures and stringers.	E7719	108.29	109.75	1.46		
	109.75 110.69 20 cm agglomeritic band with associated K metasomatized. 3 to 4% carbonate-quartz infilled fractures and stringers.	E7720	109.75	110.69	.94		
	110.69 111.76 Intensely silicified band with 2 to 3% carbonate-quartz infilled fractures. Trace to 1% pyrite. 23 cm quartz carbonate chlorite impregnated band with associated strong foliation at 60 degrees.	E7721	110.69	111.76	1.07		
	fli.76 112.77 Strongly bleached, silicified, moderately carbonatized zone with 2 to 4% carbonate-quartz infilled fractures and stringers. Sharp lower contact at 55 degrees.	E7722	111.76	112.77	1.01		
	112.77 113.15 Strongly to intensely carbonatized, lightly to moderately chloritized sympodiorite dyke. Trace pyrite.	E7723	112.77	113.15	. 38		
	113.15 114.67 Patchy alteration. Moderately silicified, carbonatized. 36 cm lightly to moderately albitized and/or K metasomatized band with 1 cm quartz carbonate veinlet at 20 degrees.	E7724	113.15	114.67	1.52		
	114.67 115.88 Similar to 113 to 114.	E7725	114.67	115.88	1.21		
	115.88 116.52 Lightly to moderately bleached silicified zone. 1 cm quartz carbonate chlorite veinlet at 25 degrees. Trace pyrite.			116.52	.64		
	116.52 117.82 Similar to 111 to 112. 1 cm white quartz veinlet at 54 degrees. 117.98 123.04 Lightly to moderately brecciated with 15 to 25% buff silica and carbonate impregnated bands. Trace fine grained pyrite. 2 to 3% carbonate and/or quartz carbonate stringers.	E7727	116.52	117.82	1.30		
	117.98 119.66 As above.			119.66			
	120.13 121.45 As above. 121.45 123.04 As above.			121.45 123.04	1.32 1.59		
123.04 141.	32 ALTERED RHYOLITIC ASH TUFF Strongly to intensely altered band. Primary textures are commonly obliterated by alteration. Possible intercalated agglomerate and tuff. Light buff greenish grey. Very fine grained to fine grained with disseminated white feldspar blebs. Occasional subrounded agglomerate clast is still apparent. Occasional thinly laminated tuff band. Hardness >S. Strongly carbonatized, lightly to moderately effervescent. Moderately to locally intensely silicified with accessional light to moderate the feldspar						

with associated light to moderate sericitization. 1 to 3% irregular carbonate infilled fractures commonly with associated fine grained pyrite. Trace to 2% quartz

PLACER DOME INC.

, ,

DIAMOND DRILL RECORD

FRDM	TD	DESCRIPTION	SAMPLE	FROM	TO	LENSTH	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	125.90	1.45		
		125.80 126.50 Similar to 123 to 124.		125.80		.70		
		126.50 128.00 Strongly silicified and carbonatized zone. Lightly sericitized. Trace fine grained pyrite. 1 to 2% quartz carbonate stringers.		126.50		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.	£7736	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		
		130.66 132.1B 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		
		pyrite. 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, adderately silicified zone. Strongly bleached. Trace to 1% carbonate-quartz stringers. Trace pyrite.	E7742	134.47	135.68	1.21		
		135.68 137.17 Bimilar 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.		138.60		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		

HOLE NO: 281-7 PAGE ND: 6

PLACER DOME INC. Diamond drill record

, ,

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 guartz carbonate veinlet at 70 degrees.			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	RHYOLITIC 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.		153.64		. 43			
		154.83 156.13 Similar to 153 to 154.		154.83		1.30			
T		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.		156.35		1.58			
		159.97 160.24 40 to 50% buff silicified bands and	E7759	159.97	160.24	. 27			

HOLE ND: 281-7 PAGE ND: 7

•

FROM	TO	DESCRIPTION	SAMPLE	FROM	то	LENGTH	Au g/t RERUN	REJECT AV	ERAGE
		stringers. Trace pyrite. 160.24 161.01 Moderately brecciated and/or agglomeritic silicified and carbonatized band. Trace pyrite. 162.47 162.97 Similar to 153 to 154.			161.01 162.97	.77			
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	1.59			
		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. 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. 	£7767	170.20	171.80	1.60			
)	172.74 173.68 As above. 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.	E7768	172.74	173.68	. 94			

175.95 177.45 Lightly bleached. 15 to 20% buff silica E7769 175.95 177.45 1.50

FROM TO	DESCRIPTION	SAMPLE	FROM	TD	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. 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.	E7770	179.48	180.63	1,15		
	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. 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.	E7773	187.72	188.99	1.27		
	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. 191.34 192.20 Similar to 175 to 177. 1 cm carbonate-quartz stringer at 25 degrees.		189.55 191.34	190.58 192.20	1.03 .86		
198.23 205.30	ALTERED RHYOLITIC AGH 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						

: A Y silicified band.

