53B09NW0029 W9630-00029 SKINNER LAKE

010

DDH	Lenght	Claim #	Claim $	Total Cost$
506-721	606.50m	Pa508459	$12,000.00	$39,262.05
506-785	161.00m	Pa529840	$10,427.50	$10,427.50
506-800	80.00m	Pa529877	$4,763.65	$4,763.65
506-801	200.00m	Pa529870	$11,997.10	$11,997.10
506-806	68.20m	Pa529875	$6,071.00	$6,071.00
506-807	80.00m	Pa529875	$3,193.85	$3,193.85
506-813	101.00m	Pa529845	$5,935.45	$5,935.45
506-815	80.00m	Pa529856	$5,484.93	$5,484.93
506-819	80.00m	Pa529845	$6,166.27	$6,166.27
506-822	83.50m	Pa529844	$4,925.65	$4,925.65
506-823	80.00m	Pa529844	$4,469.60	$4,469.60
506-826	92.00m	Pa529843	$5,575.55	$5,575.55
506-832	92.00m	Pa369749	$5,434.25	$5,434.25
506-850	695.80m	Pa449150	$12,000.00	$50,767.06
506-865	122.00m	Pa529839	$6,000.00	$9,321.15
506-870	119.00m	Pa529839	$6,000.00	$10,142.52
506-895	141.73m	Pa529871	$11,237.65	$11,237.65
506-924	73.30m	Pa369766	$4,460.80	$4,460.80
506-927	104.00m	Pa369766	$6,549.05	$6,549.05
506-933	158.00m	Pa529826	$6,000.00	$10,482.02
506-934	74.73m	Pa529826	$6,000.00	$6,900.29
506-945	198.00m	Pa529827	$12,000.00	$13,961.79
506-957	147.00m	Pa369746	$6,000.00	$9,494.92
506-961	107.00m	Pa369746	$6,000.00	$6,826.62
506-968	155.09m	Pa369767	$10,038.57	$10,038.57
506-969	182.00m	Pa529846	$12,000.00	$12,497.80
			$190,730.87	

DDH: 506-721
SECTION: 10899.60N
EASTING: 8955.10E
ELEVATION: 5302.50 m
DIP: -70°
AZIMUTH: 224.50°
DATE STARTED: January 16, 1994
DATE FINISHED: January 28, 1994
DATE LOGGED: January 18, 1994
LENGTH: 606.50 m
DEPTH OF OVERBURDEN: 10.97 m
LOCATION: 112.0 m south and 198.0 m east to Post 4 of claim Pa 508459

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

Placer Dome Canada

*** Musselwhite ***

Drill Hole: 506-721

Depth	Azimuth	Dip
80.25	221.15	-67.57
83.22	220.91	-67.47
86.19	220.66	-67.38
89.16	220.66	-67.19
92.13	220.66	-67.10
95.11	220.66	-67.01
98.08	220.66	-66.72
101.05	220.66	-66.54
104.02	220.43	-66.44
106.99	220.43	-66.44
109.97	220.43	-66.44
112.94	220.20	-66.35
115.91	219.96	-66.26
118.88	219.96	-66.26
121.85	219.73	-66.16
124.83	219.50	-66.07
127.80	219.27	-65.79
130.77	219.05	-65.41
133.74	218.82	-65.13
136.71	218.60	-64.85
139.69	218.39	-64.57
142.66	218.39	-64.29
145.63	218.17	-64.01
148.60	217.96	-63.82
151.57	217.75	-63.54
154.55	217.54	-63.26
157.52	217.34	-63.07
160.49	217.13	-62.98
163.46	216.92	-62.89
166.44	216.72	-62.79
169.41	216.52	-62.70
172.38	216.52	-62.61
175.35	216.31	-62.51
178.32	216.11	-62.42
181.30	216.11	-62.33
184.27	215.91	-62.23
187.24	215.91	-62.14
190.21	215.71	-62.05
193.18	215.51	-61.95
196.16	215.51	-61.86
199.13	215.31	-61.76
202.10	215.31	-61.76
205.07	215.31	-61.76
208.04	215.12	-61.67
211.02	215.12	-61.58
213.99	214.92	-61.58
216.96	214.92	-61.58
219.93	214.92	-61.58
222.90	214.72	-61.58
225.88	214.72	-61.48
228.85	214.53	-61.39
231.82	214.53	-61.39
234.79	214.53	-61.39

Paul Blown

Depth	Azimuth	Dip
237.76	214.53	-61.30
240.74	214.53	-61.30
243.71	214.33	-61.20
246.68	214.33	-61.11
249.65	214.14	-61.02
252.62	214.14	-60.92
255.60	213.95	-60.64
258.57	213.76	-60.45
261.54	213.57	-60.17
264.51	213.38	-59.99
267.49	213.20	-59.71
270.46	213.02	-59.43
273.43	212.83	-59.14
276.40	212.65	-58.96
279.37	212.47	-58.77
282.35	212.47	-58.77
285.32	212.47	-58.68
288.29	212.29	-58.58
291.26	212.11	-58.49
294.23	212.11	-58.40
297.21	212.11	-58.40
300.18	212.11	-58.30
303.15	211.93	-58.21
306.12	211.93	-58.21
309.09	211.93	-58.21
312.07	211.76	-58.11
315.04	211.76	-58.11
318.01	211.76	-58.11
320.98	211.76	-58.02
323.95	211.58	-57.93
326.93	211.58	-57.93
329.90	211.58	-57.93
332.87	211.58	-57.83
335.84	211.41	-57.74
338.81	211.41	-57.65
341.79	211.23	-57.55
344.76	211.06	-57.46
347.73	210.88	-57.37
350.70	210.71	-57.27
353.68	210.71	-57.27
356.65	210.71	-57.18
359.62	210.71	-57.09
362.59	210.71	-57.09
365.56	210.71	-56.99
368.54	210.54	-56.90
371.51	210.54	-56.80
374.48	210.37	-56.71
377.45	210.37	-56.62
380.42	210.20	-56.52
383.40	210.03	-56.43
386.37	209.86	-56.34
389.34	209.86	-56.24
392.31	209.69	-56.15

Depth	Azimuth	Dip
395.28	209.53	-56.06
398.26	209.36	-55.96
401.23	209.36	-55.96
404.20	209.36	-55.96
407.17	209.36	-55.87
410.14	209.36	-55.87
413.12	209.36	-55.87
416.09	209.19	-55.78
419.06	209.19	-55.78
422.03	209.03	-55.68
425.00	209.03	-55.68
427.98	209.03	-55.68
430.95	208.86	-55.59
433.92	208.86	-55.59
436.89	208.70	-55.49
439.86	208.70	-55.40
442.84	208.53	-55.40
445.81	208.53	-55.31
448.78	208.53	-55.21
451.75	208.53	-55.21
454.73	208.53	-55.21
457.70	208.53	-55.21
460.67	208.53	-55.21
463.64	208.53	-55.21
466.61	208.53	-55.21
469.59	208.53	-55.21
472.56	208.53	-55.21
475.53	208.53	-55.21
478.50	208.53	-55.12
481.47	208.53	-55.12
484.45	208.53	-55.12
487.42	208.53	-55.12
490.39	208.53	-55.21
493.36	208.53	-55.31
496.33	208.37	-55.21
499.31	208.37	-55.21
502.28	208.37	-55.12
505.25	208.37	-55.03
508.22	208.37	-54.84
511.19	208.53	-54.75
514.17	208.53	-54.65
517.14	208.37	-54.56
520.11	208.37	-54.47
523.08	208.21	-54.37
526.05	208.37	-54.28
529.03	208.37	-54.18
532.00	208.37	-54.18
534.97	208.21	-54.09
537.94	208.21	-54.00
540.91	208.21	-53.90
543.89	208.05	-53.81
546.86	207.89	-53.72
549.83	207.73	-53.62

Depth	Azimuth	Dip
552.80	207.73	-53.53
555.78	207.73	-53.53
558.75	207.58	-53.44
561.72	207.42	-53.34
564.69	207.26	-53.25
567.66	207.26	-53.25
570.64	207.11	-53.16
573.61	207.11	-53.16
576.58	206.95	-53.06
579.55	206.95	-53.06
582.52	206.95	-53.06
585.50	206.95	-53.06
588.47	206.80	-52.97
591.44	206.64	-52.78
594.41	206.64	-52.78
597.38	206.64	-52.69
600.36	206.64	-52.59
603.33	206.49	-52.50

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A002
0.00	2.40	IW				
2.40	10.97	OB *R: from 0.00 to 15.24 metres nw casing*l ledge at 10.97 metres**				
10.97	13.40	GC				
13.40	23.05	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 50% banded BI:Biotite, 0.1% stringers CA:Calcite Veining, 0% Nothing CB:Carbonatization, 10% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 30% banded GT:Garnet, 5% banded GU:Grunerite, 20% bedded MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% blebs PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 1% stringers QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: fine grained with garnets up to 2mm in size* black, green, pink, yellow and grey* moderately magnetic, with average hardness of 4* l tuco 50% "4f" beds, 20% mt beds, 10% chert beds, 10% "4e" beds and 10% poorly developed "4ea" beds* l sugary quartz stringers along margins of folds with disseminated po and carbonate stringers parallel to bedding* chloritic selvages sharp* l well preserved bedding* folding is right and left limb* l the dominant fracture set is subparallel to bedding* the secondary fracture set is perpendicular to bedding, with carbonate* l fe20004 standard iv 4.35 ns nsl from 20.5-20.55 broken core**	13.40 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00	14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00 22.00 23.05	FE20001 FE20002 FE20003 FE20005 FE20006 FE20007 FE20008 FE20009 FE20010 FE20011	4FB 4FB 4FB 4FB 4FB 4FB 4FB 4FB 4FB 4FB
23.05	40.95	chert-magnetite iron formation, 0% Nothing AS:Arsenopyrite, 20% banded BI:Biotite, 0.1% stringers CA:Calcite Veining, 10% pervasive CB:Carbonatization, 2% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 20% banded GT:Garnet, 5% banded GU:Grunerite, 30% banded MT:Magnetite, 0.1% stringers PO:Pyrrhotite, 0.1% wispy PO2:Pyrrhotite (not manditory, 0.1% wispy PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 4% stringers QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: tuco 75% "4be" and 25% "4b"" l*	23.05 24.00 25.00 26.00 27.00 28.00 29.00 30.00 31.00 32.00 33.00 34.00	24.00 25.00 26.00 27.00 28.00 29.00 30.00 31.00 32.00 33.00 34.00 35.00	FE20012 FE20013 FE20014 FE20016 FE20017 FE20018 FE20019 FE20021 FE20022 FE20023 FE20024 FE20026	4BE 4BE 4BE 4BE 4BE 4BE 4BE 4BE 4BE 4BE 4BE 4BE

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A002
			35.00	35.50	FE20027	4BE
		23.05 35.50 0% Nothing AS:Arsenopyrite, 10% banded BI:Biotite, 0.1% stringers CA:Calcite Veining, 0% Nothing	23.05	24.00	FE20012	4BE
		CB:Carbonatization, 5% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 30% banded GT:Garnet, 2% banded	24.00	25.00	FE20013	4BE
		GU:Grunerite, 40% banded MT:Magnetite, 0.1% stringers PO:Pyrrhotite, 0.1% wispy PO2:Pyrrhotite (not manditory, 0.1%	25.00	26.00	FE20014	4BE
		wispy PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 2% stringers QZ:Quartz Veining, 0% Nothing	26.00	27.00	FE20016	4BE
		SI:Silicification/flooding	27.00	28.00	FE20017	4BE
		R: fine grained with garnets up to 2mm in size within "4e" beds" dark green, black, pink, grey and yellow" strongly	28.00	29.00	FE20018	4BE
		magnetic and with a hardness of 5" tuco 45% "4b" beds, 30% "4e" beds, 15% chert beds and 10% "4f" beds" well	29.00	30.00	FE20019	4BE
		preserved bedding" folding present is rlfg" the dominant fracture set is subparallel to bedding" the secondary fracture set	30.00	31.00	FE20021	4BE
		is perpendicular to bedding, carbonate fracture filling" fe20015 blnk .03 ns nsl fe20020 duplicate of fe20019 .06 ns nsl	31.00	32.00	FE20022	4BE
		fe20025 standard iv 4.47 ns nsl	32.00	33.00	FE20023	4BE
			33.00	34.00	FE20024	4BE
			34.00	35.00	FE20026	4BE
			35.00	35.50	FE20027	4BE
		35.50 40.95 0% Nothing AS:Arsenopyrite, 5% bedded BI:Biotite, 1% stringers CA:Calcite Veining, 0% Nothing	35.50	36.00	FE20028	4B
		CB:Carbonatization, 0.% wispy CH:Chlorite, 0% Nothing CP:Chalcopyrite, 5% banded GT:Garnet, 5% pervasive	36.00	37.00	FE20029	4B
		GU:Grunerite, 50% laminated MT:Magnetite, 0% Nothing PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing	37.00	38.00	FE20030	4B
		QC:Quartz-carb Veining, 2% veins QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding	38.00	39.00	FE20031	4B
		R: fg, grn, bl, grey, yellow and pink, strongly magnetic and hard. tuco 60% magnetite, 10% "4e" beds, 20% chert beds	39.00	40.00	FE20032	4B
		and 10% "4f" beds. minor quartz veins, 1 to 2 cm parallel to bedding, no visible sulphides, carbonate rims. no visible gold.	40.00	40.95	FE20033	4B
40.95	50.30	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 70% banded BI:Biotite, 0.1% stringers CA:Calcite Veining, 0% Nothing	40.95	42.00	FE20034	4FB
		CB:Carbonatization, 5% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 20% banded GT:Garnet, 15% blebs	42.00	43.00	FE20036	4FB
		GU:Grunerite, 2% laminated MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0.1% wispy PO2:Pyrrhotite (not manditory, 0.1%	43.00	44.00	FE20037	4FB
		wispy PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 3% veins QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding	44.00	45.00	FE20038	4FB
		R: fg, with garnets to 2 mm, br, pink, grey, and yellow. weakly mtc" poorly preserved bdg, av hardness. gt' are euhedral	45.00	46.35	FE20039	4FB
		to subhedral from 1 to 2 mm.I quartz veins are generally parallel to bdg from .2 to 2 cm true width with minor po, chlorite	46.35	47.00	FE20041	4F
		wisps, and unaltered selvages. po along fractures in quartz veins. contacts of quartz veins are sharp at various	47.00	48.00	FE20042	4F
		orientations. I	48.00	49.00	FE20043	4F
			49.00	50.30	FE20045	4F
		40.95 46.35 0% Nothing AS:Arsenopyrite, 30% banded BI:Biotite, 0.1% stringers CA:Calcite Veining, 5% pervasive	40.95	42.00	FE20034	4FB
		CB:Carbonatization, 2% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 8% banded GT:Garnet, 7% banded	42.00	43.00	FE20036	4FB
		GU:Grunerite, 20% laminated MT:Magnetite, 0.1% wispy PO:Pyrrhotite, 0.5% vein associated PO2:Pyrrhotite (not	43.00	44.00	FE20037	4FB
		manditory, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 10% veins QZ:Quartz Veining, 0% Nothing	44.00	45.00	FE20038	4FB
		SI:Silicification/flooding	45.00	46.35	FE20039	4FB
		R: fg, w gt' to 2 mm. grey, bl, grn, yellow and pink. mody mtc and hard. bdg is mody preserved. gt' and euhedral to	46.35	47.00	FE20041	4F
		subhedral. qz veins from .5 cm to 7 cm with sharp contacts, minor wisps of chlorite, rare gt' and po in fractures. fe20035	47.00	48.00	FE20042	4F
		blnk .03 ns nsl fe20040 duplicate of fe20039 .03 ns nsl fe20044 standard iv 3.64 4.15 nsl	48.00	49.00	FE20043	4F
			49.00	50.30	FE20045	4F
50.30	111.25	chert-magnetite iron formation, 0.1% wispy AS:Arsenopyrite, 9% banded BI:Biotite, 0.1% stringers CA:Calcite Veining, 5%	50.30	51.00	FE20046	4B
		pervasive CB:Carbonatization, 1% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 1% banded GT:Garnet, 10%	51.00	52.00	FE20047	4B
		banded GU:Grunerite, 40% laminated MT:Magnetite, 0.1% wispy PO:Pyrrhotite, 0.1% blebs PO2:Pyrrhotite (not	52.00	53.00	FE20048	4B
		manditory, 0.1% wispy PY:Pyrite, 0.1% stringers QC:Quartz-carb Veining, 1% veins QZ:Quartz Veining, 5% flooded	53.00	54.00	FE20049	4B
		SI:Silicification/flooding	54.00	55.00	FE20050	4B
		R: fg" black, grey, green and yellow" strongly magnetic and a hardness of 5" I tuco 50% laminated and thinly bedded mt,	55.00	56.00	FE20051	4B
		10% guzd beds, 5% "4f" beds, 5% "4e" beds and 30% chert beds" I bedding is moderately to well preserved from	56.00	57.00	FE20052	4B
		laminae to 2cm wide" beds commonly boudinaged" folding present" I fracture cleavage is moderately developed" I the	57.00	58.00	FE20053	4B
		dominant fracture set is perpendicular to bedding, with carbonate and rarely pyrite" the secondary fracture set is	58.00	59.00	FE20054	4B
		subparallel to bedding, with chlorite and carbonate"I qz veins from .5 to 5cm with wisps of chlorite, trace garnets and po	59.00	60.00	FE20056	4B
		in fractures" I fe20055 blnk .04 ns nsl fe20060 duplicate of fe20059 .29 ns nsl fe20064 standard iv 3.84 3.93 nsl fe20075	60.00	61.00	FE20057	4B

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A002
		blnk .03 ns nsl fe20080 duplicate of fe20079 1.58 ns nsl fe20082 standard iv 4.07 ns nsl	61.00	62.00	FE20058	4B
			62.00	63.00	FE20059	4B
			63.00	64.00	FE20061	4B
			64.00	65.00	FE20062	4B
			65.00	66.00	FE20063	4B
			66.00	67.00	FE20065	4B
			67.00	68.00	FE20066	4B
			68.00	69.00	FE20067	4B
			69.00	70.00	FE20068	4B
			70.00	71.00	FE20069	4B
			71.00	72.00	FE20070	4B
			72.00	73.00	FE20071	4B
			73.00	74.00	FE20072	4B
			74.00	75.00	FE20073	4B
			75.00	76.00	FE20074	4B
			76.00	77.00	FE20076	4B
			77.00	78.00	FE20077	4B
			78.00	79.00	FE20078	4B
			79.00	80.00	FE20079	4B
			80.00	81.00	FE20081	4B
			81.00	82.00	FE20083	4B
			82.00	83.00	FE20084	4B
			83.00	84.00	FE20085	4B
			84.00	84.70	FE20086	4B
84.70	86.65	0% Nothing AS:Arsenopyrite, 30% bedded BI:Biotite, 0.1% wispy CA:Calcite Veining, 2% pervasive CB:Carbonatization, 3% wispy CH:Chlorite, 0% Nothing CP:Chalcopyrite, 15% banded GT:Garnet, 5% banded GU:Grunerite, 25% bedded MT:Magnetite, 1% disseminated PO:Pyrrhotite, 1% blebs PO2:Pyrrhotite (not manditory, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: fine grained with garnets to 1 mm. black, pink and pale green. strongly magnetic. hard. subunit composed of 60% "4b" beds and 40% "4f" beds. trace calcite wisps. in zone of folding bedding is disrupted and commonly micro-sheared along axial planes. fe20095 blnk .03 ns nsl a 20 cm quartz vein with 1% po at 36 dca°l fe20100 duplicate of fe20099 .04 ns nsl fe20107 standard iv 4.09 ns nsl*	84.70	85.70	FE20087	4BF
			85.70	86.65	FE20088	4BF
			86.65	87.00	FE20089	4B
			87.00	88.00	FE20090	4B
			88.00	89.00	FE20091	4B
			89.00	90.00	FE20092	4B
			90.00	91.00	FE20093	4B
			91.00	92.00	FE20094	4B
			92.00	93.00	FE20096	4B
			93.00	94.00	FE20097	4B
			94.00	95.00	FE20098	4B
			95.00	96.00	FE20099	4B
			96.00	97.00	FE20101	4B
			97.00	98.00	FE20102	4B
			98.00	99.00	FE20103	4B
			99.00	100.00	FE20104	4B
			100.00	101.00	FE20105	4B
			101.00	102.00	FE20106	4B
			102.00	103.00	FE20108	4B
			103.00	104.00	FE20109	4B
			104.00	105.00	FE20110	4B
			105.00	106.00	FE20111	4B
			106.00	107.00	FE20112	4B
107.00	111.25	0% Nothing AS:Arsenopyrite, 10% laminated BI:Biotite, 0% Nothing CA:Calcite Veining, 0.1% pervasive CB:Carbonatization, 2% laminated CH:Chlorite, 0% Nothing CP:Chalcopyrite, 5% laminated GT:Garnet, 5% laminated GU:Grunerite, 30% laminated MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0.5% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding	107.00	108.00	FE20113	4BE
			108.00	109.00	FE20114	4BE
			109.00	110.00	FE20116	4BE
			110.00	111.25	FE20117	4BE

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A002
		R: fine grained dark grey, green, black and pink* moderately to strongly magnetic* hard* subunit composed of 75% b beds, 5% "f" beds and 20% e beds with 1 mm garnets* fe20115 blnk .03 .03 nsl a 15 cm qv at 25 dca* a 10 cm folded quartz vein* contact sharp.*				
111.25	119.10	Chert-grunerite-amphibole-garnet iron formation, 0% Nothing AS:Arsenopyrite, 5% laminated BI:Biotite, 0% Nothing CA:Calcite Veining, 2% pervasive CB:Carbonatization, 1% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 20% glomeroporphyroblastic GT:Garnet, 45% laminated GU:Grunerite, 15% bedded MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% fracture filling PY:Pyrite, 0.1% stringers QC:Quartz-carb Veining, 1% veins QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: fine grained to medium grained* grey, green, pink and yellow* moderately magnetic* hard* I unit is composed of 80% ea beds and 20% b beds* garnets are up to 5 cms* I 1% quartz veins are up to 2 cm wide and parallel to bedding. trace quartz-carbonate wisps* I bedding poorly to well preserved* fractures locally pyrrhotite coated* I fe20120 duplicate of fe20119 .08 ns nsl upper contact sharp**	111.25 112.00 113.00 114.00 115.00 116.00 117.00 118.00	112.00 113.00 114.00 115.00 116.00 117.00 118.00 119.10	FE20118 FE20119 FE20121 FE20122 FE20123 FE20124 FE20125 FE20126	4EAB 4EAB 4EAB 4EAB 4EAB 4EAB 4EAB 4EAB
119.10	122.93	chert-magnetite iron formation, 0% Nothing AS:Arsenopyrite, 3% laminated BI:Biotite, 0% Nothing CA:Calcite Veining, 0.1% pervasive CB:Carbonatization, 3% laminated CH:Chlorite, 0% Nothing CP:Chalcopyrite, 3% disseminated GT:Garnet, 5% banded GU:Grunerite, 30% bedded MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0.1% veins QC:Quartz-carb Veining, 1% veins QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: 100% 4b.I at 120.85 a 5 cm quartz vein*I fe20129 standard iv 3.94 ns ns I upper contact sharp**	119.10 120.00 121.00 122.00	120.00 121.00 122.00 122.93	FE20127 FE20128 FE20130 FE20131	4B 4B 4B 4B
122.93	124.60	Chert-grunerite-amphibole-garnet iron formation, 0% Nothing AS:Arsenopyrite, 10% banded BI:Biotite, 1% wispy CA:Calcite Veining, 0% Nothing CB:Carbonatization, 5% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 25% banded GT:Garnet, 25% banded GU:Grunerite, 5% bedded MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0.5% veins QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding	122.93 123.93	123.93 124.60	FE20132 FE20133	4EAF 4EAF
124.60	129.95	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 25% banded BI:Biotite, 0.1% wispy CA:Calcite Veining, 0% Nothing CB:Carbonatization, 5% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 30% disseminated GT:Garnet, 2% banded GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% coatings PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: fe20135 blnk .03 ns nsl fe20140 duplicate of fe20139 .03 ns nsl*	124.60 125.00 126.00 127.00 128.00 129.00	125.00 126.00 127.00 128.00 129.00 129.95	FE20134 FE20136 FE20137 FE20138 FE20139 FE20141	4F 4F 4F 4F 4F 4F
129.95	135.40	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 10% disseminated BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 5% disseminated CH:Chlorite, 0% Nothing CP:Chalcopyrite, 1% disseminated GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0.1% blebs QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: fg* medium grey-green* nm* h of 4*I massive*I*				
135.40	136.80	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 25% banded BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 5% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 30% banded GT:Garnet, 2% banded GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% coatings PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: fe20144 standard iv 3.72 ns nsl*	135.40 136.40	136.40 136.80	FE20142 FE20143	4F 4F
136.80	139.45	Chert-grunerite-amphibole-garnet iron formation, 0% Nothing AS:Arsenopyrite, 10% wispy BI:Biotite, 0% Nothing CA:Calcite Veining, 3% banded CB:Carbonatization, 10% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 15% banded GT:Garnet, 15% banded GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% coatings PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 1% veins QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding	136.80 137.80	137.80 138.25	FE20145 FE20146	4EA 4EA
		138.25 138.75 0% Nothing AS:Arsenopyrite, 10% disseminated BI:Biotite, 20% stringers CA:Calcite Veining, 5% pervasive CB:Carbonatization, 5% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 1% disseminated GT:Garnet, 0%	138.25 138.75	138.75 139.45	FE20147 FE20148	BVOL 4EA

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A002
		Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0% Nothing PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding				
139.45	140.70	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 10% pervasive BI:Biotite, 15% stringers CA:Calcite Veining, 1% pervasive CB:Carbonatization, 5% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding				
140.70	142.85	Chert-grunerite-amphibole-garnet iron formation, 0% Nothing AS:Arsenopyrite, 5% wispy BI:Biotite, 0% Nothing CA:Calcite Veining, 2% patchy CB:Carbonatization, 2% wispy CH:Chlorite, 0% Nothing CP:Chalcopyrite, 10% banded GT:Garnet, 15% banded GU:Grunerite, 3% banded MT:Magnetite, 2% blebs PO:Pyrrhotite, 0.1% coatings PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 20% flooded SI:Silicification/flooding	140.70 141.70	141.70 142.85	FE20149 FE20150	4EA 4EA
142.85	169.60	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 5% wispy BI:Biotite, 0.5% stringers CA:Calcite Veining, 0.1% pervasive CB:Carbonatization, 10% disseminated CH:Chlorite, 0.1% coatings CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% disseminated PY:Pyrite, 0.1% stringers QC:Quartz-carb Veining, 0.5% veins QZ:Quartz Veining, 0.1% flooded SI:Silicification/flooding *R: milky white quartz vein parallel to foliation"l 20% wisps of biotite"l gentle folding with local sub-parallel core angles"*	152.30	152.70	FE20151	BVOL
169.60	174.25	Chert-grunerite-amphibole-garnet iron formation, 0% Nothing AS:Arsenopyrite, 5% banded BI:Biotite, 1% stringers CA:Calcite Veining, 0% Nothing CB:Carbonatization, 20% banded CH:Chlorite, 0.1% wispy CP:Chalcopyrite, 10% banded GT:Garnet, 20% banded GU:Grunerite, 10% disseminated MT:Magnetite, 3% blebs PO:Pyrrhotite, 0.1% coatings PY:Pyrite, 1% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 20% flooded SI:Silicification/flooding *R: 50% weak to mody developed "4ea" beds, 50% "4b" beds"l 20% irregular blue-grey silica flooding" fe20155 blnk .03 ns nsl*	169.60 170.60 171.60 172.60 173.60	170.60 171.60 172.60 173.60 174.25	FE20152 FE20153 FE20154 FE20156 FE20157	4EAB 4EAB 4EAB 4EAB 4EAB
174.25	176.20	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 15% wispy BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 10% disseminated CH:Chlorite, 0% Nothing CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0.1% stringers SI:Silicification/flooding *R: fg" medium grey-green" massive" non-magnetic" h of 4" l*				
176.20	177.70	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 30% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 5% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 15% disseminated GT:Garnet, 3% banded GU:Grunerite, 2% disseminated MT:Magnetite, 1% wispy PO:Pyrrhotite, 0% Nothing PY:Pyrite, 1% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 5% flooded SI:Silicification/flooding *R: fg with cg garnet" dark green to black matrix with pink garnets" weak to locally moderately magnetic" h of 4" minor gu and silica in last 70 cm" l fe20160 duplicate of fe20159 .03 ns nsl*	176.20 177.00	177.00 177.70	FE20158 FE20159	4F 4F
177.70	189.15	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 10% wispy BI:Biotite, 0.1% pervasive CA:Calcite Veining, 0.1% pervasive CB:Carbonatization, 5% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0.5% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0.1% flooded SI:Silicification/flooding *R: fg, medium grey-green to brownish" non-magnetic" h of 4" weak foliation" variable biotite and chlorite" locally up to 20% wispy biotite" minor wispy stringers of qc and blue-grey silica along foliation" l*				
189.15	199.35	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 30% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 3% wispy CH:Chlorite, 0.1% blebs CP:Chalcopyrite, 25% banded GT:Garnet, 10% banded GU:Grunerite, 1% disseminated MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% disseminated PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 2% flooded SI:Silicification/flooding *R: unit is composed of 90% 4f beds and 10% 4ea bds" l fe20167 standard iv 4.07 ns nsl*	189.15 190.00 191.00 192.00 193.00	190.00 191.00 192.00 193.00 194.00	FE20161 FE20162 FE20163 FE20164 FE20165	4F 4F 4F 4F 4F

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A002
			194.00	195.00	FE20166	4F
			195.00	196.00	FE20168	4F
			196.00	197.00	FE20169	4F
			197.00	198.00	FE20170	4F
			198.00	199.00	FE20171	4F
			199.00	199.35	FE20172	4F
199.35	204.40	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 10% wispy BI:Biotite, 1% stringers CA:Calcite Veining, 0.1% patchy CB:Carbonatization, 3% pervasive CH:Chlorite, 0.1% disseminated CP:Chalcopyrite, 0.1% disseminated GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% disseminated PY:Pyrite, 0.1% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding				
204.40	208.66	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 25% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% pervasive CH:Chlorite, 0.1% fracture filling CP:Chalcopyrite, 15% disseminated GT:Garnet, 2% felty masses GU:Grunerite, 1% disseminated MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0.1% coatings PY:Pyrite, 0.1% veins QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding				
208.66	210.00	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 10% wispy BI:Biotite, 1% wispy CA:Calcite Veining, 1% pervasive CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 0.1% disseminated GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% coatings PY:Pyrite, 1% wispy QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding				
210.00	210.80	Garnet-amphibole iron formation, 0% Nothing AS:Arsenopyrite, 5% disseminated BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 10% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 5% banded GT:Garnet, 0% Nothing GU:Grunerite, 2% banded MT:Magnetite, 8% semi-massive PO:Pyrrhotite, 0.1% fracture filling PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 3% flooded SI:Silicification/flooding	210.00	210.80	FE20173	4E
210.80	343.30	Felsic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 0.1% disseminated BI:Biotite, 0.1% pervasive CA:Calcite Veining, 0.1% pervasive CB:Carbonatization, 0.1% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% blebs PO2:Pyrrhotite (not manditory, 0.1% coatings PY:Pyrite, 0.1% stringers QC:Quartz-carb Veining, 0.1% veins QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: fg* med grey* non-magnetic* h of 5* massive to weakly banded with occasional wispy se bands* rare white qz veins with minor py and po* sub-parallel to foliation and up to 30 cm in thickness* se banding averages 2 to 5%* very rare 1-2mm ragged gt*l minor blocky ground core with very fine muddy material*l fe20175 blnk .03 .03 nsl fe20180 duplicate of fe20179 .03 ns nsl fractured, bleached and silicified with orange colouration and 5% fine silica flooding* occasional bleached fractures with potassic alteration*l 2-10% <1mm disseminated feldspar crystals*l 10 to 15% wispy banded to pervasive se with occasional beds containing fine feldspar crystals*</i> 326.10 331.90 0% Nothing AS:Arsenopyrite, 5% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% wispy CH:Chlorite, 0% Nothing CP:Chalcopyrite, 10% disseminated GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0.1% disseminated PY:Pyrite, 0.1% stringers QC:Quartz-carb Veining, 0.1% stringers QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: subtle biotite alteration and gt developement in avol gives core a slight brownish colour-possibly due to minor influx of sediments during deposition of avol* gradational cntc* slip-fractures with slickensides over < 1 cm core at 160* abrupt lower contact with 20% silica flooding over last 30 cm*l*	210.80 212.00 213.00 214.00 215.00 242.00 305.00	212.00 213.00 214.00 215.00 216.00 243.00 306.00	FE20174 FE20176 FE20177 FE20178 FE20179 FE20181 FE20182	AVOL AVOL AVOL AVOL AVOL AVOL AVOL 4F
343.30	363.80	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 40% wispy BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 1% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 30% banded GT:Garnet, 1% banded GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0.1% disseminated PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0.1% stringers QZ:Quartz Veining, 1% flooded SI:Silicification/flooding *R: fmg, dark grey-brown with pink garnets* nm with a hardness of 3* generally poorly bedded with 1% <1 cm grey chert*	343.30 344.00 345.00 346.00 347.00	344.00 345.00 346.00 347.00 348.00	FE20183 FE20185 FE20186 FE20187 FE20188	 4F 4F 4F 4F

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A002
		beds ltuco 98% 4f beds, 1% chert beds and 1% grn 4e beds* scattered <1 cm qs ptb* I fe20184 standard iv 4.15 3.60 nsl fe20195 blnk .03 ns nsl fe20200 duplicate of fe20199 .03 ns nsl fe20203 standard iv 4.06 ns nsl sharp upper contact*I*	348.00	349.00	FE20189	4F
			349.00	350.00	FE20190	4F
			350.00	351.00	FE20191	4F
			351.00	352.00	FE20192	4F
			352.00	353.00	FE20193	4F
			353.00	354.00	FE20194	4F
			354.00	355.00	FE20196	4F
			355.00	356.00	FE20197	4F
			356.00	357.00	FE20198	4F
			357.00	358.00	FE20199	4F
			358.00	359.00	FE20201	4F
			359.00	360.00	FE20202	4F
			360.00	361.00	FE20204	4F
			361.00	362.00	FE20205	4F
			362.00	363.00	FE20206	4F
			363.00	363.80	FE20207	4F
363.80	367.75	Garnet-amphibole iron formation, 0% Nothing AS:Arsenopyrite, 2% disseminated BI:Biotite, 0% Nothing CA:Calcite Veining, 2% pervasive CB:Carbonatization, 10% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 15% disseminated GT:Garnet, 0% Nothing GU:Grunerite, 2% disseminated MT:Magnetite, 1% stringers PO:Pyrrhotite, 0.1% wispy PO2:Pyrrhotite (not manditory, 0.1% coatings PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 2% blebs QZ:Quartz Veining, 2% flooded SI:Silicification/flooding *R: fg with mcg gt* matrix is dark green and composed mainly of hard am* lwm* hardness of 4* ltuco 90% 4e beds and 5% 4f* I breccia zone 15% boud qz fragments up to 1cm thick in a moderately well foliated 4e matrix at 30 deg to core axis*I sharp upper contact*I*	363.80	365.00	FE20208	4E
			365.00	366.00	FE20209	4E
			366.00	367.00	FE20210	4E
			367.00	367.75	FE20211	4E
367.75	370.90	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 20% disseminated BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 25% banded GT:Garnet, 2% banded GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% wispy PO2:Pyrrhotite (not manditory, 0.1% disseminated PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 5% flooded SI:Silicification/flooding *R: fe20215 blnk .03 ns nsl sharp upper contact*I*	367.75	368.00	FE20212	4F
			368.00	369.00	FE20213	4F
			369.00	370.00	FE20214	4F
			370.00	370.90	FE20216	4F
370.90	379.90	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 2% disseminated BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 5% pervasive CH:Chlorite, 0.1% blebs CP:Chalcopyrite, 0.1% disseminated GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% disseminated PO:Pyrrhotite, 0.1% wispy PO2:Pyrrhotite (not manditory, 0.1% coatings PY:Pyrite, 0.1% stringers QC:Quartz-carb Veining, 0.1% veins QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: typical fg, med green bvol*I sharp upper contact*I*				
379.90	388.00	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 25% banded BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 5% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 35% banded GT:Garnet, 5% banded GU:Grunerite, 1% disseminated MT:Magnetite, 1% blebs PO:Pyrrhotite, 0.1% stringers PO2:Pyrrhotite (not manditory, 0.1% blebs PY:Pyrite, 3% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 3% flooded SI:Silicification/flooding *R: tuco 80% 4f beds, 10% 4ea beds, 5% 4e beds and 4% silica/chert beds*I*	379.90	381.00	FE20217	4F
			381.00	382.00	FE20218	4F
			382.00	383.00	FE20219	4F
			383.00	384.00	FE20221	4F
			384.00	385.00	FE20222	4F
		385.00 386.00 Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 5% banded BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 5% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 1% blebs PO:Pyrrhotite, 0% Nothing PY:Pyrite, , 7% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: fe20220 duplicate of fe20219 .30 ns nsl sharp upper contact* I*	385.00	386.00	FE20223	BVOL
			386.00	387.00	FE20224	4F
			387.00	388.00	FE20225	4F

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A002
388.00	400.78	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 5% wispy BI:Biotite, 0.1% stringers CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% wispy PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0.1% stringers QC:Quartz-carb Veining, 1% veins QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: 5 cm qv sub-parallel to foln at 393.5m*l*	388.00	389.00	FE20226	BVOL
		395.50 396.65 0.1% blebs AS:Arsenopyrite, 0% Nothing BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 5% banded CH:Chlorite, 0% Nothing CP:Chalcopyrite, 10% banded GT:Garnet, 5% banded GU:Grunerite, 0% Nothing MT:Magnetite, 2% blebs PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 40% flooded SI:Silicification/flooding *R: tuco mainly 4e with silica flooding and 5% weak 4ea beds* sharp upper and lower contacts at 26 and 20 deg* fe20227 standard iv 3.63 ns nsl mechanically broken-chipped core*l slightly irregular sharp upper contact*l*	395.50	396.65	FE20228	4E
400.78	403.00	Chert-grunerite-amphibole-garnet iron formation, 0% Nothing AS:Arsenopyrite, 5% banded BI:Biotite, 0.1% stringers CA:Calcite Veining, 0% Nothing CB:Carbonatization, 0% Nothing CH:Chlorite, 0.1% blebs CP:Chalcopyrite, 10% banded GT:Garnet, 15% banded GU:Grunerite, 5% disseminated MT:Magnetite, 2% stringers PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 18% flooded SI:Silicification/flooding *R: green, grey, brown and pale green banded with mcg pink gt* lwsm* h 3-4* moderately well banded with minor folding* l tuco 60% 4ea beds, 30% 4e beds, 10% bvol and 10% 4f*l sharp upper contact*l*	400.78	402.00	FE20229	4EA
			402.00	403.00	FE20230	4EA
403.00	427.25	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 10% wispy BI:Biotite, 0.1% stringers CA:Calcite Veining, 5% pervasive CB:Carbonatization, 0% Nothing CH:Chlorite, 0.1% blebs CP:Chalcopyrite, 0.1% banded GT:Garnet, 0.1% banded GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0.1% fracture filling PY:Pyrite, 3% veins QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: fg, brown to gm, nm, h of 4, weak to moderately foliated* frequent <1-20 cm qca and ca veins and stringers ptf*l broken up section of core-chips*l sharp upper contact*l*				
427.25	431.85	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 25% banded BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 0% Nothing CH:Chlorite, 0% Nothing CP:Chalcopyrite, 30% banded GT:Garnet, 5% banded GU:Grunerite, 1% disseminated MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0.1% fracture filling PY:Pyrite, 0.1% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: fg with medg gt* brown, green and grey, poor to well bedded and lwm* h of 4* ltuco 65% 4e beds, 30% 4f beds, and 5% 4ea beds*l fe20235 blnk .03 ns nsl upper contact gradational*l*	427.25	428.00	FE20231	4FE
			428.00	429.00	FE20232	4FE
			429.00	430.00	FE20233	4FE
			430.00	431.00	FE20234	4FE
			431.00	431.85	FE20236	4FE
431.85	454.90	Chert-grunerite-amphibole-garnet iron formation, 0.1% blebs AS:Arsenopyrite, 5% banded BI:Biotite, 0% Nothing CA:Calcite Veining, 0.1% stringers CB:Carbonatization, 0% Nothing CH:Chlorite, 0% Nothing CP:Chalcopyrite, 10% glomeroporphyroblastic GT:Garnet, 20% banded GU:Grunerite, 5% banded MT:Magnetite, 5% wispy PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 15% flooded SI:Silicification/flooding *R: fmg, pale green,grey, brown, and green with mcg pink gt* mod to well banded with local folding* lwsm with occasional mt beds* ltuco 90% 4ea beds, 5% 4f beds and 5% 4e beds*l 4ea with 10% magnetite beds*l fe20248 standard v 7.44 ns nsl fe20255 blnk .06 ns nsl fe20260 duplicate of fe20259 32.33 ns nsl upper contact gradational*l 4f bed*l bvol bed*l fe20240 duplicate of fe20239 6.79 ns nsl*	431.85	433.00	FE20237	4EA
			433.00	434.00	FE20238	4EA
			434.00	435.00	FE20239	4EA
			435.00	436.00	FE20241	4EA
			436.00	437.00	FE20242	4EA
			437.00	438.00	FE20243	4EA
			438.00	439.00	FE20244	4EA
			439.00	440.00	FE20245	4EA
			440.00	441.00	FE20246	4EA
			441.00	442.00	FE20247	4EA
			442.00	443.00	FE20249	4EA
			443.00	444.00	FE20250	4EA
			444.00	445.00	FE20251	4EA
			445.00	446.00	FE20252	4EA
			446.00	447.00	FE20253	4EA
			447.00	448.00	FE20254	4EA
			448.00	449.00	FE20256	4EA