,

198.23 199.17 Moderately to strongly silicified. Locally E7776 198.23 199.17 .94

HOLE NO: 281-7 PAGE NO: 9

FROM	TD	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t RERUN	REJECT AVERAG	E
		lightly chloritized. 1 to 2% very fine grained disseminated pyrite. 2 to 3% quartz carbonate stringers. 199.83 201.07 Lightly to moderately bleached, carbonatized with 15 to 20% strongly to intensely bleached and silicified bands and stringers. Trace pyrite. 1 to 3% carbonate, carbonate-quartz stringer.	E7777	199.83	201.07	1.24			
		201.07 202.03 Similar to 199 to 201 but with only 3 to 5%	Ê7778	201.07	202.03	.96			
		intensely silicified stringers. 202.03 203.60 Similar to 199 to 201.	£7779	202.03	203.40	1.57			
		203.60 204.45 Similar to 199 to 201. Occasional coarse		203.60		.85			
		grained pyrite blob.							
205.30	218.10	BRECCIATED RHYOLITIC PYROCLASTIC Light to medium grey green to yellow green. Moderately to locally strongly brecciated zone with buff to white silica impregnation. Hardness >5. Lightly to locally strongly bleached, lightly to moderately sericitized fragments. Moderately to strongly carbonatized and effervescent. Trace to locally 2% fine grained pyrite with the occasional coarse grained pyrite bleb. Occasional white quartz carbonate veinlet. Sharp lower contact with carbonatized massive mafic flow or intrusive at 45 degrees							
		205.7B 206.4B Lightly to moderately sericitized, carbonatized selvages adjacent to strongly silicified band with 5 cm quartz carbonate vein at 45 degrees. Trace pyrite	E7781	205.78	206.48	. 70			
		207.03 207.68 Lightly brecciated. 15 cm intensely silicified sericitized zone with 1 to 2% disseminated pyrite. 2 to 3 cm white quartz carbonate impregnated band.	E7782	207.03	207.68	.65			
		209.26 210.72 As above. Moderately to strongly brecciated.		209.26		1.46			
		210.72 212.75 As above. 2 cm white quartz veinlet at 60 degrees.	E7784	210.72	212.75	2.03			
		212.75 213.83 As above. 1% coarse grained pyrite blebs.	E7785	212.75	213.83	1.08			

 212.75
 213.83
 As above. 1% coarse grained pyrite blebs.
 E7785
 212.75
 213.83
 1.08

 213.83
 215.38
 As above. 1% coarse grained pyrite blebs.
 E7786
 213.83
 215.38
 215.38
 215.38
 215.38
 215.38
 215.38
 215.38
 215.38
 215.38
 215.38
 1.08

 215.38
 216.47
 As above.
 3 cm white quartz veinlet at 27
 E7787
 215.38
 216.47
 1.09

 degrees with disseminated pyrite selvages.
 Trace to 1%
 Coarse grained pyrite blebs.
 216.47
 218.10
 1.63

 216.47
 218.10
 As above.
 Locally lightly oxidized carbonate
 E7788
 216.47
 218.10
 1.63

infilled fractures and blobs.

218. 14 234.17 ALTERED RHYDLITIC ASH TUFF

•

Similar to 198 to 205. Several strongly bleached, intensely silicified bands with 1 to locally 3% medium grained disseminated pyrite blebs. Numerous wispy carbonate and/or sericite fractures. 1 to 3% carbonate stringers. HOLE NO: 281-7 PAGE NO: 10

HOLE NO: 281-7 PAGE ND: 11

FROM	I TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g∕t RERUN	REJECT AV	ERAGE
		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	i.35			
		221.42 222.87 Similar to 218 to 219.3 cm white quartz			222.87	1.45			
		vein at 32 degrees with trace medium grained pyrite blebs. 3 to 4% carbonate infilled fractures and stringers.							
		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		224.33		1.42			
		and chlorite vein at 55 degrees.	2		220170				
		225.75 227.16 Similar to 218 to 219.	E7704	225.75	227.16				
		227.16 228.51 Similar to 218 to 219.				1.41			
				227.16		1.35			
		228.51 230.05 Similar to 218 to 219.		228.51		1.54			
		230.05 231.5B 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. Dccasional 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.		234.17		1.53			
)	235.70 236.2B 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		240,36		1.58			

FROM	TO	5 525515164						
FRUM	10	DESCRIPTION	SAMPLE	FROM	10	LENGTH	Au g/t RERUN	REJECT AVERAGE
		pyrite selvages. 1 to 2% disseminated pyrite.						
241.94	257.11	ALTERED RHYOLITIC CRYSTAL TUFF Light buff to green grey. Lightly brecciated, with disseminated carbonate porphyroblasts. Hardness >5. Strongly to intensely silicified. Occasional moderately to strongly carbonatized and sericitized band or stringer. 2 to locally 5% disseminated pyrite blebs. Rare molybdenite bleb. 3 to 4% carbonate infilled fractures and stringers. Decasional band has a crystal tuff appearance.						
		241.94 243.03 As above. 3 to 5% carbonate stringers.	E7805	241.94	243.03	1.09		
		243.03 243.93 Intensely silicified zone with 4 to 5% disseminated pyrite blebs.	E7806	243.03	243.93	.90		
		243.93 245.00 30 to 40% silicified fragments in a strongly carbonatized zone with 5 to 10% carbonate sericite infilled fractures. 30 cm carbonate-quartz impregnated band with 4% fine grained pyrite.	E7807	243.93	245.00	1.07		
		245.00 245.87 Similar to 243 to 243.9.	57909	245 00	245.87	.87		
		245.87 246.82 Similar to 243 to 243.9. 3 to 4% carbonate			246.82	. 07		
		sericite infilled fractures.	27007	240.07	140.01	. 75		
		246.82 247.76 Similar to 243 to 243.9.	F7810	246.82	247.76	. 94		
		247.76 248.56 Similar to 243 to 243.9. 5 to 8% sericitized			248.56	.80		
		carbonate blebs and infilled fractures.		•••••				
		248.56 249.69 Similar to 245 to 246.	E7812	248.56	249.69	1.13		
		249.69 250.88 Similar to 245 to 246.			250.88			
		250.88 252.37 Strongly silicified locally moderately			252.37	1.49		
		brecciated with associated carbonate and sericite						
		alteration. 1 to locally 3% disseminated pyrite blebs. 2						
		to 4% glassy quartz carbonate impregnation.						
		252.37 253.99 Similar to 250 to 252.	E7815	252.37	253.99	1.62		
		253.99 255.51 Similar to 250 to 252.	E7816	253.99	255.51	1.52		

E7817 255.51 257.11 1.60

257.11 267.41 DACITIC AGGLOMERATE

.