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A002
			449.00	450.00	FE20257	4EA
			450.00	451.00	FE20258	4EA
			451.00	452.20	FE20259	4EA
			452.20	452.90	FE20261	4F
			452.90	453.55	FE20262	4EA
			453.55	454.00	FE20263	BVOL
			454.00	454.90	FE20264	4EA
454.90	458.00	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 25% banded BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 0% Nothing CH:Chlorite, 0% Nothing CP:Chalcopyrite, 35% glomeroporphyroblastic GT:Garnet, 1% banded GU:Grunerite, 3% disseminated MT:Magnetite, 2% wispy PO:Pyrrhotite, 0.1% blebs PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 12% flooded SI:Silicification/flooding *R: fe20568 standard v 8.09 ns nsl sharp upper contactl*	454.90 456.00 457.00	456.00 457.00 458.00	FE20265 FE20266 FE20267	4F 4F 4F
458.00	490.10	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 5% wispy BI:Biotite, 1% stringers CA:Calcite Veining, 5% pervasive CB:Carbonatization, 2% pervasive CH:Chlorite, 0.1% blebs CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0.1% blebs PY:Pyrite, 5% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: sharp upper contact*l*				
490.10	491.55	Garnet-amphibole iron formation, 0% Nothing AS:Arsenopyrite, 10% disseminated BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 0% Nothing CH:Chlorite, 0% Nothing CP:Chalcopyrite, 10% disseminated GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 3% wispy PO:Pyrrhotite, 0% Nothing PY:Pyrite, 3% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 20% flooded SI:Silicification/flooding *R: local tight folding and sub-parallel core angles*l sharp upper contact*l*	490.10 491.00	491.00 491.55	FE20269 FE20270	4E 4E
491.55	492.65	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 10% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0% Nothing PO:Pyrrhotite, 0% Nothing PO2:Pyrrhotite (not manditory, 0% Nothing PY:Pyrite, 2% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: sharp upper contact*l*	491.55	492.65	FE20271	BVOL
492.65	494.30	Chert-grunerite-amphibole-garnet iron formation, 0% Nothing AS:Arsenopyrite, 5% banded BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 3% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 10% glomeroporphyroblastic GT:Garnet, 5% banded GU:Grunerite, 0% Nothing MT:Magnetite, 3% blebs PO:Pyrrhotite, 3% wispy PO2:Pyrrhotite (not manditory, 0% Nothing PY:Pyrite, 1% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 15% flooded SI:Silicification/flooding *R: sharp upper contact*l*	492.65 493.65	493.65 494.30	FE20272 FE20273	4EA 4EA
494.30	498.30	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 15% pervasive BI:Biotite, 10% stringers CA:Calcite Veining, 5% pervasive CB:Carbonatization, 2% pervasive CH:Chlorite, 0.1% blebs CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0.1% blebs PY:Pyrite, 10% flooded QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0.1% flooded SI:Silicification/flooding	494.30 495.30	495.30 495.80	FE20274 FE20276	BVOL BVOL
		495.80 496.20 0% Nothing AS:Arsenopyrite, 5% banded BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 10% banded GT:Garnet, 5% banded GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0% Nothing PY:Pyrite, 30% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 10% flooded SI:Silicification/flooding *R: fe20275 blnk .05 ns nsl sharp upper contact*l*	495.80 496.20	496.20 497.20	FE20277 FE20278	4E 4E
498.30	517.85	Chert-grunerite-amphibole-garnet iron formation, 0% Nothing AS:Arsenopyrite, 10% banded BI:Biotite, 0% Nothing	498.30	499.00	FE20279	4EAF

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A002
		CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% pervasive CH:Chlorite, 0.1% blebs CP:Chalcopyrite, 25%	499.00	500.00	FE20281	4EA
		banded GT:Garnet, 30% banded GU:Grunerite, 10% bedded MT:Magnetite, 1% blebs PO:Pyrrhotite, 0% Nothing	500.00	501.00	FE20283	4EA
		PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 5% flooded SI:Silicification/flooding	501.00	502.00	FE20284	4EA
		R: unit composed of 74% "4ea" beds and 16% "4eaf" beds and 10% "4b" beds"l fe20280 duplicate of fe20279 1.16 ns nsl fe20282 standard 8.06 8.30 nsl				
		502.00 507.00 0% Nothing AS:Arsenopyrite, 10% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing	502.00	503.00	FE20285	4EA
		CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 25% banded GT:Garnet, 30% banded	503.00	504.00	FE20286	4EA
		GU:Grunerite, 5% bedded MT:Magnetite, 5% wispy PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb	504.00	505.00	FE20287	4EA
		Veining, 0% Nothing QZ:Quartz Veining, 15% flooded SI:Silicification/flooding	505.00	505.50	FE20288	4EA
		505.50 506.10 0% Nothing AS:Arsenopyrite, 10% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing	505.50	506.10	FE20289	BVOL
		CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing	506.10	507.00	FE20290	4EA
		GU:Grunerite, 0% Nothing MT:Magnetite, 1% stringers PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb	507.00	508.00	FE20291	4EA
		Veining, 0% Nothing QZ:Quartz Veining, 5% flooded SI:Silicification/flooding	508.00	509.00	FE20292	4EA
		R: fe20295 blnk .04 ns nsl fe20300 duplicate of fe20299 .03 ns nsl	509.00	510.00	FE20293	4EA
			510.00	511.00	FE20294	4EA
			511.00	512.00	FE20296	4EA
			512.00	513.00	FE20297	4EA
			513.00	514.00	FE20298	4EA
			514.00	514.80	FE20299	4EA
		514.80 517.85 0% Nothing AS:Arsenopyrite, 20% banded BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing	514.80	516.00	FE20301	4EAF
		CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 30% banded GT:Garnet, 25% banded	516.00	517.00	FE20302	4EAF
		GU:Grunerite, 1% disseminated MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing	517.00	517.85	FE20303	4EAF
		QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding				
		R: gradational upper contact"l				
517.85	518.30	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 50% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing	517.85	518.30	FE20304	4F
		CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 30% disseminated GT:Garnet, 5% banded				
		GU:Grunerite, 2% pervasive MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing				
		QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding				
518.30	526.40	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 10% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining,	518.30	519.30	FE20305	BVOL
		2% pervasive CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 0% Nothing GT:Garnet, 0%	*525.40*	526.40	FE20307	
		Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0% Nothing PO2:Pyrrhotite (not manditory,				
		0% Nothing PY:Pyrite, 2% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing				
		SI:Silicification/flooding				
		R: fe20306 standard iv 3.45 ns nsl				
526.40	534.60	Chert-grunerite-amphibole-garnet iron formation, 0% Nothing AS:Arsenopyrite, 30% banded BI:Biotite, 0% Nothing	526.40	527.00	FE20308	4EAF
		CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% pervasive CH:Chlorite, 0.1% blebs CP:Chalcopyrite, 30%	527.00	528.00	FE20309	4EAF
		banded GT:Garnet, 20% banded GU:Grunerite, 2% disseminated MT:Magnetite, 0.1% wispy PO:Pyrrhotite, 0.1% blebs	528.00	529.00	FE20310	4EAF
		PY:Pyrite, 0.1% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0.1% flooded SI:Silicification/flooding	529.00	530.00	FE20311	4EAF
		R: unit composed of 60% "4ea" beds and 40% "4f" beds" l sample includes bvol from 531.08 to 531.35 metres. fe20315	530.00	531.00	FE20312	4EAF
		blnk .03 ns nsl	531.00	532.00	FE20313	4EAF
			532.00	533.00	FE20314	4EAF
			533.00	534.00	FE20316	4EAF
			534.00	534.60	FE20317	4EAF
534.60	541.50	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 10% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining,	534.60	535.00	FE20318	BVOL
		2% pervasive CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 0% Nothing GT:Garnet, 0%	535.00	536.00	FE20319	BVOL
		Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0.1% wispy PO2:Pyrrhotite (not manditory,	536.00	537.00	FE20321	BVOL
		0.1% fracture filling PY:Pyrite, 1% stringers QC:Quartz-carb Veining, 10% veins QZ:Quartz Veining, 0.1% flooded	537.00	538.00	FE20322	BVOL

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A002
		SI:Silicification/flooding	538.00	539.00	FE20323	BVOL
		R: fe20320 duplicate of fe20319 .60 ns nsl 50 cm qv w/ tr wisps po and py contacts at 60 dca*l upper contact sharp**	539.00	540.00	FE20324	BVOL
			540.00	540.50	FE20325	BVOL
			540.50	541.00	FE20326	QV
			541.00	541.50	FE20327	BVOL
541.50	542.00	Garnet-biotite schist, 0% Nothing AS:Arsenopyrite, 30% disseminated BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 30% disseminated GT:Garnet, 1% disseminated GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 2% flooded SI:Silicification/flooding *R: fe20328 standard iv 3.90 ns nsl gradational upper contact*l*	541.50	542.00	FE20329	4F
542.00	543.75	Garnet-amphibole iron formation, 0% Nothing AS:Arsenopyrite, 5% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% pervasive CH:Chlorite, 0.1% wispy CP:Chalcopyrite, 10% glomeroporphyroblastic GT:Garnet, 0% Nothing GU:Grunerite, 1% disseminated MT:Magnetite, 3% wispy PO:Pyrrhotite, 0.1% fracture filling PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 18% flooded SI:Silicification/flooding *R: fg, grey and green with pink mcg garnets* lwmm* h 4-5* mod well bedded and relatively undeformed* ltuco 100% 4e*l gradational upper contact*l*	542.00	543.00	FE20330	4E
			543.00	543.75	FE20331	4E
543.75	579.80	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 5% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 1% pervasive CB:Carbonatization, 2% pervasive CH:Chlorite, 0.1% blebs CP:Chalcopyrite, 0.1% disseminated GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0.1% blebs PY:Pyrite, 3% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: a few thin interbedded 4ea beds totalling 15% with tr po*l fe20335 blnk .03 ns nsl sharp upper contact*l*	543.75	544.75	FE20332	BVOL
			576.00	577.00	FE20333	BVOL
			577.00	578.00	FE20334	BVOL
			578.00	579.00	FE20336	BVOL
			579.00	579.80	FE20337	BVOL
579.80	580.60	Chert-grunerite-amphibole-garnet iron formation, 0% Nothing AS:Arsenopyrite, 5% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% pervasive CH:Chlorite, 0.1% wispy CP:Chalcopyrite, 10% banded GT:Garnet, 10% banded GU:Grunerite, 5% disseminated MT:Magnetite, 2% wispy PO:Pyrrhotite, 0% Nothing PY:Pyrite, 2% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 5% flooded SI:Silicification/flooding *R: local good po content* no folding*l sharp upper contact*l*	579.80	580.60	FE20338	4EA
580.60	602.15	Mafic to intermediate volcanics, 0% Nothing AS:Arsenopyrite, 3% pervasive BI:Biotite, 0% Nothing CA:Calcite Veining, 2% pervasive CB:Carbonatization, 2% pervasive CH:Chlorite, 0.1% blebs CP:Chalcopyrite, 0% Nothing GT:Garnet, 0% Nothing GU:Grunerite, 0% Nothing MT:Magnetite, 0.1% blebs PO:Pyrrhotite, 0% Nothing PY:Pyrite, 3% stringers QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 0% Nothing SI:Silicification/flooding *R: fe20340 duplicate of fe20339 .03 ns nsl sharp upper contact*l*	580.60	581.60	FE20339	BVOL
			601.15	602.15	FE20341	BVOL
602.15	606.50	Chert-grunerite-amphibole-garnet iron formation, 0.1% blebs AS:Arsenopyrite, 30% banded BI:Biotite, 0% Nothing CA:Calcite Veining, 0% Nothing CB:Carbonatization, 2% pervasive CH:Chlorite, 0% Nothing CP:Chalcopyrite, 25% banded GT:Garnet, 15% banded GU:Grunerite, 2% disseminated MT:Magnetite, 0.1% wispy PO:Pyrrhotite, 0% Nothing PY:Pyrite, 0% Nothing QC:Quartz-carb Veining, 0% Nothing QZ:Quartz Veining, 2% flooded SI:Silicification/flooding *R: fmg* black, grey, yellow-green and pink* lwm with a h of 4* strongly banded with no folding* ltuco 50% 4ea beds, 40% 4f beds and 10% chert beds*l*	602.15	603.00	FE20342	4EAF
			603.00	604.00	FE20343	4EAF
			604.00	605.00	FE20344	4EAF
			605.00	606.00	FE20345	4EAF
			606.00	606.50	FE20346	4EAF
606.50	606.50	EOH				
606.50		** END OF HOLE **				

DDH: 506-785
SECTION: 9704.50N
EASTING: 8506.50E
ELEVATION: 5318.00 m
DIP: -50°
AZIMUTH: 228°
DATE STARTED: July 24, 1994
DATE FINISHED: July 27, 1994
DATE LOGGED: July 26, 1994
LENGTH: 161.0 m
DEPTH OF OVERBURDEN: 28.70 m
LOCATION: 249.8 m north and 74.7 m west to Post 2 of claim Pa 529840

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-785

Date: 19th Mar, 1996
Northing : 9704.50
Easting : 8506.50
Elevation : 5318.00
Hole Depth : 161.00

19

Project ID : 506E
Core Size : NQWL
Date Logged : 26JUL94
Logged By : BWB
Assisted by :

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	228.70	-50.00
28.60	228.70	-49.75
161.00	228.70	-50.00

Grid Azimuth: 317.95
Coord System:

Paul Brown

Drillers :
Drill date : JUL94
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	28.70	Overburden, 100							
28.70	31.40	Garnet-biotite schist, 100, 50% banded :Biotite, 30% porphyroblastic :Garnet, 5% banded :Magnetite, 1% microveins :Pyrrhotite, 2% flooded :Quartz Flooding *R: brown and grey fine grained, biotite garnet schist, 15 up to 2 cm wide quartz veins, magnetite in bands, garnet up to 5 mm. 1 % diss pyrrhotite.*	FE30350 FE30351	28.70 30.00	30.00 31.50	4F 4F	 BVOL	X 9	 1
31.40	33.10	Mafic to intermediate volcanics, 100, 10% disseminated :Biotite, 0.1% disseminated :Pyrrhotite, 1% microveins :Quartz-Carbonate Veining *R: fine grained green bvol, could be a later dyke as it display a very weak fabric. no biotite banding!*	FE30352	31.50	33.10	BVOL		X	
33.10	50.30	Garnet-biotite schist, 100, 50% banded :Biotite, 20% porphyroblastic :Garnet, 5% banded :Magnetite, 4% veins :Quartz-Carbonate Veining *R: fine to medium grained (garnet), mostly biotite garnet schist with 20 % contorted chert, magnetite bands.*	FE30353 FE30354 FE30355 FE30356 FE30357 FE30358 FE30359 FE30361 FE30362 FE30363 FE30364 FE30365 FE30366 FE30367 FE30368 FE30369 FE30370	33.10	50.30	4F		X	
50.30	50.90	Chert-grunerite-amphibole-garnet iron formation, 100, 20% banded :Biotite, 20% porphyroblastic :Garnet, 20% banded :Grunerite, 5% banded :Magnetite, 20% flooded :Quartz Flooding *R: contact zone with 4b, quartz flooded, pyrrhotite microveins biotite garnet bands.*	FE30371	50.30	50.90	4EA		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
50.90	102.90	chert-magnetite iron formation, 100, 10% banded :Biotite, 3% porphyroblastic :Garnet, 20% banded :Magnetite, 0.1% bedded :Pyrrhotite *R: banded, chert magnetite iron formation, grey to white, brown to black, locally chert beds are boudinaged, banding varies goes from 30 deg to about 5 deg an back to 80, from 59 to 85 m the dip is low. traces of pyrrhotite in chert two 3 cm wide quartz veins with trace of pyrrhotite, three bands of biotite garnet. small shear zone, quartz, biotite schist, pyrrhotite in microveins 02 % , shear zone. breccia zone with ne-sw fracture offsetting chert bands pyrrhotite in fractures between frgts. banding is flattening to 23 deg banded biotite garnet bands and chert. = 4f pyrrhotite occurs in fractures in chert, forming a stock- work, probably due to the flex of the chert bands, up to 2% pyrrhotite occurs in fractures in chert up to 1%, stck, pyrrhotite occurs in fractures on microfaults up to 1% brecciated, interval is disrupted, pyrrhotite still occurs in stckw, fractures, chert becomes white, calcedonic, still presents fracture in stck, texture, banding is 10 deg. pyr = 1-2% brecciated, biotite, garnet magnetite bands 1-2% pyr, in microveins, fracture filling, end of the flattening, banding is steepening again to 55 deg at 86 m, band chert-magnetite are one to three cm wide, pyrrhotite still in fract, chert bands mostly at 30 deg, band iron formation is deformed, brecciated, with quartz flooding or recrystallized chert? 1-2% pyrrhotite in microveins stockw, and frac, filling, banded iron formation bands are from one to three cm pyrrhotite in fract, and stockw, in some of the chert bands possible tight fold at 17 deg, with breccia pyrrhotite is in fracture filling in quartz veins up to 5 cm wide, banding at 36 deg, brecciated iron formation with massive pyrrhotite in breccia filling, three bands from 1 to 3 cm wide, quartz, biotite garnet schist, quartz could be recrystallized chert with pyrrhotite in fractures, small garnets in biotite bands, up to 2 mm, brecciated iron formation, frgts of banded chert, quartz flooding, biotite garnets, 4f bands. frgt are 1 cmm to 10 cm across, pyrrhotite occurs in fractures in the quartz assocciated with the arsenopyrite, chert, biotite garnet, quartz schist, some of the quartz veins could be recrystallized schist, bands are from one to 5 cm . two bands of quartz flooding, banded chert magnetite iron formation, one two cm wide vein cross cutting banding and flooding at low angle 10 deg, some pyrrhotite bands // to banding, banded chert magnetite iron formation, the bands are small, 5 mm to 3 cm., little boudinage and folding, breccia zone, frgts are 5 mm to 10 cm, pyrrhotite come in breccia filling with biotite, and also in fractures in the chert frgts, breccia zone, banding flattens to 20 deg, or rotated frgt, pyrrhotite in fracture or replacement in brecciated cherty bands are quartz vein , banding averages 1 cm wide, breccia zone with pyrrhotite in breccia filling, one 10 wide massive pyrrhotite vein, lower contact of mineralized 4b, sharp contact with bvol, breccia zones with some large frgts, up to 10 cm.*	FE30372	50.90	52.00	4B			X
			FE30373	52.00	55.00	4B			X
			FE30374						
			FE30375						
			FE30376	55.00	57.00	4B			X
			FE30377						
			FE30378	57.00	58.00	4B			X
			FE30379	58.00	60.00	4B			X
			FE30381						
			FE30382	60.00	63.00	4B			X
			FE30383						
			FE30384						
			FE30385	63.00	64.00	4B			X
			FE30386	64.00	67.00	4B			X
			FE30387						
			FE30388						
			FE30389	67.00	72.00	4B			X
			FE30390						
			FE30391						
			FE30392						
			FE30393						
			FE30394	72.00	77.00	4B			X
			FE30395						
			FE30396						
			FE30397						
			FE30398						
			FE30399	77.00	83.00	4B			X
			FE30401						
			FE30402						
			FE30403						
			FE30404						
			FE30405						
			FE30406	83.00	84.00	4B			X
			FE30407	84.00	87.00	4B			X
			FE30408						
			FE30409						
			FE30410	87.00	93.00	4B			X
			FE30411						
			FE30412						
			FE30413						
			FE30414						
			FE30415						
			FE30416	93.00	94.00	4B			X
			FE30417	94.00	95.00	4BF			X
			FE30418	95.00	96.00	4B			X
			FE30419	96.00	97.00	4BF			X
			FE30421	97.00	98.00	4B			X
			FE30422	98.00	99.00	4BF			X
			FE30423	99.00	100.00	4B			X

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			FE30424	100.00	101.00	4BF			X
			FE30425	101.00	102.00	4B			X
			FE30426	102.00	102.90	4B			X
102.90	161.00	Mafic to intermediate volcanics, 100. 0.1% microveins :Pyrrhotite, 10% veins :Quartz-Carbonate Veining *R: massive green fine grained bvol with some quartz carbonate veins, locally brown schistosite from biotite in shear zone one 10 cm wide quartz carbonate vein with blebs of pyrrhotite.*	FE30427	102.90	104.00	BVOL			X
			FE30428	136.00	137.20	QZVN			X
161.00		** END OF HOLE **							

DDH: 506-800
SECTION: 7702.20N
EASTING: 8747.00E
ELEVATION: 5304.30 m
DIP: -50°
AZIMUTH: 228.40°
DATE STARTED: August 19, 1994
DATE FINISHED: August 20, 1994
DATE LOGGED: August 21, 1994
LENGTH: 80.00 m
DEPTH OF OVERBURDEN: 18.10 m
LOCATION: 52.0 m south and 394.2 m east to Post 4 of cliam Pa 529877

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-800

Date: 19th Mar, 1996
Northing : 7702.20
Easting : 8747.00
Elevation : 5304.30
Hole Depth : 80.00

Drill Hole Survey Data

	Depth	Azimuth	Dip
	Collar	228.40	-50.00

Grid Azimuth: 317.95
Coord System:

Project ID : 506E
Core Size : NQ
Date Logged : 21AUG94
Logged By :
Assisted by :
Drillers :
Drill date : AUG94
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	18.10	Overburden, 100							
18.10	20.80	basalt, 100, 0.1% blebs :Arsenopyrite, 5% wispy :Biotite, 10% wispy :Chlorite, 5% fracture filling :Pyrrhotite, 30% veins :Quartz Veining *R: the rock is altered volcanics. it contains chlorite, biotite, po, quartz, carbonate. pervasive carbonate is associated with intense chloritization and quartz veining. po occurs as open space euhedral crystals and fine grained wisps. the sulfides are the matrix to a chlorite-quartz breccia. the sulfides are coarse and euhedral. they appear to have at least two generations a005 intervals inserted by cwpr. mar.5/96. intervals from: 18.1-20.8m, 20.8-64.2m, 64.2-67.2m.*	FE36601 FE36602 FE36603	18.10	20.80	2		X	
20.80	64.20	4b zebra type, 100, 0.1% blebs :Arsenopyrite, 2% wispy :Biotite, 1% pervasive :Carbonate, 10% wispy :Chlorite, 1% felty masses :Grunerite, 10% banded :Magnetite, 2% wispy :Pyrrhotite, 1% flooded :Quartz Flooding, 5% veins :Quartz Veining *R: quartz-sericite rock. the rock appears banded to distorted the quartz could be chert with iron staining or k-spar. banding is preserved with minor magnetite. po occurs as wisps and blebs. there is an increase locally in carbonate within the groundmass. the rock contains variable amounts of magnetite in bands and disseminated. the rock is competent and fractured. the sericite (or grunerite?) develops along bands. it is widely distributed flaky, yellow-green, with locally well developed crystal faces. area of minor garnet growth (<5 cm wide). the garnets are associated with chlorite rich areas within the 4bz and the volcanics. they appear to represent alter. the magnetite bands are not well developed. the amount varies from <1% to 20% in bands and disseminations. the 4bz becomes more magnetic down the hole. the sericite continues to develop along bands. inter-banded volcanics also exist. locally the texture is similar to the 2 volcanic units. the start of the hole has mineralized 2 volcanics and the highly altered rock (quartz-sericite) may be altered volcanics. however the rock becomes the chert magnetite rock further down hole. the yellow-green mineral in this section has well developed crystal faces. it appears to be a amphibole (hardness also this would likely be grunerite. garnets are also present within chlorite rich bands or within volcanic interbands. po stringers upto 1cm wide. mostly wispy to bleby po with minor py. rare asp. sericite gives a brown tone to the rock. the rock is soft <4. there appears to be sericite intergrown with grun. section of altered volcanics. garnets, chlorite and qtz po as wisp and blebs (<2%).*	FE36604 FE36605 FE36606 FE36607 FE36608 FE36609 FE36610 FE36611 FE36612 FE36613 FE36614 FE36615 FE36616 FE36617 FE36618 FE36619 FE36620 FE36621 FE36622 FE36623 FE36624 FE36625 FE36626 FE36627 FE36628	20.80	64.20	4BZ		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			FE36629						
			FE36630						
			FE36631						
			FE36632						
			FE36633						
			FE36634						
			FE36635						
			FE36636						
			FE36637						
			FE36638						
			FE36639						
			FE36640						
			FE36641						
			FE36642						
			FE36643						
			FE36644						
			FE36645						
			FE36646						
64.20	80.00	basalt, 100, 0.1% pervasive :Carbonate, 2% banded :Chlorite, 0.1% porphyroblastic :Garnet, 0.1% wispy :Pyrrhotite, 0.1% blebs :Pyrite, 4% veins :Quartz Veining	FE36647	64.20	67.20	2		X	
			FE36648						
			FE36649						
80.00		** END OF HOLE **							

DDH: 506-801
SECTION: 7701.20N
EASTING: 8928.60E
ELEVATION: 5303.20 m
DIP: -50°
AZIMUTH: 227°
DATE STARTED: August 21, 1994
DATE FINISHED: August 23, 1994
DATE LOGGED: August 22, 1994
LENGTH: 200.00 m
DEPTH OF OVERBURDEN: 7.10 m
LOCATION: 201.3 m south and 155.0 m west to Post 1 of claim Pa 529870

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-801

Date: 19th Mar, 1996
Northing : 7701.20
Easting : 8928.60
Elevation : 5303.20
Hole Depth : 200.00

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	227.00	-50.00
24.00	227.00	-48.00
200.00	227.00	-47.25

Grid Azimuth: 317.95
Coord System:

Paul Brown

Project ID : 506E
Core Size : NQ
Date Logged : 22AUG94
Logged By : GC
Assisted by :
Drillers :
Drill date : AUG94
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	7.10	Overburden, 100							
7.10	54.00	4b zebra type, 100, 5% pervasive :Carbonate, 1% banded :Chlorite, 5% felty masses :Grunerite, 40% banded :Magnetite, 1% wispy :Pyrrhotite, 1% veins :Quartz-Carbonate Veining, 4% veins :Quartz Veining *R: chert magnetite iron formation. well laminated to banded chert and magnetite. the chert layers differentially contain sericite and/or grunerite the magnetite bands appear to be unaffected by the grunerite alteration. sulfide mineralization is restricted to quartz veining or stringers of massive sulfide. the unit contains (24.5m) one area of >15% sulfide mineralization. chert-magnetite iron formation grunerite is developed along the margins of chert and with chert bands. chlorite is isolated to the volcanic inter bands. sericite is dispersed with the grunerite. quartz veins are rare but are associated with minor sulfide mineralization (blebs phyrrhotite). the i.f. is well laminated with finely banded mt. intense sericite occurs at the end of the hole. it is pervasive and produces a greenish, soapy rock. the sericite occurs also within discrete zones within the volcanics. the sericite alteration has started to develop in the last 2 or 3 holes associated with the sif. both within the iron formation and in the surrounding wallrocks. the following samples are altered 2 volcanics. sericite and biotite pervasive and in discreet zones. the sericite and grunerite increase at the contact with the iron formation.*	FE36650 FE36651 FE36652 FE36653 FE36654 FE36655 FE36656 FE36657 FE36658 FE36659 FE36660 FE36661 FE36662 FE36663 FE36664 FE36665 FE36666 FE36667 FE36668 FE36669 FE36670 FE36672 FE36673 FE36674 FE36675 FE36676 FE36677 FE36678 FE36679 FE36680 FE36681 FE36682 FE36683	7.10	54.00	4BZ			X

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			FE36684 FE36685 FE36686 FE36687 FE36688 FE36689 FE36690 FE36691 FE36693 FE36694 FE36695 FE36696 FE36697 FE36698 FE36699						
54.00	74.85	basalt, 100, 3% pervasive :Biotite, 0.1% pervasive :Carbonate, 3% pervasive :Chlorite, 0.1% wispy :Pyrrhotite, 4% veins :Quartz Veining *R: mafic volcanics. fine grained, green to green brown. biotite and sericite developed locally. sericite produces a brown-grey color and soapy feel to the rock. it is very fine grained. biotite occurs as coarser grains along foliation planes. locally the biotite is not axial planar and represent a stockwork type distribution. the biotite increases towards the iron formation down the hole.*	FE36700 FE36701 FE36702 FE36703 FE36704	54.00 70.00	58.00 71.00	2 2		X X	
74.85	93.80	4b zebra type, 80, 4% pervasive :Biotite, 2% pervasive :Carbonate, 2% banded :Chlorite, 1% porphyroblastic :Garnet, 10% felty masses :Grunerite, 0.1% wispy :Pyrrhotite, 2% veins :Quartz Veining *R: mafic volcanics interbanded with chert-magnetite (+/- sericite and grunerite). the contacts are sharp and irregular. in places the contacts appear to be a flow top breccia where fragments of the basalt are within the iron formation. piercement structures show that the volc. where less competent (into the i.f.; mullions into the volcanics). mineralization occurs as anastamosing stringers and blebs of po upto 2-3%. trace asp as blebs and cp as stringers an blebs. the mineraliztion is confined to a sulfide stock work at 83 m and other local concentrations. alteration occurs as sericite and biotite. sericite occurs within the iron formation along with grunerite. it is fine grained, yellow-green. it appears to be confined to the chert bands. the chert is ferruginous. it is similar to other previous holes testing the sif. biotite and chl occur within the 2 volcanics. small bands of biotite, garnet, and chlorite occur in the i.f. (81m). interbanded mafic volcanics and chert-magnetite i.f. the contacts are sharp and irregular with similar relationships as above. intense sericite and grunerite within the i.f. intense biotite alteration of the lower contact with the iron formation. minerlization occurs as blebs, wisps and sulfide breccias. po +/- cp with blebs of asp within a sulfide breccia (94m). ** the po in most of the hole thus far has been magnetic.*	FE36705 FE36706 FE36707 FE36708 FE36709 FE36710 FE36711 FE36712 FE36713 FE36715 FE36716 FE36717 FE36718 FE36719 FE36720 FE36721 FE36722 FE36723	74.85 87.95	86.70 93.80	4BZ 4BZ	2 2	8 8	2 2
93.80	200.00	basalt, 100, 0.1% blebs :Arsenopyrite, 1% pervasive :Biotite, 1% veins :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% blebs :Chalcopyrite, 0.1% porphyroblastic :Garnet, 0.1% wispy :Pyrrhotite, , 4% veins :Quartz-Carbonate Veining, 3% veins :Quartz Veining *R: mineralization within the 2 volcanics. mineralization as anastamosing stringers and breccias. section of mineralization between 98 and 102 m. consisting of upto 10 % sulfides. volcanics are intensely biotite altered within the mineralized section. bands of biotite-garnet similar to ore zone of t antiform. associated with quartz and quartz-carbonate veinlets over 110 - 113 m. some have*	FE36724 FE36725 FE36726 FE36727 FE36728 FE36729 FE36730	93.80	102.70	2		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
		bleached haloes. this section contains small bands of biotite and garnet. the bands are mineralized with po+cp+/-au. the 'veins' have alteration haloes of sericite or grunerite. the po is in blebs and wisps. the cp occurs as wisps and blebs. mineralization within each vein is approx. po1-3%; cp1-2; py 0.5-1.0%. the bands also contain chlorite and perhaps chloritoid. the mineralization is within a "sea" of unaltered volcanics which suggests that they are indeed epigenetic vein type structures. mafic volcanics. minor quartz and quartz-carbonate veining. minor po and cp along fractures, not sampled. the rock has mild to nil foliation. mafic volcanics. fine grained and coarser grained. there appears to be several different textures of volcanics suggesting different origins or compositions. there are cross-cutting biotite rich veinlets. the veinlet have a bleached halo (possibly amphibole). two samples have been taken for petrographic analysis to determine if it is veinlet biotite which has considerabl exploration implications. the veinlets are late and cross-cut the foliation. they do not appear to be folded or boudinaged.	FE36731						
			FE36732						
			FE36733						
			FE36734						
			FE36735						
			FE36737	112.00	112.40	2		X	
			FE36738	115.63	116.00	2		X	
			FE36739	116.50	116.53	2		X	
			FE36740	122.30	123.00	2		X	
200.00		** END OF HOLE **							

DDH: 506-806
SECTION: 7104.20N
EASTING: 9100.30E
ELEVATION: 5304.30 m
DIP: -50°
AZIMUTH: 48.40°
DATE STARTED: August 29, 1994
DATE FINISHED: August 30, 1994
DATE LOGGED: September 7, 1994
LENGTH: 101.00 m
DEPTH OF OVERBURDEN: 9.54 m
LOCATION: 168.6 m south and 30.5 m west to Post 1 of claim Pa 529876

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-806

Date: 19th Mar, 1996
Northing : 7104.20
Easting : 9100.30
Elevation : 5304.30
Hole Depth : 101.00

19

Project ID : 506E
Core Size : NQWL
Date Logged : 07SEP94
Logged By : BWB
Assisted by :

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	48.40	-50.00
9.00	48.40	-49.00
101.00	48.40	-50.00

Grid Azimuth: 317.95
Coord System:

Paul Brown

Drillers :
Drill date : SEP94
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	9.54	Overburden, 100							
9.54	35.10	basalt, 100, 1% blebs :Arsenopyrite, 1% blebs :Chalcopyrite, 1% blebs :Pyrrhotite, 4% veins :Quartz-Carbonate Veining *R: fine grained, dark green, mafic volcanic, non foliated to foliated, trace pyrrho., foln at 13 m 25 deg. 2 to 6 carb. v. per meter. foln. increases, at 35 deg. three cm wide, qtz. carb. vein, flat lying at 10 deg. anastomosing, granular, amphi. phenocrysts, dyklet? trace of pyrrh. weakly sheared c/t, 10 % biotite bands. 5% carb v. patches highly biotized, 30%, one cm wide qtz-carb vein with 5 % cp, 1% po and trace aspy boudinaged and dips 25 deg. medium grained, 70% amph in plag. matrix, probably flow, barren patches highly biotized, 40%. with 2% garnet and trace po & aspy. folded veins. one cm wide qtz v. with 1% cp and 1% po pink spar appearing with 5 mm w. qtz v.*	FE37073 FE37074 FE37075 FE37076 FE37077	22.00 22.50 23.50 26.00 26.40	22.50 23.50 24.00 26.40 26.75	2 2 2 2 2		X X X X X	
35.10	58.00	basalt, 100, 3% veins :Quartz-Carbonate Veining *R: medium to fine grained, dark green mafic volc. 60% anphilbole in plag. matrix. 5 cm qtz car v. with 3 % garnet. flat lying 10 deg, 2 cm wide qtz-carb. v. 3 cm wide biot. envelope. one to two , 3 mm w. qtz carb. v. per meter. foliation at 40 deg. 30 % biotite bands, folded, trace pyrrh. sheared, bio-crb schist. one 1 cm carb. v. with 2% diss po and 1% diss. cp. 2% garnet in biotite bands. 10 % hornb. phenocrists. massive fine grained mafic volcanic sheared, biotite carb schist. 30% biotite bands, 20% carb dyklets. one 1 cm wide, boudinaged, qtz-car vein with 3% po in fract a 1% cp. biotite alter'd basalt, bio. and qtz. v. are boudinaged. biotite carb. schist, trace pyrr. foln at 56 m 25 deg.*	FE37078 FE37079 FE37081	51.50 52.25 52.80	52.25 52.80 53.25	2 2 2		X X X	
58.00	69.30	basalt, 100, 2% veins :Quartz-Carbonate Veining *R: fine grained, massive, dark green mafic volcanic. 2-3 2 mm wide q-carb v. dipping at 15 deg. /meter.*							
69.30	101.00	basalt, 100, 1% veins :Quartz-Carbonate Veining *R: medium to fine grained, dark green mafic volc. carb-bio, 2 mm wide streaks on core, flat lying at 0 deg 2-3 2 mm wide qtz-carb v. per m. dipp 15 deg. one cm qtz v. with 1% po and 1% cp dip 15 deg. broken core, flat jointing at 10 deg. one 1 cm qtz-carb v. with trace po and cp, and one qtz k-spar v. two 5 cm wide bands of carb. altera. biotite altered medium grained . biotite occurs as patches then in banding between 100 to 101, nearing a structure.*	FE37082	77.60	78.00	2		X	
101.00		** END OF HOLE **							

DDH: 506-807
SECTION: 7003.10N
EASTING: 9124.50E
ELEVATION: 5303.80 m
DIP: -50°
AZIMUTH: 048.40°
DATE STARTED: August 30, 1994
DATE FINISHED: August 31, 1994
DATE LOGGED: September 5, 1994
LENGTH: 80.00 m
DEPTH OF OVERBURDEN: 10.70 m
LOCATION: 227.5 m south and 55.2 m east to Post 4 of claim Pa 529875

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-807

Date: 19th Mar, 1996
Northing : 7003.10
Easting : 9124.50
Elevation : 5303.80
Hole Depth : 80.00

19

Project ID : 506E
Core Size : NQWL
Date Logged : 05SEP94
Logged By : BWB
Assisted by :

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	48.40	-50.00
10.00	48.40	-48.00
80.00	48.40	-48.00

Grid Azimuth: 317.95
Coord System:

Paul Brown

Drillers :
Drill date : SEP94
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	RCCK A005	MIX1 A005	MIX2 A005
0.00	10.70	Overburden, 100							
10.70	18.20	basalt, 100, 2% veins :Calcite Veining *R: fine grained, dark green, massive volcanic, non foliated to moderately foliated. foln 16 m 35 deg. weakly sheared betwe en 15.9 m and 16.5 m with carbonate and biotite banding*							
18.20	31.00	basalt, 100, 2% veins :Calcite Veining *R: medium to fine grained, massive, dark green mafic volcanics overall 45% euhedral amphibole laths with 45 % interstitial qtz-plagioclase with 3% qtz-carb. veining subparallel to foliation. foln. 22.5 m, 45 deg., foln. at 30 m, 35 deg.*							
31.00	48.80	basalt, 100, 2% veins :Calcite Veining *R: fine grained, dark green, massive volcanic, non foliated to foliated. from 33-34 m. weak shear zone with biotite (chlo rite) bands, and white carb, amphibole, biotite, pyrrh, cp dyklets. 10 % white carbonate and biotite ater. dyklets, with pyrrh. and chalcopyrite. these dyklets are similar to carbonate veins, however, they are granular, with amphib. and bio. phenox. associated with weak biotite (chlorite) bands. these dyklets are folded, anamostasing and boudinaged. 5mm to 2 cm wide. 12 cm wide baren qtz v. dips at 30 deg. milk white, weakly foliated, 5 % white dyklets, one 2 mmdyklt. is vuggy with fine grained pyrrh. 40 % white dyklets, carb, amph., biot., garnets (up to one 3 % diss. pyrrh. and 1% diss. chalcopyrite. dyklts. are fo lded, anamastosing, and associated with qtz. v. k-spar, carb on late fract.*	FE37034 FE37032 FE37033	33.00 44.00 45.00	34.00 45.00 46.60	2 2 2		X X X	
48.80	64.80	basalt, 100, 0.1% disseminated :Pyrrhotite, 2% veins :Quartz-Carbonate Veining *R: fine to medium grained, dark green mafic volcanics. overal l 30 % biotite ,30 % euhedral amphibole with 40% interstit ial plagioclase with 2 % qtz. carb. veining. foln. at 58 m 30 deg. foliation flatend, to 15 deg at 61 m. 62.7 2 cm w. q. v.*							
64.80	80.00	basalt, 100, 3% veins :Quartz-Carbonate Veining *R: fine grained mafic volcanic. weak shear between 65.10 - 65.50, five 5 mm wide biotite bands, and carb. banding, proximal to flow c/t., foln. at 65.50 m 30 deg. 67-70, contorted, biotite (chlorite) bands. & carb v 10% 71.20 one 2 cm wide qtz. v. (barren) with 5 mm wide biotite-chlorite envelopes. foln. flattens to 10 deg. with 2 to 3 1 cm wide bio.- chlor bands.*							

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
80.00		** END OF HOLE **							

DDH: 506-813
SECTION: 8851.60N
EASTING: 8780.30E
ELEVATION: 5309.80 m
DIP: -50°
AZIMUTH: 048.40°
DATE STARTED: September 8, 1994
DATE FINISHED: September 9, 1994
DATE LOGGED: September 12, 1994
LENGTH: 101.00 m
DEPTH OF OVERBURDEN: 13.70 m
LOCATION: 48.6 m north and 108.8 m west to Post 2 of claim Pa 529845