Medium grey green to yellow green. Subhedral to subrounded clasts varying from < 1 cm to 11 cm. Rock types include basalt, rhyolite and mafic intrusives. Lightly to moderately chloritized matrix. Lightly to moderately carbonatized. Hardness 4 to 5. Locally lightly sericitized. Trace to locally 1% pyrite.

255.51 257.11 Similar to 250 to 252. Contorted lower

contact at approximately 80 degrees.

HOLE NO: 281-7 PAGE NO: 12

FROM	TO	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t RERUN	REJECT	AVERAGE
		257.11 258.10 Moderately carbonatized, moderately chloritized zone with 1 to 2% disseminated pyrite.	E7818	257.11	258.10	, 99			
		263.45 264.47 4 to 5% carbonate-quartz stringers. Locally lightly epidote altered infilled fractures. Carbonatized matrix. Trace to 1% pyrite.	E7819	263.45	264,47	1.02			
		264.47 265.67 Similar to 263 to 264. 8 cm quartz carbonate impregnated band with 1 to 2% pyrite blebs.	E7820	264.47	265.67	1.20			
		265.67 266.78 10 to 15% carbonate-quartz impregnated bands and stringers. Lightly to moderately epidote altered. Strongly carbonatized. Coarse grained feldspar phenocrysts. 2 to 3% disseminated pyrite.	E7821	265.67	266.78	1.11			
		266.78 267.41 Strongly sericitized with epidote altered blebs. Strongly to intensely carbonatized. 1 cm quartz carbonate stringer with 2 to 3% fine grained disseminated pyrite. 1% fine grained disseminated pyrite.	E7822	266.78	267.41	.63			
267.41	273.00	INTERCALATED INTERMEDIATE AGGLOMERATE AND RHYDLITE CRYSTAL							
		Intercalated coarse grained intermediate to felsic crystal tuff and intermediate agglomerate. Variably altered with slightly to intense silicification and carbonatization. Locally lightly to strongly sericitized. Less intensely altered bands have chloritized matrix. Hardness 4 to >5. Sharp foliated upper contact at 65 degrees. 3 to 4% carbonate-quartz and/or quartz carbonate stringers. Trace to locally 3% disseminated pyrite and blebs.							
		267.41 268.64 Intensely silicified intermediate to felsic crystal tuff. 3 to 4% disseminated medium grained pyrite blebs. 3 to 5% carbonate-quartz, quartz carbonate stringers. Lightly sericitized. Moderately carbonatized.	E7823	267.41	268.64	1.23			
		268.64 269.71 Similar to 267 to 268 but less intensely altered.	E7824	268.64	269.71	1.07			
		269.71 270.59 Intermediate crystal tuff with occasional agglomerate clast. Lightly bleached. Moderately carbonatized. Trace to 1% fine grained pyrite.	E7825	269.71	270.59	.88			
-		272.16 273.00 Strongly carbonatized, lightly to moderately silicified and lightly sericitized. 3 to 5% carbonate stringers. 2 to 3% green carbonate blobs. Trace to 1% fine grained pyrite.	E7826	272.16	273.00	.84			

274.98 MASSIVE SULPHIDE IN ALTERED MAFIC TO INTERMEDIATE VOLCANIC

Massive sulphide band with an envelop of medium to dark grey strongly carbonatized, lightly to moderately silicified basalt or dacite. 1.10 metre massive sulphide

HOLE NO: 281-7 PAGE NO: 13

273

. .

HOLE ND: 281-7 Page ND: 14

FRO	м то	DESCRIPTION	SAMPLE	FROM	TO	LENGTH	Au g/t RERUN	REJECT AVERAGE
		zone with sharp upper and lower contacts at 18 and 65 degrees. Sulphide consists of approximately 70 to 75% pyrite, 15% pyrrhotite and 10 to 15% quartz carbonate blebs. Approximately 5 to 10 cm from contacts the host rock has 4 to 6% disseminated pyrrhotite which grades into disseminated pyrite above and below this zone. Bradational upper and lower contacts.						
		273.00 274.40 Moderately to strongly magnetic massive sulphide zone. 70 to 75% pyrite, 15% pyrrhotite and 10 to 15% quartz carbonate blebs.	E7827	273.00	274.40	1.40		
		274.40 274.9B Moderately silicified, strongly carbonatized zone with 3 to 5% disseminated pyrrhotite grading into 2 to 3% disseminated pyrite downhole.	E7828	274.40	274.98	.58		
274.9B	281.10	ALTERED FELDSPAR PORPHYRY DYKE Variably silicified and carbonatized, decreasing downhole. Possible intermediate to felsic crystal tuff. Light yellow green to medium grey green. Fine grained matrix with medium grained to coarse grained subhedral feldspar phenocrysts. Slightly to lightly foliated. Hardness 4.5 to >5. Intensely silicified, moderately carbonatized and lightly sericitized at the upper contact gradational decreasing downhole. Trace to locally 2% disseminated pyrite. 3 to 4% carbonate infilled fractures and stringers. Decasional quartz carbonate veinlet. Gradational change to a lightly chloritized matrix downhole. Gradational lower contact.						
		274.98 276.22 Intensely silicified, moderately carbonatized and lightly sericitized. 1 to 2% disseminated pyrite.	E7829	274.98	276.22	1.24		
		276.22 276.86 Similar to 274 to 276. 6 cm quartz carbonate vein at 25 to 45 degrees.	E7830	276.22	276.86	.64		
		276.86 277.79 Moderately bleached and silicified, lightly to moderately carbonatized. Trace to 1% disseminated pyrite	E7831	276.86	277.79	.93		
		277.79 278.79 Lightly bleached, carbonatized and silicified. 1 to 2% quartz carbonate stringers. 7 cm strongly silicified and pyritized band at 65 degrees. 280.43 281.10 3 to 4% carbonate-quartz stringers. 1 to 2%		277.79		1.00		
)	disseminated pyrite and blebs.		2200.0	221114			
281.10	286.82	DACITIC AGGLOMERATE Similar to 257 to 267. Gradational increase in silicification towards the lower contact. Moderately to						

PLACER DOME INC. Diamond drill record

. .