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-813

Date: 19th Mar, 1996
Northing : 8851.60
Easting : 8780.30
Elevation : 5309.80
Hole Depth : 101.00

19

Project ID : 506E
Core Size : NQWL
Date Logged : 12SEP94
Logged By : BWB
Assisted by :

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	48.40	-50.00
14.00	48.40	-47.00
101.00	48.40	-46.00

Grid Azimuth: 317.95
Coord System:

Paul Brown

Drillers :
Drill date : SEP94
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	13.70	Overburden, 100							
13.70	23.00	chert-magnetite-, 100, 2% banded :Biotite, 10% banded :Carbonate, 11% blebs :Garnet, 30% banded :Magnetite *R: banded chert. magnetite carbonate iron formation. bands up to 2 cm wide. 3 mm wide carb envel. around chert. bedding from 35 to 15 deg. beige sericitic weak alter. of ch. bands weak foliation (shear plans) at 15 deg with dev. of bio/gt bands. graphitic chert-magn. (from beginning of hole). 3% bio-gt bands. 10 small biotite garnet bands.*	FE37185 FE37186 FE37187 FE37188 FE37189	13.70	23.00	4BC		X	
23.00	25.00	chert-magnetite-biotite, 100, 30% banded :Biotite, 5% pervasive :Carbonate, 10% porphyroblastic :Garnet, 40% banded :Magnetite, 1% microveins :Quartz-Carbonate Veining *R: banded chert magnetite with 30 % bio-gt bands.*	FE37190	23.00	25.00	4BF		X	
25.00	35.50	chert-magnetite iron formation, 100, 10% banded :Biotite, 5% porphyroblastic :Garnet, 30% banded :Magnetite, 1% microveins :Pyrrhotite *R: banded chert magnetite iron formation. 1 % po in fract. in chert. banded chert magnetite, dip at zero , gentle rolls., trace of po in qv in fract., and 5% biotite garnet bands. 10 cm wide shear breccia zone. 5 % po wisps, carb alter. contorted banding cleavage at 30 deg. 5% bi-gt bands, 5% p /c pervasive carb. one "z" fold at 34.70 m. 5 % light gree n epidote alter'd bands. contorted if, small bands of biotite-garnets.*	FE37191 FE37192 FE37193 FE37194 FE37195	25.00 27.00	27.00 35.50	4B 4B		X X	
35.50	38.00	basalt, 100, 30% banded :Biotite, 2% microveins :Calcite Veining *R: fine to medium grained mafic volcanic, 30 % biotite, in pla gioclase matrix, moderately foliated, at 30 deg.*	FE37196	35.50	38.00	2		X	
38.00	40.40	Garnet-biotite schist, 100, 50% bedded :Biotite, 30% porphyroblastic :Garnet, 20% banded :Magnetite *R: banded bio-gt-chert-magnetite if.80 biotite garnet bands, foliation at 25 deg., one "z" fold at 39 m. increase of che rt bands towards end of interval.*	FE37197	38.00	40.40	4F		X	
40.40	56.00	chert-magnetite-biotite, 100, 40% bedded :Biotite, 20% porphyroblastic :Garnet, 40% banded :Magnetite *R: banded chert magnetite, 40 % biotite garnet bands, bedding at 35 deg. bedding 45 deg. one "s" fold. bedding at 55 deg. chert bands are getting wider in place.*	FE37198 FE37199 FE37251 FE37252	40.40	56.00	4BF		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			FE37253 FE37254 FE37255 FE37256						
56.00	61.15	Garnet-biotite schist, 60, 30% banded :Biotite, 40% porphyroblastic :Garnet, 20% banded :Grunerite, 30% banded :Magnetite *R: poorly developed 4eaf. only 10 % grunerite may be more sim ilar to 4bf. garnets are up to 1 cm wide. in biotite bands.*	FE37257 FE37258 FE37259	56.00	61.15	4F	4BF	6	4
61.15	66.00	chert-magnetite iron formation, 100, 30% banded :Chlorite, 5% porphyroblastic :Garnet, 20% banded :Magnetite *R: banded chet magnetite, with black, soft. very chloritic ba nds. up to 20 cm wide. banding at 45 deg.*	FE37261 FE37262 FE37263	61.15	67.00	4B		X	
66.00	70.40	chert-magnetite-biotite, 100, 20% banded :Biotite, 10% banded :Chlorite, 10% porphyroblastic :Garnet, 20% banded :Magnetite *R: banded chert magnetite with 50% biotite garnet bands. and 68.30 - 68.60 mafic dykes, biotite alter'd.*	FE37264 FE37265	67.00	71.00	4BF		X	
70.40	75.00	chert-magnetite iron formation, 100, 0.3% microveins :Carbonate, 10% banded :Chlorite, 5% porphyroblastic :Garnet, 40% banded :Magnetite, 1% veins :Quartz Veining *R: chert magnetite iron formation, 30 % chloritic bands, some boudinaged chert bands, weak grunerite alter'n. 5% small ga rnets. banding at 40 deg. small shear zone with 3 cm wide boudinaged qtz v with chlor ite carb. banding.*	FE37266 FE37267	71.00	75.00	4B		X	
75.00	78.00	chert-magnetite-biotite, 100, 20% banded :Biotite, 10% banded :Carbonate, 20% banded :Chlorite, 10% porphyroblastic :Garnet, 5% banded :Grunerite, 30% banded :Magnetite *R: banded chert magnetite . 50 % biotite garnet beds, biotite bands contain 50% biotite, 20% gt. weak carb. and grunerite boudinaged chert bands, from 50 to 10 %, banding at 40 deg.*	FE37268 FE37269	75.00	79.00	4BF		X	
78.00	101.00	chert-magnetite iron formation, 100, 20% banded :Biotite, 10% banded :Chlorite, 10% porphyroblastic :Garnet, 30% banded :Magnetite, 3% microveins :Quartz-Carbonate Veining *R: chert magnetite biotite garnet iron formation 20 % biotite/ chlorite gt in place. very finely laminate chert-magnetite 1-2 mm wide. bedding at 40 deg. 4bf, 50 % biotite garnet beds. 2-3 cm wide bands of chert and biotite-garnets. s fold in chert. banding at 40 deg. finely laminated grey chert, black magn. biotite and gt. 4bf. 50 % f beds. sheared, boudinaged chert zones. 30 % f beds, magn. veins. sheared boudinaged 4bf. (40% f beds), more deformation in 4 bf, probably due to increase of biotite. banding at 45 deg . graphitic chert magnetite, blocky between 97.50 97.70m. s fold at 99 m., bedding at 40 deg boubinaged and folded 2-4 cm wide chert bands, with 20 % bands of chlorite garnet.*	FE37270 FE37271 FE37272 FE37273 FE37274 FE37275 FE37276 FE37277 FE37278 FE37279 FE37281	79.00	101.00	4B		X	
101.00		** END OF HOLE **							

DDH: 506-815
SECTION: 8554.60N
EASTING: 8662.10E
ELEVATION: 5307.40 m
DIP: -50°
AZIMUTH: 048.40°
DATE STARTED: September 11, 1994
DATE FINISHED: September 12, 1994
DATE LOGGED: September 17, 1994
LENGTH: 80.00 m
DEPTH OF OVERBURDEN: 9.40 m
LOCATION: 251.2 m south and 2.3 m west to Post 1 of claim Pa 529856

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-815

Date: 19th Mar, 1996
Northing : 8554.60
Easting : 8662.10
Elevation : 5307.40
Hole Depth : 80.00

19

Project ID : 506E
Core Size : NQWL
Date Logged : 17SEP94
Logged By : BWB
Assisted by :

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	48.40	-50.00
9.10	48.40	-50.50
80.00	48.40	-49.50

Grid Azimuth: 317.95
Coord System:

Paul Brown

Drillers :
Drill date : SEP94
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A0C1	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	9.40	Overburden, 100							
9.40	10.55	basalt, 100, 30% banded :Biotite, 10% banded :Chlorite, 2% microveins :Quartz-Carbonate Veining *R: foliated, sheared med gr. mafic volc. 30 % bio., 10% chlor. bands, color is banded brown green. fol is 55 deg.*	FE37383	9.40	10.55	2		X	
10.55	14.00	basalt, 100, 10% disseminated :Biotite, 5% disseminated :Chlorite, 0.1% disseminated :Pyrrhotite, 1% microveins :Quartz-Carbonate Veining *R: coarse to med grained mafic volc. 30% coarse amph. cristl's and bio. in plag. matrix. color is pale green with dark green amph. and brown bio as spots. foliated c/t, 5 cm wide carb. v.*	FE37384	10.55	11.00	2		X	
14.00	39.80	basalt, 100, 10% disseminated :Biotite, 10% disseminated :Chlorite, 2% microveins :Quartz-Carbonate Veining *R: 10 cm of broken core medium grained maf. volc. mostly massive, foliated in some intervals. weak shear zone, 30 % banded biotite alter'd area 10% o carb flood. and folded carb. v. weak shear zone, banded biotite , fol. at 50 deg.*	FE37385	23.00	24.00	2		X	
39.80	47.20	basalt, 100, 20% pervasive :Biotite, 10% pervasive :Chlorite, 2% microveins :Quartz-Carbonate Veining *R: fine grained, dark green, massive,mafic volc. gradationalc/ t from med. grained, mafic volv. fault zone, section of blocky core, fault appears to follow contact zone between flows, and also zone of carb, bio, ch lor., garnet altered zone (between 43.9 and 43.95 m). recovery is 91 % between 42 and 43 m, 75 % between 43 and 4 4 m, 100% between 44 and 45 m, 91% between 45 and 46 m, blocky core between 42.8 and 43.1, black, fine grained, chlorotized and biotite alter'd, 3 cm wide qtz carb. v. dip at 30 deg. brocken core, rqd 20%, chlor. ,biot. alter'd,*	FE37386 FE37387 FE37388 FE37389	42.50 43.80 45.00 46.00	43.80 45.00 46.00 47.20	2 2 2 2		X X X X	
47.20	59.00	basalt, 100, 3% microveins :Quartz-Carbonate Veining *R: med. grained mafic volcanic, mostly non foliated, locally qtz-carb v. and carb flooding, qtz carb flooding, veins are folded, .. chlorite, veins, sheared, fine grained, bio-chlor-carb. fol. 55 deg. four cm wide qtz. carb. vein, some black specks?*							
59.00	74.00	basalt, 100, 1% microveins :Quartz-Carbonate Veining *R: fine grained, green 30% dark green amphibole cristl's in plag. matrix. weak shearing 30% bio. bands, foliation at 45 deg,*							

From	To	Geology	SAMPLE A001	FROM A005	TO AC05	ROCK A005	ROCK AC05	MIX1 A005	MIX2 A005
74.00	80.00	basalt. 100. 20% banded :Biotite, 5% microveins :Chlorite, 2% microveins :Quartz-Carbonate Veining *R: gradual c/t with med. grained mafic volcanic weak shearing . increase in number of bio. bands. foliat. at 45 deg.*							
80.00		** END OF HOLE **							

DDH: 506-819
SECTION: 9050.30N
EASTING: 8724.80E
ELEVATION: 5307.00 m
DIP: -50°
AZIMUTH: 048.40°
DATE STARTED: September 15, 1994
DATE FINISHED: September 16, 1994
DATE LOGGED: September 20, 1994
LENGTH: 80.00 m
DEPTH OF OVERBURDEN: 14.00 m
LOCATION: 140.7 m north and 106.4 m east to Post 3 of claim Pa 529845

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-819

Date: 19th Mar, 1996
Northing : 9050.30
Easting : 8724.80
Elevation : 5307.00
Hole Depth : 80.00

19

Project ID : 506E
Core Size : NQWL
Date Logged : 20SEP94
Logged By : BWB
Assisted by :

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	48.40	-50.00
13.40	48.40	-50.00
80.00	48.40	-49.00

Grid Azimuth: 317.95
Coord System:

Drillers :
Drill date : SEP94
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	14.00	Overburden, 100							
14.00	15.70	Chert-grunerite-amphibole-garnet iron formation, 100, 20% banded :Biotite, 10% banded :Chlorite, 20% porphyroblastic :Garnet, 30% banded :Grunerite, 20% banded :Magnetite, 0.1% disseminated :Pyrrhotite, 2% microveins :Quartz Veining *R: banded garnet amphibole chert magnetite, banding at 60 deg.*	FE37451	14.00	15.70	4EA			X
15.70	20.30	Garnet-biotite-chert-magnetite schist, 100, 40% banded :Biotite, 1% pervasive :Chlorite, 30% porphyroblastic :Garnet, 10% banded :Grunerite, 20% banded :Magnetite, 2% flooded :Quartz Flooding *R: biotite garnet with 20 to 50% chert magnetite bands, folded 5 cm wide qtz flooding.*	FE37452 FE37453 FE37454 FE37455	15.70	20.30	4FB			X
20.30	20.80	Quartz Vein, 100, 5% banded :Biotite, 2% pervasive :Chlorite, 2% porphyroblastic :Garnet, 1% disseminated :Pyrrhotite *R: qtz flooded and qtz . in 4bf. dips at 20 deg.*	FE37456	20.30	20.80	QZVN			X
20.80	27.50	chert-magnetite-biotite, 100, 20% banded :Biotite, 10% banded :Chlorite, 15% porphyroblastic :Garnet, 10% banded :Grunerite, 20% banded :Magnetite, 1% disseminated :Pyrrhotite, 2% veins :Quartz-Carbonate Veining, 5% veins :Quartz Veining *R: chert magnetite with biotite garnet bands, 2 to 5 cm wide q tz v. 10 cm wide qtz. v. , flooding. bedding at 30 deg. 20% grunerite and 20 % chlorite, 24.7-25.0 m basalt biotit /gt bands. decrease in number of f bands*	FE37457 FE37458 FE37459 FE37461 FE37462 FE37463 FE37464	20.80	28.00	4BF			X
27.50	29.80	chert-magnetite iron formation, 100, 10% banded :Biotite, 5% porphyroblastic :Garnet, 20% banded :Magnetite, 0.1% fracture filling :Pyrite, 1% veins :Quartz-Carbonate Veining, 5% veins :Quartz Veining *R: banded chert magnetite 20% bio- gt bands, trace po and py in fract. in chert*	FE37465	28.00	29.80	4B			X
29.80	32.20	Chert-grunerite-amphibole-garnet iron formation, 100, 20% banded :Biotite, 2% microveins :Calcite Veining, 5% banded :Chlorite, 15% porphyroblastic :Garnet, 30% porphyroblastic :Grunerite, 20% banded :Magnetite *R: grunerite, chlorite rich 4ea, banding at 50 deg. increase in number of chert bands, up to 20%*	FE37466 FE37467	29.80	32.20	4EA			X

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
		towards end of interval.							
32.20	36.90	Garnet-biotite schist, 100, 40% banded :Biotite, 20% banded :Chlorite, 30% porphyroblastic :Garnet, 10% banded :Grunerite, 20% banded :Magnetite, 2% veins :Quartz-Carbonate Veining, 1% veins :Quartz Veining *R: up to 40% b bands, probably a 4bf, lower c/t.*	FE37468 FE37469 FE37470	32.20	36.90	4F		X	
36.90	44.00	chert-magnetite-, 100, 5% banded :Biotite, 30% pervasive :Carbonate, 2% porphyroblastic :Garnet, 5% banded :Grunerite, 20% banded :Magnetite, 5% flooded :Quartz Flooding, 5% veins :Quartz Veining *R: beige, white and grey carb. magn. chert, , banding at 45 de g. boudinaged chert bands. biotite garnet schist , 4f. qtz flooded, irregular c/t. brecciated in place, chert bands are laminated. boudinaged and brecciated qtz v. folded biotite garnet schist, with po lamination. 1 z fold.*	FE37471 FE37472 FE37473 FE37474	36.90	44.00	4BC		X	
44.00	46.00	chert-magnetite iron formation, 70, 3% pervasive :Carbonate, 2% porphyroblastic :Garnet, 20% banded :Magnetite, 2% laminated :Pyrrhotite, 1% fracture filling :Pyrite, 5% flooded :Quartz Flooding, 3% veins :Quartz Veining *R: banded chert magnetite, with graphitic bands containing up to 5% po in lamination, 45.6-45.7 10 cm wide, brecc. qtz v. with 5% po in bx filling.*	FE37475	44.00	46.00	4B	4H	7	3
46.00	46.30	4b zebra type, 100, 20% banded :Magnetite, 2% veins :Quartz Veining *R: zebra looking chert magnetite*	FE37476	46.00	46.30	4BZ		X	
46.30	80.00	Diorite, 100, 5% disseminated :Biotite, 1% veins :Pyrrhotite, 1% veins :Quartz Veining *R: fine gr. to med. gr. dior., sericitic in place, minor qtz veining, foliation at 30 deg in place. grey in color. 5 % elliptical qtz feldspar spots (phenocysts). 20% ser. 5% diss. magnetite , diorite is magnetic 5 cm w. qtz v at 20 deg.with po 2% po in fract and 2% py i n fract. sericitized section, whitish grey , porphyritic, 40% ser. 20% qtz. sheared, 30 % biotite banding, 10 % qtz-carb veins, white sericitized, 1% po in ser. veins, alteration or alter 'd felsic dyke.*	FE37477 FE37478	61.00 70.00	62.00 70.70	DIOR DIOR		X X	
80.00		** END OF HOLE **							

DDH: 506-822
SECTION: 9301.90N
EASTING: 8541E
ELEVATION: 5310.90 m
DIP: -50°
AZIMUTH: 048.40°
DATE STARTED: September 17, 1994
DATE FINISHED: September 18, 1994
DATE LOGGED: September 22, 1994
LENGTH: 83.50 m
DEPTH OF OVERBURDEN: 14.70 m
LOCATION: 146.0 m south and 195.9 m west to Post 1 of claim Pa 529844

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-822

Date. 19th Mar. 1996
Northing : 9301.90
Easting : 8541.90
Elevation : 5310.90
Hole Depth : 83.50

19

Project ID : 506E
Core Size : NQWL
Date Logged : 22SEP94
Logged By : BWB
Assisted by :

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	48.40	-50.00
16.00	48.40	-43.00
83.00	48.40	-38.75

Grid Azimuth: 317.95
Coord System:

Drillers :
Drill date : SEP94
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	14.70	Overburden. 100							
14.70	23.20	potassic basalt. 100. 30% disseminated :Biotite, 2% veins :Chlorite. 0.1% fracture filling :Pyrrhotite, 2% veins :Quartz-Carbonate Veining, 2% veins :Quartz Veining *R: green fine grained potassic mafic volcanic, qtz. carb. v.four cm wide, with chlor and bio. env. core is broken until 17.20 m. seven cm wide qtz car. v. with 1% diss. po. bio and chlor. envelope. finer grained, whitish green, with 20 % amphibole cristl.s getting med. gr. towards end of interval with increase of biotite bands towards c/t with i.f.*	FE37492 FE37493 FE37494 FE37495	14.70 19.00 21.00	19.00 21.00 23.25	3 3 3		X X X	
23.20	26.90	Breccia. 70. 20% pervasive :Carbonate, 10% banded :Magnetite. 10% breccia filled :Pyrrhotite, 10% flooded :Quartz Flooding, 20% veins :Quartz Veining *R: brecciated chert magnetite qtz veins and flooding, frgts ar e rounded, from 1 mm to 20 cm, and consist mostly of qtz an d chert. 10% po in breccia filling, carb is pervasive 10%. intense qtz breccia . frgts are rounded and elongated, up to 5 cm long, 20% po in breccia filloing. 4ea, 30% grunerite, 20% garnets, with 10% po in garnet sha dows, and in fract in qtz.10 % chlorite. brecciated zone up to 12 cm wide, dip at 20 deg. with up to 20% po in breccia filling. brecciated with laminated chert and qtz. frgts up to 10 cm long, beige laminated carb, in bx filling.*	FE37496 FE37497 FE37498 FE37499	23.25	26.90	BREC	4B	7	3
26.90	49.60	chert-magnetite iron formation, 100, 5% banded :Biotite, 2% pervasive :Carbonate, 3% banded :Chlorite, 3% porphyroblastic :Garnet, 30% banded :Magnetite, 1% fracture filling :Pyrrhotite, 0.1% bedded :Pyrite, 2% flooded :Quartz Flooding, 5% veins :Quartz Veining *R: grey to dark grey banded chert magnetite, 3% biotite garnet (f bands), bedding at 35 deg. one "z" fold at 27 m. 10% f bands. some cross cutting qtz carb. v. at 145 deg. one cross cutting 3 cm wide qtz v. with % gt, dip at 145 degr silicified sect with small cross cutting qtz. v., 1 cm wide massive po v. with blebs of py. // to massive mag netite, (1cm band). and a 2 cm wide qtz v. with 3% po in fr acts. graphitic, magnetic brecciated, with 5 % po in lamination. brecciated qtz flooded, greenish beige laminated qtz. frgts 1% po in fract. in qtz and 1% in laminations in grey graphi tic, magnetic band. 1% po in fract. in qtz. and chert. micro breccia zone. dips at 20 deg., around: 2% {o in lami nation and stockwork. silicified chert and qtz v. weakly magnetic. bedding at 0 to 20 deg. po in 2 cm wide qtz v. silicified white chert minor magnetic bands. 1% po in fract silicified, 2-3 generation of qtz v., some old oned in cher t frgst, a series of 1-2 cm of qtz v. are brecciating the chert magnetite i.f. 1% po in fract mostly perpendicular to banding and qtz v 1 % po in fract. in qrtz v. and in breccia filling 2% po in fract. in qtz and in chert. mostly white beige ondulation chert, with small (up to 1 c m magnetic beds).*	FE37501 FE37502 FE37503 FE37504 FE37505 FE37506 FE37507 FE37508 FE37509 FE37510 FE37511 FE37512 FE37513 FE37514 FE37515	26.90 30.00 32.00 35.00 37.00 40.00 41.00 43.00 44.00	30.00 32.00 35.00 37.00 40.00 41.00 43.00 44.00 49.60	4B 4B 4B 4B 4B 4B 4B 4B 4B		X X X X X X X X X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
		1 % po in lamination and 1% in fractures. irregular banding, large bands of magnetic, graphitic, with 1% po in laminations. po also in lamination in chert bands. forming locally a stockw. locally highly deformed like tooth paste. also some po in fract . chert.	FE37516 FE37517 FE37518 FE37519						
49.60	53.15	chert-magnetite-biotite, 100, 10% banded :Biotite, 10% pervasive :Carbonate, 5% porphyroblastic :Garnet, 3% envelopes :Grunerite, 30% banded :Magnetite, 0.1% disseminated :Pyrrhotite, 1% microveins :Quartz-Carbonate Veining, 3% pervasive :Quartz Flooding, 10% veins :Quartz Veining *R: banded, chert magnetite with 10 % f beds, 105 qtz flooding and veins associated with biot. and gts. in place. tr. po.*	FE37521 FE37522	49.60	53.15	4BF		X	
53.15	67.00	Garnet-biotite schist, 100, 70% banded :Biotite, 10% banded :Chlorite, 30% porphyroblastic :Garnet, 2% banded :Grunerite, 0.1% disseminated :Pyrrhotite *R: massive, banded biotite garnet schist, 10 % chloritic bands 10% chert bands in place.*	FE37523	55.00	57.00	4F		X	
67.00	70.35	basalt, 100, 30% pervasive :Biotite, 10% porphyroblastic :Garnet, 2% veins :Quartz-Carbonate Veining, , 7% veins :Quartz Veining *R: foliated dark green mafic volcanic, locally tuffaceous content increases (increase of biotite and garnet)*	FE37524 FE37525	67.00	70.35	2		X	
70.35	75.10	Garnet-biotite schist, 100, 70% banded :Biotite, 20% banded :Chlorite, 30% porphyroblastic :Garnet, 0.1% disseminated :Pyrrhotite							
75.10	76.00	chert-magnetite-biotite, 100, 20% banded :Biotite, 10% banded :Chlorite, 10% porphyroblastic :Garnet, 5% banded :Magnetite, 0.1% disseminated :Pyrrhotite *R: banded, biotite garnet chert, only 5% magnetite, folt'n at 30 deg.*	FE37526	75.10	76.00	4BF		X	
76.00	76.30	basalt, 100, 10% banded :Biotite, 5% microveins :Carbonate, 10% banded :Chlorite, 5% porphyroblastic :Garnet, 3% veins :Pyrite	FE37527	76.00	76.30	2		X	
76.30	77.50	chert-magnetite-biotite, 100, 20% banded :Biotite, 10% banded :Chlorite, 10% porphyroblastic :Garnet, 5% banded :Magnetite							
77.50	83.50	Garnet-biotite schist, 100, 20% banded :Biotite, 10% banded :Chlorite, 30% porphyroblastic :Garnet							
83.50		** END OF HOLE **							

DDH: 506-823
SECTION: 9302.00N
EASTING: 8341.50E
ELEVATION: 5318.30 m
DIP: -50°
AZIMUTH: 228.40°
DATE STARTED: September 19, 1994
DATE FINISHED: September 20, 1994
DATE LOGGED: September 23, 1994
LENGTH: 80.00 m
DEPTH OF OVERBURDEN: 10.30 m
LOCATION: 37.0 m north and 66.7 m east to Post 3 of claim Pa 529844

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-823

Date: 19th Mar. 1996
Northing : 9302.00
Easting : 8341.50
Elevation : 5318.30
Hole Depth : 80.00

19

Project ID : 506E
Core Size : NQWL
Date Logged : 23SEP94
Logged By : BWB
Assisted by :

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	228.40	-50.00
12.00	228.40	-53.75
80.00	228.40	-53.00

Grid Azimuth: 317.95
Coord System:

Drillers :
Drill date : JUL94
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	10.30	Overburden, 100							
10.30	22.25	basalt, 100, 1% microveins :Quartz-Carbonate Veining, 1% veins :Quartz Veining *R: massive dark green, mafic volcanic, 1% carb microveins, shear zone, at 30 deg., 30% bio., 20% carb. v. , 10% qtz vein with 1% diss. po. biotite carbonate banding.*	FE37528	17.00	19.00	2		X	
22.25	23.75	chert-magnetite iron formation, 100, 0.1% microveins :Arsenopyrite, 5% pervasive :Carbonate, 0.1% microveins :Chalcopyrite, 0% banded :Magnetite, 2% veins :Pyrrhotite, 10% veins :Quartz Veining *R: banded chert magnetite.three 2 cm wide qtz v. towards lower c/t, with po v. /blebs. 1% aspy in microv. and trace of cp.*	FE37529	22.75	23.75	4B		X	
23.75	45.55	basalt, 100, 20% disseminated :Biotite, 1% veins :Quartz-Carbonate Veining *R: medium grained, dark green mafic volcanic, % carb. microv. 30% amphibole and 20% biotite crystals.*							
45.55	48.00	chert-magnetite iron formation, 100, 20% banded :Magnetite, 20% flooded :Quartz Flooding, 20% veins :Quartz Veining *R: silicified, poorly bedded, beige chert with magnetic bands c/t at 30 deg.*	FE37530	45.55	48.00	4B		X	
48.00	48.60	basalt, 100, 1% microveins :Carbonate, 2% porphyroblastic :Garnet *R: massive dark green mafic volc., non foliated, one band of gt at lower c/t*	FE37531	48.00	48.60	2		X	
48.60	49.90	chert-magnetite iron formation, 100, 10% envelopes :Carbonate, 10% banded :Magnetite, 10% flooded :Quartz Flooding, 10% veins :Quartz Veining *R: silicified, laminated beige chert with 20 % qtz flooding width 10 % carb env.*	FE37532	48.60	49.90	4B		X	
49.90	52.10	4b zebra type, 100, 5% pervasive :Carbonate, 30% banded :Magnetite, 10% veins :Quartz Veining *R: banded beige white, chert magnetite i.f. bands are typicall y 1 m wide, zebra type, bedding at 70 deg. three 3 cm wide qtz v. at beginning of interval, with po in fract (2%)*	FE37533	49.90	52.10	4BZ		X	
52.10	56.00	Breccia, 100, 20% pervasive :Carbonate, 20% banded :Magnetite, 2% fracture filling :Pyrrhotite, 40% flooded :Quartz Flooding *R: brecciated, sheared, qtz flooded, 40% brecciated qtz floods , 2% po in fracts, qtz, 10% carb.*	FE37534 FE37535	52.10	56.00	BREC		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005	
		envelope around qtz. foln't at 35 deg.magnetic dark grey breccia filling. 20 cm wide transparent qtz. v. dip at 55 deg. 3% po in frac								
56.00	56.65	4b zebra type, 100, 30% banded :Magnetite, 1% microveins :Quartz-Carbonate Veining *R: zebra chert magnetite, bedding at 80 deg.*	FE37536	56.00	56.65	4BZ		X		
56.65	58.05	Breccia, 70, 20% pervasive :Carbonate, 30% breccia filled :Magnetite, 0.1% disseminated :Pyrrhotite, 10% flooded :Quartz Flooding, 5% veins :Quartz Veining *R: partly brecciated, folded, chert magnetite i.f.*	FE37537	56.65	58.05	BREC	4B	7	3	
58.05	58.35	basalt, 100, 0.1% disseminated :Pyrrhotite, 10% veins :Quartz-Carbonate Veining, 30% veins :Quartz Veining	FE37538	58.05	58.35	2		X		
58.35	58.60	chert-magnetite iron formation, 100, 30% banded :Magnetite *R: highly folded chert magnetite, possibly a "s" fold?*	FE37539	58.35	58.60	4B		X		
58.60	80.00	basalt, 100, 1% microveins :Quartz-Carbonate Veining *R: fine to medium grained mafic volcanic, mostly non foliated, biotite alter'e for 20 cm at upper c/y medium grained, 40% amphiboles crystls, increase of biotite content up to 20%, 5% cb vein.*	FE37541	78.00	80.00	2		X		
80.00		** END OF HOLE **								

DDH: 506-826
SECTION: 9513.10N
EASTING: 8258.40E
ELEVATION: 5318.40 m
DIP: -50°
AZIMUTH: 228.40°
DATE STARTED: September 21, 1994
DATE FINISHED: September 23, 1994
DATE LOGGED: September 25, 1994
LENGTH: 92.0 m
DEPTH OF OVERBURDEN: 13.10 m
LOCATION: 58.5 m south and 130.8 m west to claim Post 1 of Pa529843

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-826

Date: 12th Apr, 1996
Northing : 9513.10
Easting : 8258.40
Elevation : 5318.40
Hole Depth : 92.00

12

Project ID : 506E
Core Size : NQWL
Date Logged : 25SEP94
Logged By : BWB
Assisted by :

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	228.40	-50.00
12.80	228.40	-49.25
92.00	228.40	-48.50

Grid Azimuth: 317.95
Coord System:

Drillers :
Drill date : SEP94
Rig Type :
Drill Time :
Print Template : GTRAN004.FMT
Gtran Version : 3.6.0

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A005	MIX1 A005	ROCK A005	MIX2 A005
0.00	13.10	Overburden, 100							
13.10	20.40	basalt, 100, 5% pervasive :Carbonate, 5% banded :Chlorite, 3% porphyroblastic :Garnet, 1% veins :Pyrrhotite, 10% veins :Quartz-Carbonate Veining, 10% veins :Quartz Veining *R: fine grained mafic volcanic. dark green. 20 % silicified or qtz vein. 10% carbonate veins. breccia zone, silicified from 18 to 18.25 and carbonate in breccia filling. with chlor., garnet and 2% po.*	13.10 18.00	14.50 19.20	FE37591 FE37592	2 2	X X		
20.40	22.20	chert-magnetite iron formation, 100, 10% pervasive :Carbonate, 10% disseminated :Magnetite, 1% microveins :Pyrrhotite, 10% flooded :Quartz Flooding, 10% veins :Quartz Veining *R: poorly banded. 20 % pervasive carbonate. 10% disseminated mg. with silicified chert bands up to 30 cm wide 1% po .*	20.40	22.20	FE37593	4B	X		
22.20	22.90	basalt, 100, 2% microveins :Pyrrhotite, 10% veins :Quartz-Carbonate Veining, 10% flooded :Quartz Flooding *R: porphyritic mafic flow. silicified. carbonatized and foliat ed. 2% po.*	22.20	22.90	FE37594	2	X		
22.90	24.55	chert-magnetite iron formation, 100, 5% microveins :Calcite Veining, 30% banded :Magnetite *R: carbonatized. poorly banded chert magnetite i.f. large band s. up to 10 cm wide.5% carb. microveins .*	22.90	24.55	FE37595	4B	X		
24.55	26.15	4b zebra type, 100, 30% banded :Magnetite *R: banded chert magnetite. white beige black. bands are up to 1 cm wide. bedding 75 deg.*	24.55	26.15	FE37596	4BZ	X		
26.15	68.40	basalt, 100, 0.1% veins :Chalcopyrite, 0.1% veins :Pyrrhotite, 1% veins :Quartz-Carbonate Veining, 1% veins :Quartz Veining *R: coarse grained dark geen mafic flow. 30% amph. crystl's in plag. matrix. crystl's up to 5 mm wide. non foliated. fine r grained at contact with iron formation.1% qtz veins and 1 % qtz carb. veins. tr. po cp. foliated. biotite alter'd shear zone. one 1 cm wide qtz. v. tr. po and cp.*	53.50	54.50	FE37597	2	X		
68.40	70.30	chert-magnetite iron formation, 100, 30% banded :Magnetite, 5% veins :Quartz Veining *R: chert magnetite iron formation. white beige chert (weak ser icite alteration) irregular banding. qtz veins up to 4 cm w .trace po.*	68.40	70.30	FE37598	4B	X		
70.30	78.00	4b zebra type, 100, 10% pervasive :Carbonate, 30% banded :Magnetite, 0.1% fracture filling	70.30	72.00	FE37599	4BZ	X		

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A005	MIX1 A005	ROCK A005	MIX2 A005
		:Pyrrhotite, 3% veins :Quartz Veining *R: banded beige white grey chert magnetite iron formation. banding at 75 deg. cleavage fract. at 35 deg. increase of carbonate content towards lower c/t also some pink (k-spar_) silicified bands towards between 75.50 and and 76m. strongly silicified k-spar alter'd, (pinkish chert bands). 10% qtz flooding. trace po in qtz veins. carbonate altera tion with qtz flooding.*	72.00 74.00 76.00	74.00 76.00 78.00	FE37601 FE37602 FE37603				
78.00	81.00	Breccia, 100, 10% pervasive :Carbonate, 10% banded :Magnetite, 60% flooded :Quartz Flooding *R: brecciated, qtz flooded , chert magnetite iron formation, breccia is caused by the qtz intrusion, with 30% remaining k-spar alter'd and silicified and carbonatized chert frgts.*	78.00 79.50	79.50 81.00	FE37604 FE37605	BREC	X		
81.00	88.00	chert-magnetite iron formation, 100, 0.1% disseminated :Arsenopyrite, 5% pervasive :Carbonate, 20% banded :Magnetite, 1% fracture filling :Pyrrhotite, 10% flooded :Quartz Flooding, 10% veins :Quartz Veining *R: banded chert magnetite, 10% qtz flooding and 10 % qtz veins with carbonate envelopes.,dips 75 deg. 2 cm wide qtz vein with 5% disseminated arsenopyrite, trace po. increase of folding and boudinaged qtz veins. c/t with lower basalt. 20 % qtz flooding and veins 10% carb alteration. rotated chert magnetite bands.*	81.00 83.00 85.00 87.00	83.00 85.00 87.00 88.00	FE37606 FE37607 FE37608 FE37609	4B 4B 4B	X X X		
88.00	89.00	basalt, 100, 20% banded :Biotite, 10% banded :Chlorite, 5% veins :Quartz-Carbonate Veining, 10% flooded :Quartz Flooding *R: fined grained brownish green mafic volcanic, 10% qtz flooded, 20 % biotite banding and 10 % chlorite banding*	88.00	89.00	FE37610	2	X		
89.00	92.00	basalt, 100, 10% envelopes :Chlorite, 10% veins :Quartz-Carbonate Veining, 5% flooded :Quartz Flooding *R: irregular qtz carbonate vein, 5 cm wide?, dips at 10deg. green to whitish green , coarse grained mafic volcanic, 30% disseminated biotite towards end of interval and bleached. 30% amphibole, 30 % plagioclase.*	89.00 90.00	90.00 92.00	FE37611 FE37612	2	X		
92.00		** END OF HOLE **							

DDH: 506-832
SECTION: 10904.00N
EASTING: 8070.60E
ELEVATION: 5305.60 m
DIP: -50°
AZIMUTH: 048.40°
DATE STARTED: September 28, 1994
DATE FINISHED: September 29, 1994
DATE LOGGED: September 30, 1994
LENGTH: 92.00 m
DEPTH OF OVERBURDEN: 9.60 m
LOCATION: 113.7 m south and 112.6 m west to Post 1 of claim Pa 369749

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-832

Date: 19th Mar, 1996
Northing : 10904.00
Easting : 8070.60
Elevation : 5305.60
Hole Depth : 92.00

19

Project ID : 506E
Core Size : NQWL
Date Logged : 03SEP94
Logged By : BWB
Assisted by :

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	48.40	-50.00
9.70	48.40	-47.25
92.00	48.40	-47.00

Grid Azimuth: 317.95
Coord System:

Paul Brown

Drillers :
Drill date : SEP94
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	9.60	Overburden, 100							
9.60	71.20	basalt, 100, 20% banded :Biotite *R: mg basalt, medium grained, massive, pale greyish to green, u/m mg basalt composed of tremolite light green with 10% br own phlogopite as medium grained fibrous laths imparting a foliation at 60 deg. with < 5% qtz carb. vein subparallel to foliation.*							
71.20	75.44	Breccia, 70, 10% banded :Biotite, 5% pervasive :Carbonate, 2% pervasive :Chlorite, 5% porphyroblastic :Garnet, 3% disseminated :Magnetite, 10% breccia filled :Pyrrhotite, 40% flooded :Quartz Flooding, 5% veins :Quartz Veining *R: silicified, qtz flooded breccia, grunerite, garnet biotite alter'd sulphide facies i.f., highly folded, massive po vei ns up to 1 cm wide in fracts. in quartz, brecciated semi massive po in black fine grained chert, po in breccia filling (20%), graphitic*	FE37768 FE37769 FE37770 FE37771 FE37772	71.20 72.00 73.00 74.00 75.00	72.00 73.00 74.00 75.00 75.44	BREC QZVN 6N QZVN QZVN	4H 4H 4H	7 7 X 7 7	3 3 3 3
75.44	81.50	Sulphide facies iron formation, 100, 10% banded :Biotite, 10% pervasive :Carbonate, 2% banded :Chlorite, 3% porphyroblastic :Garnet, 5% laminated :Pyrrhotite, 10% flooded :Quartz Flooding *R: folded biotite garnet po veins, with carb. alteration, brec ciated with qtz carb. veins at lower c/t. black magnetic semi massive sulphide vein, probably black chert. brecciated with 20% po in breccia filling. magnet ic replaces 5% garnets. folded, vein dip 25 deg. folded chert magnetite po, 10 % biotite garnet bands. 10% pervasive carbonate. silicified folded 4h with 10 % f bands and a 2cm wide qtz vein. with a biotite garnet envelope, dips. 25 deg. massive pyrrhotite vein, dips 35 deg., 12 cm wide. silicified 4h lower c/t, one cm wide po vein with biotite garnet envelope. 10 cm of broken core at c/t.*	FE37773 FE37774 FE37775 FE37776 FE37777 FE37778 FE37779	75.44 76.50 77.60 78.70 79.82 80.50 81.00	76.50 77.60 78.70 79.82 80.50 81.00 81.50	4H 4H 4H 4H 4H 4H 4H		X X X X X X X	
81.50	87.40	chert-magnetite iron formation, 100, 6% banded :Biotite, 5% pervasive :Carbonate, 3% porphyroblastic :Garnet, 20% banded :Magnetite, 0.1% fracture filling :Pyrrhotite, 20% flooded :Quartz Flooding *R: banded chert magnetite sericite carbonate i.f., white beige (serecite) bands up to 5 cm wide. silicified and 10% qtz flooding. 84.40-84.60 biotite garnet bands up ro 3 cm wide*	FE37781 FE37782 FE37783	81.50	87.40	4B		X	
87.40	92.00	chert-magnetite iron formation, 70, 10% banded :Biotite, 10% banded :Chlorite, 5% porphyroblastic :Garnet, 20% banded :Magnetite, 1% fracture filling :Pyrrhotite, 20% flooded :Quartz Flooding *R: banded chert magnetite, 10% pervasive carbonate. grey and white qtz flooding bands, 40 cm wide one // and one cross cutting banding. 50 % biotite garnet bands and 30% qtz bands, and 30% qtz*	FE37784 FE37785 FE37786 FE37787	87.40 88.36 89.10 90.75	88.36 89.10 90.75 91.30	4B QZVN 4B 4B	4BF 4BF 4BF	7 X 7 7	3 3 3

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
		flooding, with carbonatized frgts. white qtz vein with 1 % po in fracts. 50 cm of qtz flooding, cross cutting banding. 1% po in frac ts., carbonatized frgts.							
92.00		** END OF HOLE **							