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. 282.10 283.63 Lightly to moderately foliated zone at approximately 40 degrees. Lightly to moderately silicified. Chloritized matrix. 	E7834	281.10	282.10	1.00		
	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 blobs. 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 blobs and stringers. 1 to 2% disseminated pyrite with trace to 1% coarse grained pyrite blobs.						
	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 blobs 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.		290.62		1.45		
	292.07 293.05 As above.	E7842	292.07	293.05	. 98		

HOLE NO: 281-7 PAGE NO: 15

PLACER DOME INC. Diamond drill record

•

HOLE NO: 281-7 PAGE NO: 16

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. 294.33 294.51 Strongly serpentinized ultramafic komatiite xenolith.	E7843	293.05	294.33	1.28		
	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. 295.45 296.44 Similar to 294 to 295.10 cm irregular semi			295.45	. 94		
	massive pyrite band.	E/840	295.45	296.44	.99		
	296.44 297.73 Similar to 295 to 296. 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. 298.63 300.36 Contact zone. Intercalated feldspar porphyritic dykelets, rhyolite agglomerate clasts and serpentinized ultramafic			297.73 298.63	1.29 .90		
	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	29B.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	3 05. 50	. 67		
b .	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		

HOLE ND: 281-7 PAGE ND: 17

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

310.28 END OF HOLE

÷

DRILLING BY NOREX DRILLING LTD., PORCUPINE, ONTARID.

CORE STORED AT DOME MINES, SOUTH PORCUPINE, DNTARID.

ALL CASING PULLED FROM THE HOLE.

۲

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 thinnly laminated with 70 to 75% pyrite, 15% pyrrhotite and 10 to 15% cherty quartz carbonate blebs. No sigificant copper or zinc analyses are expected.

O

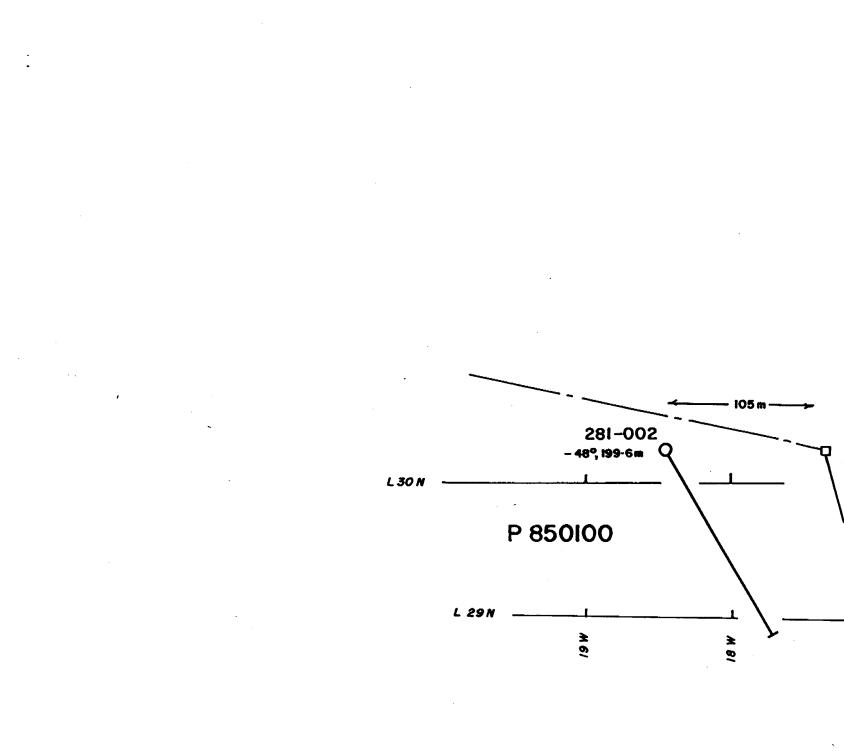
SCHEDULE "A"