DDH: 506-850
SECTION: 11400.18N
EASTING: 8925.23E
ELEVATION: 5302.50 m
DIP: -70°
AZIMUTH: 228°
DATE STARTED: January 17, 1995
DATE FINISHED: January 29, 1995
DATE LOGGED: January 19, 1995
LENGTH: 713.00 m
DEPTH OF OVERBURDEN: 8.50 m
LOCATION: 219.6 m south and 162.0 m west to Post 1 of claim Pa 449150

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-850

Date: 3rd Apr, 1996
Northing : 11400.18
Easting : 8925.23
Elevation : 5302.50
Hole Depth : 713.00mt

Grid Azimuth: 317.95
Coord System:

Project ID : 506E
Core Size : NQ
Date Logged : 19JAN95
Logged By : MR
Assisted by :
Drillers :
Drill date : JAN95
Rig Type : 119
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.6.0

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	228.00	-70.00
2.97	228.00	-69.90
5.95	228.00	-69.80
8.92	228.00	-69.80
11.89	228.00	-69.70
14.87	228.00	-69.70
17.84	228.00	-69.60
20.82	228.00	-69.50
23.79	228.00	-69.40
26.76	228.00	-69.30
29.74	228.00	-69.20
32.71	228.00	-69.20
35.68	228.00	-69.20
38.66	228.00	-69.10
41.63	228.00	-69.00
44.61	228.00	-68.90
47.58	228.00	-68.80
50.55	228.00	-68.70
53.53	228.00	-68.60
56.50	228.00	-68.50
59.47	228.00	-68.40
62.45	228.00	-68.30
65.42	228.00	-68.20
68.39	228.00	-68.10
71.37	228.00	-68.00
74.34	228.00	-68.00
77.32	228.00	-68.00
80.29	228.00	-68.00
83.26	228.00	-68.00
86.24	228.00	-68.00
89.21	228.00	-68.00
92.18	228.00	-68.00
95.16	228.00	-68.00
98.13	228.00	-68.00
101.11	228.00	-68.00
104.08	228.00	-68.00
107.05	228.00	-68.00
110.03	228.00	-68.00
113.00	227.73	-68.00
115.97	227.73	-67.90
118.95	227.47	-67.90
121.92	227.47	-67.90
124.89	227.47	-67.70
127.87	227.47	-67.70
130.84	227.47	-67.70
133.82	227.73	-67.60

Depth	Azimuth	Dip
136.79	227.73	-67.60
139.76	227.99	-67.50
142.74	227.73	-67.50
145.71	227.73	-67.50
148.68	227.47	-67.40
151.66	227.21	-67.30
154.63	226.95	-67.30
157.61	226.95	-67.40
160.58	227.21	-67.30
163.55	226.70	-67.10
166.53	226.70	-67.10
169.50	226.70	-67.10
172.47	226.70	-67.00
175.45	226.70	-67.00
178.42	226.70	-67.00
181.39	226.44	-66.90
184.37	226.44	-66.90
187.34	226.19	-66.80
190.32	226.19	-66.80
193.29	225.93	-66.70
196.26	225.68	-66.60
199.24	225.43	-66.50
202.21	225.18	-66.50
205.18	224.93	-66.20
208.16	224.69	-66.20
211.13	224.44	-66.20
214.11	224.19	-66.20
217.08	224.19	-66.20
220.05	223.69	-66.20
223.03	223.69	-66.20
226.00	223.69	-66.10
228.97	223.45	-66.10
231.95	223.20	-66.10
234.92	223.20	-66.10
237.89	222.95	-66.10
240.87	222.71	-66.10
243.84	222.71	-66.10
246.82	222.46	-66.00
249.79	222.22	-65.90
252.76	222.22	-65.80
255.74	222.46	-65.80
258.71	222.46	-65.80
261.68	222.46	-65.70
264.66	222.46	-65.70
267.63	221.97	-65.70
270.61	221.97	-65.60
273.58	222.22	-65.50
276.55	222.46	-65.40
279.53	222.22	-65.30
282.50	221.98	-65.30
285.47	221.74	-65.30
288.45	221.74	-65.30
291.42	221.50	-65.30

Depth	Azimuth	Dip
294.39	221.50	-65.30
297.37	221.26	-65.20
300.34	221.02	-65.20
303.32	221.02	-65.20
306.29	221.02	-65.20
309.26	221.02	-65.20
312.24	221.26	-65.20
315.21	221.26	-65.20
318.18	221.02	-65.20
321.16	221.26	-65.10
324.13	221.26	-65.10
327.11	221.26	-65.10
330.08	221.26	-65.10
333.05	221.02	-65.00
336.03	221.02	-64.80
339.00	221.26	-64.70
341.97	221.26	-64.70
344.95	221.02	-64.60
347.92	221.02	-64.60
350.89	220.79	-64.60
353.87	220.56	-64.50
356.84	220.33	-64.50
359.82	220.33	-64.50
362.79	220.56	-64.40
365.76	220.56	-64.40
368.74	220.56	-64.40
371.71	220.33	-64.40
374.68	220.33	-64.10
377.66	220.33	-64.10
380.63	220.10	-64.00
383.61	219.87	-63.80
386.58	219.42	-63.60
389.55	219.20	-63.50
392.53	218.97	-63.50
395.50	218.75	-63.40
398.47	218.97	-63.30
401.45	218.97	-63.30
404.42	218.75	-63.30
407.39	218.75	-63.20
410.37	218.97	-63.10
413.34	218.97	-63.10
416.32	218.75	-63.10
419.29	218.53	-63.00
422.26	218.75	-62.80
425.24	218.97	-62.70
428.21	218.97	-62.70
431.18	218.75	-62.60
434.16	218.75	-62.50
437.13	218.53	-62.40
440.11	218.53	-62.20
443.08	218.53	-62.00
446.05	218.53	-61.90
449.03	218.53	-61.90

Placer Dome Canada

Depth	Azimuth	Dip
452.00	218.53	-61.90
454.97	218.53	-61.80
457.95	218.53	-61.80
460.92	218.53	-61.70
463.89	218.53	-61.70
466.87	218.53	-61.60
469.84	218.53	-61.60
472.82	218.53	-61.50
475.79	218.53	-61.40
478.76	218.53	-61.30
481.74	218.53	-61.30
484.71	218.33	-61.30
487.68	218.33	-61.30
490.66	218.12	-61.30
493.63	217.91	-61.30
496.61	217.91	-61.30
499.58	217.91	-61.30
502.55	217.91	-61.30
505.53	217.91	-61.30
508.50	217.91	-61.30
511.47	217.91	-61.30
514.45	218.12	-61.20
517.42	218.12	-61.10
520.39	218.12	-61.00
523.37	218.32	-60.90
526.34	218.32	-60.90
529.32	218.32	-60.80
532.29	218.32	-60.70
535.26	218.32	-60.60
538.24	218.32	-60.60
541.21	218.32	-60.60
544.18	218.32	-60.70
547.16	218.32	-60.80
550.13	218.32	-60.70
553.11	218.32	-60.70
556.08	218.32	-60.60
559.05	218.32	-60.50
562.03	218.32	-60.40
565.00	218.32	-60.30
567.97	218.32	-60.20
570.95	218.32	-60.00
573.92	218.32	-59.80
576.89	218.32	-59.60
579.87	218.12	-59.50
582.84	218.12	-59.30
585.82	217.93	-59.10
588.79	217.93	-59.00
591.76	217.74	-58.90
594.74	217.54	-58.80
597.71	217.54	-58.80
600.68	217.35	-58.70
603.66	217.35	-58.60
606.63	217.35	-58.50

Depth	Azimuth	Dip
609.61	217.35	-58.50
612.58	217.35	-58.50
615.55	217.16	-58.40
618.53	217.16	-58.40
621.50	217.16	-58.20
624.47	217.16	-58.20
627.45	217.16	-58.20
630.42	217.16	-58.20
633.39	217.16	-58.20
636.37	217.16	-58.20
639.34	217.16	-58.20
642.32	217.16	-58.20
645.29	217.16	-58.20
648.26	217.16	-58.20
651.24	217.16	-58.20
654.21	217.16	-58.20
657.18	217.16	-58.20
660.16	217.35	-58.10
663.13	217.54	-57.90
666.11	217.54	-57.70
669.08	217.54	-57.70
672.05	217.54	-57.70
675.03	217.54	-57.70
678.00	217.72	-57.60
680.97	217.72	-57.50
683.95	217.72	-57.40
686.92	217.72	-57.30
689.00	217.72	-57.20

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	8.50	Overburden, 100							
8.50	55.54	Mafic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 0.1% porphyroblastic :Garnet, 0.1% stringers :Pyrrhotite, 0.1% crystals :Pyrite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical bvol with garnet inclusions throughout unit 20% quartz chlorite flooding hematite chlorite sericite potasic alteration lower contact gradual at 19 dca* **********	D7101	17.00	18.00	BVOL			X
			D7103	18.00	19.00	BVOL			X
			D7104	19.00	20.00	BVOL			X
			D7105	20.00	21.00	BVOL			X
			D7106	21.00	22.00	BVOL			X
			D7107	54.00	55.00	BVOL			X
			D7108	55.00	55.54	BVOL			X
55.54	61.36	Garnet-amphibole iron formation, 100, 0.1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 10% laminated :Chlorite, 0.1% wispy :Chalcopyrite, 2% glomeroporphyroblastic :Garnet, 1% felty masses :Grunerite, 0.5% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 0.1% fracture filling :Pyrite, 0.1% stringers :Quartz-Carbonate Veining, 10% flooded :Quartz Flooding *R: hematite chlorite potasic sericite grunerite altered intraformational 4e/4a. highly silicios quartz flooded lower contact gradual at 21 dca* **********	D7109	55.54	56.00	4E			X
			D7110	56.00	57.00	4E			X
			D7111	57.00	58.00	4E			X
			D7112	58.00	59.00	4E			X
			D7113	59.00	60.00	4E			X
			D7114	60.00	61.36	4E			X
61.36	78.90	Mafic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 0.1% stringers :Quartz-Carbonate Veining,	D7116	61.36	62.00	BVOL			X
			D7117	78.00	78.90	BVOL			X

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005	
		0.1% flooded :Quartz Flooding *R: typical bvol lower contact sharp at 25 dca* **********								
78.90	80.05	Garnet-amphibole iron formation, 100, 5% bedded :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 5% bedded :Chlorite, 0.1% wispy :Chalcopyrite, 3% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% laminated :Magnetite, 0.3% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 1% flooded :Quartz Flooding *R: typical intraformational banding at 29 dca well banded lower contact gradual at 15 dca* **********	D7118	78.90	80.05	4E		X		
80.05	98.00	Mafic to intermediate volcanics, 100, 1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 1% pervasive :Chlorite, 0.1% glomeroporphyroblastic :Garnet, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding, 0.1% veins :Quartz Veining *R: typical bvol with minor 4e interbeds and qtz carb alteration interbedded 4e tr po upper and lower contact gradual at 11 and 10 dca interbedded 4e tr po upper and lower contact gradual at 31 and 32 dca qtz carb alteration lower contact gradual at 10 dca* **********	D7119 D7121	80.05 97.00	81.00 98.00	BVOL BVOL		X X		
98.00	99.18	Garnet-amphibole iron formation, 70, 5% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 5% pervasive :Chlorite, 10% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% laminated :Magnetite, 0.2% stringers :Pyrrhotite, 1% stringers :Quartz-Carbonate Veining, 5% flooded :Quartz Flooding *R: typical intraformational 4e with a fair amount of 4f quartz carb alteration at upper contact lower contact gradual at 8 dca* **********	D7122	98.00	99.18	4E	4F	7	3	
99.18	101.70	Mafic to intermediate volcanics, 100, 5% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 0.1% glomeroporphyroblastic :Garnet, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 5% flooded :Quartz Flooding *R: typical bvol with minor po in quartz flood trace garnets lower contact gradual at 10 dca* **********	D7124 D7125	99.18 101.00	101.00 101.70	BVOL BVOL		X X		
101.70	102.60	Garnet-amphibole iron formation, 100, 5% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 5% pervasive :Chlorite, 3% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 2% flooded :Quartz Flooding *R: another intraformational 4e lower contact gradual at 20 dca* **********	D7126	101.70	102.60	4E		X		
102.60	104.25	Mafic to intermediate volcanics, 100, 5% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 1% pervasive :Chlorite, 1% stringers :Quartz-Carbonate Veining *R: typical bvol with qtz carb stringers lower contact gradual at 20 dca* **********	D7127	102.60	104.25	BVOL		X		
104.25	105.38	Garnet-amphibole iron formation, 60, 0.1% crystals :Arsenopyrite, 5% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 5% pervasive :Chlorite, 3% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% laminated :Magnetite, 0.3% stringers :Pyrrhotite, 5% stringers :Quartz-Carbonate Veining, 30% flooded :Quartz Flooding *R: quartz carbonate quartz flooded altered 4e intraformational lower contact gradual at 18 dca* **********	D7128	104.25	105.38	4E	QCVN	6	4	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
105.38	138.14	Mafic to intermediate volcanics, 100, 5% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical bvol qtz carb alteration qtz carb alteration qtz carb chlorite qtz flooded alteration no vis sulphides biotite halo and increase in quartz carb stringers toward lower contact lower contact gradual at 15 dca* **********	D7129	105.38	107.00	BVOL		X	
			D7130	137.00	138.14	BVOL		X	
138.14	145.80	Garnet-amphibole iron formation, 90, 5% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 5% pervasive :Chlorite, 20% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 1% stringers :Quartz-Carbonate Veining, 1% flooded :Quartz Flooding *R: dark green intraformational 4e/4f lots of garnets but littl e biotite. quartz carb alteration at both contacts lower contact gradual at 7 dca* **********	D7131	138.14	139.00	4E	4F	9	1
			D7132	139.00	140.00	4E	4F	9	1
			D7133	140.00	141.00	4E	4F	9	1
			D7134	141.00	142.00	4E	4F	9	1
			D7136	142.00	143.00	4E	4F	9	1
			D7137	143.00	144.00	4E	4F	9	1
			D7138	144.00	145.00	4E	4F	9	1
			D7139	145.00	145.80	4E	4F	9	1
145.80	203.77	Mafic to intermediate volcanics, 100, 1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 0.1% glomeroporphyroblastic :Garnet, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding, 0.1% veins :Quartz Veining *R: typical bvol but with a 2cm quartz vein containing 7 specks of visible gold. quartz carb biotite chlorite bleached alteration 2 cm wide quartz vein with 7 spx vg, tr po and minor chlor alteration tr po, 3 cm qv, tr qtz carb stringers tr po, t.1 qzt carb, f.1 qtz fld qv upper and lower contact irregular at 137 and 167 dca qv upper contact sharp at 28 dca lower contact irregular at 36 dca broken core increase in garnet content lower contact gradual at 20 dca* **********	D7141	145.80	147.00	BVOL		X	
			D7142	147.00	148.00	BVOL		X	
			D7143	160.00	161.00	BVOL		X	
			D7145	161.00	162.00	BVOL		X	
			D7146	162.00	163.00	BVOL		X	
			D7147	163.00	164.00	BVOL		X	
			D7148	164.00	165.00	BVOL		X	
			D7149	165.00	166.00	BVOL		X	
			D7150	166.00	167.00	BVOL		X	
			D7151	187.00	188.00	BVOL		X	
			D7152	188.00	189.00	BVOL		X	
			D7153	189.00	190.00	BVOL		X	
			D7154	201.00	202.00	BVOL		X	
			D7156	202.00	203.00	BVOL		X	
			D7157	203.00	203.77	BVOL		X	
203.77	205.89	Garnet-biotite schist, 100, 20% laminated :Biotite, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 50% glomeroporphyroblastic :Garnet, 0.1% laminated :Magnetite, 0.2% stringers :Pyrrhotite *R: black pink 4f that is fairly typical lower contact gradual at 8 dca* **********	D7158	203.77	205.00	4F		X	
			D7159	205.00	205.89	4F		X	
205.89	206.76	Mafic to intermediate volcanics, 100, 1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 1% veins :Quartz Veining *R: interbedded bvol that is highly quartz carb altered lower contact gradual at 18 dca* **********	D7161	205.89	206.76	BVOL		X	
206.76	207.65	Garnet-biotite schist, 100, 20% laminated :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 0.1% wispy :Chalcopyrite, 50% glomeroporphyroblastic :Garnet, 0.1% laminated :Magnetite, 0.3% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 2% veins :Quartz Veining *R: typical black pink 4f with small quartz vein highly contorted lower contact gradual at 18 dca* **********	D7162	206.76	207.65	4F		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
207.65	210.62	Mafic to intermediate volcanics, 100, 1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 0.1% wispy :Chalcopyrite, 0.1% stringers :Pyrrhotite, 3% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: interbedded bvol that is highly quartz carb altered lower contact gradual at 16 dca* **********	D7163	207.65	209.00	BVOL			X
			D7164	209.00	210.62	BVOL			X
210.62	211.92	Garnet-biotite schist, 100, 20% laminated :Biotite, 0.1% fracture filling :Calcite Veining, 50% glomeroporphyroblastic :Garnet, 0.1% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 0.1% fracture filling :Pyrite, 0.1% stringers :Quartz-Carbonate Veining *R: contorted black pink 4f lower contact gradual at 25 dca* **********	D7166	210.62	211.92	4F			X
211.92	230.64	Mafic to intermediate volcanics, 100, 1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 0.1% glomeroporphyroblastic :Garnet, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical bvol with more quartz carb near upper contact garnets near lower contact lower contact gradual at 11 dca* **********	D7167	211.92	213.00	BVOL			X
			D7168	229.00	230.64	BVOL			X
			D7169						
230.64	236.28	Garnet-amphibole iron formation, 100, 5% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 10% pervasive :Chlorite, 10% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% laminated :Magnetite, 1% stringers :Pyrrhotite, 1% stringers :Quartz-Carbonate Veining, 10% flooded :Quartz Flooding *R: interbedded intraformational 4e between bvol and avol lots of quartz flooding near contact with avol lower contact gradual at 8 dca* **********	D7170	230.64	232.00	4E			X
			D7171	232.00	233.00	4E			X
			D7172	233.00	234.00	4E			X
			D7173	234.00	235.00	4E			X
			D7174	235.00	236.28	4E			X
236.28	256.42	Felsic to intermediate volcanics, 100, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical avolcanics grey silicious muscovite, with occasional hematite fracture fillings lower contact very gradual at 24 dca* **********	D7176	236.28	237.00	AVOL			X
			D7177	237.00	238.00	AVOL			X
			D7178	238.00	239.00	AVOL			X
			D7179	255.30	256.42	AVOL			X
256.42	263.77	Garnet-amphibole iron formation, 100, 5% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 5% pervasive :Chlorite, 10% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% laminated :Magnetite, 4% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 5% flooded :Quartz Flooding *R: intraformational 4e with lots of quartz flooding and po contorted lower contact gradual at 27 dca* **********	D7181	256.42	257.00	4E			X
			D7182	257.00	258.00	4E			X
			D7183	258.00	259.00	4E			X
			D7184	259.00	260.00	4E			X
			D7185	260.00	261.00	4E			X
			D7187	261.00	262.00	4E			X
			D7188	262.00	263.00	4E			X
			D7189	263.00	263.77	4E			X
263.77	443.28	Felsic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 0.1% glomeroporphyroblastic :Garnet, 0.1% fracture filling :Pyrrhotite, 0.1% fracture filling :Pyrite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical avol with occurances of hematite and sericite alteration throughout fractures in unit trace garnets and po still apparent from upper contact quartz flooding with 1% po stringers increase in tuffaceous <1mm plagioclase area of intense fracturing/faulting. dozens of calcite fracture fillings with hematite alteration. broken, blocky core possibly center of avol and high strain area fractures from 0 to 155 dca fractured core broken core broken blocky core 80 cm of lost core in this area loss of return quartz carbonate alteration marks the end of the deformatio n zone gradual increase in glomeroporphyroblastic garnets towards lower contact lower contact gradual at 29 dca* **********	D7190	263.77	265.00	AVOL			X
			D7191	265.00	266.00	AVOL			X
			D7192	266.00	267.00	AVOL			X
			D7193	267.00	268.00	AVOL			X
			D7194	268.00	269.00	AVOL			X
			D7196	269.00	270.00	AVOL			X
			D7197	384.00	385.00	AVOL			X
			D7198	385.00	386.00	AVOL			X
			D7199	386.00	387.00	AVOL			X
			D7201	387.00	388.00	AVOL			X
			D7202	388.00	389.00	AVOL			X
			D7203	389.00	390.00	AVOL			X

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			D7204	390.00	391.00	AVOL		X	
			D7205	391.00	392.00	AVOL		X	
			D7206	392.00	393.00	AVOL		X	
			D7208	393.00	394.00	AVOL		X	
			D7209	394.00	395.00	AVOL		X	
			D7210	395.00	396.00	AVOL		X	
			D7211	396.00	397.00	AVOL		X	
			D7212	397.00	398.00	AVOL		X	
			D7213	398.00	399.00	AVOL		X	
			D7214	399.00	400.00	AVOL		X	
			D7216	400.00	401.00	AVOL		X	
			D7217	401.00	402.00	AVOL		X	
			D7218	402.00	403.00	AVOL		X	
			D7219	403.00	404.00	AVOL		X	
			D7221	404.00	405.00	AVOL		X	
			D7222	405.00	406.00	AVOL		X	
			D7223	406.00	407.00	AVOL		X	
			D7224	407.00	408.00	AVOL		X	
			D7225	408.00	409.00	AVOL		X	
			D7226	409.00	410.00	AVOL		X	
			D7227	410.00	411.00	AVOL		X	
			D7229	411.00	412.00	AVOL		X	
			D7230	412.00	413.00	AVOL		X	
			D7231	441.00	442.00	AVOL		X	
			D7232	442.00	443.28	AVOL		X	
443.28	447.51	Felsic to intermediate volcanics, 90, 5% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 5% pervasive :Chlorite, 5% glomeroporphyroblastic :Garnet, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: a transitional unit as the avol grades into a 4f farther down hole. a gradual increase in garnets and amphibole lower contact gradual at 31 dca* **********	D7233	443.28	444.00	AVOL	4E	9	1
			D7234	444.00	445.00	AVOL	4E	9	1
			D7236	445.00	446.00	AVOL	4E	9	1
			D7237	446.00	447.51	AVOL	4E	9	1
447.51	457.01	Garnet-amphibole iron formation, 90, 10% laminated :Biotite, 0.1% fracture filling :Calcite Veining, 1% pervasive :Chlorite, 10% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: a gradational unit between tha avols and the 4f no visible sulphides core dropped from tube and redrilled. 1.8 m loss of core. core distorted and blocky lower contact gradual at 40 dca* **********	D7238	447.51	449.00	4E	4F	9	1
			D7239	449.00	452.00	4E	4F	9	1
			D7241	452.00	455.00	4E	4F	9	1
			D7242						
			D7243						
			D7244	455.00	456.00	4E	4F	9	1
			D7245	456.00	457.01	4E	4F	9	1
457.01	461.85	Felsic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 0.1% glomeroporphyroblastic :Garnet, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical avol possibly a limb of the previous avol unit lower contact gradual at 45 dca* **********	D7246	457.01	458.00	AVOL		X	
			D7247	458.00	459.00	AVOL		X	
			D7248	459.00	460.00	AVOL		X	
			D7250	460.00	461.00	AVOL		X	
			D7251	461.00	461.85	AVOL		X	
461.85	478.77	Garnet-biotite schist, 100, 40% laminated :Biotite, 1% pervasive :Chlorite, 30% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 0.1% fracture filling :Pyrite, 0.1% flooded :Quartz Flooding *R: typical 4f intraformation that caps the bvol following interbedded bvol contacts gradual at 39 and 40 dca lower contact gradual at 45 dca* **********	D7252	461.85	463.00	4F		X	
			D7253	463.00	464.00	4F		X	
			D7254	464.00	465.00	4F		X	
			D7256	465.00	466.00	4F		X	
			D7257	466.00	467.00	4F		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			D7258	467.00	468.00	4F		X	
			D7259	468.00	469.00	4F		X	
			D7262	469.00	470.00	4F		X	
			D7263	470.00	471.00	4F		X	
			D7264	471.00	472.00	4F		X	
			D7265	472.00	473.08	4F		X	
			D7266	473.08	474.00	4F	BVOL	8	2
			D7267	474.00	475.00	4F		X	
			D7268	475.00	476.00	4F		X	
			D7269	476.00	477.00	4F		X	
			D7270	477.00	478.00	4F		X	
			D7271	478.00	478.77	4F		X	
478.77	486.69	Garnet-amphibole iron formation, 80, 10% laminated :Biotite, 2% pervasive :Chlorite, 20% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% laminated :Magnetite, 0.2% stringers :Pyrrhotite, 0.1% flooded :Quartz Flooding *R: typical 4e/4f mix. high po content at start of unit is not related to quartz flooding. could this be a chill margin be tween the lower bvols/1 and the 4f above? lower contact very gradual at 50 dca*	D7272	478.77	480.00	4E	4F	8	2
			D7273	480.00	481.00	4E	4F	8	2
			D7274	481.00	482.00	4E	4F	8	2
			D7276	482.00	483.00	4E	4F	8	2
			D7277	483.00	484.00	4E	4F	8	2
			D7278	484.00	485.00	4E	4F	8	2
			D7279	485.00	486.00	4E	4F	8	2
			D7281	486.00	486.69	4E	4F	8	2
486.69	489.06	Mafic to intermediate volcanics, 100, 1% pervasive :Biotite, 0.1% pervasive :Chlorite, 0.1% porphyroblastic :Garnet, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: interbedded bvol with minor phenocrysts of garnets through- out unit. drk green and moderately hard non magnetic lower contact gradual at 50 dca*	D7283	486.69	488.00	BVOL		X	
			D7284	488.00	489.06	BVOL		X	
489.06	496.45	Garnet-biotite schist, 100, 40% laminated :Biotite, 0.1% pervasive :Chlorite, 30% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: 4f unit with tight clusters of hundreds of very small mm size garnets is this the result of coarsening upwards in a turbulant off shelf deep water environment? interbedded bvol very bleached, contorted biotite laminatio ns and quartz carb altered lower contact irregular at 86 dca*	D7285	489.06	490.00	4F		X	
			D7286	490.00	491.00	4F		X	
			D7287	491.00	492.00	4F		X	
			D7288	492.00	493.28	4F		X	
			D7289	493.28	493.77	BVOL		X	
			D7290	493.77	495.00	4F		X	
			D7291	495.00	496.45	4F		X	
496.45	508.00	1, 100, 0.2% pervasive :Chlorite *R: a homogeneous ultramafic unit 1 m. fine grained at the top and bottom of the unit sample sent in for whole rock and thin section sample sent in for whole rock and thin section lower contact gradual at 37 dca*	D7292	496.45	498.00	1		X	
			D7293	507.00	508.00	1		X	
508.00	512.73	Garnet-biotite schist, 80, 10% laminated :Biotite, 0.1% fracture filling :Calcite Veining, 10% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 0.1% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: intraformational 4f with 10% 4e and interbedded bvol quartz carb altered possible chill margin between ultramafics and bvols lower contact gradual at 32 dca*	D7294	508.00	509.00	4F	BVOL	9	1
			D7296	509.00	510.00	4F	4E	5	5
			D7297	510.00	511.25	4F	4E	5	5
			D7298	511.25	511.92	BVOL		X	
			D7299	511.92	512.73	4E	BVOL	9	1
512.73	519.06	Mafic to intermediate volcanics, 100, 1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Chlorite, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining,	D7301	512.73	514.00	BVOL		X	
			D7302	518.00	519.06	BVOL		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
		0.1% flooded :Quartz Flooding, 0.1% veins :Quartz Veining *R: typical bvol lower contact gradual at 39 dca* **********							
519.06	520.26	Garnet-amphibole iron formation, 100, 1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 1% pervasive :Chlorite, 5% glomeroporphyroblastic :Garnet, 1% felty masses :Grunerite, 5% stringers :Pyrrhotite, 1% stringers :Quartz-Carbonate Veining, 10% flooded :Quartz Flooding *R: intraformational 4e with some 4f at upper contact and qtz carb alteration at lower contact lower contact gradual at 22 dca* **********	D7304	519.06	520.26	4E		X	
520.26	529.82	Mafic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% pervasive :Chlorite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical bvol bleached intermediate to ultramafic appearance to core lower contact gradual at 27 dca* **********	D7305	520.26	521.00	BVOL		X	
			D7306	529.00	529.82	BVOL		X	
529.82	530.96	Garnet-amphibole iron formation, 100, 0.1% pervasive :Biotite, 5% pervasive :Chlorite, 1% glomeroporphyroblastic :Garnet, 1% stringers :Pyrrhotite, 2% stringers :Quartz-Carbonate Veining, 10% flooded :Quartz Flooding *R: intraformational alteration unit low amount of garnets lower contact gradual at 36 dca* **********	D7307	529.82	530.96	4E		X	
530.96	550.00	Mafic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical bvol lower contact gradual at 39 dca* **********	D7308	530.96	532.00	BVOL		X	
			D7309	549.00	550.00	BVOL		X	
550.00	552.74	Garnet-biotite schist, 80, 30% laminated :Biotite, 1% pervasive :Chlorite, 30% glomeroporphyroblastic :Garnet, 1% felty masses :Grunerite, 0.1% laminated :Magnetite, 0.1% stringers :Pyrrhotite *R: typical 4f cap with minor chert beds chill margin of 4e lower contact sharp at 39 dca* **********	D7310	550.00	551.00	4E		X	
			D7311	551.00	552.00	4F		X	
			D7312	552.00	552.74	4F		X	
552.74	566.50	Chert-grunerite-amphibole-garnet iron formation, 100, 0.1% crystals :Arsenopyrite, 0.1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 1% pervasive :Chlorite, 10% glomeroporphyroblastic :Garnet, 15% felty masses :Grunerite, 3% laminated :Magnetite, 0.5% stringers :Pyrrhotite, 4% flooded :Quartz Flooding *R: east side of 4ea "s" limb typical 4ea interbedded bvol upper and lower contact sharp at 21 and 39 dca lower contact sharp at 38 dca* **********	D7313	552.74	554.00	4EA		X	
			D7314	554.00	555.00	4EA		X	
			D7316	555.00	556.00	4EA		X	
			D7317	556.00	557.00	4EA		X	
			D7318	557.00	558.00	4EA		X	
			D7319	558.00	559.00	4EA		X	
			D7321	559.00	560.00	4EA		X	
			D7322	560.00	561.07	4EA		X	
			D7323	561.07	562.00	4EA	BVOL	8	2
			D7325	562.00	563.00	4EA		X	
			D7326	563.00	564.00	4EA		X	
			D7327	564.00	565.00	4EA		X	
			D7328	565.00	566.00	4EA		X	
			D7329	566.00	566.50	4EA		X	
566.50	573.74	chert-magnetite iron formation, 100, 0.1% pervasive :Biotite, 0.1% wispy :Chalcopyrite, 0.1% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 20% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 2% flooded :Quartz Flooding *R: well banded 4b with minor garnet intercalations contorted interbedded 4f bands lower contact gradual at 30 dca* **********	D7330	566.50	568.00	4B		X	
			D7331	568.00	569.00	4B		X	
			D7332	569.00	570.00	4B	4F	5	5
			D7333	570.00	571.00	4B		X	
			D7334	571.00	572.00	4B		X	
			D7336	572.00	573.00	4B		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			D7337	573.00	573.74	4B		X	
573.74	577.75	chert-magnetite iron formation, 80, 1% laminated :Biotite, 0.1% wispy :Chalcopyrite, 5% glomeroporphyroblastic :Garnet, 5% felty masses :Grunerite, 10% laminated :Magnetite, 0.5% stringers :Pyrrhotite, 2% flooded :Quartz Flooding *R: a 4b unit that is grading toward the lower 4ea unit contorted 4ea intermixed with 4b lower contact gradual at 41 dca* **********	D7338	573.74	575.00	4B	4EA	8	2
			D7339	575.00	576.00	4B	4EA	8	2
			D7341	576.00	577.00	4B	4EA	8	2
			D7342	577.00	577.75	4B	4EA	8	2
577.75	593.04	Chert-grunerite-amphibole-garnet iron formation, 90, 0.1% crystals :Arsenopyrite, 1% laminated :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Chlorite, 20% glomeroporphyroblastic :Garnet, 15% felty masses :Grunerite, 5% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 5% flooded :Quartz Flooding *R: a 4ea with 4b beds note arsenopyrite at end of unit lower contact gradual at 22 dca* **********	D7343	577.75	579.00	4EA	4B	9	1
			D7344	579.00	580.00	4EA	4B	9	1
			D7346	580.00	581.00	4EA	4B	9	1
			D7347	581.00	582.00	4EA	4B	9	1
			D7348	582.00	583.00	4EA	4B	9	1
			D7349	583.00	584.00	4EA	4B	9	1
			D7350	584.00	585.00	4EA	4B	9	1
			D7351	585.00	586.00	4EA	4B	9	1
			D7352	586.00	587.00	4EA	4B	9	1
			D7353	587.00	588.00	4EA	4B	9	1
			D7354	588.00	589.00	4EA	4B	9	1
			D7356	589.00	590.00	4EA	4B	9	1
			D7357	590.00	591.00	4EA	4B	9	1
			D7358	591.00	592.00	4EA	4B	9	1
			D7359	592.00	593.04	4EA	4B	9	1
593.04	594.78	chert-magnetite iron formation, 100, 0.1% pervasive :Biotite, 0.1% glomeroporphyroblastic :Garnet, 0.1% felty masses :Grunerite, 20% laminated :Magnetite *R: interbedded 4b limb broken blocky core lower contact gradual at 22 dca* **********	D7361	593.04	594.00	4B		X	
			D7362	594.00	594.78	4B		X	
594.78	636.22	Chert-grunerite-amphibole-garnet iron formation, 100, 0.1% crystals :Arsenopyrite, 1% laminated :Biotite, 0.1% fracture filling :Calcite Veining, 10% glomeroporphyroblastic :Garnet, 15% felty masses :Grunerite, 5% laminated :Magnetite, 1% stringers :Pyrrhotite, 0.1% fracture filling :Pyrite, 0.1% stringers :Quartz-Carbonate Veining, 1% flooded :Quartz Flooding *R: west limb of "s" very typical and nice mineralized zone amphibole dyke contacts gradual at 19 and 9 dca interbedded bvol contacts sharp at 22 and 30 dca note arsenopyrite at end of zone increase in 4f component lower contact sharp at 31 dca* **********	D7363	594.78	596.00	4EA		X	
			D7364	596.00	597.00	4EA		X	
			D7365	597.00	598.00	4EA		X	
			D7367	598.00	599.00	4EA		X	
			D7368	599.00	600.00	4EA		X	
			D7369	600.00	601.00	4EA		X	
			D7370	601.00	602.00	4EA		X	
			D7371	602.00	603.00	4EA		X	
			D7372	603.00	604.00	4EA		X	
			D7373	604.00	605.00	4EA		X	
			D7374	605.00	606.00	4EA		X	
			D7376	606.00	607.00	4EA		X	
			D7377	607.00	608.00	4EA		X	
			D7378	608.00	609.00	4EA		X	
			D7379	609.00	610.00	4EA		X	
			D7381	610.00	611.00	4EA		X	
			D7382	611.00	612.00	4EA		X	
			D7383	612.00	613.00	4EA		X	
			D7384	613.00	614.00	4EA		X	
			D7385	614.00	615.00	4EA		X	
			D7386	615.00	616.00	4EA		X	
			D7388	616.00	617.00	4EA		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			D7389	617.00	618.00	4EA		X	
			D7390	618.00	619.00	4EA		X	
			D7391	619.00	620.10	4EA		X	
			D7392	620.10	620.60	8		X	
			D7393	620.60	621.00	4EA		X	
			D7394	621.00	622.00	4EA		X	
			D7396	622.00	623.00	4EA		X	
			D7397	623.00	624.00	4EA		X	
			D7398	624.00	625.00	4EA		X	
			D7399	625.00	626.00	4EA		X	
			D7401	626.00	627.00	4EA		X	
			D7402	627.00	628.00	4EA		X	
			D7403	628.00	629.14	4EA		X	
			D7404	629.14	629.45	BVOL		X	
			D7405	629.45	630.00	4EA		X	
			D7406	630.00	631.00	4EA		X	
			D7407	631.00	632.00	4EA		X	
			D7409	632.00	633.00	4EA		X	
			D7410	633.00	634.00	4EA		X	
			D7411	634.00	635.00	4EA		X	
			D7412	635.00	636.22	4EA		X	
636.22	648.07	Mafic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical bvol blocky broken core quartz carb alteration near lower contact lower contact sharp at 50 dca* **********	D7413	636.22	637.00	BVOL		X	
			D7414	647.00	648.07	BVOL		X	
648.07	654.09	Chert-grunerite-amphibole-garnet iron formation, 60, 1% laminated :Biotite, 1% pervasive :Chlorite, 10% glomeroporphyroblastic :Garnet, 10% felty masses :Grunerite, 1% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 0.1% flooded :Quartz Flooding *R: contorted 4ea with 10% 4f beds possible chill margin between lower 4ea and bvol above interbedded bvol and 4e. broken blocky core. 20 cm. core loss lower contact sharp at 39 dca* **********	D7416	648.07	649.00	4EA	4E	6	3
			D7417	649.00	650.00	4EA	4E	6	3
			D7418	650.00	651.00	4EA	4E	6	3
			D7419	651.00	652.00	4EA	4E	6	3
			D7421	652.00	653.00	4EA	4E	6	3
			D7422	653.00	654.09	4EA	4E	6	3
654.09	655.60	Mafic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% pervasive :Chlorite *R: bvol limb lower contact sharp at 33 dca* **********	D7423	654.09	655.00	BVOL		X	
			D7424	655.00	655.60	BVOL		X	
655.60	663.79	Chert-grunerite-amphibole-garnet iron formation, 90, 5% laminated :Biotite, 0.1% fracture filling :Calcite Veining, 15% glomeroporphyroblastic :Garnet, 15% felty masses :Grunerite, 5% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 1% flooded :Quartz Flooding *R: "c" typical 4ea increase in 4f component 20 - 30% 4f lower contact gradual at 37 dca* **********	D7425	655.60	657.00	4EA		X	
			D7426	657.00	658.00	4EA		X	
			D7427	658.00	659.00	4EA		X	
			D7428	659.00	660.00	4EA	4F	8	2
			D7430	660.00	661.00	4EA	4F	7	3
			D7431	661.00	662.00	4EA	4F	8	2
			D7432	662.00	663.00	4EA	4F	9	1
			D7433	663.00	663.79	4EA		X	
663.79	673.88	Mafic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical bvol lower contact gradual at 35 dca* **********	D7434	663.79	665.00	BVOL		X	
			D7436	673.00	673.88	BVOL		X	
673.88	680.00	Chert-grunerite-amphibole-garnet iron formation, 60, 1% laminated :Biotite, 0.1% fracture filling	D7437	673.88	675.00	4EA	4E	6	4

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
		:Calcite Veining, 10% glomeroporphyroblastic :Garnet, 15% felty masses :Grunerite, 1% laminated :Magnetite, 0.3% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: non typical 4ea alot more amphibole than normal minimal amount of quartz flooding possible "t" limb increase in 4f component lower contact gradual at 48 dca*	D7438	675.00	676.00	4EA	4E	6	4
			D7439	676.00	677.00	4EA	4E	6	4
			D7442	677.00	678.00	4EA	4E	6	4
			D7443	678.00	679.00	4EA	4F	6	4
			D7444	679.00	680.00	4EA	4E	6	4
680.00	692.20	Mafic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical bvol with some calcit crystal fracture filling lower contact very gradual at 45 dca*	D7445	680.00	681.00	BVOL		X	
			D7446	687.00	688.00	BVOL		X	
			D7447	688.00	689.00	BVOL		X	
			D7448	689.00	690.00	BVOL		X	
			D7449	690.00	691.00	BVOL		X	
			D7450	691.00	692.20	BVOL		X	
692.20	695.61	Garnet-amphibole iron formation, 60, 0.1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 10% glomeroporphyroblastic :Garnet, 1% felty masses :Grunerite, 0.1% laminated :Magnetite, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: interbedded intraformational 4e and bvol units are changing constantly lots of quartz carb alteration interbedded bvol contacts gradual at 43 and 45 dca interbedded bvol contacts gradual at 47 and 49 dca lower contact gradual at 44 dca*	D7451	692.20	693.00	4E		X	
			D7452	693.00	694.04	4E		X	
			D7453	694.04	694.39	BVOL		X	
			D7454	694.39	694.92	4E		X	
			D7456	694.92	695.43	BVOL		X	
			D7457	695.43	695.61	4E		X	
695.61	699.46	Mafic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% pervasive :Chlorite, 0.1% stringers :Chalcopyrite, 0.1% glomeroporphyroblastic :Garnet, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical bvol but with some quartz carb alteration within unit with trace po in quartz flooding lower contact gradual at 51 dca*	D7458	695.61	696.00	BVOL		X	
			D7459	696.00	697.00	BVOL		X	
			D7461	697.00	698.00	BVOL		X	
			D7463	698.00	699.46	BVOL		X	
699.46	703.73	Garnet-amphibole iron formation, 60, 0.1% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 0.1% pervasive :Carbonate, 0.1% pervasive :Chlorite, 10% glomeroporphyroblastic :Garnet, 1% felty masses :Grunerite, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: intraformational 4e with interbedded bvol very similar to previous 4e unit interbedded bvol contacts gradual at 46 and 51 dca interbedded bvol contacts gradual at 51 and 40 dca lower contact gradual at 46 dca*	D7464	699.46	699.95	4E		X	
			D7465	699.95	700.42	BVOL		X	
			D7466	700.42	701.00	4E	BVOL	9	1
			D7467	701.00	702.00	4E		X	
			D7468	702.00	703.00	4E		X	
			D7469	703.00	703.73	4E		X	
703.73	713.00	Mafic to intermediate volcanics, 100, 0.1% pervasive :Biotite, 0.1% wispy :Chalcopyrite, 0.1% glomeroporphyroblastic :Garnet, 0.1% stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding *R: typical bvol eoh drilling history: 20 ft. stabilized core barrel used. lost return at 360 m. hole cemented with 35 bags volclay dutem plug set at 30.48 m. all casing except 10 ft. pulled*	D7470	703.73	705.00	BVOL		X	
713.00		** END OF HOLE **							