ŕ

1,

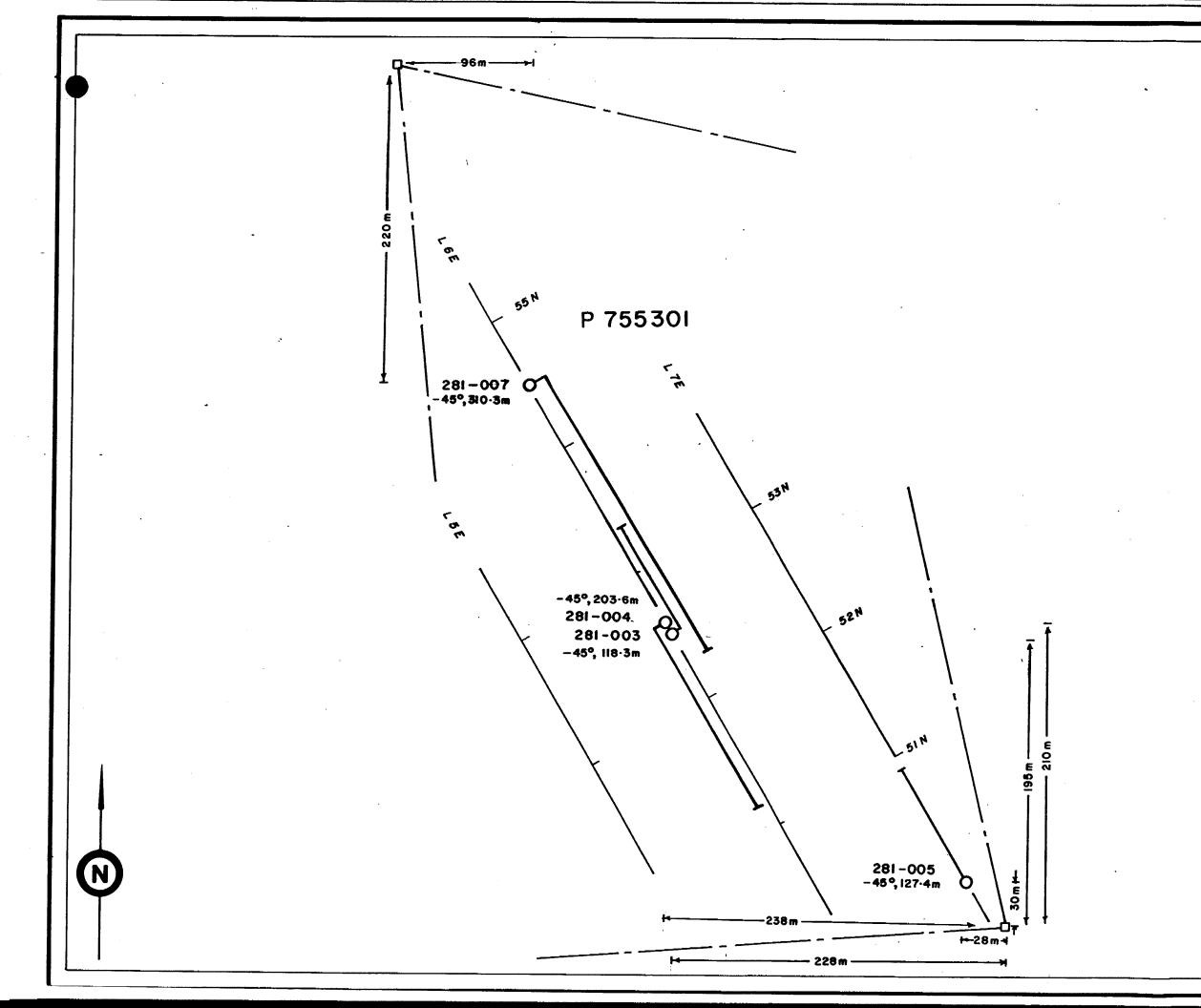
Project 281

<u>Claim No.</u>	<u>Days of Work</u>
P755301 ⁷ ,	101.3
P755302	100
P755303	100
P849136'	100
P849137'	100
P8501004	100
P852172	100
P852173	100
P852174	100
P852175	100
P852176	100 100
P852177' P852178'	100
P852178 P852179	100
P852180	100
P852180	100
P852182	100
P852183'	100
P852184	100
P852185'	100
· P852318′	100
P852319	100
P852320 ⁷	100
P852321	100
P852322	100
P852323	100
P852324 /	100
P852325	100 100
P852326	100
P852327	100
P852328 [/] P852329 [/]	100
P852329	100
P852331	100
P852332	100
· P852333 ~/	100
·P852334	40
P852732	40
P852733/	40
P852734′	40
P852735′	40
P852838	100
P852839	100
P852840	100
P852841	100
· P852842	100
$4\pi e^{\tilde{I}_{2}} = 2$	