DDH: 506-865
SECTION: 9625.15N
EASTING: 8802.03E
ELEVATION: 5310.14 m
DIP: -56°
AZIMUTH: 086.05°
DATE STARTED: January 30, 1995
DATE FINISHED: February 2, 1995
DATE LOGGED: February 22, 1995
LENGTH: 122.00 m
DEPTH OF OVERBURDEN: 19.30 m
LOCATION: 44.4 m south and 242.7 m west to Post 1 of claim Pa 529839

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-865

Date: 19th Mar, 1996
Northing : 9625.15
Easting : 8802.03
Elevation : 5310.14
Hole Depth : 122.00mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	86.05	-56.00
23.00mt	86.05	-54.00
59.00mt	86.05	-52.50
101.00mt	86.05	-51.75
122.00mt	86.05	-50.50

Grid Azimuth: 317.95
Coord System:

Project ID : 506E
Core Size : NQ
Date Logged : 22FEB95
Logged By : HBL
Assisted by :
Drillers :
Drill date : JAN95
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	19.30	Overburden, 100 *R: all overburden.* **********							
19.30	30.86	Mafic to intermediate volcanics, 100, 2% pervasive :Biotite, 0.3% stringers :Calcite Veining, 10% pervasive :Chlorite, 0.1% wispy :Pyrrhotite, 1% stringers :Quartz-Carbonate Veining *R: bvol has a weak banded appearance with less than 5% 4e bands. small zone of 4e with 0.5% pyrrhotite as small stringers. possible micro-fault associated with stringers. 15% calcite-quartz flooding (mz-4).* **********	AA2001 AA2002 AA2003 AA2004 AA2006	23.46 24.59 25.43 29.38 30.22	24.59 25.43 26.31 30.22 30.86	BVOL BVOL BVOL BVOL BVOL	 4E 	X 9 X X X	 1
30.86	33.34	Chert-grunerite-amphibole-garnet iron formation, 80, 20% porphyroblastic :Garnet, 15% banded :Grunerite, 0.3% disseminated :Pyrrhotite, 1% flooded :Quartz Flooding, 3% stringers :Quartz Veining *R: some weak quartz flooding with slightly better than trace sulphides. also noted that garnets are coarse grained.* **********	AA2007 AA2008	30.86 32.00	32.00 33.34	4E 4EA	4EA 	7 X	3
33.34	45.90	Mafic to intermediate volcanics, 100, 15% banded :Biotite, 1% stringers :Calcite Veining, 25% pervasive :Chlorite, 0.1% speck(s) :Chalcopyrite, 1% disseminated :Pyrrhotite, 5% stringers :Quartz-Carbonate Veining *R: bvol has a banded texture. minor 4ea within interval. less than 5% 4e with coarse garnets.* **********	AA2009 AA2010 AA2011 AA2012 AA2013	33.34 41.70 42.90 43.59 44.77	34.30 42.90 43.59 44.77 45.90	BVOL BVOL 4EA BVOL BVOL	 BVOL 4E 	X X 8 9 X	 2 1
45.90	48.53	Garnet-amphibole iron formation, 90, 1% stringers :Calcite Veining, 1% fracture filling :Carbonate, 5% pervasive :Chlorite, 10% porphyroblastic :Garnet, 2% banded :Grunerite, 0.5% disseminated :Pyrrhotite, 0.1% blebs :Pyrite, 15% flooded :Quartz Flooding, 1% stringers :Quartz Veining *R: very coarse grained garnets. disseminated pyrrhotite with a few wisps and blebs.* **********	AA2014 AA2016 AA2017	45.90 47.00 47.85	47.00 47.85 48.53	4E 4E 4E	BVOL 	8 X X	2
48.53	55.47	Mafic to intermediate volcanics, 90, 5% pervasive :Biotite, 1% stringers :Calcite Veining, 5% pervasive :Chlorite, 0.1% wispy :Chalcopyrite, 5% porphyroblastic :Garnet, 0.5% wispy :Pyrrhotite, 10% stringers :Quartz-Carbonate Veining *R: bvol has a weak banded appearance going from brown to green (biotite to chlorite). approximately 10% 4e with coarse grained interstitial garnets. bvol has both biotitic and chloritic alteration banding with minor 4e. minor 4e with trace sulphides. duplicate of aa2019.* **********	AA2018 AA2019 AA2021 AA2022 AA2023	48.53 49.93 51.62 52.32 53.76	49.93 51.62 52.32 53.76 55.47	BVOL BVOL 4E BVOL BVOL	 BVOL 	X X 9 X X	 1

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
55.47	56.06	Chert-grunerite-amphibole-garnet iron formation, 100, 0.2% stringers :Calcite Veining, 10% porphyroblastic :Garnet, 2% banded :Grunerite, 1% disseminated :Pyrrhotite, 0.5% stringers :Quartz-Carbonate Veining, 25% flooded :Quartz Flooding, 1% stringers :Quartz Veining *R: banded weak 4ea unit with medium grained garnets and 1% disseminated pyrrhotite.* **********	AA2024	55.47	56.06	4EA		X	
56.06	58.11	Mafic to intermediate volcanics, 100, 20% pervasive :Biotite, 1% stringers :Calcite Veining, 5% pervasive :Chlorite, 5% stringers :Quartz-Carbonate Veining *R: bvol with strong biotite alteration.* **********	AA2026	56.06	58.11	BVOL		X	
58.11	59.77	Garnet-amphibole iron formation, 80, 5% banded :Biotite, 0.3% stringers :Calcite Veining, 10% porphyroblastic :Garnet, 0.1% blebs :Pyrrhotite, 1% stringers :Quartz-Carbonate Veining, 20% flooded :Quartz Flooding, 2% stringers :Quartz Veining *R: about 80% 4e and 20% 4f with trace sulphides and 20% floods about a 30 cm quartz vein.* **********	AA2027 AA2028	58.11 59.00	59.00 59.77	4E 4F	4F QZVN	8 6	2 4
59.77	60.97	Quartz Carbonate Vein, 100, 1% fracture filling :Chlorite *R: a 1.2 meter quartz vein with minor chlorite as fracture filling.* **********	AA2029	59.77	60.97	QCVN		X	
60.97	62.91	Mafic to intermediate volcanics, 100, 5% pervasive :Biotite, 1% stringers :Calcite Veining, 10% pervasive :Chlorite *R: has a weak banded appearance and small calcite stringers.* **********	AA2030 AA2031	60.97 62.00	62.00 62.91	BVOL BVOL		X X	
62.91	68.51	Garnet-biotite schist, 80, 25% pervasive :Biotite, 0.5% stringers :Calcite Veining, 2% pervasive :Chlorite, 25% porphyroblastic :Garnet, 0.1% banded :Grunerite, 0.5% blebs :Pyrrhotite *R: mostly 4f with 20% bvol and a small dyke. coarse grain garnets throughout section. small dyke about 20 cm wide with sharp contact with 4f. small 4ea banding carrying the sulphides as blebs. garnets become more spread out and range from medium to coarse grained.* **********	AA2032 AA2033 AA2034 AA2036 AA2037	62.91 64.10 65.20 66.05 67.23	64.10 65.20 66.05 67.23 68.51	4F 4F BVOL 4F 4F	8 4EA	X 8 9 X X	2 1
68.51	93.10	Mafic to intermediate volcanics, 100, 25% pervasive :Biotite, 5% veins :Calcite Veining, 10% pervasive :Chlorite, 0.1% wispy :Pyrrhotite, 15% veins :Quartz-Carbonate Veining, 0.5% veins :Quartz Veining *R: bvol unit which is moderate to strongly foliated at 30 dca. both boitite and chloritic alteration present throughout, with biotite being the stronger of the two. between 10 and 15% of the unit is veined or flooded with calcite- quartz and 0.5% quartz veining. trace pyrrhotite as wisps. duplicate of aa2039. approximately 20% has been flooded with calcite-quartz. trace amount of muscovite observed. a weakly banded appearance to bvol (biotite to chlorite). strong biotite with weak chlorite alteration. a few quartz fragments caught up in the calcite-quartz floods. generally massive and uniform interval. trace sulphides with 2% calcite-quartz floods. a few small quartz fragments within the floods. intense calcite-quartz flooding. duplicate of aa2059.* **********	AA2038 AA2039 AA2041 AA2042 AA2043 AA2044 AA2046 AA2047 AA2048 AA2049 AA2050 AA2051 AA2052 AA2053 AA2054 AA2056 AA2057	68.51 72.57 78.34 83.77 84.77 88.21	72.57 78.34 83.77 84.77 88.21 90.36	BVOL BVOL BVOL BVOL BVOL BVOL		X X X X X X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			AA2058	90.36	91.88	BVOL		X	
			AA2059	91.88	93.10	BVOL		X	
93.10	99.47	Garnet-biotite schist, 80, 25% banded :Biotite, 35% porphyroblastic :Garnet, 1% banded :Grunerite, 3% wispy :Pyrrhotite, 0.5% blebs :Pyrite, 1% stringers :Quartz-Carbonate Veining, 20% flooded :Quartz Flooding, 2% stringers :Quartz Veining	AA2061	93.10	93.75	4F		X	
			AA2062	93.75	94.57	4F		X	
			AA2063	94.57	95.76	4EA	4F	8	2
		R: approximately 80% 4f and 20% 4ea with minor amounts of 4e. garnets range from fine to coarse grained, gradually increasing in size towards bottom of interval. fine grained garnets and minor 4ea. milky white quartz vein. garnets fine to medium grain size. mostly coarse grained garnets. has a strong flooded appearance with 10% pyrrhotite. **********	AA2064	95.76	96.66	4F	4EA	6	4
			AA2065	96.66	97.64	4F	4EA	9	1
			AA2066	97.64	98.75	4F	4EA	9	1
			AA2068	98.75	99.47	4E	4EA	6	4
99.47	122.00	Mafic to intermediate volcanics, 100, 10% pervasive :Biotite, 0.5% stringers :Calcite Veining, 25% pervasive :Chlorite, 0.5% stringers :Pyrrhotite, 2% stringers :Quartz-Carbonate Veining	AA2069	102.06	102.77	BVOL		X	
			AA2070	102.77	103.39	BVOL		X	
		R: a light greenish grey colour, very fine grained with a weak banded appearance. sulphides are rare and occur where flooding is present. minor amount of 4e with trace pyrrhotite. approximately 10% pyrrhotite as stringers and blebs associated with quartz-carbonate flooding. strong biotite alteration with possible phlogopite. duplicate of aa2079. quartz-carbonate flood within bvol, also trace amounts of mica (phlogopite). **********	AA2071	103.39	104.66	BVOL		X	
			AA2072	110.00	110.54	BVOL		X	
			AA2073	110.54	111.04	BVOL		X	
			AA2074	111.04	111.71	BVOL		X	
			AA2076	115.38	116.00	BVOL		X	
			AA2077	116.00	116.40	BVOL		X	
			AA2078	116.40	117.05	BVOL		X	
			AA2079	119.90	120.78	BVOL		X	
			AA2081	120.78	121.47	BVOL		X	
			AA2082	121.47	122.00	BVOL		X	
122.00		** END OF HOLE **							

DDH: 506-870
SECTION: 9674.69N
EASTING: 8816.16E
ELEVATION: 5321.89 m
DIP: -62.5°
AZIMUTH: 090.05°
DATE STARTED: February 4, 1995
DATE FINISHED: February 6, 1995
DATE LOGGED: February 25, 1995
LENGTH: 119.00 m
DEPTH OF OVERBURDEN: 34.63 m
LOCATION: 93.6 m south and 207.3 m east to Post 4 of claim Pa 529839

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-870

Date: 19th Mar, 1996
Northing : 9674.69
Easting : 8816.16
Elevation : 5321.89
Hole Depth : 119.00mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	90.05	-62.50
38.00mt	90.05	-64.75
68.00mt	90.05	-64.25
113.00mt	90.05	-62.75

Grid Azimuth: 317.95
Coord System:

Project ID : 506E
Core Size : NQ
Date Logged : 25FEB95
Logged By : RKM
Assisted by :
Drillers : MIDW
Drill date : FEB95
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	34.63	CAS. 100 *R: bedrock at approx. at 34.61m*							
34.63	37.50	Garnet-biotite schist, 100, 50% banded :Biotite, 3% banded :Chlorite, 40% porphyroblastic :Garnet, 0.7% blebs :Pyrrhotite, 0.1% flooded :Quartz Flooding	D6023	34.63	36.00	4F		X	
			D6024	36.00	37.50	4E	4F	6	4
37.50	42.20	Chert-grunerite-amphibole-garnet iron formation, 50, 2% banded :Biotite, 0.1% fracture filling :Calcite Veining, 3% banded :Chlorite, 35% porphyroblastic :Garnet, 5% banded :Grunerite, 1% anastomosing stringers :Pyrrhotite, 0.1% stringers :Quartz-Carbonate Veining, 5% flooded :Quartz Flooding *R: 4f is also 2% bvol. 2% 4e. 4e is weakly gruneritized.*	D6025	37.50	38.22	BVOL		X	
			D6026	38.22	39.26	4EA	4E	9	1
			D6027	39.26	40.00	BVOL		X	
			D6028	40.00	41.22	4F	4E	8	2
			D6029	41.22	42.22	4EA		X	
42.20	52.80	Mafic to intermediate volcanics, 100, 10% pervasive :Biotite, 0.1% fracture filling :Calcite Veining, 60% pervasive :Chlorite, 3% veins :Quartz-Carbonate Veining	D6030	42.22	43.13	BVOL		X	
			D6031	51.50	52.80	BVOL		X	
52.80	56.74	Garnet-amphibole iron formation, 70, 15% banded :Biotite, 0.7% fracture filling :Calcite Veining, 40% banded :Chlorite, 40% porphyroblastic :Garnet, 0.5% banded :Grunerite, 1% Nothing :Pyrrhotite, 1% blebs :Pyrite, 3% flooded :Quartz Flooding	D6032	52.80	53.66	4F		X	
			D6033	53.66	55.24	4E		X	
			D6034	55.24	56.74	4E		X	
56.74	60.98	Garnet-biotite schist, 100, 50% banded :Biotite, 1% banded :Chlorite, 45% porphyroblastic :Garnet, 1% flooded :Quartz Flooding, 0% veins :Quartz Veining *R: duplicate of d6039.*	D6036	56.74	58.24	4F		X	
			D6037	58.24	59.75	4F		X	
			D6039	59.75	60.98	4F		X	
60.98	98.85	Mafic to intermediate volcanics, 100 *R: sample is also composed of 10% 4ea. bvol is pervasively carbonatized. garnets in the 4e are very coarse. locally, 4e bands. duplicate of d6059. locally massive portions with no mz4. 4e is poorly gruneritized and hosts po with floods.*	D6041	60.98	62.63	BVOL		X	
			D6042	62.63	63.30	4E	4F	5	5
			D6043	63.30	65.05	BVOL		X	
			D6045	65.05	65.87	BVOL		X	
			D6046	65.87	67.20	4EA	4F	5	5
			D6047	67.20	68.50	BVOL		X	
			D6048	68.50	69.60	4EA	BVOL	6	4
			D6049	69.60	70.60	BVOL		X	
			D6050	70.60	72.09	BVOL	4E	6	4
			D6051	72.09	74.00	BVOL		X	
			D6052	74.00	75.00	BVOL		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			D6053	75.00	76.45	BVOL		X	
			D6054	76.45	77.55	BVOL		X	
			D6056	77.55	79.04	4F	4E	6	4
			D6057	79.04	80.10	BVOL		X	
			D6058	80.10	81.63	BVOL		X	
			D6059	81.63	83.20	BVOL	8A	9	1
			D6061	83.20	84.20	BVOL		X	
			D6062	87.00	88.60	BVOL		X	
			D6063	88.60	91.40	BVOL		X	
			D6064						
			D6065	91.40	92.87	BVOL		X	
			D6066	92.87	94.35	BVOL		X	
			D6068	94.35	95.70	BVOL		X	
			D6069	95.70	96.84	BVOL	4E	7	3
			D6070	96.84	98.00	BVOL		X	
			D6071	98.00	98.85	BVOL		X	
98.85	101.11	Garnet-biotite schist, 90, 50% banded :Biotite, 5% banded :Chlorite, 45% porphyroblastic :Garnet, 2% blebs :Pyrrhotite, 0.5% stringers :Quartz-Carbonate Veining	D6072	98.85	100.00	4F		X	
			D6073	100.00	101.11	4F	4E	7	3
101.11	109.86	Mafic to intermediate volcanics, 90, 5% banded :Biotite, 0.5% veins :Calcite Veining, 60% pervasive :Chlorite, 4% porphyroblastic :Garnet, 1% blebs :Pyrrhotite, 3% veins :Quartz Veining *R: bands of chert? in bvol at uphole contact hosts po. duplicate of d6079.*	D6074	101.11	101.77	BVOL		X	
			D6076	101.77	102.50	4F	4E	8	2
			D6077	102.50	103.38	BVOL		X	
			D6078	103.38	105.07	4F		X	
			D6079	105.07	106.58	BVOL		X	
			D6081	106.58	107.93	BVOL		X	
			D6082	107.93	109.86	BVOL		X	
109.86	110.98	Garnet-amphibole iron formation, 100, 1% veins :Calcite Veining, 50% banded :Chlorite, 40% porphyroblastic :Garnet, 1% banded :Grunerite, 1% wispy :Pyrrhotite, 3% veins :Quartz Veining *R: 4e is weakly gruneritized. uphole contact banded with bvol.*	D6083	109.86	110.98	4E		X	
110.98	119.00	Mafic to intermediate volcanics, 100, 0.1% fracture filling :Calcite Veining, 70% pervasive :Chlorite, 0.5% microveins :Quartz-Carbonate Veining	D6084	110.98	113.00	BVOL		X	
			D6085						
119.00		** END OF HOLE **							

DDH: 506-895
SECTION: 7603.03N
EASTING: 9158.21E
ELEVATION: 5300.90 m
DIP: -50°
AZIMUTH: 227.90°
DATE STARTED: February 26, 1995
DATE FINISHED: February 28, 1995
DATE LOGGED: April 6, 1995
LENGTH: 181.93 m
DEPTH OF OVERBURDEN: 12.50 m
LOCATION: 120.4 m south and 81.3 m east to Poist 4 of claim Pa 529871

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-895

Date: 19th Mar, 1996
Northing : 7603.03
Easting : 9158.21
Elevation : 5300.90
Hole Depth : 181.93mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	227.90	-50.00
14.00mt	227.90	-49.00
89.00mt	227.90	-48.50
143.00mt	227.90	-48.25
181.90mt	227.90	-48.50

Grid Azimuth: 317.95
Coord System:

Paul Brown

Project ID : 506E
Core Size : NQ
Date Logged : 06APR95
Logged By : HBL
Assisted by :
Drillers :
Drill date :
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	12.50	Overburden, 100 *R:* **********							
12.50	14.30	Garnet-amphibole iron formation, 100, 2% banded :Biotite, 1% stringers :Calcite Veining, 5% porphyroblastic :Garnet, 0.1% banded :Grunerite, 4% banded :Magnetite, 0.1% blebs :Pyrrhotite, 0.1% blebs :Pyrite *R: banded 4e unit with fine to coarse grained garnets, minor amounts of grunerite and trace sulphides. section is highly fractured with orientations at various dca.* **********	AA2702	12.50	14.30	4E		X	
14.30	16.78	Garnet-biotite schist, 100, 35% banded :Biotite, 1% stringers :Calcite Veining, 0.1% speck(s) :Chlorite, , 5% porphyroblastic :Garnet, 0.1% banded :Grunerite *R: a 4f unit with minor amounts of grunerite and green amphibole (less than one percent) occurring as thin bands. garnets within section are generally fine grained. also noted a few narrow stringers of calcite and one small pod of k-felspar.* **********	AA2703 AA2704	14.30	16.78	4F		X	
16.78	18.96	Mafic to intermediate volcanics, 100, 25% pervasive :Biotite, 1% stringers :Calcite Veining *R: strong biotite altered bvol. foliated at approx. 60 dca. a minor amount of small quartz pods and calcite stringers.* **********	AA2705 AA2706	16.78	18.96	BVOL		X	
18.96	20.72	Garnet-biotite schist, 90, 35% banded :Biotite, 1% stringers :Calcite Veining, 0.1% blebs :Chalcopyrite, , 15% porphyroblastic :Garnet, 1% banded :Grunerite, 0.1% blebs :Pyrrhotite, 0.1% blebs :Pyrite *R: 4f with approx. 10% 4ea. trace amount of pyrrhotite. some folding observed within the 4ea orientated at 74 dca. garnets of variable sizes but mostly medium grained. most of the 4ea occurs below 20 metres. minor amounts of grunerite and green amphibole.* **********	AA2708 AA2709	18.96 20.00	20.00 20.72	4F 4F	 4EA	X 7	 3
20.72	25.60	Mafic to intermediate volcanics, 100, 1% pervasive :Biotite, 1% stringers :Calcite Veining, 15% pervasive :Chlorite, 0.1% blebs :Chalcopyrite, 0.1% blebs :Pyrrhotite, 1% stringers :Quartz-Carbonate Veining *R: light greenish colored bvol. pervasive chlorite throughout, with trace pyrrhotite and chalcopyrite occurring as blebs. approx. 1% fine stringers of calcite scattered throughout along with approx. 1% quartz-carb. occurring as stringers or veinlets.* **********	AA2710 AA2711 AA2712	20.72	25.60	BVOL		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005	
25.60	36.50	Mafic to intermediate volcanics, 100, 25% pervasive :Biotite, 2% stringers :Calcite Veining, 15% laminated :Carbonate, 5% patchy :Chlorite, 0.2% porphyroblastic :Garnet, 0.1% banded :Grunerite, 0.1% blebs :Pyrrhotite, 2% stringers :Quartz-Carbonate Veining, 2% stringers :Quartz Veining *R: brownish colour with a laminated appearance (between bio/ carb.). minor 4ea and 4f bands (total less than 1%). a few stringers or veinlets of quartz and quartz- carb.. not as tightly laminated as above sample intervals.* **********	AA2713 AA2714 AA2716 AA2717 AA2718 AA2719 AA2721	25.60 28.62 30.48	28.62 30.48 36.50	BVOL BVOL BVOL	4E	9 X X	1	
36.50	50.14	Chert-grunerite-amphibole-garnet iron formation, 100, 5% banded :Biotite, 1% stringers :Calcite Veining, 15% porphyroblastic :Garnet, 25% banded :Grunerite, 3% banded :Magnetite, 0.1% speck(s) :Pyrrhotite, 0.1% speck(s) :Pyrite, 2% stringers :Quartz-Carbonate Veining, 15% flooded :Quartz Flooding, 2% stringers :Quartz Veining *R: generally a tightly banded 4ea unit with minor amounts of other rock types included. some folding is observed but it is rare and orientated at approx. 60 dca. garnets range from fine to coarse grained but dominantly medium grained. trace py and po occurring as specks. intensity of the grunerite lessen towards the end of the section. grunerite becomes weak relative to above interval.* **********	AA2722 AA2723 AA2724 AA2725 AA2726 AA2727 AA2728 AA2729 AA2731 AA2732 AA2733	36.50 40.60 46.00 46.49 	40.60 46.00 46.49 50.14 	4EA 4EA 4EA 4EA 		X X X X 		
50.14	70.62	chert-magnetite iron formation, 100, 0.1% speck(s) :Arsenopyrite, 0.1% stringers :Calcite Veining, 20% banded :Carbonate, 35% banded :Magnetite, 0.1% blebs :Pyrrhotite, 0.1% blebs :Pyrite, 0.7% stringers :Quartz-Carbonate Veining, 1% flooded :Quartz Flooding, 0.2% stringers :Quartz Veining *R: coarsely crystalline, thickly banded mg-qz. unit has a strong carbonate component (possibly siderite). unit has minor quartz flooding and trace sulphides. two brecciated bands, approx. 2 cm wide, onentated at 74 and 160 dca possibly fault related. some minor folding noted.* **********	AA2734 AA2736 AA2737 AA2738 AA2739 AA2741 AA2742 AA2743 AA2744 AA2745 AA2746 AA2747 AA2748 AA2749	50.14 54.85 59.33 65.29 	54.85 59.33 65.29 70.62 	4B 4B 4B 4B 		X X X X 		
70.62	123.48	Mafic to intermediate volcanics, 100, 10% pervasive :Biotite, 0.1% stringers :Calcite Veining, 25% pervasive :Chlorite, 0.1% porphyroblastic :Garnet, 0.1% banded :Grunerite, 0.1% blebs :Pyrrhotite, 0.3% stringers :Quartz-Carbonate Veining, 1% flooded :Quartz Flooding, 1% stringers :Quartz Veining *R: pale light brown colour bvol unit with minor 4ea and avol (less than 1%). foliation is generally at 55 dca with both biotite and chlorite alteration. unit has a subtle banded appearance. trace sulphides (po + py). minor 4ea component with quartz flooding and pyrrhotite.* **********	AA2751 AA2752 AA2753 AA2754 AA2756 AA2757	70.62 85.41 86.30 87.16 87.84 122.36	72.06 86.30 87.16 87.84 89.42 123.48	BVOL BVOL BVOL 4EA BVOL BVOL	 AVOL 	X X X X 9 X	 1 	
123.48	132.08	chert-magnetite iron formation, 100, 0.1% blebs :Arsenopyrite, 0.3% stringers :Calcite Veining, 20% pervasive :Carbonate, 40% banded :Magnetite, 0.1% blebs :Pyrrhotite, 0.6% flooded :Quartz Flooding, . 1% flooded :Quartz Veining *R: fine to moderately laminated chert-mg-carbonate, carbonate is a light tanned colour. minor amount of quartz flooding. trace po and aspy associated with minor flooding.* **********	AA2758 AA2759 AA2761 AA2762 AA2763 AA2764	123.48 127.39 128.03	127.39 128.03 132.08	4B 4B 4B		X X X		

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	RCCK A005	MIX1 A005	MIX2 A005
			AA2765						
			AA2766						
			AA2767						
132.08	133.43	Mafic to intermediate volcanics, 100, 1% pervasive :Biotite, 25% pervasive :Chlorite, 1% stringers :Quartz-Carbonate Veining *R: chlorite altered bvol which is foliated at 49 dca.* **********	AA2768	132.08	133.43	BVOL			X
133.43	134.78	chert-magnetite iron formation, 100, 20% pervasive :Carbonate, 40% banded :Magnetite, 0.1% blebs :Pyrrhotite, 1% stringers :Quartz Veining *R: fine to moderately banded 4b with trace pyrrhotite and pervasive carb. (possibly siderite).* **********	AA2769	133.43	134.78	4B			X
134.78	135.84	Mafic to intermediate volcanics, 100, 1% pervasive :Biotite, 20% pervasive :Chlorite, 1% stringers :Quartz-Carbonate Veining *R: chlorite altered bvol with foliation at 54 dca.* **********	AA2771	134.78	135.84	BVOL			X
135.84	137.05	chert-magnetite iron formation, 100, 10% pervasive :Carbonate, 40% banded :Magnetite, 0.1% blebs :Pyrrhotite, 2% flooded :Quartz Flooding, 1% stringers :Quartz Veining *R: fine to moderately banded 4b with trace pyrrhotite and pervasive carb.* **********	AA2772	135.84	137.05	4B			X
137.05	181.93	Mafic to intermediate volcanics, 100, 3% pervasive :Biotite, 0.6% stringers :Calcite Veining, 20% pervasive :Chlorite, 0.1% blebs :Pyrrhotite, 0.1% blebs :Pyrite, 2% flooded :Quartz-Carbonate Veining *R: pale light green colour with foliation ranging from 40 to 55 dca. unit has a subtle banded appearance with minor quartz-carb. flooding and trace pyrrhotite.* **********	AA2773	137.05	139.32	BVOL			X
			AA2774	155.48	156.12	BVOL			X
			AA2776	163.68	165.14	BVOL			X
			AA2777	165.84	166.66	BVOL			X
			AA2778	167.46	168.43	BVOL			X
181.93		** END OF HOLE **							

DDH: 506-924
SECTION: 11503.84N
EASTING: 8025.96E
ELEVATION: 5305.20 m
DIP: -50°
AZIMUTH: 227.50°
DATE STARTED: March 18, 1995
DATE FINISHED: March 19, 1995
DATE LOGGED: May 5, 1995
LENGTH: 73.70 m
DEPTH OF OVERBURDEN: 10.40 m
LOCATION: 88.6 m north and 76.2 m west to Post 2 of claim Pa 369766

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-924

Date: 3rd Apr, 1996
Northing : 11503.84
Easting : 8025.96
Elevation : 5305.20
Hole Depth : 73.70mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	227.50	-50.00
73.70mt	227.50	-48.50

Grid Azimuth: 317.95
Coord System:

Project ID : 506E
Core Size : NQ
Date Logged : 05MAY95
Logged By : RML
Assisted by :
Drillers : MIDW
Drill date : MAR95
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	10.40	CAS, 100 *R: overburden encountered at 9.2m. teched core begins at 10.76* **********							
10.40	10.76	LOST, 100 *R:* **********							
10.76	31.31	chert-magnetite iron formation, 70, 8% banded :Biotite, 1% veins :Calcite Veining, 0.6% patchy :Carbonate, 3% banded :Chlorite, 8% disseminated :Garnet, 21% banded :Magnetite, 0.1% blebs :Pyrrhotite, 0.1% blebs :Pyrite, 5% veins :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding, 0.1% veins :Quartz Veining *R: two lamprophyre dykes occur in this interval, both under 10 cm, both cap a fine grained sediment/bvol. there also seems to be the presence of some 4e. the above sample contains lamprophyre dykes with a sediment package between the two small dykes at either ends* **********	AA6821	10.76	14.65	4B	4F	7	3
			AA6822						
			AA6823						
			AA6824	14.65	16.09	4B	4F	6	4
			AA6825	16.09	24.31	4B	4F	7	3
			AA6826						
			AA6827						
			AA6828						
			AA6829						
			AA6830						
			AA6831	24.31	25.14	8B		X	
			AA6832	25.14	31.31	4B	4F	7	3
			AA6833						
			AA6836						
			AA6837						
			AA6838						
31.31	69.00	chert-magnetite iron formation, 100, 3% blebs :Pyrrhotite, 2% blebs :Pyrite, 1% veins :Quartz-Carbonate Veining, 0.7% flooded :Quartz Flooding, 8% veins :Quartz Veining *R: some carbonate alteration present.* **********	AA6839	31.31	35.65	4B		X	
			AA6841						
			AA6842						
			AA6843						
			AA6844	35.65	41.40	4B		X	
			AA6845						
			AA6846						
			AA6847						
			AA6848						
			AA6849						
			AA6850	41.40	42.20	4B		X	
			AA6851	42.20	43.63	4B		X	
			AA6852	43.63	48.78	4B		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005	
			AA6853							
			AA6854							
			AA6857							
			AA6858	48.78	49.60	4B	4F	8		2
			AA6859	49.60	50.73	4B		X		
			AA6861	50.73	51.22	4B		X		
			AA6862	51.22	61.90	4B		X		
			AA6863							
			AA6864							
			AA6865							
			AA6866							
			AA6867							
			AA6868							
			AA6869							
			AA6870	61.90	68.00	4B		X		
			AA6871							
			AA6872							
			AA6873							
			AA6876							
			AA6877	68.00	69.00	4B		X		
69.00	71.48	1, 70, 0.3% blebs :Arsenopyrite, 3% Nothing :Pyrrhotite, 1% vein associated :Pyrite, 2% veins :Quartz-Carbonate Veining, 8% flooded :Quartz Flooding, 2% veins :Quartz Veining *R: this interval has lost most of its magnetic qualities, it d does maintain the last texture from the 4b, hence it may still be a partial 4b that has been modified. most of the po seems to be associated with fractures. flooding for the most part seems to be recrystallized chert.* **********	AA6878 AA6879 AA6881	69.00	71.48	4B		X		
71.48	73.70	1, 100, 1% veins :Calcite Veining, 2% veins :Quartz-Carbonate Veining *R: interval might be a 2vol.* **********	AA6882	71.48	72.30	1		X		
73.70		** END OF HOLE **								

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-924

Date: 3rd Apr, 1996
Northing : 11503.84
Easting : 8025.96
Elevation : 5305.20
Hole Depth : 73.70mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	227.50	-50.00
73.70mt	227.50	-48.50

Grid Azimuth: 317.95
Coord System:

Project ID : 506E
Core Size : NQ
Date Logged : 05MAY95
Logged By : RML
Assisted by :
Drillers : MIDW
Drill date : MAR95
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	10.40	CAS, 100 *R: overburden encountered at 9.2m. teched core begins at 10.76* **********							
10.40	10.76	LOST, 100 *R:* **********							
10.76	31.31	chert-magnetite iron formation, 70, 8% banded :Biotite, 1% veins :Calcite Veining, 0.6% patchy :Carbonate, 3% banded :Chlorite, 8% disseminated :Garnet, 21% banded :Magnetite, 0.1% blebs :Pyrrhotite, 0.1% blebs :Pyrite, 5% veins :Quartz-Carbonate Veining, 0.1% flooded :Quartz Flooding, 0.1% veins :Quartz Veining *R: two lamprophyre dykes occur in this interval, both under 10 cm, both cap a fine grained sediment/bvol. there also seems to be the presence of some 4e. the above sample contains lamprophyre dykes with a sediment package between the two small dykes at either ends* **********	AA6821	10.76	14.65	4B	4F	7	3
			AA6822						
			AA6823						
			AA6824	14.65	16.09	4B	4F	6	4
			AA6825	16.09	24.31	4B	4F	7	3
			AA6826						
			AA6827						
			AA6828						
			AA6829						
			AA6830						
			AA6831	24.31	25.14	8B		X	
			AA6832	25.14	31.31	4B	4F	7	3
			AA6833						
			AA6836						
			AA6837						
			AA6838						
31.31	69.00	chert-magnetite iron formation, 100, 3% blebs :Pyrrhotite, 2% blebs :Pyrite, 1% veins :Quartz-Carbonate Veining, 0.7% flooded :Quartz Flooding, 8% veins :Quartz Veining *R: some carbonate alteration present.* **********	AA6839	31.31	35.65	4B		X	
			AA6841						
			AA6842						
			AA6843						
			AA6844	35.65	41.40	4B		X	
			AA6845						
			AA6846						
			AA6847						
			AA6848						
			AA6849						
			AA6850	41.40	42.20	4B		X	
			AA6851	42.20	43.63	4B		X	
			AA6852	43.63	48.78	4B		X	

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			AA6853						
			AA6854						
			AA6857						
			AA6858	48.78	49.60	4B	4F	8	2
			AA6859	49.60	50.73	4B		X	
			AA6861	50.73	51.22	4B		X	
			AA6862	51.22	61.90	4B		X	
			AA6863						
			AA6864						
			AA6865						
			AA6866						
			AA6867						
			AA6868						
			AA6869						
			AA6870	61.90	68.00	4B		X	
			AA6871						
			AA6872						
			AA6873						
			AA6876						
			AA6877	68.00	69.00	4B		X	
69.00	71.48	1, 70, 0.3% blebs :Arsenopyrite, 3% Nothing :Pyrrhotite, 1% vein associated :Pyrite, 2% veins :Quartz-Carbonate Veining, 8% flooded :Quartz Flooding, 2% veins :Quartz Veining *R: this interval has lost most of its magnetic qualities, it d does maintain the last texture from the 4b, hence it may still be a partial 4b that has been modified. most of the po seems to be associated with fractures. flooding for the most part seems to be recrystallized chert.* **********	AA6878 AA6879 AA6881	69.00	71.48	4B		X	
71.48	73.70	1, 100, 1% veins :Calcite Veining, 2% veins :Quartz-Carbonate Veining *R: interval might be a 2vol.* **********	AA6882	71.48	72.30	1		X	
73.70		** END OF HOLE **							

DDH: 506-927
SECTION: 11553.49N
EASTING: 8031.73E
ELEVATION: 5305.00 m
DIP: -50°
AZIMUTH: 228°
DATE STARTED: March 23, 1995
DATE FINISHED: March 24, 1995
DATE LOGGED: April 23, 1995
LENGTH: 104.00 m
DEPTH OF OVERBURDEN: 7.90 m
LOCATION: 129.4 m north and 105.1 m west to Post 2 of claim Pa 369766

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-927

Date: 3rd Apr, 1996
Northing : 11553.49
Easting : 8031.73
Elevation : 5305.00
Hole Depth : 104.00mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	228.00	-50.00
8.00mt	228.00	-47.75
60.00mt	228.00	-46.50
101.00mt	228.00	-44.50

Grid Azimuth: 317.95
Coord System:

Paul Brown

Project ID : 506E
Core Size : NQ
Date Logged : 23APR95
Logged By : BBM
Assisted by :
Drillers : MIDW
Drill date : MAR95
Rig Type :
Drill Time :
Print Template : ASSESS.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
0.00	7.90	CAS, 100 *R: bedrock at 7.0m, coring started at 8.71m.* **********							
7.90	8.71	LOST, 100 *R:* **********							
8.71	12.49	Garnet-amphibole iron formation, 60, 0.2% banded :Grunerite, 0.1% speck(s) :Pyrrhotite, 0.1% speck(s) :Pyrite, 1% Nothing :Quartz-Carbonate Veining *R: this 4el4f has only trace po and py which are related to the quartz flooding and these small section have some minor folding present.* **********	AA6284 AA6286 AA6287 AA6288	8.71 11.00	11.00 12.49	4E 4E	4F 4F	5 8	5 2
12.49	14.60	Mafic to intermediate volcanics, 100, 30% banded :Biotite, 5% Nothing :Garnet *R: this light brown volcanic tuff has no sulfides. the garnets are close to the contact and not anywhere else making contact not well defined.* **********	AA6289 AA6290	12.49	14.60	BVOL		X	
14.60	17.55	Garnet-amphibole iron formation, 90, 1% laminated :Biotite, 0% 1 :Garnet, 2% blebs :Grunerite, 0.5% banded :Magnetite, 0.1% speck(s) :Pyrrhotite, 0.1% speck(s) :Pyrite *R: this unit is a mixture of amphibole-garnet iron formation with small 4f beds. from 16.10m to 16.35 there is a bvol (volcanic tuff). there is only trace po and py.* **********	AA6291 AA6292	14.60	17.55	4E	4F	9	1
17.55	22.54	Mafic to intermediate volcanics, 100, 25% banded :Biotite *R: this light brown volcanic tuff is same as above but no garnets present and the contacts are more distinct.* **********	AA6293 AA6294	17.55 21.54	18.31 22.54	BVOL BVOL		X X	
22.54	29.73	Garnet-biotite schist, 90, 30% bedded :Biotite, 0.5% banded :Chlorite, 60% massive :Garnet, 0.2% banded :Magnetite, 0.1% speck(s) :Pyrrhotite, 0.1% speck(s) :Pyrite, 5% blebs :Quartz-Carbonate Veining, 5% blebs :Quartz Flooding *R:* **********	AA6296 AA6297 AA6298 AA6299 AA6301 AA6302 AA6303	22.54 26.00	26.00 29.73	4F 4F	4E 4E	9 8	1 2
29.73	55.66	chert-magnetite iron formation, 80, 8% Nothing :Biotite, 2% Nothing :Chlorite, 0% 1 :Garnet, 3% banded :Magnetite, 0.1% speck(s) :Pyrrhotite, 0.2% stringers :Pyrite, 4% Nothing :Quartz-Carbonate Veining, 0.3% flooded :Quartz Flooding	AA6304 AA6305 AA6307	29.73 31.17	31.17 34.00	4F 4B	4B 4F	7 7	3 3

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
		R: this chert-magnetite iron formation contains sections of garnet-biotite schist which in areas is fairly high in composition. there is very little po and py which seem to be related to the quartz flooding zones. there are also dykes(lamprophre?) which are very small in width. the dykes composition are quartz,feldspar,biotite, hornblende which are fine to meduim grain size. from 29.73 to 31.17m has been flooded with quartz-carbonate with the po and py occurring here and up to 5 percent py in areas. there is a lamprophre dyke at 34.13m to 34.18m and has a po stringer in the dyke. there are lamprophre dykes at 36.09m(3cm width) and at 37.05m(.5cm width). there are no sulfides in these dykes. the dyke at 37.05m seems to be fracture filling and has been displaced by horizonal shear and the rest of the fracture has then been filled by calcite with no presence of the dyke. there are no sulfides but a lamprophre dyke at 43.65m to 43.76m. the quartz flooding has no sulfides related to it. the sulfides are related to the quartz flooding. **********	AA6308						
			AA6309						
			AA6310	34.00	35.00	4B	4F	8	2
			AA6311	35.00	39.00	4B	4F	6	4
			AA6312						
			AA6313						
			AA6314						
			AA6316	39.00	40.00	4F	4B	6	4
			AA6317	40.00	43.00	4F	4B	7	3
			AA6318						
			AA6319						
			AA6321	43.00	44.00	4F	4B	6	4
			AA6322	44.00	47.00	4B	4F	6	4
			AA6323						
			AA6324						
			AA6325	47.00	50.00	4B	4F	7	3
			AA6326						
			AA6328						
			AA6329	50.00	53.00	4B	4F	9	1
			AA6330						
			AA6331						
			AA6332	53.00	55.66	4B	4F	8	2
			AA6333						
			AA6334						
55.66	89.20	chert-magnetite iron formation, 100, 0.1% blebs :Arsenopyrite, 2% blebs :Biotite, 1% Nothing :Carbonate, 1% blebs :Chlorite, 5% blebs :Garnet, 20% banded :Magnetite, 3% blebs :Pyrrhotite, 0.1% speck(s) :Pyrite, 2% Nothing :Quartz Flooding, 3% blebs :Quartz Veining *R: this grey chert-magnetite iron formation has minor garnet- biotite schist beds(5 percent) throughout this 4b unit. the sulfides are related to the quartz flooding and there are higher sulfides here. there are two semi-massive po zones at 83.37m-84.09m and 86.45m-87.15m. this interval is broken up and possible shear with calcite and py x'lls along some the fractures. there is visible gold at 69.82m, which is next to the quartz vein(9cm) and gold is in the chert/quartz flood. there is po and as in this flooded area with the sulfides up to 3 percent here. the 4b has alot more carbonate from here to the volcanic contact. there are 2 white(bull) quartz veins which are <20cm wide with no sulfides or minerals in these veins. this interval has visible gold at 76.06m in the quartz flooded area and gold is in the quartz. this interval is a flooded brecciated zone with semi to massive pyrrhotite with as and py. this interval has been flooded with semi-massive po and has graphite in it giving it blackist colour. this has been carbonitized with siderite with the po following the banding in most cases.* **********	AA6336	55.66	58.00	4B	4F	9	1
			AA6337						
			AA6338						
			AA6339	58.00	60.00	4B		X	
			AA6341						
			AA6342	60.00	61.00	4B		X	
			AA6343	61.00	63.00	4B		X	
			AA6344						
			AA6345	63.00	65.00	4B	4F	9	1
			AA6346						
			AA6347	65.00	69.00	4B	4F	9	1
			AA6349						
			AA6350						
			AA6351						
			AA6352	69.00	70.00	4B	4F	8	2
			AA6353	70.00	73.00	4B	4F	9	1
			AA6354						
			AA6356						
			AA6357	73.00	76.00	4B		X	
			AA6358						
			AA6359						
			AA6361	76.00	77.00	4B		X	
			AA6362	77.00	79.00	4B		X	
			AA6363						
			AA6364	79.00	80.75	4B	4F	9	1
			AA6365						

From	To	Geology	SAMPLE A001	FROM A005	TO A005	ROCK A005	ROCK A005	MIX1 A005	MIX2 A005
			AA6366	80.75	83.37	4B	4F	9	1
			AA6367						
			AA6368						
			AA6370	83.37	84.09	4B		X	
			AA6371	84.09	85.67	4B	4F	9	1
			AA6372						
			AA6373	85.67	86.45	4B	4F	9	1
			AA6374	86.45	87.15	4B		X	
			AA6376	87.15	89.20	4B		X	
			AA6377						
			AA6378						
89.20	104.00	basalt, 100, 3% banded :Biotite *R: this light green volcanic rock(basalt) is medium grain size with no sulfides. at 100.10m to the end of the hole the biotite is up to 5 percent.*	AA6379	89.20	90.10	2		X	
104.00		** END OF HOLE **							

DDH: 506-933
SECTION: 9749.97N
EASTING: 9085.55E
ELEVATION: 5309.10 m
DIP: -55°
AZIMUTH: 230°
DATE STARTED: July 17, 1995
DATE FINISHED: July 20, 1995
DATE LOGGED: July 19, 1995
LENGTH: 158.00 m
DEPTH OF OVERBURDEN: 12.69 m
LOCATION: 239.4 m south and 57.2 m west to Post 1 of claim Pa 529826

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-933

Date: 18th Mar. 1996
Northing : 9749.97
Easting : 9085.55
Elevation : 5309.10
Hole Depth : 158.00mt

Grid Azimuth: 317.95
Coord System:

Project ID : 506E
Core Size : NQ
Date Logged : 19JUL95
Logged By : RKM
Assisted by :
Drillers : MIDW
Drill date : JUL95
Rig Type :
Drill Time :
Print Template : ASSESS1.FMT
Gtran Version : 3.5.8

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	230.00	-55.00
14.00mt	230.00	-52.50
47.00mt	230.00	-52.25
76.00mt	230.00	-51.00
128.00mt	230.00	-48.00
158.00mt	230.00	-47.75

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
0.00	12.69	overburden, 100							
12.69	30.54	ultramafic, 100, foliated, 3.5% banded biotite, 90% pervasive green amphibole, 5.5% fracture filling chlorite, 0.75% microveins quartz veining, 1.5% fracture filling calcite veining *R: biotite alteration and odd quartz vein. fractures and foliation are both chlorite/talc filled possible problems if encountered underground.*	AA8424	30.00	30.54	1		X	
30.54	144.50	chert-magnetite iron formation, 100 *R: aa8428-aa8429 contain 4-5% 4f bands. carbonate occurs in fractures. bands and one vein. aa8425-aa8430 this section may contain grunerite but the unit appears to have been injected with more silica probably silicification or quartz flooding qf amt is more of a flag to differentiate from 4b could be up to 50% qf. aspy fine grained and associated with mm thick 4f bands. 3% 4f. aspy associated with 4f band. **** the 4a unit is differentiated here by a buff-tan color an ms reading <100, and the silicified appearance. light grey bands in the 4b are strongly reactive to hcl acid. carbonate is contained within bands but just as common as fracture fillings. basically any easy pathway suggesting a later event. nothing shocking. qzvn bvol maybe an 8a/b dyke or r. ried's mylonite. qzvn at 69.50-69.91 and 70.20-70.50m. 7% 4f. 3% 4f bands. abundant stringers of po within a 4f unit. cbvn at 88.53-61 qzvn the 4b unit always has some development of a pale yellow as bands or bordering bands. it is believed this mineral is grunerite/cummingtonite. 107.35-107.60 is strongly flooded. 30cm lost core. large 5cm pod of po at 119.85. po occurs within the fractures in the quartz flooding. possibly a quartz vein - chlorite filled fractures w >py. 5% 4f. 5% 4f. 7% 4f. carbonate also occurs as fracture fillings.*	AA8425	30.54	32.07	4A		X	
			AA8427	32.07	33.85	4A		X	
			AA8428	33.85	35.03	4A		X	
			AA8429	35.03	36.31	4A		X	
			AA8430	36.31	37.68	4A		X	
			AA8431	37.68	38.30	4B	4F	9	1
			AA8432	38.30	39.65	4B		X	
			AA8433	39.65	41.00	4B		X	
			AA8434	41.00	42.10	4A		X	
			AA8436	42.10	43.11	4A		X	
			AA8437	43.11	44.00	4A		X	
			AA8438	44.00	45.00	4B		X	
			AA8439	45.00	45.88	4B		X	
			AA8441	45.88	47.32	4B		X	
			AA8442	47.32	48.78	4B		X	
			AA8443	48.78	50.13	4B		X	
			AA8444	50.13	51.60	4B	4F	8	2
			AA8445	51.60	52.05	4B	4F	5	5
			AA8446	52.05	53.54	4B		X	
			AA8448	53.54	55.00	4B		X	
			AA8449	55.00	56.45	4B	4F	9	1
			AA8450	56.45	57.20	4B	QZVN	8	2
			AA8451	57.20	58.67	4B	4F	9	1
			AA8452	58.67	60.18	4B	4F	9	1
			AA8453	60.18	61.45	4B		X	
			AA8454	61.45	62.89	4B		X	

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
			AA8456	62.89	63.75	4B	4F	9	1
			AA8457	63.75	65.00	4B		X	
			AA8458	65.00	65.71	BVOL		X	
			AA8459	65.71	66.62	BVOL		X	
			AA8461	66.62	67.75	4B		X	
			AA8462	67.75	68.70	4B	4F	6	4
			AA8463	68.70	69.50	4B		X	
			AA8464	69.50	70.50	4B	QZVN	5	5
			AA8465	70.50	71.69	4B	4F	8	2
			AA8467	71.69	73.20	4B		X	
			AA8468	73.20	73.51	4B		X	
			AA8469	73.51	75.00	4B		X	
			AA8470	75.00	75.75	4B	4F	9	1
			AA8471	75.75	77.17	4A		X	
			AA8472	77.17	78.63	4A	4F	7	3
			AA8473	78.63	80.00	4A		X	
			AA8474	80.00	81.30	4A		X	
			AA8476	81.30	82.61	4A		X	
			AA8477	82.61	84.01	4A		X	
			AA8478	84.01	85.62	4A	4B	7	3
			AA8479	85.62	87.10	4A		X	
			AA8481	87.10	88.83	4A		X	
			AA8482	88.83	89.69	4A	QZVN	9	1
			AA8483	89.69	91.00	4A		X	
			AA8484	91.00	91.90	4A	4B	7	3
			AA8485	91.90	92.89	4A	4B	6	4
			AA8486	92.89	94.00	4A		X	
			AA8487	94.00	95.14	4A		X	
			AA8488	95.14	96.30	4B		X	
			AA8489	96.30	97.30	4B		X	
			AA8491	97.30	98.60	4B	4F	8	2
			AA8492	98.60	99.97	4B	4F	9	1
			AA8493	99.97	101.48	4B		X	
			AA8494	101.48	102.58	4B		X	
			AA8496	102.58	104.03	4B		X	
			AA8497	104.03	105.61	4B		X	
			AA8498	105.61	107.02	4B		X	
			AA8499	107.02	108.60	4B		X	
			AA8501	108.60	110.06	4B		X	
			AA8502	110.06	111.30	4B		X	
			AA8503	111.30	113.00	4B		X	
			AA8504	113.00	114.50	4B		X	
			AA8505	114.50	116.00	4B	4F	9	1
			AA8506	116.00	117.50	4B	4F	9	1
			AA8507	117.50	118.78	4B		X	
			AA8508	118.78	119.75	4B		X	
			AA8510	119.75	121.00	4B		X	
			AA8511	121.00	122.18	4B		X	
			AA8512	122.18	123.50	4B		X	

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
			AA8513	123.50	124.18	4B		X	
			AA8514	124.18	124.90	4B		X	
			AA8516	124.90	126.38	4B		X	
			AA8517	126.38	127.50	4B		X	
			AA8518	127.50	128.34	4B		X	
			AA8519	128.34	129.80	4B	4F	9	1
			AA8521	129.80	131.12	4B	4F	9	1
			AA8522	131.12	132.63	4B		X	
			AA8523	132.63	133.93	4B	4F	9	1
			AA8524	133.93	135.25	4B		X	
			AA8525	135.25	136.71	4B	4F	9	1
			AA8526	136.71	138.23	4B	4F	9	1
			AA8527	138.23	139.17	4B	4F	8	2
			AA8528	139.17	140.56	4B		X	
			AA8529	140.56	141.84	4B		X	
			AA8530	141.84	142.40	QZVN		X	
			AA8531	142.40	143.70	4B	4F	9	1
			AA8533	143.70	144.50	4B	4F	8	2
144.50	147.32	chert-grunerite-amphibole-garnet iron formation, 100, 4EA; thinly banded; finely crystalline, banded, foliated, 10% banded grunerite, 20% porphyroblastic garnet, 5.5% banded biotite, 40% banded green amphibole, 5.5% fracture filling chlorite, 10% banded magnetite, 0.75% fracture filling calcite veining, 0.75% flooded quartz flooding, 0-% fracture filling pyrrhotite, pervasive visible gold, 100% pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: bvol possibly tuffaceous bands. 1% cubic pyrite near end.*	AA8534	144.50	145.23	4EA		X	
			AA8536	145.23	146.00	4EA		X	
			AA8537	146.00	147.32	4EA	BVOL	8	2
147.32	158.00	mafic to intermediate volcanics, garnet-biotite schist, 70, 30, foliated, banded, 1.5% banded grunerite, 10% porphyroblastic garnet, 15% banded biotite, 50% pervasive green amphibole, 5.5% fracture filling chlorite *R: 4f unit. 4f unit. 4e 149.84-150.20 and 4ea 150.39-150.56. 4ea is interbanded with bvol and 4f. 158.00 eoh*	AA8538	147.32	148.20	4F		X	
			AA8539	148.20	149.00	BVOL	4F	6	4
			AA8541	149.00	149.84	BVOL	4F	8	2
			AA8542	149.84	150.85	BVOL	4E	5	5
			AA8543	150.85	151.38	BVOL	4EA	5	5
			AA8544	151.38	152.42	BVOL		X	
			AA8545	152.42	154.00	BVOL		X	
			AA8546	154.00	154.97	BVOL	4F	7	3
			AA8547	154.97	156.45	BVOL		X	
158.00		** END OF HOLE **							

DDH: 506-934
SECTION: 9749.99N
EASTING: 9140.14E
ELEVATION: 5306.60 m
DIP: -50°
AZIMUTH: 226°
DATE STARTED: July 20, 1995
DATE FINISHED: July 21, 1995
DATE LOGGED: July 23, 1995
LENGTH: 74.73 m
DEPTH OF OVERBURDEN: 18.03 m
LOCATION: 202.8 m south and 16.8 m west to Post 1 of claim Pa 529826

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-934

Date: 18th Mar, 1996
Northing : 9749.99
Easting : 9140.14
Elevation : 5306.60
Hole Depth : 74.73mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	226.00	-50.00
20.00mt	226.00	-50.00
44.00mt	226.00	-49.00
74.70mt	226.00	-47.75

Grid Azimuth: 317.95
Coord System:

Project ID : 506E
Core Size : NQ
Date Logged : 23JUL95
Logged By : RKM
Assisted by :
Drillers : MIDW
Drill date : JUL95
Rig Type :
Drill Time :
Print Template : ASSESS1.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
0.00	18.03	overburden, 100							
18.03	23.90	southern iron formation, 100, banded, foliated, 1.5% fracture filling chlorite, 10% banded magnetite, 0.75% veins quartz veining, 1.5% fracture filling calcite veining *R: this appears to be an argillaceous sed. with py stringers. this unit is siliceous with a buff mineral along bands and not reactive with hcl acid - grunerite?*	AA8549	18.03	18.40	SIF		X	
			AA8550	18.40	19.52	SIF		X	
			AA8551	19.52	20.80	SIF		X	
			AA8552	20.80	22.00	SIF		X	
			AA8553	22.00	23.00	SIF		X	
			AA8554	23.00	23.90	SIF		X	
23.90	24.86	basement basalt, 100, foliated, 1.5% banded biotite, 90% pervasive green amphibole, 5.5% fracture filling chlorite, 0.25% fracture filling calcite veining *R: fractures contain chlorite+talc, rock is moderately soft.*	AA8556	23.90	24.86	2		X	
24.86	31.45	southern iron formation, 100, banded, folded, 3.5% banded grunerite, 3.5% banded green amphibole, 5.5% fracture filling chlorite, 30% banded magnetite, 0.01% veins quartz veining, 0.25% veins qtz-calcite veining, 0.75% fracture filling calcite veining	AA8557	24.86	26.00	SIF		X	
			AA8558	26.00	27.45	SIF		X	
			AA8559	27.45	28.87	SIF		X	
			AA8561	28.87	30.30	SIF		X	
			AA8562	30.30	31.45	SIF		X	
31.45	38.80	basement basalt, 100, foliated, banded, 5.5% banded biotite, 90% pervasive green amphibole, 3.5% fracture filling chlorite, 0.25% microveins quartz veining, 0.01% fracture filling calcite veining *R: this unit is pale green and talcose - mg tholeiite or komatiite. qzcb vein 36.72-36.85.*	AA8563	31.45	32.50	2		X	
			AA8564	38.00	38.80	2		X	
38.80	58.40	southern iron formation, 100, 4EA; thinly banded; finely crystalline, banded, folded. 5.5% banded grunerite, 5.5% banded green amphibole, 1.5% fracture filling chlorite, 30% banded magnetite, 0.75% veins quartz veining, 0.75% veins qtz-calcite veining, 1.5% microveins calcite veining *R: sif is well laminated with buff-brown to white bands inter- banded with magnetite. po appears secondary with veins or fractures. some fractures have medium grained feldspar and are probably pegmatitic microveins. qzcb vein. po found in qzcb veinlet. qzvn*	AA8565	38.80	40.40	SIF		X	
			AA8566	40.40	41.33	SIF		X	
			AA8567	41.33	42.72	SIF		X	
			AA8568	42.72	44.08	SIF		X	
			AA8570	44.08	45.47	SIF		X	
			AA8571	45.47	47.00	SIF		X	
			AA8572	47.00	48.50	SIF		X	
			AA8573	48.50	49.95	SIF		X	
			AA8574	49.95	51.45	SIF		X	
			AA8576	51.45	53.00	SIF		X	
			AA8577	53.00	54.50	SIF		X	
			AA8578	54.50	56.00	SIF		X	

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
			AA8579	56.00	57.20	SIF		X	
			AA8581	57.20	58.40	SIF		X	
58.40	74.73	basement basalt, 100, foliated, banded, 5.5% banded biotite, 90% pervasive green amphibole, 3.5% fracture filling chlorite, 1.5% veins qtz-calcite veining, 0.01% fracture filling calcite veining *R: 2vol is banded with local occurrances of qzcb vein. 74.73m is eoh.*	AA8582	58.40	59.14	2	SIF	9	1
			AA8583	59.14	60.00	2		X	
74.73		** END OF HOLE **							

DDH: 506-945
SECTION: 9549.15N
EASTING: 9096.07E
ELEVATION: 5307.10 m
DIP: -65°
AZIMUTH: 228°
DATE STARTED: August 6, 1995
DATE FINISHED: August 8, 1995
DATE LOGGED: August 9, 1995
LENGTH: 198.00 m
DEPTH OF OVERBURDEN: 12.75 m
LOCATION: 96.1 m north and 26.6 m east to Post 3 of claim Pa 529827

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-945

Date: 3rd Apr, 1996
Northing : 9549.15
Easting : 9096.07
Elevation : 5307.10
Hole Depth : 198.00mt

Grid Azimuth: 317.95
Coord System:

Project ID : 506E
Core Size : NQ
Date Logged : 09AUG95
Logged By : RKM
Assisted by :
Drillers : MIDW
Drill date : AUG95
Rig Type :
Drill Time :
Print Template : PB1.FMT
Gtran Version : 3.5.8

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	228.00	-65.00
14.00mt	228.00	-64.25
50.00mt	228.00	-63.25
86.00mt	228.00	-61.50
131.00mt	228.00	-60.00
158.00mt	228.00	-57.75
194.00mt	228.00	-56.50

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
0.00	12.75	overburden, 100							
12.75	18.20	southern iron formation, 100, 5.5% fracture filling chlorite, 0.01% vein associated garnet, 10% banded calcite veining, 10% banded grunerite, 30% banded magnetite	12.75	13.93	AA12651	SIF		X	
			13.93	14.60	AA12652	SIF		X	
			14.60	14.93	AA12653	QZVN		X	
			14.93	15.98	AA12654	SIF		X	
			15.98	16.72	AA12656	SIF		X	
			16.72	18.20	AA12658	SIF		X	
18.20	88.60	basement basalt, 100, 60% pervasive green amphibole, 10% banded biotite, 5.5% fracture filling chlorite, 3.5% microveins calcite veining, 1.5% microveins quartz veining	18.20	19.04	AA12659	2		X	
			34.32	35.17	AA12662	2		X	
			35.17	36.40	AA12663	2		X	
			36.40	37.20	AA12664	2		X	
			72.00	73.22	AA12665	2		X	
			73.22	74.00	AA12666	2		X	
			74.00	75.00	AA12667	2	QZVN	9	1
			87.45	88.60	AA12668	2		X	
88.60	101.37	chert-magnetite iron formation, 100	88.60	89.52	AA12669	4B		X	
			89.52	90.88	AA12670	4B		X	
			90.88	91.61	AA12671	4B		X	
			91.61	93.08	AA12672	4B		X	
			93.08	94.43	AA12673	4B		X	
			94.43	95.69	AA12674	4B		X	
			95.69	96.31	AA12676	4B		X	
			96.31	97.80	AA12677	4B		X	
			97.80	98.28	AA12678	4B		X	
			98.28	98.90	AA12679	4B		X	
			98.90	99.50	AA12681	4B		X	
			99.50	100.50	AA12682	4B		X	
			100.50	101.37	AA12683	4B	QZVN	5	5
101.37	118.58	basement basalt, 100, 30% pervasive green amphibole, 50% banded biotite, 5.5% fracture filling chlorite, 1.5% fracture filling calcite veining, 1.5% microveins qtz-calcite veining, 5.5% veins quartz	101.37	102.00	AA12684	2		X	
			104.00	105.25	AA12685	2		X	

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		veining	105.25	106.60	AA12687	2		X	
			106.60	107.55	AA12688	2		X	
			113.55	115.00	AA12689	2		X	
			115.00	116.50	AA12690	2		X	
			116.50	117.90	AA12691	2		X	
			117.90	118.58	AA12692	2		X	
118.58	120.56	chert-magnetite iron formation, 100, 0.25% blebs arsenopyrite, 0.01% interstitial biotite, 15% banded carbonate, 0.25% porphyroblastic garnet, 60% banded magnetite, 1.5% pyrrhotite whisps and blebs pyrrhotite, 15% flooded quartz flooding	118.58	119.40	AA12693	4B		X	
			119.40	120.56	AA12694	4B		X	
120.56	131.10	basement basalt, 100, 5.5% pervasive biotite, 1.5% fracture filling chlorite, 3.5% microveins calcite veining, 1.5% veins quartz veining	120.56	121.60	AA12696	2		X	
			121.60	122.50	AA12697	2		X	
			130.00	131.10	AA12698	2		X	
131.10	133.85	chert-magnetite iron formation, 100, 20% banded carbonate, 0.25% patchy chlorite, 0.75% porphyroblastic garnet, 60% banded magnetite, 0.75% blebs pyrrhotite, 1.5% veins qtz-calcite veining, 0.75% flooded quartz flooding, 1.5% veins quartz veining	131.10	132.00	AA12699	4B		X	
			132.00	133.00	AA12701	4B		X	
			133.00	133.85	AA12702	4B		X	
133.85	134.48	basement basalt, 100	133.85	134.48	AA12703	2		X	
134.48	138.33	chert-magnetite iron formation, 100, 1.5% interstitial carbonate, 0.01% fracture filling chlorite, 10% banded grunerite, 40% banded magnetite, 0.25% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, 1.5% flooded quartz flooding, 1.5% veins quartz veining	134.48	135.66	AA12704	4B		X	
			135.66	137.00	AA12705	4B		X	
			137.00	138.33	AA12707	4B		X	
138.33	141.85	sulphide iron formation, 100, 0.01% blebs arsenopyrite, 15% banded carbonate, 0.01% fracture filling chlorite, 0.01% blebs chalcopyrite, 3.5% microveins calcite veining, 10% banded grunerite, 5.5% banded magnetite, 40% semi-massive pyrrhotite, 20% flooded quartz flooding	138.33	138.83	AA12708	4H		X	
			138.83	139.65	AA12709	4H		X	
			139.65	140.38	AA12710	4H		X	
			140.38	141.85	AA12711	4H		X	
141.85	145.90	chert-magnetite iron formation, 100, 10% banded carbonate, 0.01% fracture filling chlorite, 5.5% banded grunerite, 40% banded magnetite, 1.5% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, 1.5% flooded quartz flooding	141.85	143.00	AA12712	4B		X	
			143.00	144.00	AA12713	4B		X	
			144.00	145.00	AA12714	4B		X	
			145.00	145.90	AA12716	4B		X	
145.90	148.05	basement basalt, 100, 5.5% banded biotite, 0.25% veins calcite veining, 1.5% veins quartz veining	145.90	147.00	AA12717	2		X	
			147.00	148.05	AA12718	2		X	
148.05	148.56	chert-magnetite iron formation, 100, 10% banded carbonate, 1.5% banded grunerite, 70% banded magnetite	148.05	148.56	AA12719	4B		X	
148.56	153.65	basement basalt, 100, 10% banded biotite	148.56	150.00	AA12721	2		X	
			150.00	151.50	AA12722	2		X	
			151.50	153.00	AA12723	2		X	
			153.00	153.65	AA12724	2		X	
153.65	170.85	chert-magnetite iron formation, 100, 0.75% banded green amphibole, 5.5% banded carbonate, 0.01% porphyroblastic garnet, 3.5% banded grunerite, 50% banded magnetite, 0.25% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, 5.5% flooded quartz flooding, 0.25% veins quartz veining	153.65	155.00	AA12725	4B		X	
			155.00	156.50	AA12726	4B		X	
			156.50	158.00	AA12727	4B		X	
			158.00	159.50	AA12728	4B		X	
			159.50	161.00	AA12729	4B		X	

From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
			161.00	162.50	AA12731	4B		X	
			162.50	164.00	AA12732	4B		X	
			164.00	165.50	AA12733	4B		X	
			165.50	167.00	AA12734	4B		X	
			167.00	168.50	AA12736	4B		X	
			168.50	170.00	AA12737	4B		X	
			170.00	170.85	AA12738	4B		X	
170.85	177.08	chert-magnetite iron formation, 100, 3.5% banded green amphibole, 0.01% microveins carbonate, 80% banded magnetite, 0.25% pyrrhotite whisps and blebs pyrrhotite, 0.75% veins quartz veining	170.85	172.00	AA12739	4B		X	
			172.00	173.50	AA12741	4B		X	
			173.50	175.00	AA12742	4B		X	
			175.00	176.50	AA12743	4B		X	
			176.50	177.08	AA12744	4B		X	
177.08	180.15	chert-magnetite iron formation, 100, 30% banded green amphibole, 5.5% banded chlorite, 15% porphyroblastic garnet, 0.75% microveins calcite veining, 0.75% banded grunerite, 50% banded magnetite	177.08	178.60	AA12745	4B		X	
			178.60	180.15	AA12746	4B		X	
180.15	187.20	chert-grunerite-amphibole-garnet iron formation, 80, garnet-amphibole iron formation, 20, 30% banded green amphibole, 10% porphyroblastic garnet, 1.5% veins calcite veining, 20% banded grunerite, 15% banded magnetite, 0.75% blebs pyrrhotite, 0.75% veins qtz-calcite veining, 3.5% flooded quartz flooding	180.15	181.00	AA12747	4EA	4E	9	1
			181.00	182.00	AA12748	4EA	4E	9	1
			182.00	183.00	AA12750	4EA		X	
			183.00	184.00	AA12751	4EA	4E	8	2
			184.00	185.00	AA12752	4EA	4F	9	1
			185.00	186.00	AA12753	4EA		X	
			186.00	187.20	AA12754	4EA	4F	9	1
187.20	189.57	garnet-biotite schist, 100, 70% pervasive biotite, 30% porphyroblastic garnet	187.20	188.40	AA12756	4F		X	
			188.40	189.57	AA12757	4F		X	
189.57	190.72	chert-grunerite-amphibole-garnet iron formation, 60, garnet-amphibole iron formation, 40, 20% banded green amphibole, 5.5% porphyroblastic garnet, 15% banded grunerite, 10% banded magnetite, 1.5% pyrrhotite whisps and blebs pyrrhotite, 1.5% veins qtz-calcite veining	189.57	190.72	AA12758	4EA	4E	6	4
190.72	198.00	mafic to intermediate volcanics, 100, 60% banded green amphibole, 40% banded biotite, 1.5% veins calcite veining, 0 no pyrrhotite, 0 no quartz flooding	190.72	192.00	AA12759	BVOL		X	
198.00		** END OF HOLE **							

DDH: 506-957
SECTION: 11203.27N
EASTING: 8151.99E
ELEVATION: 5304.60 m
DIP: -50°
AZIMUTH: 228°
DATE STARTED: August 26, 1995
DATE FINISHED: August 27, 1995
DATE LOGGED: October 3, 1995
LENGTH: 149.09 m
DEPTH OF OVERBURDEN: 6.05 m
LOCATION: 50.2 m south and 218.8 m eat to Post 4 of claim Pa 369746

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-957

Date: 18th Mar, 1996
Northing : 11203.27
Easting : 8151.99
Elevation : 5304.60
Hole Depth : 149.09mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	228.00	-50.00
8.00mt	228.00	-49.50
80.00mt	228.00	-50.25
107.00mt	228.00	-50.25
140.00mt	228.00	-49.50

Grid Azimuth: 317.95
Coord System:

Paul Bloom

Project ID : 506E
Core Size : NQ
Date Logged : 03OCT95
Logged By : JMP
Assisted by :
Drillers : MIDW
Drill date : SEP95
Rig Type :
Drill Time :
Print Template : ASSESS1.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
0.00	6.05	overburden, 100 *R:* **********							
6.05	9.38	mafic to intermediate volcanics, 100, foliated, 0.01% porphyroblastic garnet, 1.5% banded biotite, 0 no quartz flooding, 0% no pyrrhotite *R: greyish-green bvol. blocky core the entire length of the unit. 12 cm of lost core.* **********	AA11587	7.85	9.38	BVOL			X
9.38	11.00	garnet-biotite schist, 100, foliated, 20% euhedral crystals garnet, 90% banded biotite, 10% banded green amphibole, 0.01% veins quartz veining, 0 no quartz flooding, 0- .% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, P - visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: foliated 4f with some amphibole/chlorite. small to large sub to euhedral gt up to 1 cm across. coarsest gt are in the middle of the interval. blocky core.* **********	AA11589	9.38	11.00	4F			X
11.00	12.70	mafic to intermediate volcanics, 100, foliated, 0.01% crystals garnet, 1.5% banded biotite, 0.01% veins quartz veining, 0 no quartz flooding, 0-% pyrrhotite whisps and blebs pyrrhotite *R: bvol with several coarse euhedral gt in a biotitic band.* **********	AA11590 AA11591	11.00 11.75	11.75 12.70	BVOL BVOL			X X
12.70	13.07	garnet-biotite schist, 100, foliated, 30% euhedral crystals garnet, 70% banded biotite, 0.01% veins quartz veining, 0 no quartz flooding, 0% no pyrrhotite, pervasive visible gold, R pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: 4f with coarse euhedral gt up to 1.5cm across.* **********	AA11592	12.70	13.07	4F			X
13.07	18.50	mafic to intermediate volcanics, 100, BVOL; biotitic, foliated, 0.01% crystals garnet, 10% banded biotite, 3.5% veins quartz veining, 0.01% flooded quartz flooding, 0- R% pyrrhotite whisps and blebs pyrrhotite, - visible gold *R: bvol with 10% biotite along the foliation. some coarse gt crystals near the contact with 4f below.* **********	AA11593 AA11594	13.07 17.06	14.10 18.50	BVOL BVOL			X X
18.50	19.22	garnet-biotite schist, 100, foliated, homogeneous, 30% crystals garnet, 70% banded biotite, 1.5%	AA11596	18.50	19.22	4F			X

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		veins quartz veining, 0 no quartz flooding, 0-% pyrrhotite whisps and blebs pyrrhotite, pervasive visible gold, W pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: 4f with small (<5mm) gt crystals uniformly distributed throughout the unit.* **********							
19.22	20.18	mafic to intermediate volcanics, 100, foliated, 0.01% crystals garnet, 15% banded biotite, 0 no quartz flooding, 0- .% pyrrhotite whisps and blebs pyrrhotite, - visible gold *R: bvol with small to large gt in a biotitic zone.* **********	AA11597	19.22	20.18	BVOL		X	
20.18	20.98	garnet-biotite schist, 100, foliated, 15% crystals garnet, 80% banded biotite, 5.5% banded green amphibole, 3.5% veins quartz veining, 0 no quartz flooding, 0- .% pyrrhotite whisps and blebs pyrrhotite, P - visible gold, R pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: 4f with up to 5% amphibole in bands. gt generally get coarser but less abundant towards the bottom of the unit.* **********	AA11598	20.18	20.98	4F		X	
20.98	22.25	mafic to intermediate volcanics, 100, foliated, 1.5% crystals garnet, 5.5% banded biotite, 0 no quartz flooding, 0% no pyrrhotite *R: gt crystals near contact with 4f below.* **********	AA11599	20.98	22.25	BVOL		X	
22.25	33.29	garnet-biotite schist, 100, foliated, homogeneous, 40% crystals garnet, 50% banded biotite, 1.5% banded green amphibole, 0.25% veins quartz veining, 0.01% fracture filling calcite veining, 0.01% flooded quartz flooding, 0- .% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, P - visible gold, . . pyrrhotite whisps and blebs arsenopyrite, S - chalcopyrite, % MIN1 how/amount *R: 4f that has coarse gt from 22.25 to 23.36m. the rest of the unit is made up of small (<5mm) gt that are fairly uniformly distributed throughout the unit. a yellow-green mineral occurs as anhedral crystals. it is usually less than 5mm in size. possibly staurolite? blocky broken core.* **********	AA11601 AA11602 AA11603 AA11605 AA11606 AA11607 AA11608 AA11609	22.25 23.47 24.91 26.29 27.76 29.16 30.62 32.00	23.47 24.91 26.29 27.76 29.16 30.62 32.00 33.29	4F 4F 4F 4F 4F 4F 4F 4F		X X X X X X X X	
33.29	35.18	garnet-biotite schist, chert-grunerite-amphibole-garnet iron formation, 80, 20, foliated, banded, 20% banded grunerite, 30% crystals garnet, 50% banded biotite, 0.25% veins quartz veining, 0.01% fracture filling calcite veining, 0.25% flooded quartz flooding, 0<% pyrrhotite whisps and blebs pyrrhotite, pervasive visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: 4f with zones that are gruneritized. gt in 4f appears to be coarsest in between the gruneritized zones. very little 4e present. some thin chert bands assoc. with the gruneritized zones.* **********	AA11610 AA11611	33.29 34.30	34.30 35.18	4F 4F	4EA 4EA	6 9	4 1
35.18	36.48	garnet-biotite schist, 100, foliated, 20% crystals garnet, 60% banded biotite, 15% banded green amphibole, 0.25% veins quartz veining, 0.01% fracture filling calcite veining, 0 no quartz flooding, 0-% pyrrhotite whisps and blebs pyrrhotite, pervasive visible gold, . pyrrhotite whisps and blebs arsenopyrite, S - chalcopyrite, % MIN1 how/amount *R: 4f with scattered gt, not very dense clusters except locally. a pale yellow-green mineral that occurs as crystals, possibly staurolite?(see 4f above).* **********	AA11612	35.18	36.48	4F		X	
36.48	37.78	mafic to intermediate volcanics, 100, foliated, 1.5% porphyroblastic garnet, 5.5% banded biotite, 0.01% fracture filling quartz veining, 7.5% flooded quartz flooding, 0-% pyrrhotite whisps and blebs pyrrhotite *R: medium grained bvol with varying amounts of biotite. gt occur throughout the unit but are most abundant in biotitic zones, especially near the contact with 4f,4ea below.* **********	AA11613	36.48	37.78	BVOL		X	

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
37.78	43.53	garnet-biotite schist, chert-grunerite-amphibole-garnet iron formation, 90, 10, foliated, banded, 10% banded grunerite, 40% crystals garnet, 40% banded biotite, 10% banded green amphibole, 0.25% veins quartz veining, 0.01% fracture filling calcite veining, 0.75% flooded quartz flooding, 0# .% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, P - visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: similar to 4f,4ea above. more 4e bands in this unit. not as many chert bands assoc. with the 4ea bands. appears to be thick chert bands. may actually be qtz flooding. contacts with massive po. massive po. looks like it has rounded fragments within it. also appears to have enveloped some 4f and chert.* **********	AA11614 AA11616 AA11617 AA11618	37.78 39.14 40.61 42.01	39.14 40.61 42.01 43.53	4F 4F 4F 4F	4EA 4EA 4EA	9 X 9 9	1 1 1
43.53	48.67	mafic to intermediate volcanics, 100, BVOL; biotitic, foliated, 0.01% porphyroblastic garnet, 40% banded biotite, 1.5% veins quartz veining, 0.01% fracture filling calcite veining, 0 no quartz flooding, 0-% pyrrhotite whisps and blebs pyrrhotite, pervasive visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: bvol with abundant gt near upper contact with 4f.4ea. it is possible that the biotitic nature of the bvol may obscure the definite contact with 4f. thus the decreasing amount of gt near the contact with the upper unit may actually be 4f that almost grades into bvol. grey looking biotitic bvol. two biotite dykes cut the bvol at 45.55 and 45.83m. both are about 2 cm wide and are grey in colour. rounded fragments(?) in the dykes.* **********	AA11619 AA11621	43.53 47.53	44.85 48.67	BVOL BVOL		X X	
48.67	51.67	garnet-biotite schist, chert-grunerite-amphibole-garnet iron formation, 80, 20, 4F; with chert bands, foliated, heterogeneous, 20% banded grunerite, 30% crystals garnet, 40% banded biotite, 10% banded green amphibole, 0.01% veins quartz veining, 0.01% fracture filling calcite veining, 0.01% flooded quartz flooding, 0<% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, pervasive visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: mixture of 4f, 4ea, 4e and chert. not enough gu to make it a thin banded 4ea. about 80% 4f and 20% 4e and 4ea.* **********	AA11622 AA11623	48.67 50.10	50.10 51.67	4F 4F	4EA 4EA	8 8	2 2
51.67	52.25	garnet-amphibole iron formation, chert-grunerite-amphibole-garnet iron formation, 80, 20, banded, 20% banded grunerite, 15% crystals garnet, 1.5% veins quartz veining, 0 no quartz flooding, 0|% banded pyrrhotite *R: thin banded 4e, 4ea and chert. minor amounts of 4f.* **********	AA11624	51.67	52.25	4E	4EA	8	2
52.25	52.73	mafic to intermediate volcanics, 100, foliated, 3.5% banded biotite, 0.01% veins quartz veining, 0 no quartz flooding, 0-% pyrrhotite whisps and blebs pyrrhotite *R: bvol with minor amounts of biotite.* **********	AA11625	52.25	52.73	BVOL		X	
52.73	53.27	garnet-biotite schist, garnet-amphibole iron formation, 60, 40, 4F; with chert bands, foliated, banded, 3.5% banded grunerite, 20% crystals garnet, 40% banded biotite, 30% banded green amphibole, 0.01% veins quartz veining *R: alternating bands of 4f and 4e. several thin chert bands. not as much gu as above units therefore it is not a 4ea.* **********	AA11626	52.73	53.27	4F	4E	6	4
53.27	53.65	garnet-amphibole iron formation, chert-grunerite-amphibole-garnet iron formation, 90, 10, banded, 15% banded grunerite, 15% crystals garnet, 0.01% fracture filling quartz veining, 0 no quartz flooding, 0-% pyrrhotite whisps and blebs pyrrhotite *R: variably gruneritized 4e. several thin chert bands present.*	AA11627	53.27	53.65	4E	4EA	9	1