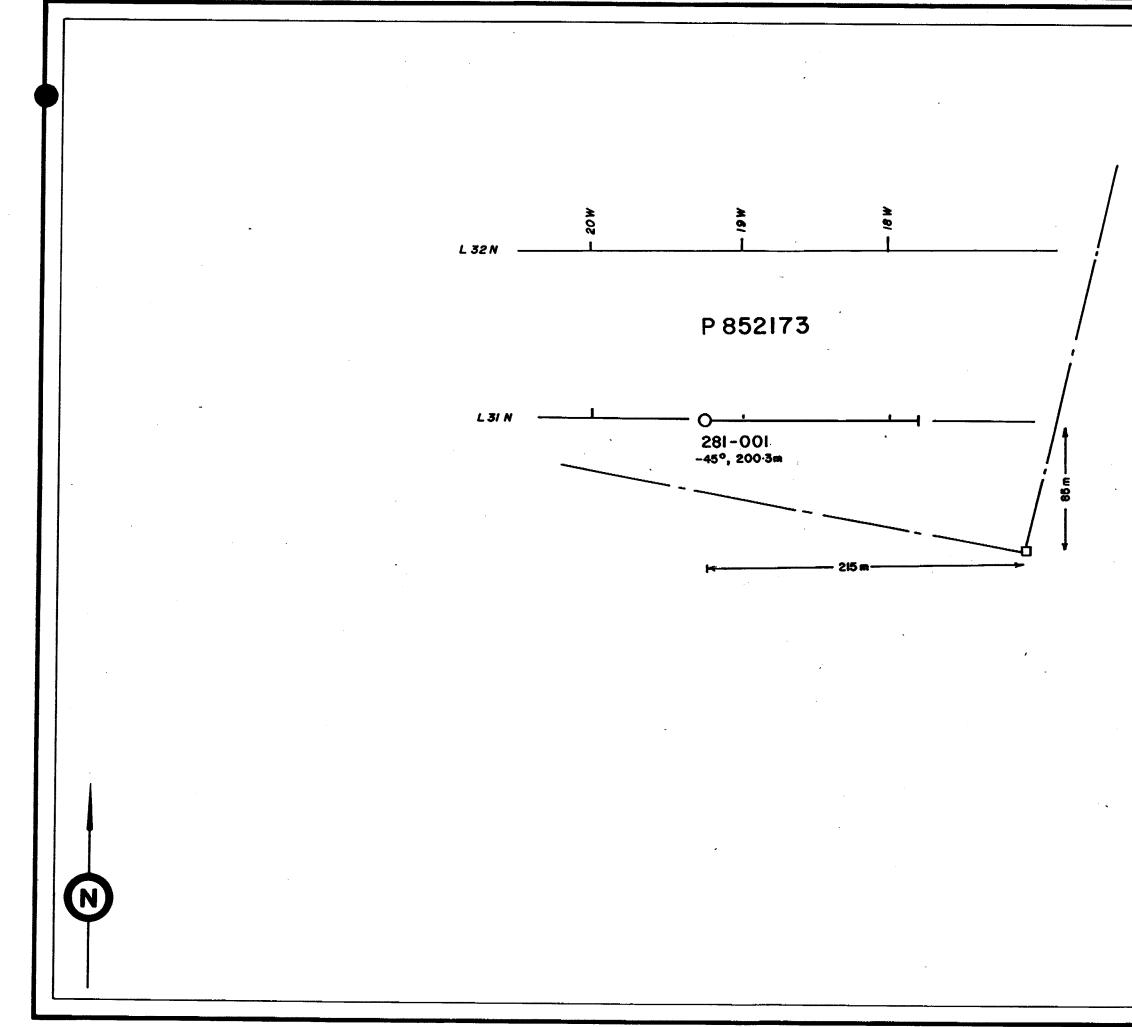
N

LACER DOME INC	-
NCLEOD CREEN MUIR & BLACK LOCATION	
Drawn F.C.	Dwg. No. 281–15
NTS Ref.424/7	281-15
	ICLEOD CREEN MUIR & BLACK

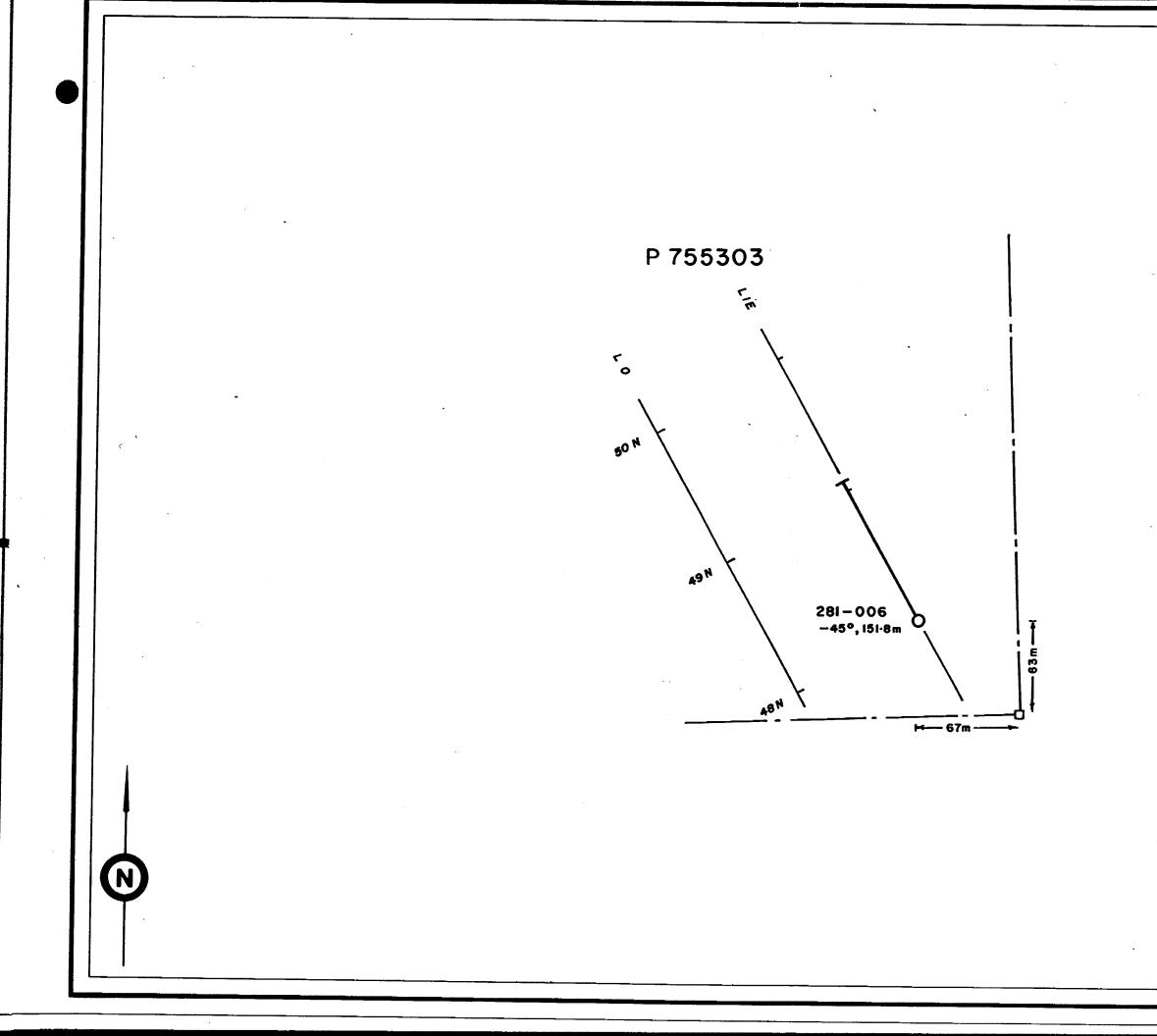


	LACER DOME INC	2					
Proj. No. 281, MCLEOD CREEK, LANGMUIR & BLACKSTOCK TP. DDH LOCATIONS							
Scale 1:2500 Date A pl. 1989	Drawn F.C. NTS Ref. 42A/7	Dwg. No. 281 - 16					

• •



D P	ACERDOME INC							
Proj. No. 281, MCLEOD CREEK, LANGMUIR & BLACKSTOCK TP. DDH LOCATIONS								
Scale : 2500		Dwg. No. 281-17						
Date Apl.,1989	NTS Ref. 42A/7	281-17						



Ð	PLACERDOMENC						
Proj. No. 281, MCLEOD CREEK, LANGMUIR & BLACKSTOCK TP. DDH LOCATIONS							
Scole 1:2500	Drawn F.C.	Dwg. No.					
Dote Apl. 1989	NTS Ref. 42A/7	281 - 18					

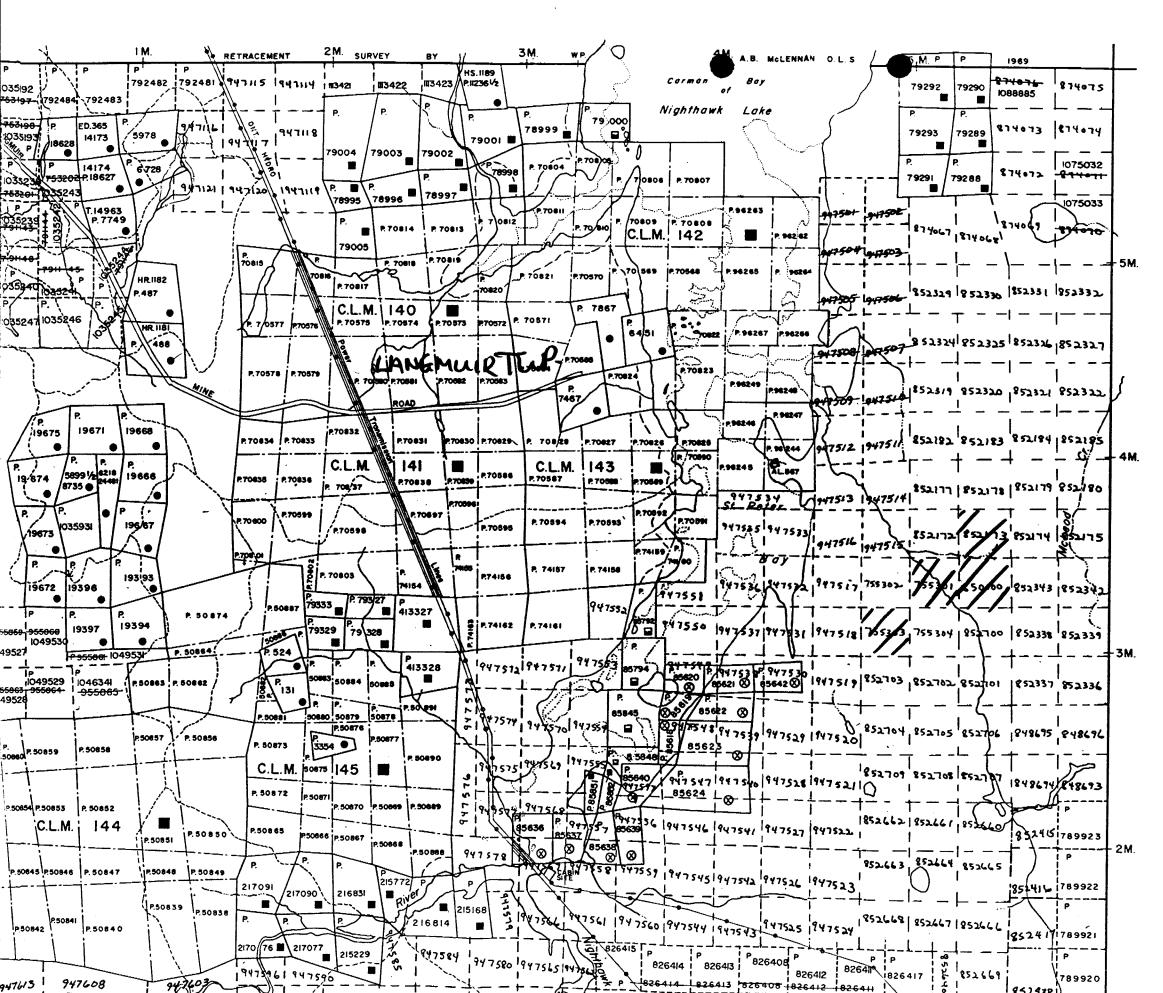
CARMAN TP.

19475961 947590

947603

947613 947608

Forks



1826414

1026403 1 026403 P

1947595 947591 947589 1947586 947581 947581 947569 147569 147563 1826402 826403 826404 826405 826406 826406 826409 2 190508

826413 826408 1826412

U. \vdash ACKSTOCK

m

\$ 852669

789920

852 938)

798589 (789919

HIGHWAY AND ROUTE No OTHER ROADS TRAILS SURVEYED LINES: TOWNSHIPS, BASE LINES, ETC LOTS, MINING CLAIMS, PARCELS, ET UNSURVEYED LINES: LOT LINES PARCEL BOUNDARY MINING CLAIMS ETC. RAILWAY AND RIGHT OF WAY UTILITY LINES NON-PERENNIAL STREAM FLOODING OR FLOODING RIGHTS SUBDIVISION OR COMPOSITE PLAN RESERVATIONS **ORIGINAL SHORELINE** MARSH OR MUSKEG MINES TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