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		**********							
53.65	54.55	garnet-biotite schist, garnet-amphibole iron formation, 70, 30, 4F; with chert bands, banded, foliated, 1.5% banded grunerite, 20% crystals garnet, 50% banded biotite, 20% banded green amphibole, 0.01% veins quartz veining, 0.01% veins calcite veining, 1.5% flooded quartz flooding, 0- .% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, P - visible gold, R pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: same as above 4f,4e unit.* **********	AA11628	53.65	54.55	4F	4E	7	3
54.55	55.19	garnet-amphibole iron formation, chert-grunerite-amphibole-garnet iron formation, 90, 10, foliated, banded, 15% banded grunerite, 10% crystals garnet, 5.5% banded biotite, 0.01% veins quartz veining, . 1.5% veins calcite veining, 0 no quartz flooding, 0-% pyrrhotite whisps, blebs and fracture fillings pyrrhotite *R: same as from 53.27 to 53.65m but with up to 5% thin 4f.* **********	AA11629	54.55	55.19	4E	4EA	9	1
55.19	61.49	mafic to intermediate volcanics, 100, foliated, 0.01% porphyroblastic biotite, 3.5% veins quartz veining, 0.01% veins calcite veining, 0.01% flooded quartz flooding, 0-% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, pervasive visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: slightly biotitic bvol that is greyish to green. a biotitic dyke from 56.63 to 56.68m with black rounded clasts. the bvol before the dyke is more grey and biotitic while after the dyke the bvol is green and without biotite. after 58.0m the bvol becomes a more biotitic and grey rock.* **********	AA11631 AA11632	55.19 60.44	56.68 61.49	BVOL BVOL	8B	9 X	1
61.49	68.70	garnet-biotite schist, chert-grunerite-amphibole-garnet iron formation, 90, 10, foliated, banded, 7.5% banded grunerite, 40% crystals garnet, 50% banded biotite, 10% banded green amphibole, 0.01% veins quartz veining, 0.01% banded calcite veining, 1.5% flooded quartz flooding, 0- .% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, P - visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: similar to the 4f,4ea units above the bvol. some qtz flooding and occasional chert bands. 90% 4f with 10% 4ea and 4e.* **********	AA11633 AA11634 AA11636 AA11637 AA11638	61.49 62.97 64.43 65.90 67.40	62.97 64.43 65.90 67.40 68.70	4F 4F 4F 4F 4F	4EA 4EA 4EA 4EA 4EA	8 9 9 9 9	2 1 1 1 1
68.70	76.18	garnet-amphibole iron formation, garnet-biotite schist, 60, 40, banded, veined, 1.5% banded grunerite, 5.5% crystals garnet, 15% banded biotite, 20% banded green amphibole, 0.01% fracture filling calcite veining, 60% flooded quartz flooding, 1*- W% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, P - visible gold, R pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: strongly flooded 4e and 4f with some 4ea at the top of the unit. 60% qtz flooding, 20% 4e, 10% 4f and 10% 4ea and chert. flooding occurs as zones that range from 6cm to 100cm wide. most of the po is in the 4e and 4f but some occurs as fracture filling in the floods. au is mostly found in the 4e, 4f bands near the flooding. some specks occur in the silica. some 4b near the bottom of the unit. vg at 69.78 to 69.81m (over 12 specks), from 70.34 to 70.35 (5 specks), 71.08m (10 specks and a 2mm smear of au), 71.92 (3 specks), 72.06m (1 large speck), 74.70m (a 0.8 mm wide grain), 74.82 (a 1 mm wide grain and 3 specks), 75.04m (1 speck), 75.22m (2 specks). more than 35 specks of vg (some up to 2mm wide) over 5.5m. po is semi-massive in places.* **********	AA11639 AA11641 AA11642 AA11643 AA11644	68.70 70.21 71.60 73.08 74.64	70.21 71.60 73.08 74.64 76.18	4E 4E 4E 4E 4E	4F 4F 4F 4F 4F	6 6 6 6 6	4 4 4 4 4
76.18	80.34	chert-magnetite iron formation, garnet-biotite schist, 60, 40, banded, heterogeneous, 1.5% banded grunerite, 5.5% crystals garnet, 10% banded biotite, 7.5% banded green amphibole, 0.01% fracture filling calcite veining, 10% flooded quartz flooding, 0#*-% pyrrhotite whisps, blebs and fracture fillings	AA11645 AA11646 AA11647	76.18 77.55 79.04	77.55 79.04 80.34	4B 4B 4B	4F 4F 4F	6 6 6	4 4 4

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		pyrrhotite *R: mixture of 4b (60%), 4f (15%), 4e (10%), qtz flooding (10%) and 4ea (5%). po and au are associated with flooding. if it was more gruneritized it would be a thin banded 4ea. vg at 77.00m (1 speck) and 77.89m (a 0.5mm grain).* **********							
80.34	80.80	mafic to intermediate volcanics, garnet-biotite schist, 60, 40, foliated, 1.5% crystals garnet, 40% banded biotite, 60% banded green amphibole, 0.75% veins quartz veining, 0 no quartz flooding, 0% no pyrrhotite *R: bvol with patches of 4f in it* **********	AA11648	80.34	80.80	BVOL	4F	6	4
80.80	81.72	chert-magnetite iron formation, garnet-biotite schist, 50, 50, banded, foliated, 1.5% banded grunerite, 15% crystals garnet, 50% banded biotite, 0 no quartz flooding, 0-% pyrrhotite whisps and blebs pyrrhotite *R: interbanded 4b and 4f with minor 4e bands.* **********	AA11649	80.80	81.72	4B	4F	5	5
81.72	82.38	mafic to intermediate volcanics, 100, foliated, homogeneous, 70% pervasive biotite, 15% patchy chlorite, 0.25% veins quartz veining, 1.5% veins calcite veining, 0 no quartz flooding, 0% no pyrrhotite *R: looks like some sort of sediment. chlorite occurs as patches throughout the unit.* **********	AA11651	81.72	82.38	BVOL		X	
82.38	84.51	chert-magnetite iron formation, garnet-biotite schist, 60, 40, banded, foliated, 0.25% banded grunerite, 15% crystals garnet, 40% banded biotite, 1.5% banded green amphibole, 0.01% veins quartz veining, 0.01% veins calcite veining, 0 no quartz flooding, 0-% pyrrhotite whisps and blebs pyrrhotite *R: same as above unit. more 4e. possibly one small speck of vg. 2 specks of vg.* **********	AA11652 AA11653	82.38 83.67	83.67 84.51	4B 4B	4F 4F	6 7	4 3
84.51	93.43	garnet-biotite schist, chert-magnetite iron formation, 60, 40, banded, foliated, 1.5% banded grunerite, 20% crystals garnet, 30% banded biotite, 3.5% banded green amphibole, 0.01% veins quartz veining, 0.25% veins calcite veining, 3.5% flooded quartz flooding, 0-*- .% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, P - visible gold, . pyrrhotite whisps and blebs arsenopyrite. - chalcopyrite *R: very similar to the 4b,4f unit above except 4f is more abundant than the 4b. if it was more gruneritized it would be a thin banded 4ea. 3 small grains of vg with a cluster of smaller specks nearby. vg associated with qtz flooding.* **********	AA11699 AA11654 AA11656 AA11657 AA11658 AA11659 AA11661	84.51 85.17 86.63 88.15 89.50 91.00 92.43	85.17 86.63 88.15 89.50 91.00 92.43 93.43	4F 4F 4F 4F 4F 4F 4F	4B 4B 4B 4B 4B 4B 4B	6 6 6 6 6 6 6	4 4 4 4 4 4 4
93.43	104.13	chert-magnetite iron formation, garnet-biotite schist, 80, 20, 4B with coarse 4F near QVs/QFs, banded, . foliated, 3.5% banded grunerite, 7.5% crystals garnet, 15% banded biotite, 1.5% banded green amphibole, 0.75% veins quartz veining, 1.5% veins calcite veining, 1.5% flooded quartz flooding, 0-*-% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, pervasive visible gold, . pyrrhotite whisps and blebs arsenopyrite. - chalcopyrite *R: same as 4b,4f above. coarsest 4f and gt are near qtz floods. most of the 4f is banded, not assoc. with qtz flooding. an amph. dyke with some biotite along foliation. possible bvol dyke? cuts across banding of 4b. 1 speck of vg, assoc. with qtz flooding.* **********	AA11662 AA11663 AA11664 AA11665 AA11666 AA11667 AA11668 AA11669	93.43 94.42 95.35 96.80 98.20 99.67 101.10 102.62	94.42 95.35 96.80 98.20 99.67 101.10 102.62 104.13	4B 4B 4B 4B 4B 4B 4B 4B	4F 4F 4F 4F 4F 4F 4F	8 6 8 X 9 9 8 8	2 4 2 1 1 2 2
104.13	106.09	chert-magnetite iron formation, 100, banded, 7.5% banded grunerite, 1.5% veins calcite veining, 0 no quartz flooding, 0>*-% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, pervasive visible gold, D pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: clean 4b with alteration near carb veining. light green mineral occurs as anhedral masses that migrate along banding, away from the veins. 1 speck of vg, with po.*	AA11670 AA11671	104.13 105.11	105.11 106.09	4B 4B		X X	

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		**********							
106.09	109.71	chert-magnetite iron formation, garnet-biotite schist, 90, 10, banded, veined, 1.5% banded grunerite, 5.5% crystals garnet, 7.5% bedded biotite, 10% veins qtz-calcite veining, 5.5% veins calcite veining, 0.01% flooded quartz flooding, 0-% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, pervasive visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: 4b with up to 20% 4f locally. abundant qc veins. minor amount of the green mineral from above. in/near a thin carb filled fracture. one large qc vein from 109.10 to 109.36m.* **********	AA11673 AA11674 AA11676	106.09 107.30 108.46	107.30 108.46 109.71	4B 4B 4B	4F 4F 4F	9 8 9	1 2 1
109.71	114.50	chert-magnetite iron formation, 100, gruneritic; any unit with weak GU, banded, 10% banded grunerite, 0.75% veins quartz veining, 0.01% banded calcite veining, 0 no quartz flooding, 0<% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, pervasive visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: banded 4b that is variably gruneritized. becomes less gruneritic towards the contact with 4b,4f below.* **********	AA11677 AA11678 AA11679 AA11681	109.71 111.06 112.21 113.40	111.06 112.21 113.40 114.50	4B 4B 4B 4B		X X X X	
114.50	124.38	chert-magnetite iron formation, garnet-biotite schist, 90, 10, gruneritic; any unit with weak GU, banded, 1.5% banded grunerite, 7.5% crystals garnet, 10% banded biotite, 0.01% veins quartz veining, 0.75% banded calcite veining, 3.5% flooded quartz flooding, 0|*- W% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, P - visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: 4b with 5-20% 4f bands. a couple of fractures are hematized (potassic altern?). vg is associated with qtz flooding/veining. cluster of several large au specks and many smaller ones. cluster of many small grains of au.* **********	AA11682 AA11683 AA11684 AA11685 AA11686 AA11687 AA11688	114.50 115.69 117.10 118.58 119.99 121.45 122.87	115.69 117.10 118.58 119.99 121.45 122.87 124.38	4B 4B 4B 4B 4B 4B 4B	4F 4F 4F 4F 4F 4F 4F	9 9 9 9 9 8 9	1 1 1 1 1 2 1
124.38	127.42	chert-magnetite iron formation, 100, gruneritic; any unit with weak GU, 4B with abundant calcite laminations, banded, 50% banded grunerite, 1.5% porphyroblastic garnet, 1.5% banded biotite, 1.5% banded calcite veining, 0 no quartz flooding, 0>% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, pervasive visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: intensely gruneritized 4b that is medium to coarse grained. several 4f bands occur. many thin carb laminations along banding.* **********	AA11689 AA11690	124.38 125.91	125.91 127.42	4B 4B		X X	
127.42	131.67	chert-magnetite iron formation, 100, 4EA; coarsely crystalline, gruneritic; any unit with weak GU, banded, 50% banded grunerite, 3.5% veins quartz veining, 1.5% banded calcite veining, 3.5% flooded quartz flooding, 0>% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, pervasive visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: coarse grained version of the 4b above. bands are >2cm wide. qtz floodng/veining obscures the width of some of whe bands. many carb laminations along banding.* **********	AA11691 AA11692 AA11694	127.42 128.71 130.18	128.71 130.18 131.67	4B 4B 4B		X X X	
131.67	137.74	chert-magnetite iron formation, garnet-biotite schist, 90, 10, gruneritic; any unit with weak GU, banded, crenulated, 15% banded grunerite, 5.5% crystals garnet, 5.5% banded biotite, 3.5% veins quartz veining, 0.25% banded calcite veining, 0 no quartz flooding, 0%% massive pyrrhotite *R: gruneritized 4b with 5-10% 4f. many bands are kinked. po occurs in massive bands some of which are up to 12cm thick. most of the bands are equal to or less than 1 cm thick.* **********	AA11696 AA11697 AA11698 AA11701 AA11702	131.67 133.07 134.49 135.97 136.90	133.07 134.49 135.97 136.90 137.74	4B 4B 4B 4B 4B	4F 4F 4F 4F 4F	9 9 9 9 8	1 1 1 1 2
137.74	143.97	chert-magnetite iron formation, 100, banded, 7.5% banded grunerite, 1.5% porphyroblastic garnet, 5.5% banded biotite, 1.5% flooded quartz flooding, 0# .-% pyrrhotite whisps, blebs and fracture	AA11703 AA11704	137.74 138.86	138.86 140.24	4B 4B	 4EA	X 9	 1

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		fillings pyrrhotite, pervasive visible gold, . pyrrhotite whisps and blebs arsenopyrite, - chalcopyrite *R: 4b that is variably gruneritized. up to 5% 4f locally. a zone of 4e/4ea occurs from 139.43 to 139.64m. po occurs as whisps to massive and semi-massive bands. the widest band is 5cm. the more massive bands occure proximal to the 4e/ea zone. the more semi-massive bands occur before the contact with the ultramfic unit below. difficult to distinguish between qtz veining and flooding.* **********	AA11705 AA11706 AA11707	140.24 141.73 143.11	141.73 143.11 143.97	4B 4B 4B		X X X	
143.97	147.95	ultramafic, 100, foliated, 3.5% banded biotite, 3.5% banded green amphibole, 3.5% banded chlorite, 3.5% flooded quartz flooding, 0%% disseminated pyrrhotite *R: ultramafic flows that appear to be banded at the contact with the 4b above. the contact is somewhat gradational and is in part obscurred by the presence of qtz flooding/veins. possible gu and chert bands near the contact. the rest of the unit is fairly homogenous and is foliated. gradational contact with 2vol below.* **********	AA11708	143.97	145.47	1		X	
147.95	149.09	basement basalt, 100, foliated, 3.5% banded biotite, 0.01% fracture filling qtz-calcite veining, 0 no quartz flooding, 0% no pyrrhotite *R: light green 2vol with up to 4% biotite along the foliation. gradational contact with 1 above. a band of brown to black crystals with interstitial qtz, near the contact. probably amphibole.* ********** *eoh*							
149.09		** END OF HOLE **							

DDH: 506-961
SECTION: 11253.25N
EASTING: 8101.71E
ELEVATION: 5305.20 m
DIP: -50°
AZIMUTH: 228°
DATE STARTED: August 29, 1995
DATE FINISHED: August 31, 1995
DATE LOGGED: October 12, 1995
LENGTH: 106.27 m
DEPTH OF OVERBURDEN: 4.00 m
LOCATION: 46.7 m south and 148.0 m east to Post 4 of claim Pa 369746

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-961

Date: 18th Mar, 1996
Northing : 11253.25
Easting : 8101.71
Elevation : 5305.20
Hole Depth : 106.27mt

Grid Azimuth: 317.95
Coord System:

Project ID : 506E
Core Size : NQ
Date Logged : 12OCT95
Logged By : JMW
Assisted by :
Drillers : MIDW
Drill date : AUG95
Rig Type :
Drill Time :
Print Template : ASSESS1.FMT
Gtran Version : 3.5.8

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	228.00	-50.00
5.00mt	228.00	-49.50
41.00mt	228.00	-48.50
86.00mt	228.00	-46.50
106.20mt	228.00	-45.00

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
0.00	4.00	overburden, 100 *R: casing to 4.3m* **********	AA9787	3.98	5.00	4F		X	
4.00	13.75	garnet-biotite schist, garnet-amphibole iron formation, 70, 30, heterogeneous, interbedded, 1.5% banded grunerite, 20% porphyroblastic garnet, 40% banded biotite, 15% banded green amphibole, 0.25% veins quartz veining, 0.25% veins qtz-calcite veining, 3.5% flooded quartz flooding, 0% blebs pyrrhotite, P - visible gold, . pyrrhotite whisps and blebs arsenopyrite, microveins chalcopyrite *R: a heterogeneous . interbedded mixture of 4f and 4e. the 4f component is dark gray to charcoal gray and black with moderately abundant 1-2mm sub-hedral to anhedral pinkish garnets. grain size of this unit is variable and where it is coarser there appears to be a concomitant decrease in garnet abundance and grades into bands of what might be called bvol on this property. it is my opinion that these coarser non or weakly garnetiferous bands represent coarser grained meta-sediments and are not true the true "bvol" that occurs in the volcanics. the 4e component is comprised predominantly of fine grained green amphibole that is variably garnet porphyroblastic with minor amounts of cherty bands that are locally remobilized (flooded) sulphide mineralization is restricted to the 4e intervals where py (or possibly non-magnetic po) occurs as wisps and blebs. trace cpy present. grunerite as felted masses with a crude banded texture assoc with 4e component. rarely see the 4ea mode of occurence where gu completely envelopes garnet in selected bands(one occurence at 6.9m) this unit appears to represent mixed or interbedded clastic sediments(meta-pelites) and interbands of silicate facies iron formation(4e). no banded magnetite present. no significant mineralization but observed sulphide assoc with the chemical component(4e) highly irregular and reversal of banding indicates folding at 6.to 10.0m strongly foliated (sheared ?) at 4.75 to 4.95 with ms abundant along foliation planes. recrystallized and remobilized chert or possible flooding within the garnetiferous amphibolite bands. the 4f bands appear to be complexly infolded with the 4e. only 3-5% 4f present. essentially 4e with significant qtz flooding or veining? po as diss grains in dark green amphibole but as as blebs and clots assoc with the silica flooding. po is a pale (almost whiteish) colour and non- magnetic to only very weakly magnetic. (intergrown aspy or loellingite ?) coarsly banded/interbedded 4f with interbeds of silicate if 4f "beds" typically in 2 to 20cm range. 4e interbeds are typically 2 to 10cm thick and compositionally zoned into chert bands and dark green amphibole +/- garnet. minor po present assoc with the if bands. dark green fine grained amphibolite at 10.0 to 10.2. the remainder of the interval is compositionally banded and variably garnetiferous 4f with occasional cherty bands. variation in garnet abundance appears to be a function of matrix grain size. finer grained bands are more garnet rich probable meta-seds ranging from fine grained to silt or clay. primary textures obscured but graded bedding is a distinct possibility. interbedded 4f and silicate if.(chert/amphibole bands)*	AA9788	5.00	6.42	4F	BVOL	6	4
			AA9789	6.42	7.50	4E	4F	8	2
			AA9790	7.50	8.52	4E	4F	9	1
			AA9792	8.52	10.00	4F	4E	9	1
			AA9793	10.00	11.50	4F	4E	9	1
			AA9794	11.50	13.00	4F	4E	8	2
			AA9796	13.00	13.75	4F	4E	6	4

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		**********							
13.75	14.85	mafic to intermediate volcanics, 100, homogeneous, foliated *R: gray foliated and compositionally banded "bvol" this rock is not the true "bvol" but probable meta-graywacke with silty interbeds. clean rock with no flooding.qtz-carb veins or mineralization.* **********	AA9797	13.75	14.85	BVOL		X	
14.85	16.37	mafic to intermediate volcanics, garnet-amphibole iron formation, 90. 10. banded, interbedded, 3.5% porphyroblastic garnet, 10% pervasive biotite *R: meta-gwke as above but sparsely garnetiferous. garnet as 1-3mm porphyroblasts in the gwke beds. 4e interbeds are mainly dark green variably garnetiferous amphibolite with minor cherty interbeds. no significant mineralization or veining.* **********	AA9798	14.85	16.37	BVOL	4E	9	1
16.37	20.84	mafic to intermediate volcanics, 100, foliated, banded *R: gray foliated and banded meta-gwke as at 13.75 to 14.85m with occasional pale gray siliceous interbeds from 1-3cm thick that have the appearance of arkose or quartzite. unit becoming finer grained with sparse garnets from 20.0 to lower contact. the gradation from coarser grained to finer grained going downhole might suggest younging direction is facing west at this location. foliation is locally seen to be oblique to bedding as at 18.0m (see strip log).* **********	AA9799 AA9801 AA9802	16.37 18.00 19.50	18.00 19.50 20.84	BVOL BVOL BVOL		X X X	
20.84	28.94	garnet-biotite schist, garnet-amphibole iron formation, 90, 10, banded, porphyroblastic, 0.75% banded grunerite, 15% porphyroblastic garnet, 40% pervasive biotite, 5.5% banded green amphibole *R: heterogeneous.compositionally banded mixture of 4f and interbedded silicate iron formation. the 4f component might be described as a 4f/bvol mix since the metasediments are not uniformly garnetiferous. the fine grained? bands are typical garnet-biotite schist whereas others are dark gray. non-garnetiferous and possibly coarser grained. the 4e bands are interbedded chert and amphibole +/- gu as weakly developed alteration bands. they are non-magnetic. magnetite bands are absent which raises the question of how the gu formed. perhaps mt was present in small amounts and has been completely altered to gu? banding is variable suggesting large scale fold structures and there is a 5mm to 1cm thick re-folded qtz vein at 25m. (refer to strip log). 2-3% silicate if interbeds. as above with minor 4e interbeds. 2-4% 4e interbeds. 2-3% 4e interbeds. it may be more apparent than real but 4e interbeds are more abundant toward lower contact.* **********	AA9803 AA9804 AA9805 AA9806 AA9808 AA9809	20.84 22.00 23.50 25.00 26.50 28.00	22.00 23.50 25.00 26.50 28.00 28.94	4F 4F 4F 4F 4F 4F	 4E 4E	X X X X 9 8	 1 2
28.94	32.20	chert-magnetite iron formation, garnet-biotite schist, 80, 20, 4B with coarse 4F near QVs/QFs, veined, foliated, 15% patchy grunerite, 5.5% porphyroblastic garnet, 15% banded biotite, 10% banded green amphibole, 0.25% patchy chlorite, 5.5% patchy carbonate, 30% banded magnetite, 3.5% fracture filling calcite veining, 30% flooded quartz flooding, 0|% pyrrhotite whisps, blebs and fracture fillings pyrrhotite *R: extensively qtz flooded and possibly veined heterogeneous mixture of 4b and 4f. gu as irregular patches.bands and fracture fills. po as blebs and clots within qtz floods but also as diss grains in amphibole that occurs with some of the floods. very difficult to determine whether or not the silica represents veins or floods. locally see "bullseye" structures indicative of folding but in general the structures have been completely obscured by the flooding/veining. a grunerite coloured carbonate locally occurs at flood margins or as "inclusions" within the qtz. the banded 4b/4f texture is preserved at 29.4 to 29.6m and sporadically from 31.0 to lower contact where flooding is not pervasive. this unit marks the first appearance of banded magnetite in the hole and may represent a facies change from*	AA9810 AA9811 AA9812	28.94 30.00 31.00	30.00 31.00 32.20	4B 4B 4B	4F 4F 4F	8 8 8	2 2 2

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		silicate to oxide iron formation. the magnetic susceptibility readings increase by a factor of 10 or more. **********							
32.20	36.85	chert-magnetite iron formation, garnet-biotite schist, 50, 50, gruneritic; any unit with weak GU, banded, interbedded, 3.5% banded grunerite, 15% porphyroblastic garnet, 40% banded biotite, 1.5% banded green amphibole, 0.75% banded carbonate, 15% banded magnetite, 1.5% veins quartz veining, 0.75% veins qtz-calcite veining, 1.5% fracture filling calcite veining *R: heterogeneous interbedded mixture of chert/mt bif and 4f. banding is well defined and typically the bands are in the 3mm to 1 cm range. pale greenish carbonate bands are a minor component. approximately 20% of the bands are pale blueish-gray sucrosic textured recrystallized chert with 1-2% diss mt grains. the other bands are true 4f and fine grained and laminated mt and cherty mt. grunerite as alteration margins of mt or chert bands with diss. mt. rock has an evenly banded appearance suggestive of graded beds. no significant mineralization or flooding. folding is indicated by the rotation of the high-low points of beds along oriented core axis.* **********	AA9813 AA9814 AA9816 AA9817	32.20 33.00 34.50 36.00	33.00 34.50 36.00 36.85	4B 4B 4F 4B	4F 4F 4B 4F	5 7 6 5	5 3 4 5
36.85	43.87	garnet-biotite schist, chert-magnetite iron formation, 60, 40, banded, foliated, 20% porphyroblastic garnet, 40% pervasive biotite, 5.5% banded green amphibole, 20% banded magnetite *R: heterogeneous,interbanded and folded 4f/4b. different looking than above in that distinct chert bands comprise only about 2-4% of the rock and the banding (bedding) is not even throughout. rock also has a higher 4f component. grunerite is absent.* **********	AA9818 AA9819 AA9821 AA9822 AA9823	36.85 38.00 39.50 41.00 42.50	38.00 39.50 41.00 42.50 43.87	4F 4F 4B 4B 4B	4B 4B 4F 4F 4F	7 7 7 6 7	3 3 3 4 3
43.87	44.60	mafic to intermediate volcanics, 100, BVOL; biotitic, foliated, homogeneous, 40% pervasive biotite *R: not the true "bvol" but a dark gray, fine grained biotitic meta-gwke. non-magnetic. minor gray and more felsic quartzo-feldspathic bands might represent more arkosic sediments. upper contact indistinct and coincident with an irregular fracture. lower contact sharp and marked by sudden appearance of thin mt laminae.* **********	AA9824	43.87	44.60	BVOL		X	
44.60	56.48	chert-magnetite iron formation, garnet-biotite schist, 60, 40, banded, interbedded, 15% porphyroblastic garnet, 20% banded biotite, 3.5% banded green amphibole, 50% banded magnetite, 0.75% veins qtz-calcite veining *R: interbedded sequence of alternating 4b and 4f beds. beds typically a few mm to 4cm thick. 4f beds are typical massive garnet-biotite whereas the 4b bands are thinly banded to laminated and interlayered mt , cherty mt and chert. has the appearance of a repetitive sequence of graded beds comprised of chert/mt capped by 4f. with more stretching and attenuation of the bands , this could easily be equivalent to the "tb" 4b unit. weak grunerite alteration as margins along some but not all mt bands. becoming finer banded with decreasing 4f component toward lower contact. lower contact gradational but marked by the appearance of thick (5mm to 4cm) cherty gray bands.* **********	AA9825 AA9826 AA9827 AA9828 AA9829 AA9831 AA9832 AA9833	44.60 46.00 47.50 49.00 50.50 52.00 53.50 55.00	46.00 47.50 49.00 50.50 52.00 53.50 55.00 56.48	4B 4B 4B 4B 4B 4B 4B 4B	4F 4F 4F 4F 4F 4F 4F 4F	5 6 6 5 7 5 6 7	5 4 4 5 3 5 4 3
56.48	58.55	chert-magnetite iron formation, 100, banded, laminated, 70% banded magnetite *R: very thinly banded to laminated chert/mt if with occasional thin (2-5mm) 4f interbeds.* **********	AA9834 AA9836	56.48 57.50	57.50 58.55	4B 4B		X X	
58.55	61.02	chert-magnetite iron formation, garnet-biotite schist, 90, 10, gruneritic; any unit with weak GU, heterogeneous, banded, 3.5% banded grunerite, 5.5% porphyroblastic garnet, 5.5% banded biotite, 3.5% banded green amphibole, 0.75% banded carbonate, 70% banded magnetite, 5.5% veins qtz-calcite veining, 7.5% veins calcite veining	AA9837 AA9838	58.55 59.34	59.34 61.02	4B 4B	4F 4F	8 9	2 1

DDH: 506-968
SECTION: 11402.94N
EASTING: 8107.71E
ELEVATION: 5304.70 m
DIP: -50°
AZIMUTH: 228°
DATE STARTED: September 6, 1995
DATE FINISHED: September 7, 1995
DATE LOGGED: November 22, 1995
LENGTH: 155.09 m
DEPTH OF OVERBURDEN: 4.30 m
LOCATION: 68.5 m north and 52.2 m east to Post 3 of claim Pa 369767

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-968

Date: 18th Mar. 1996
Northing : 11402.94
Easting : 8107.71
Elevation : 5304.70
Hole Depth : 155.09mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	228.00	-50.00
8.00mt	228.00	-51.00
56.00mt	228.00	-50.50
104.00mt	228.00	-50.00
137.00mt	228.00	-49.50
155.00mt	228.00	-48.50

Grid Azimuth: 317.95
Coord System:

Paul Brown

Project ID : 506E
Core Size : NQ
Date Logged : 22NOV95
Logged By : JMW
Assisted by :
Drillers : MIDW
Drill date : SEP95
Rig Type :
Drill Time :
Print Template : ASSESS1.FMT
Gtran Version : 3.5.8

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
0.00	4.30	overburden. 100 *R: drillers report casing to 4.9m and approximate bedrock ledge at 4.3m. actual core recovery begins at 5.3m as measured back from 1st marker tag at 8.0m* **********							
4.30	20.50	garnet-biotite schist, 100, 4F; with chert bands, porphyroblastic, schistose, 20% porphyroblastic garnet, 60% pervasive biotite, semi-massive visible gold, I stringers arsenopyrite, 1 chalcopyrite *R: typical biotite-garnet schist with up to 10% greenish yellow staurolite porphyroblasts and occasional silica bands that appear to be recrystallized chert no significant mineralization or qtz flooding.* **********							
20.50	25.63	mafic to intermediate volcanics, 100, homogeneous, foliated, 15% pervasive biotite *R: this unit is not true bvol. the rock is a uniform light gray,weakly foliated and crudely banded meta-gwke with a gritty or clastic texture. predominantly feldspar and qtz with 10-15% biotite. (arkosic wacke). no significant mineralization.* **********							
25.63	27.07	garnet-biotite schist, 100, porphyroblastic, schistose, 20% porphyroblastic garnet, 70% pervasive biotite *R: typical 4f with an interbed of bvol at 26.18 to 26.38m. interval above the bvol interbed is very fine grained biotite-chlorite schist with minor garnet porphyroblasts. lower contact is marked by the sudden appearance of dark green amphibole and qtz that appears to be recrystallized chert.* **********	AA12183	26.00	27.07	4F		X	
27.07	32.40	mafic to intermediate volcanics, garnet-amphibole iron formation, 70, 30, BVOL: biotitic, interbedded, banded, 1.5% porphyroblastic garnet, 30% banded biotite, 30% banded green amphibole, 0.75% veins quartz veining, 0<% blebs pyrrhotite *R: this interval is a mixture of interbedded biotitic bvol and dark green amphibolite with minor recrystallized chert beds the amphibolite bands are variably garnetiferous and would therefore be considered as 4e. it is not possible to say with certainty that these 4e bands represent chemical sediments (iron formation) but at 31.5m there are several thin beds that are convincingly chert. it is possible that the banding present is partly primary (bedding) and partly formed during metamorphism (compositional layering). or could this be just a lean facies of iron formation ? the bvol bands are fine grained and biotitic with minor garnets to 1mm with the exception of the interval from 27.07 to 27.9*	AA12184 AA12185 AA12186 AA12187 AA12188	27.07 28.00 28.83 30.08 31.50	28.00 28.83 30.08 31.50 32.40	BVOL BVOL 4E BVOL BVOL	4E 4E 4E	9 X X 5 5	1 5 5

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		which is coarser grained and gives the distinct impression of meta-gwke. sulphides are rare with the exception of 28.83 - 29.8 where po occurs as blebs,diss grains and fracture fills in a silica rich portion of 4e. biotitic bvol or metagwke. amphibolite or lean iron formation interbedded bvol and 4e or amphibolite. bvol component becoming finer grained downhole where the rock grades into 4f with interbedded 4e. **********							
32.40	35.64	garnet-biotite schist, garnet-amphibole iron formation, 90, 10, porphyroblastic, foliated, 0.01% banded grunerite, 10% porphyroblastic garnet, 70% banded biotite, 5.5% banded green amphibole *R: biotite-garnet schist with moderately abundant small garnet porphyroblasts (0.5 to 1.5mm) and minor interbeds of dark green amphibolite (4e) that locally give the impression of being infolded. trace po as blebs in a few of the 4e bands but not significantly mineralized.* **********	AA12189 AA12190	32.40 34.00	34.00 35.64	4F 4F	4E 4E	9 9	1 1
35.64	39.00	garnet-biotite schist, 100, heterogeneous, porphyroblastic, 15% porphyroblastic garnet, 60% pervasive biotite *R: metasediments. heterogeneous mixture of biotite-garnet schist. coarser fraction is noteably less garnetiferous. well foliated to schistose with locally contorted texture. minor sucrosic white qtz veins. lower contact is very distinct but irregular and appears to be folded. no significant mineralization.* **********	AA12191 AA12192 AA12193	35.64 37.00 38.50	37.00 38.50 39.00	4F 4F 4F		X X X	
39.00	40.44	sulphide iron formation, 100, heterogeneous, 40% crystals grunerite, 50% flooded quartz flooding, 1% semi-massive pyrrhotite *R: this unit does not fit any of the rock type descriptions on this property but has been called 4h due to the strong and locally massive po mineralization. rock has a heterogeneous coarse grained texture and is predominantly qtz and amphibole. the amphibole is a pale "granny smith apple green" colour and the xtals are up to a few cm in size in a granular or recrystallized quartzose matrix. po occurs as large blebs and semi-massive aggregates. interval from 40.04 to 40.44 is essentially massive po with a net texture supporting stretched out amphibolite fragments and possible minor chert. upper and lower contacts irregular. interval might be some type of mineralized qtz-amphibole vein within 4f.* **********	AA12194 AA12196	39.00 40.04	40.04 40.44	4H 4H		X X	
40.44	42.05	garnet-biotite schist, garnet-amphibole iron formation, 90, 10, porphyroblastic, interbedded, 20% porphyroblastic garnet, 70% pervasive biotite, 5.5% banded green amphibole *R: typical 4f with minor interbands of green amphibolite (4e) true proportions closer to 96/04 rather than 90/10 given in the "p-line" above. banding/bedding essentially perpendicular to foliation. relative core orientation lost at the upper contact as core does not lock. no significant mineralization but there is a 1.5cm po enriched band at 41.91m lower contact is very gradational and indistinct. it is noted as a change in texture and colour.* **********	AA12197 AA12199	40.44 41.05	41.05 42.05	4F 4F		X X	
42.05	46.40	mafic to intermediate volcanics, 100 *R: massive to weakly foliated,uniform,fine grained rock that is a light gray colour. moderately hard and siliceous. probable volcanics of tuffaceous origin that are felsic to intermediate in composition.(dacite) weak foliation is defined by biotite flattened parallel to foliation planes. predominantly fine grained but locally appears to be slightly coarser with an increased biotite content. not the same unit as the "gwke" which is also called bvol. no significant mineralization,veining or flooding.* **********	AA12201 AA12202 AA12203 AA12204	42.05 43.50 45.00 45.80	43.50 45.00 45.80 46.40	BVOL BVOL BVOL BVOL		X X X X	
46.40	50.77	garnet-amphibole iron formation, garnet-biotite schist, 60, 40, gruneritic; any unit with weak GU, banded, foliated, 5.5% banded grunerite, 15% porphyroblastic garnet, 30% banded biotite, 40%	AA12205 AA12206	46.40 47.00	47.00 48.00	4E 4E	4F 4F	7 6	3 4

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		banded green amphibole, 0.75% veins qtz-calcite veining, 0-% blebs pyrrhotite	AA12207	48.00	49.00	4E	4F	8	2
		R: heterogeneous interbedded and folded 4e/4f with weakly developed 4ea texture locally. bands of	AA12209	49.00	50.00	4F	4E	6	4
		chert,dark green amphibole +/- garnet and grunerite. sulphides rare. best described as a silicate	AA12210	50.00	50.77	4F	4E	7	3
		facies if with interbedded metasediments (4f bands) this interval is distinguished by a lack of magnetite and carbonate. (which raises the question of the origin of the grunerite.) banding/bedding is irregularly folded and contorted qtz-carb veins at 48.4 and 48.7 are rotated 90 degrees to general banding orientation at 15-20 dca. **********							
50.77	53.84	garnet-biotite schist, garnet-amphibole iron formation, 90, 10, 4F; with chert bands, porphyroblastic,	AA12211	50.77	52.00	4F	4E	9	1
		heterogeneous, 15% porphyroblastic garnet, 70% pervasive biotite	AA12212	52.00	53.00	4F		X	
		R: typical 4f with occasional chert bands. banding is highlighted by what appears to be sedimentary	AA12213	53.00	53.84	4F	4E	9	1
		beds of variable grain size. finer grained bands are more typical schistose 4f whereas what appear to be slightly coarser sediment is more of a non-garnetiferous very fine grained gwke or coarse siltstone. no significant mineralization. minor interbeds of amphibolite (4e) **********							
53.84	57.78	chert-grunerite-amphibole-garnet iron formation, 100, 4EA; thinly banded; finely crystalline, gruneritic;	AA12214	53.84	55.00	4EA		X	
		any unit with weak GU, banded, heterogeneous, 5.5% banded grunerite, 10% porphyroblastic garnet,	AA12216	55.00	56.00	4EA		X	
		30% banded biotite, 30% banded green amphibole, 3.5% banded magnetite, 0< .% massive	AA12217	56.00	57.00	4EA		X	
		pyrrhotite, - visible gold	AA12218	57.00	57.78	4EA		X	
		R: heterogeneous interbedded and folded unit comprised of thin bands (0.5mm to 2cm;rare amphibolite beds to +/-5cm) of 4e,chert,mt and gruneritic garnetite and 4f. poorly mineralized. minor po blebs disseminated in the chert bands and a 1cm band of massive po with a large clot of intergrown cpy at 57.28m. **********							
57.78	59.18	mafic to intermediate volcanics, 100, BVOL; biotitic, uniform, foliated, 0.25% porphyroblastic garnet,	AA12219	57.78	59.18	BVOL		X	
		5.5% pervasive biotite							
		R: gray biotitic gwke unit with sparse garnet porphyroblasts throughout. garnets are 1-4mm in size.							
		foliation defined by biotite partings along foliation and bedding planes. no significant mineralization. **********							
59.18	59.88	garnet-amphibole iron formation, 100, heterogeneous, banded, 3.5% porphyroblastic garnet, 3.5%	AA12221	59.18	59.88	4E		X	
		banded biotite, 60% banded green amphibole, 1.5% banded magnetite							
		R: predominantly dark green amphibolite with minor bands of chert,mt and 4f. appears to be a narrow interval of silicate if within a gwke sequence. **********							
59.88	63.29	mafic to intermediate volcanics, 100, BVOL; biotitic, uniform, foliated	AA12222	59.88	61.50	BVOL		X	
		R: same as interval at 57.78 to 59.18m **********	AA12223	61.50	62.50	BVOL		X	
			AA12224	62.50	63.29	BVOL		X	
63.29	71.15	garnet-biotite schist, chert-grunerite-amphibole-garnet iron formation, 90, 10, porphyroblastic,	AA12226	63.29	64.00	4F	4E	9	1
		interbedded, 1.5% banded grunerite, 15% porphyroblastic garnet, 70% pervasive biotite, 3.5% banded	AA12227	64.00	65.50	4F		X	
		green amphibole, 0.75% veins quartz veining	AA12228	65.50	67.00	4F	4E	9	1
		R: biotite-garnet schist with 2-5% interbeds of iron formation the iron formation bands are typically	AA12229	67.00	68.50	4F		X	
		1-3cm thick and are variable in composition. some are dark green 4e,some are chert and/or	AA12230	68.50	70.00	4F	4E	8	2
		chert/grunerite and some are strongly gruneritized "garnetite" the if bands are occasionally weakly	AA12231	70.00	71.15	4F	4E	8	2
		magnetic this appears to be from diss po in the chert bands rather than mt. lower contact is transitional but placed at the 1st appearance of mt occuring with chert as the rock grades into a 4b with interbedded 4f. this unit is not significantly mineralized. there is a 1cm thick folded qtz vein in this							

From	To	Geology	SAMPLE A001	FROM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		interval that reveals some interesting structural information. the qtz is of the same colour and texture as a chert band that is parallel to banding but the vein merges with this chert band and it is impossible to tell whether or not the vein is "flooding" ie.-derived from the chert. the vein clearly is x-cutting foliation (bedding?) this piece kept for a specimen sample. 1-2% 4e bands. **********							
71.15	90.79	chert-magnetite iron formation, garnet-biotite schist, 50, 50, gruneritic: any unit with weak GU, banded, interbedded, 1.5% banded grunerite, 15% porphyroblastic garnet, 20% banded biotite, 30% banded green amphibole, 15% banded magnetite, 0.25% veins quartz veining, 0.75% flooded quartz flooding, 0>*1% semi-massive pyrrhotite *R: more or less regularly banded and interbedded unit with bed thickness typically from a few mm to +/- 1cm. many of the 4f bands are green and amphibolitic rather than true biotite-garnet schist. this unit is not significantly mineralized except from 72.65 to 73.1 where vg was noted with qtz flooding and 5-10% po as massive stringers or crude bands and also as coarse patches and blebs within the "flood" qtz. this interval is more notably more gruneritic and perhaps thinner banded than otherwhere. also more flooding. beds 1-4cm thick. chert beds have gruneritized margins and contain diss po blebs.* **********	AA12232	71.15	72.00	4B	4F	6	4
			AA12233	72.00	72.59	4B		X	
			AA12234	72.59	73.17	4B	4F	9	1
			AA12136	73.17	74.00	4B	4F	8	2
			AA12137	74.00	75.00	4B	4F	9	1
			AA12138	75.00	76.00	4B	4F	5	5
			AA12139	76.00	77.00	4B	4F	6	4
			AA12141	77.00	78.00	4B	4F	5	5
			AA12142	78.00	79.00	4F	4B	6	4
			AA12143	79.00	80.00	4F	4B	6	4
			AA12144	80.00	81.00	4F	4B	7	3
			AA12145	81.00	82.00	4F	4B	9	1
			AA12247	82.00	83.00	4F	4B	9	1
			AA12248	83.00	84.00	4F	4B	8	2
			AA12249	84.00	85.00	4F	4B	6	4
			AA12250	85.00	86.00	4F	4B	6	4
			AA12251	86.00	87.00	4B	4F	5	5
			AA12252	87.00	88.00	4F	4B	6	4
			AA12253	88.00	89.00	4B	4F	7	3
			AA12254	89.00	90.00	4B	4F	5	5
			AA12256	90.00	90.79	4B	4F	6	4
90.79	97.33	chert-magnetite iron formation, chert-grunerite-amphibole-garnet iron formation, 50, 50, gruneritic; any unit with weak GU, 4EA; coarsely crystalline, heterogeneous, interbedded, 10% banded grunerite, 15% porphyroblastic garnet, 5.5% banded biotite, 3.5% banded green amphibole, 40% banded magnetite, 7.5% veins quartz veining *R: heterogeneous interbedded and folded mixture of 4ea and 4b. this unit might be considered as marginal 4ea. bands of chert,mt,chert/mt,4e,4f and grunentized "garnetite" qtz veined or flooded but no significant sulphide mineralization. fold structures are locally contorted and complex.* **********	AA12257	90.79	91.53	4B	4F	6	4
			AA12258	91.53	92.50	4EA		X	
			AA12259	92.50	93.50	4EA		X	
			AA12261	93.50	94.50	4B	4EA	7	3
			AA12262	94.50	95.50	4B	4F	6	4
			AA12263	95.50	96.50	4B	4EA	6	4
			AA12264	96.50	97.33	4B	4F	7	3
97.33	104.24	chert-magnetite iron formation, garnet-biotite schist, 60, 40, interbedded, porphyroblastic, 15% porphyroblastic garnet, 30% banded biotite, 30% banded magnetite *R: this is a evenly banded unit comprised of interbedded 4f and chert/mt bands. band thickness is typically a few mm to +/- 1cm and the chert/mt bands are internally laminated. occasional chert/mt bands to 3cm thick. minor qtz veining. no significant mineralization.* **********	AA12265	97.33	98.00	4B	4F	7	3
			AA12266	98.00	99.50	4B	4F	6	4
			AA12267	99.50	101.00	4B	4F	6	4
			AA12268	101.00	102.50	4B	4F	6	4
			AA12269	102.50	104.24	4B	4F	6	4
104.24	113.38	chert-magnetite iron formation, 100, 4EA; thinly banded; finely crystalline, laminated, banded, 3.5% porphyroblastic garnet, 1.5% banded biotite, 5.5% banded green amphibole, 60% banded magnetite, 1.5% veins qtz-calcite veining, 0<% blebs pyrrhotite *R: thin banded and laminated chert/mt if with interbedded "4f" most of the "4f" bands appear to be a mixture of green amphibole (chlorritized) and possibly minor biotite +/- garnet (0.1 to 0.3mm) approx*	AA12270	104.24	105.00	4B		X	
			AA12271	105.00	106.00	4B		X	
			AA12272	106.00	107.50	4B		X	
			AA12274	107.50	109.00	4B		X	
			AA12276	109.00	110.50	4B		X	