SYMBOL

TYPE OF DOCUMENT

PATENT, SURFACE & MINING RIG , SURFACE RIGHTS ONLY , MINING RIGHTS ONLY LEASE, SURFACE & MINING R SURFACE RIGHTS ONLY , MINING RIGHTS ONLY LICENCE OF OCCUPATION **ORDER-IN-COUNCIL** RESERVATION CANCELLED SAND & GRAVEL

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO M 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBL LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC

SCALE: 1 INCH = 40 CHAINS

LANGMUIR

FEET	0	1000	2000	4000	6000	8000
METR	o ES	200		000 KM)	2000 (2 KM)	

TOWNSHIP

7.M. 9M 1088886 923504 1928507 923 508 874100 923511 923512 90 5719 90 5720 905724 952622 874079 905 725 905 724 905 725 905 739 874084 - 011 - 90572 Trail 274080 905740 9235/3 2341 5.M (852333) 1852334 852735 Trail 1 28 852838 852734 BLACKSTOCK TWP. 1000250 852323 852839 852733 852318 852840 852732 Trail 4.M 852181 852841 849136 - + m2230 | m2231 | m2232 1072948 1072947 109143 852176 852842 849137 12235 109146 109145 109144 ----852341 852843 849188 ANGMUIR 852340 852844 849139 #2239 | #2240 | #2241 | 1034901 |1034902 | 102238 3M-I 852335 848700 852845 1 182245 182244 182243 182242 848697 842692 848698 852846 848692 848691 848690 848689 852847 785914 789913 389697 789696 781350 2M 789915 789912 789 698 789695 781351 Whitefish Trail 789916 789911 789906 789694 781356 83666 836666 789917 789990 989907 789693 7813 28 83666 4 836665 792500 789918 789909 789908 781355 781 548366 IMF-8 3666 2036 205 297 105685 101 5685 1 51685 816685 236980 1 783319 783316 783311 783308 783303 490305 190015 542124 562128 783320 783315 783312 783307 78330

	783321783314783313	IM.	2M.		······
	LEGEND	···· <i>((</i>		3M.	Receiv 400'surfa
•	CANCELLED PATENTED LAND CROWN LAND SALE LEASES	c C C C		FASKEN	This tow CITY of
	LOCATED LAND LICENSE OF OCCUPATION MINING RIGHTS ONLY SURFACE RIGHTS ONLY	LOC L.U M.R.O S.R.O			لسر

BLACKSTOCK Tp.

1

N.263

Ministry of Northern Developm and Mines		ENT NO 06-24 Mining	<i>{1</i>				
Name and Postal Address of R			42A07SW0028 54	B LANGMUIR	т 837		900
	Suite 3500, IBM Tower		ntre, Toronto,	Ontario	D M5K 1N	3	
Summary of Work Perform	ance and Distribution of Credits			•	I	<u></u>	
4301. 3	Mining Claim Prefix Number C	Work Days Cr. Pr	Mining Claim efix Number	Work Days Cr.	Mining Prefix		Work Days Cr.
for Performance of the following	ing P 755301 1	01.3	(SEE SCHEDULE "	'A")			
work. (Check one only)	et al		· · ·				
Manual Work			· · · · · · · · · · · · · · · · · · ·	· · ·			
Shaft Sinking Drifting o other Lateral Work.	r 能影影的		·				
Compressed Air, other			·				
Power driven or mechanical equip.					2		
Power Stripping		,					
Diamond or other Core		4	-				
drilling				· · · · · · ·			
					THE THE WEEK		
All the work was performed o	•		; P852173 , P75	5303 8	β β .		
Required Information eg:	type of equipment, Names, Add	resses, etc.	(See Table Below)				
	0.3m, (657.15')	RORCUPIN	MINING DIVISION	R	ECORD	ED	
	9.6m (654.85') 8.3m (388.02')		EIVEIN				
	3.6m (667.80')	NIME					
	7.4m (417.87')) Man	2 1989	1 M	1AY 0219	189	
1	1.8m' (497.90')'	••••	~	1			
281-007 31	0.3m≠ (1,017.78')'.			1			
	1.3m (4,301.37') Norex Drilling Ltd.,	Porcupi	ne, Ontario	49A 13	is ixe U		
			<u> </u>		• F		
			Date of Report April 25/8	20	Recorded Hold	er or Agent (Sign	
Certification Verifying Rep	ort of Work				In amp	1011	<i>u</i>
I hereby certify that I have	a personal and intimate knowledge o nd/or after its completion and the an			Vork annex	ad hereto, having	performed the	work
Name and Postal Address of P				· · · · · ·			
	nti, Manager, Explorat			۸ 			
	Suite 3500, IBM Tower,	TD Cer			Certified by (Si		
Toronto, Onta		Deserter	April 25/89	÷	John M.	Morgant	6
Type of Work	chments Required by the Mining Specific information per t		Other information (Co		or more types}	Attachme	ints
Manual Work	· · · · · · · · · · · · · · · · · · ·					1	
Shaft Sinking, Drifting or	NH		Names and addresses	of men wh	performed	Mark Stream	•h
other Lateral Work			manual work/operate	ed equipme	nt, together	Work Sketch: are required t	o show
Compressed air, other power driven or mechanical equip.	Type of equipment		with dates and hours	or employn		the location a extent of wor relation to the	k in
Power Stripping	Type of equipment and amount ex Note: Proof of actual cost must be within 30 days of recording.		Names and addresses			nearest claim	
Diamond or other core drilling	Signed core log showing; footage, d core, number and angles of holes.	liameter of	done.	men arilling	//stripping	Work Sketch above) in dup	
Land Survey	Name and address of Ontario land s	urveyer.		NII		Nil	
768 (85/12)							