From	To	Geology	SAMPLE A001	FRCM A001	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		5-10% "4f bands. local qtz-carb "flooding". unit is not significantly mineralized. po occasionally as blebs within the thicker chert bands. **********	AA12277	110.50	112.00	4B		X	
			AA12278	112.00	113.38	4B		X	
113.38	114.60	garnet-biotite schist, chert-magnetite iron formation, 60, 40, banded, heterogeneous, 10% porphyroblastic garnet, 40% banded biotite *R: coarser banded than above. heterogeneous mix of 4f/4b. minor qtz flooding with po.* **********	AA12279	113.38	114.60	4F	4B	6	4
114.60	122.26	chert-magnetite iron formation, 100, gruneritic; any unit with weak GU, banded, interbedded, 10% banded grunerite, 40% banded magnetite *R: regularly banded and interbedded chert/mt if. mt bands are moderately to strongly gruneritized. some of these bands are a buff colour and strongly reactive to hcl. (bedded carbonate?) very minor qtz flooding and po mineralization. band thickness ranges from a few mm to 1.5cm throughout and the sequences are repetitive like graded beds.* **********	AA12281	114.60	115.50	4B		X	
			AA12282	115.50	117.00	4B		X	
			AA12283	117.00	118.50	4B		X	
			AA12284	118.50	120.00	4B		X	
			AA12285	120.00	121.50	4B		X	
			AA12286	121.50	122.26	4B		X	
122.26	126.65	chert-magnetite iron formation, 100, 4EA; coarsely crystalline, gruneritic; any unit with weak GU, banded, interbedded, 15% banded grunerite, 60% banded magnetite *R: coarse banded 4b with mt bands moderately to strongly gruneritized. occasional 4f bands (1-2%). localized qtz flooding with minor po. some of the qtz floods appear to be remobilized chert bands.* **********	AA12287	122.26	123.50	4B		X	
			AA12288	123.50	125.00	4B		X	
			AA12289	125.00	126.65	4B		X	
126.65	138.68	chert-grunerite iron formation, 100, 4EA; coarsely crystalline, gruneritic; any unit with weak GU, banded, interbedded, 40% banded grunerite, 10% banded magnetite, 3.5% flooded quartz flooding *R: this unit is the coarse textured chert/mt iron formation as above but the mt beds have been intensly gruneritized to the point that only relict mt can be observed. these grunerite bands are weakly to moderately magnetic. biotite lamprophyre dyke. (pebble dyke)* **********	AA12291	126.65	127.00	8B	4B	9	1
			AA12292	127.00	128.50	4A		X	
			AA12293	128.50	130.00	4A		X	
			AA12294	130.00	131.50	4A		X	
			AA12296	131.50	133.00	4A		X	
			AA12297	133.00	134.50	4A		X	
			AA12298	134.50	136.00	4A		X	
			AA12299	136.00	137.50	4A		X	
			AA12301	137.50	138.68	4A		X	
138.68	141.50	chert-magnetite iron formation, garnet-biotite schist, 90, 10, gruneritic; any unit with weak GU, banded, interbedded, 10% banded grunerite, 3.5% porphyroblastic garnet, 5.5% banded biotite, 60% banded magnetite, 1.5% flooded quartz flooding, 0-% blebs pyrrhotite *R: chert/mt iron formation with 5 - 10% 4f interbeds. minor qtz flooding. po as blebs in chert bands and assoc with flooding. mt bands are moderately gruneritized.* **********	AA12302	138.68	140.00	4B	4F	9	1
			AA12303	140.00	141.50	4B	4F	9	1
141.50	142.97	chert-grunerite iron formation, 100, 4EA; coarsely crystalline, gruneritic; any unit with weak GU, banded, interbedded, 40% banded grunerite, 10% banded magnetite, 0.75% flooded quartz flooding, 0>% pyrrhotite whisps, blebs and fracture fillings pyrrhotite *R: essentially the coarse textured 4b with intense grunerite alteration of mt bands. not significantly mineralized. chert bands to 4cm thick show internal banding and are necked and boudinaged. po as blebs and stringers or massive laminae to 0.5mm thick* **********	AA12304	141.50	142.97	4A		X	
142.97	143.58	chert-magnetite iron formation, 100, contorted, banded, 20% banded magnetite, 0%% pyrrhotite whisps, blebs and fracture fillings pyrrhotite *R: some type of fine grained 4b with 5-7% po as blebs,whisps and semi-massive stringers.*	AA12305	142.97	143.58	4B		X	

From	To	Geology	SAMPLE A001	FRCM A00*	TO A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
		**********							
143.58	144.16	biotitic dyke, 100, uniform, 40% pervasive biotite *R: biotite lamprophyre dyke. upper contact is sharp with definate x-cutting relationship to host rock. lower contact is distinct but slightly undulatory. dyke contains a few internal bands that might suggest a sheeted dyke or possible xenoliths of 4b.* **********	AA12306	143.58	144.16	8B		X	
144.16	146.87	chert-magnetite iron formation, 100, gruneritic: any unit with weak GU, banded, interbedded, 15% banded grunerite, 40% banded magnetite *R: irregularly banded 4b with minor po as blebs and stringers and qtz flooding at 146.0 - 146.2 grunerite as alteration bands of mt but also as irregular clots and patches. note: this is normally the stratigraphic position of the syngenetic po rich 4h unit. it appears to be absent.* **********	AA12307 AA12308	144.16 145.53	145.53 146.87	4B 4B		X X	
146.87	155.09	ultramafic, 100 *R: soft pale greenish gray ultramafic unit. tremolite as xtals to several mm in size and talc along fracture surfaces. upper contact is very indistinct and gradational. the rock is very fine grained near the contact but grain size coarsens downhole.* **********	AA12310	146.87	148.00	1		X	
		e.o.h.							
155.09		** END OF HOLE **							

DDH: 506-969
SECTION: 8947.74N
EASTING: 9098.03E
ELEVATION: 5305.00 m
DIP: -66°
AZIMUTH: 233.45°
DATE STARTED: September 9, 1995
DATE FINISHED: September 11, 1995
DATE LOGGED: September 10, 1995
LENGTH: 182.00 m
DEPTH OF OVERBURDEN: 11.90 m
LOCATION: 12.7 m south and 84.4 m east to Post 4 of claim Pa 529846

DRILLING BY: Midwest Drilling
180 Cree Crescent
Winnipeg, Manitoba
R3J 3W1

CORE: CORE STORED ON PROPERTY

COMPANY REPRESENTATIVE RESPONSIBLE FOR DRILLING PROGRAMME:

Placer Dome Canada Limited
Paul Brown
2081 Estoril Rd
Mississauga, Ontario
L5N 1N3

Paul Brown

*** Musselwhite ***
Placer Dome Canada

Drill Hole: 506-969

Date: 3rd Apr, 1996
Northing : 8947.74
Easting : 9098.03
Elevation : 5305.00
Hole Depth : 182.00mt

Drill Hole Survey Data

Depth	Azimuth	Dip
Collar	233.50	-66.00
0.00mt	275.50	-66.00
178.80mt	268.47	-58.00
182.00mt	268.47	-58.00

Grid Azimuth: 317.95
Coord System:

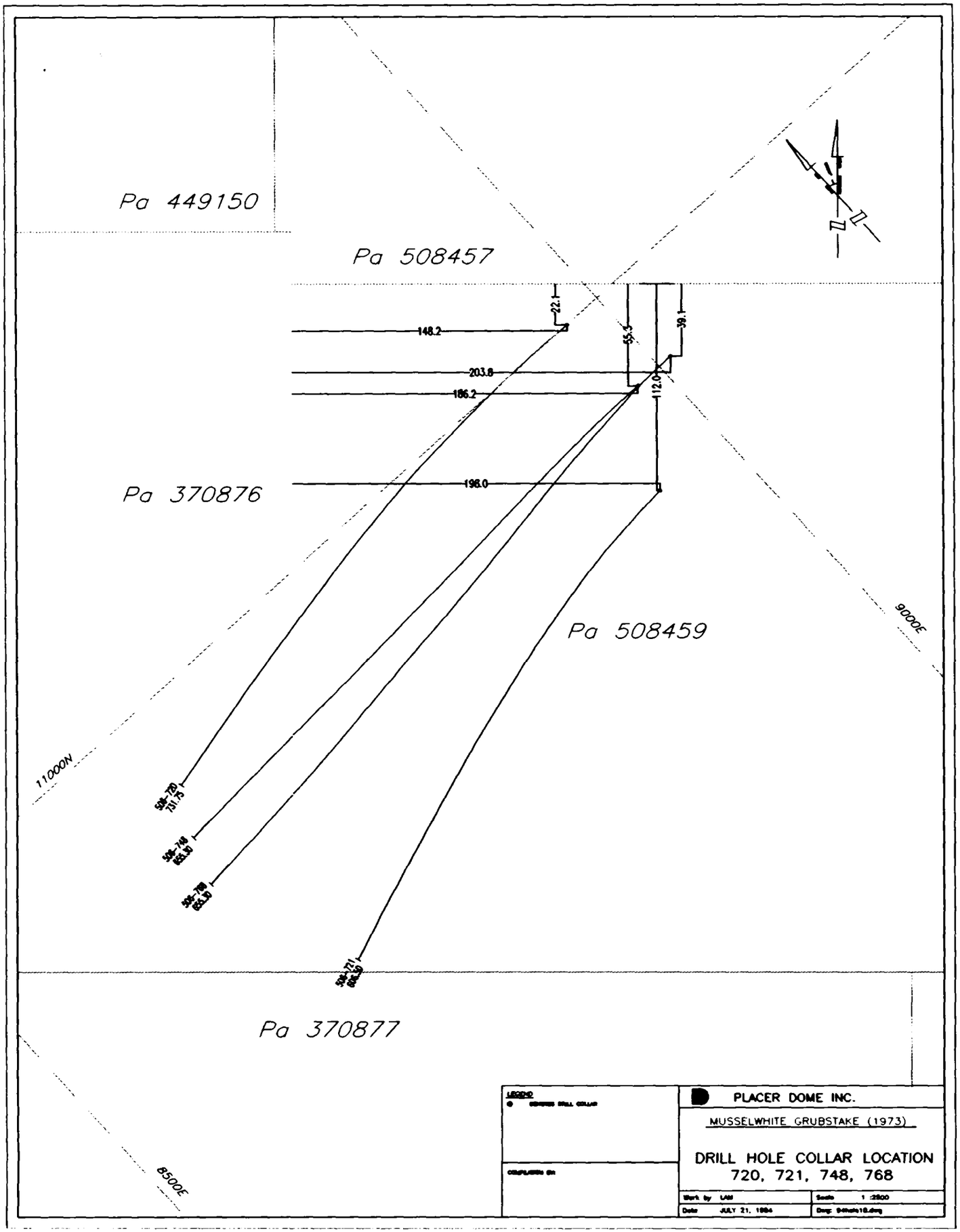
Paul Brown

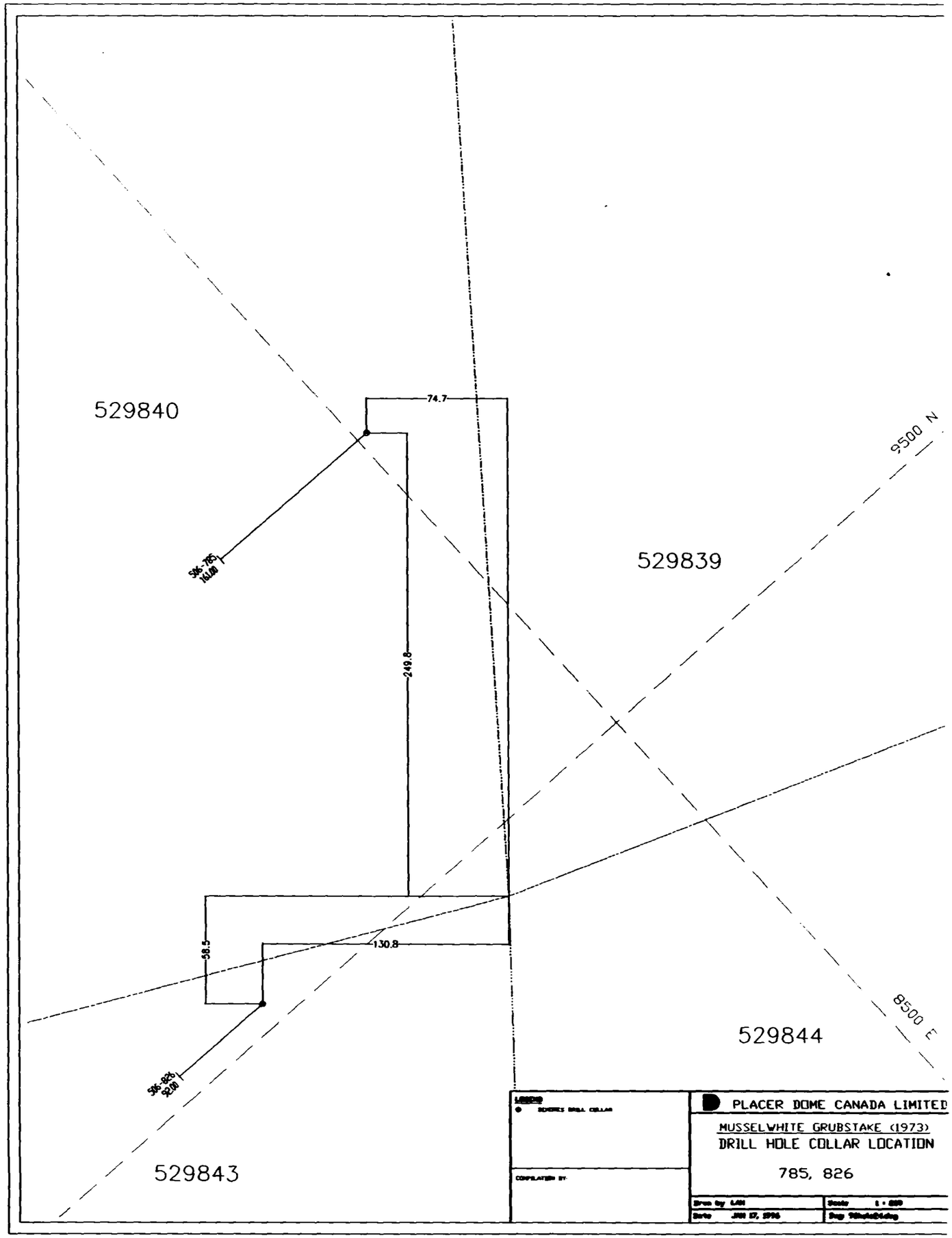
Project ID : 506E
Core Size : NQ
Date Logged : 10SEP95
Logged By : JMW
Assisted by :
Drillers : MIDW
Drill date : SEP95
Rig Type :
Drill Time :
Print Template : PB1.FMT
Gtran Version : 3.5.8

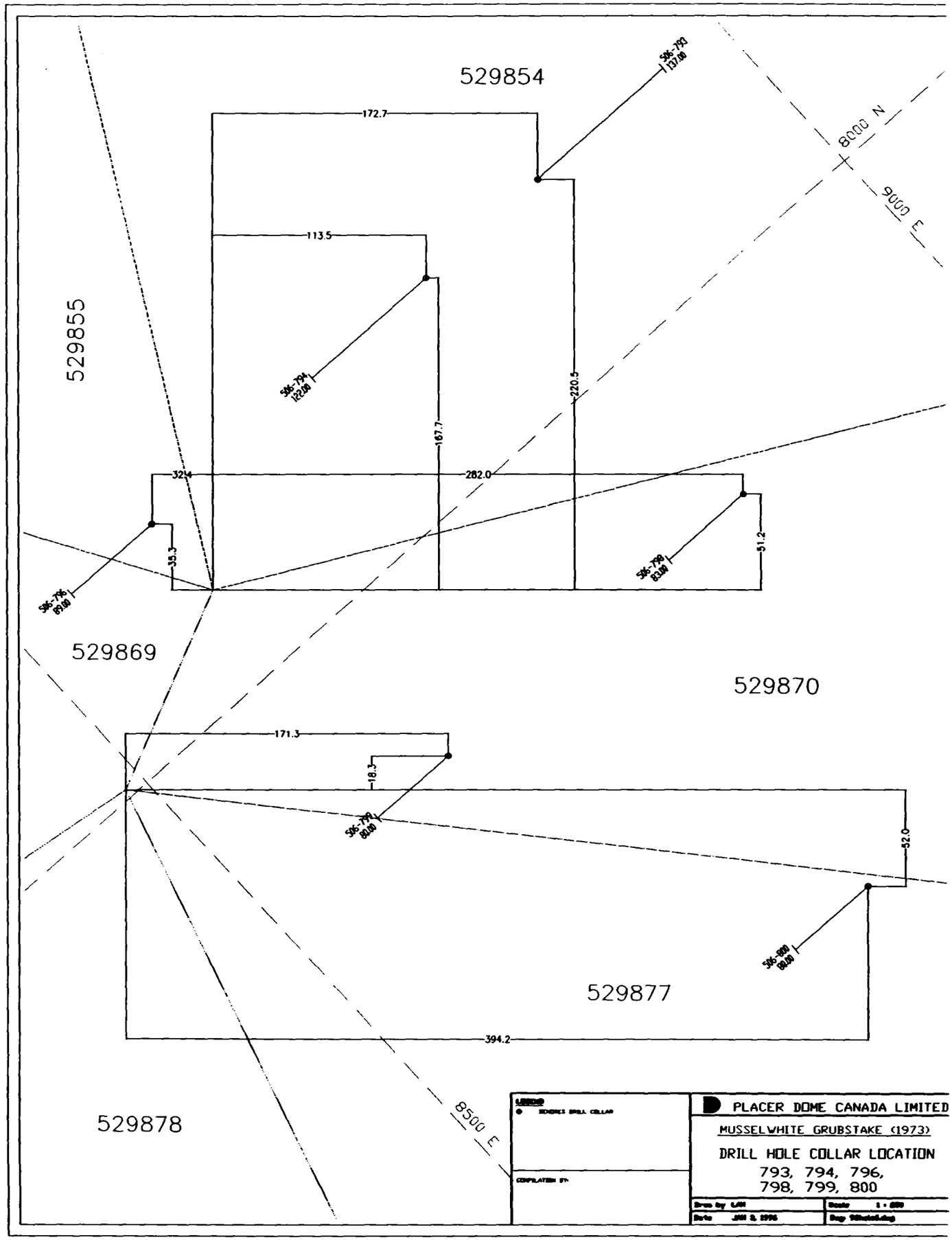
From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
0.00	11.90	overburden, 100							
11.90	19.30	basement basalt, 100, 3.5% veins qtz-calcite veining							
19.30	22.68	ultramafic, 100, 1.5% veins qtz-calcite veining							
22.68	55.09	basement basalt, 100, 3.5% veins qtz-calcite veining							
55.09	63.36	ultramafic, 100, 0.01% fracture filling qtz-calcite veining							
63.36	65.40	basement basalt, 100, 1.5% veins qtz-calcite veining							
65.40	73.11	ultramafic, 100, 0.01% fracture filling qtz-calcite veining							
73.11	79.70	basement basalt, 100, 1.5% veins qtz-calcite veining							
79.70	81.15	ultramafic, 100, 0.01% fracture filling qtz-calcite veining							
81.15	108.00	basement basalt, 100, 3.5% veins qtz-calcite veining							
108.00	109.50	ultramafic, 100							
109.50	126.57	basement basalt, 100, 3.5% veins qtz-calcite veining	125.00	126.57	AA9431	2		X	
126.57	131.43	chert-magnetite iron formation, 100, 3.5% laminated carbonate, 0.75% patchy chlorite, 0.01% porphyroblastic garnet, 7.5% banded grunerite, 60% banded magnetite, 0.25% blebs pyrrhotite, 0.01% flooded quartz flooding, 5.5% veins quartz veining	126.57	127.35	AA9432	4B		X	
			127.35	129.00	AA9433	4B		X	
			129.00	129.85	AA9434	4B		X	
			129.85	131.43	AA9436	4B		X	
131.43	137.59	chert-magnetite iron formation, 90, garnet-biotite schist, 10, 0.25% blebs arsenopyrite, 5.5% banded biotite, 7.5% laminated carbonate, 0.25% patchy chlorite, 0.75% porphyroblastic garnet, 1.5% veins calcite veining, 10% banded grunerite, 60% banded magnetite, 0.75% stringers pyrrhotite, 0.01% flooded quartz flooding, 0.75% veins quartz veining	131.43	132.00	AA9437	4B	4F	8	2
			132.00	133.00	AA9438	4B	4F	9	1
			133.00	134.00	AA9439	4B	4F	9	1
			134.00	135.00	AA9441	4B	4F	9	1
			135.00	136.00	AA9442	4B	4F	9	1
			136.00	137.00	AA9443	4B	4F	8	2
			137.00	137.59	AA9444	4B	4F	7	3

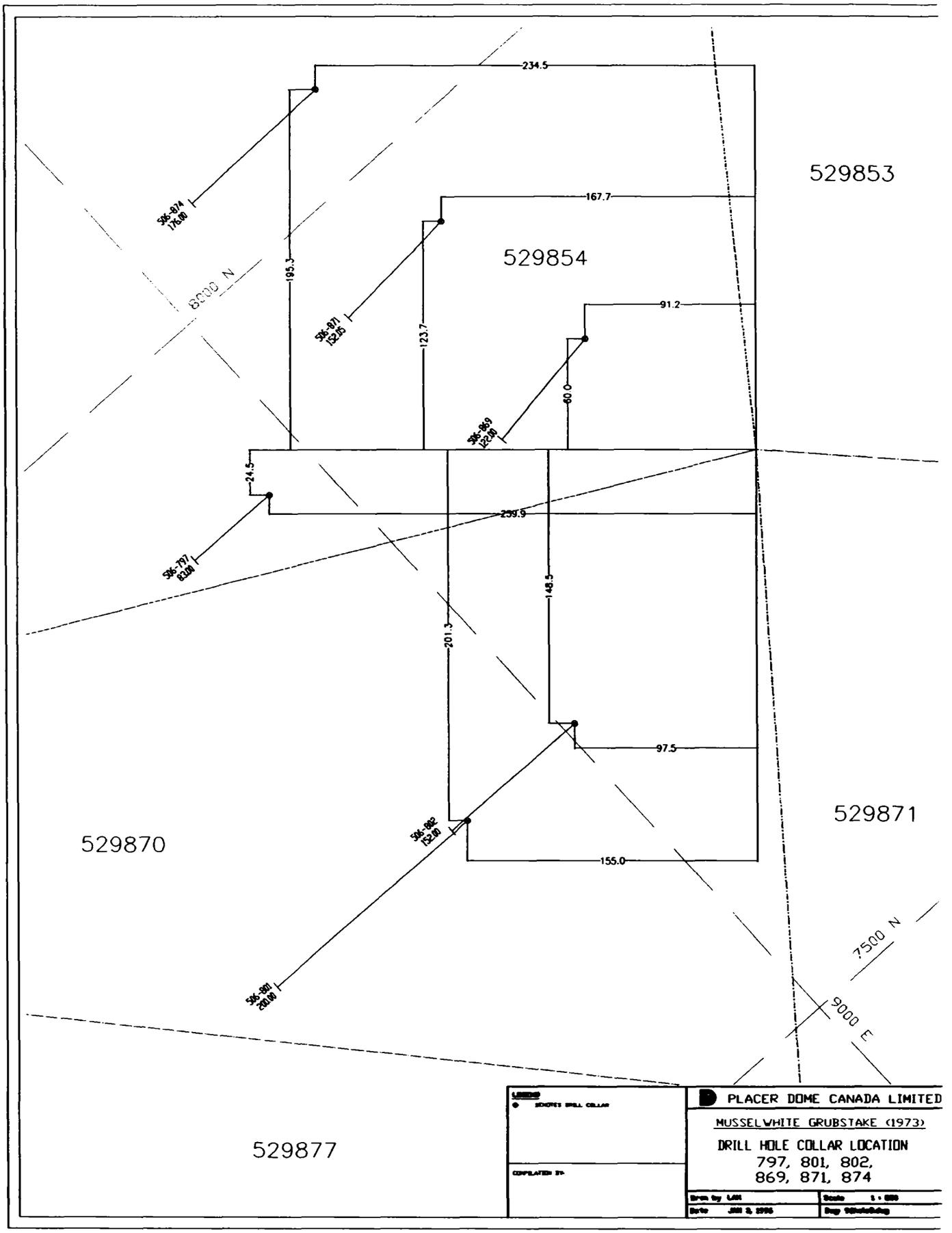
From	To	Geology	FROM A001	TO A001	SAMPLE A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
137.59	140.62	chert-magnetite iron formation, 100, 5.5% banded green amphibole, 1.5% banded grunerite, 70% banded magnetite	137.59	139.00	AA9445	4B		X	
			139.00	140.00	AA9446	4B		X	
			140.00	140.62	AA9447	4B		X	
140.62	143.80	chert-magnetite iron formation, 70, garnet-biotite schist, 30, 5.5% banded green amphibole, 7.5% banded biotite, 7.5% porphyroblastic garnet, 1.5% veins calcite veining, 0.75% banded grunerite, 70% banded magnetite, 0.01% vein associated pyrrhotite, 0.75% veins qtz-calcite veining, 0.75% veins quartz veining	140.62	141.70	AA9449	4B	4F	7	3
			141.70	142.53	AA9450	4B	4F	8	2
			142.53	143.80	AA9451	4B	4F	7	3
143.80	145.75	mafic to intermediate volcanics, 60, chert-magnetite iron formation, 40, 10% banded biotite, 20% banded chlorite, 3.5% porphyroblastic garnet, 3.5% banded grunerite, 15% banded magnetite, 0.75% veins quartz veining	143.80	144.40	AA9452	BVOL	4B	9	1
			144.40	145.12	AA9453	4B	BVOL	8	2
			145.12	145.75	AA9454	4B	4F	6	4
145.75	147.08	chert-grunerite-amphibole-garnet iron formation, 100, 7.5% banded green amphibole, 5.5% banded biotite, 15% porphyroblastic garnet, 40% banded grunerite, 40% banded magnetite, 0.01% blebs pyrrhotite, 0.75% veins qtz-calcite veining	145.75	147.08	AA9456	4EA		X	
147.08	148.43	chert-magnetite iron formation, 90, garnet-biotite schist, 10, 5.5% banded biotite, 3.5% porphyroblastic garnet, 5.5% banded grunerite, 70% banded magnetite, 0.75% blebs pyrrhotite, 1.5% flooded quartz flooding	147.08	148.43	AA9457	4B	4F	9	1
148.43	149.18	chert-grunerite-amphibole-garnet iron formation, 100, 5.5% banded green amphibole, 3.5% banded biotite, 30% porphyroblastic garnet, 50% banded grunerite, 20% banded magnetite, 1.5% pyrrhotite whisps, blebs and fracture fillings pyrrhotite, 0.75% flooded quartz flooding	148.43	149.18	AA9458	4EA		X	
149.18	151.16	chert-grunerite-amphibole-garnet iron formation, 100, 15% banded green amphibole, 5.5% banded biotite, 15% porphyroblastic garnet, 3.5% veins calcite veining, 30% banded grunerite, 20% banded magnetite, 0.75% blebs pyrrhotite, 1.5% flooded quartz flooding	149.18	150.00	AA9459	4EA		X	
			150.00	151.16	AA9461	4EA		X	
151.16	151.59	mafic to intermediate volcanics, 90, chert-grunerite-amphibole-garnet iron formation, 10, 70% pervasive green amphibole, 15% banded biotite, 1.5% porphyroblastic garnet, 3.5% veins calcite veining, 3.5% banded grunerite	151.16	151.59	AA9462	BVOL	4EA	9	1
151.59	152.55	chert-grunerite-amphibole-garnet iron formation, 100, 20% porphyroblastic garnet, 70% banded grunerite, 5.5% banded magnetite, 0.01% blebs pyrrhotite, 0.75% flooded quartz flooding	151.59	152.55	AA9463	4EA		X	
152.55	152.94	mafic to intermediate volcanics, 100, 80% pervasive green amphibole, 15% banded biotite, 5.5% veins calcite veining	152.55	152.94	AA9464	BVOL		X	
152.94	154.25	chert-grunerite-amphibole-garnet iron formation, 100, 3.5% banded green amphibole, 0.75% banded biotite, 1.5% patchy chlorite, 15% porphyroblastic garnet, 3.5% veins calcite veining, 50% banded grunerite, 20% banded magnetite, 0.25% blebs pyrrhotite, 0.75% flooded quartz flooding	152.94	154.25	AA9465	4EA		X	
154.25	155.69	garnet-biotite schist, 100, 60% pervasive biotite, 20% porphyroblastic garnet	154.25	155.69	AA9466	4F		X	
155.69	158.29	mafic to intermediate volcanics, 100, 80% pervasive green amphibole, 5.5% banded biotite, 3.5% veins calcite veining, 1.5% veins qtz-calcite veining, 1.5% veins quartz veining	155.69	157.00	AA9467	BVOL		X	
			157.00	158.29	AA9468	BVOL		X	
158.29	159.06	garnet-amphibole iron formation, 50, garnet-biotite schist, 50, 50% banded green amphibole, 30% banded biotite, 15% porphyroblastic garnet, 0.25% banded grunerite, 0.25% blebs pyrrhotite, 0.75% flooded quartz flooding	158.29	159.06	AA9469	4E	4F	5	5

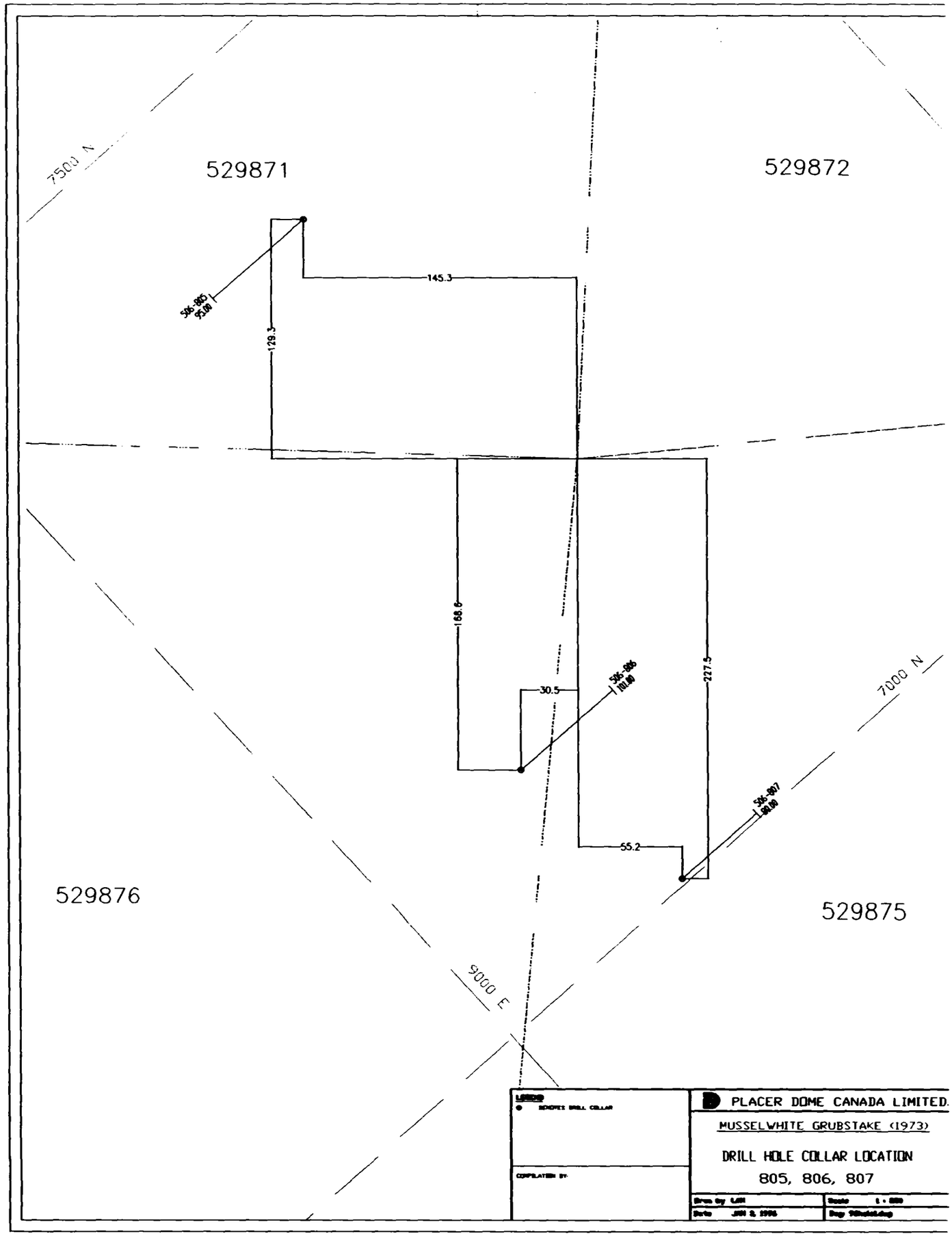
From	To	Geology	FROM A001	TO A301	SAMPLE A001	ROCK A001	ROCK A001	%MIX A001	%MIX A001
159.06	162.35	mafic to intermediate volcanics, 100, 40% pervasive biotite, 1.5% veins qtz-calcite veining	159.06	160.00	AA9471	BVOL		X	
			160.00	161.00	AA9472	BVOL		X	
162.35	168.40	mafic to intermediate volcanics, 100, 3.5% veins calcite veining	167.50	168.40	AA9473	BVOL		X	
168.40	169.94	mafic to intermediate volcanics, 100, 70% pervasive green amphibole, 20% pervasive biotite, 5.5% veins calcite veining, 0.25% vein associated pyrrhotite, 3.5% veins qtz-calcite veining	168.40	169.94	AA9474	BVOL		X	
169.94	170.29	garnet-amphibole iron formation, 50, chert-grunerite-amphibole-garnet iron formation, 50, 15% banded green amphibole, 40% porphyroblastic garnet, 1.5% banded grunerite, 3.5% banded magnetite, 3.5% disseminated pyrrhotite, 7.5% veins qtz-calcite veining	169.94	170.29	AA9476	4E	4EA	5	5
170.29	171.85	mafic to intermediate volcanics, 100, 70% pervasive green amphibole, 20% pervasive biotite, 5.5% veins calcite veining, 3.5% veins qtz-calcite veining	170.29	171.85	AA9477	BVOL		X	
171.85	177.97	mafic to intermediate volcanics, 100, 60% pervasive green amphibole, 15% veins calcite veining	171.85	173.00	AA9478	BVOL		X	
177.97	182.00	mafic to intermediate volcanics, 100, 50% pervasive green amphibole, 3.5% patchy biotite, 3.5% veins qtz-calcite veining							
182.00		** END OF HOLE **							

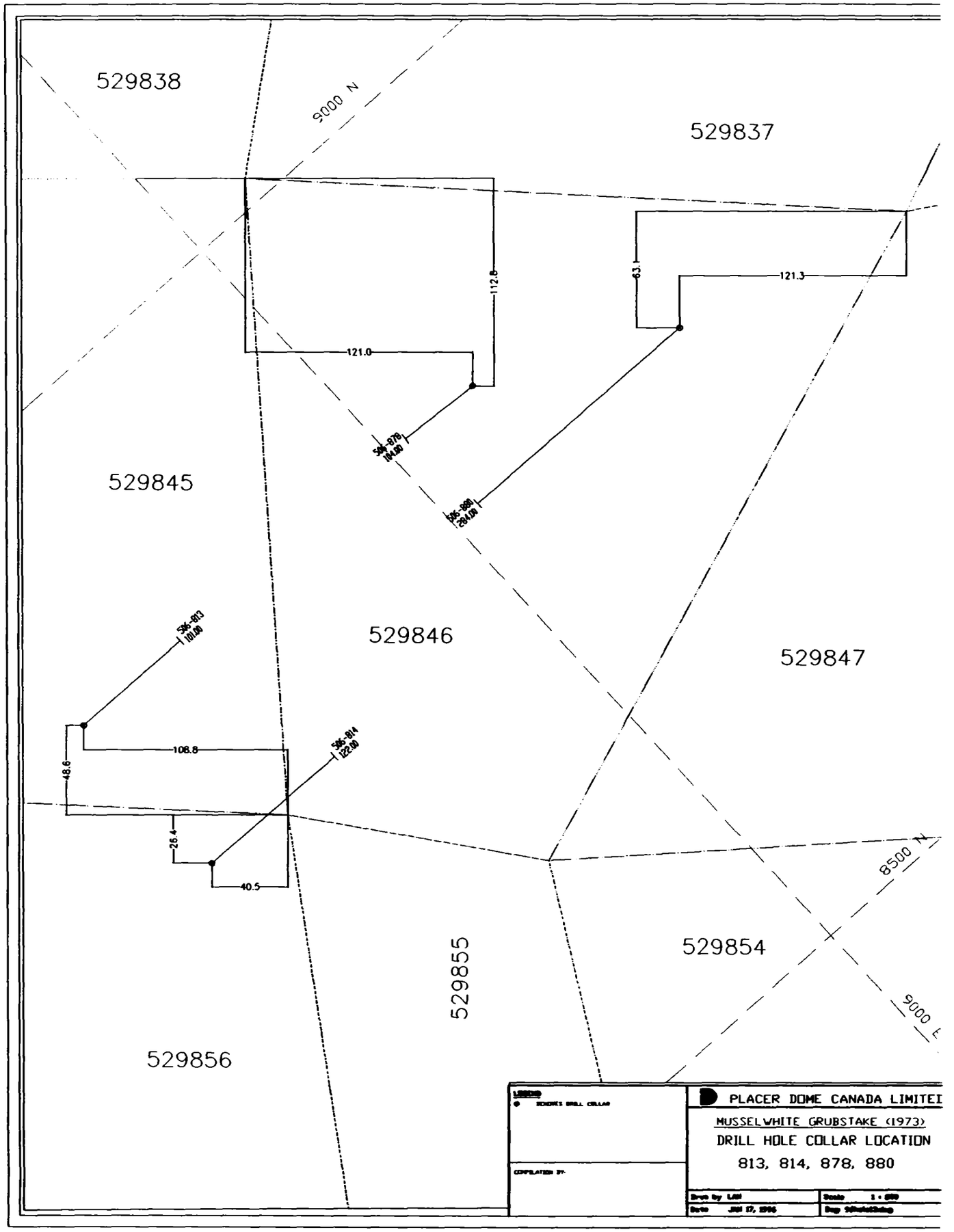

Pa 449150
Pa 508457
Pa 370876
Pa 508459
Pa 370877
22.1
148.2
55.3
39.1
203.8
112.0
186.2
198.0
11000N
9000E
8500E
PLACER DOME INC.
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
720, 721, 748, 768
Work by UAM
Scale 1:2500
Date JULY 21, 1994

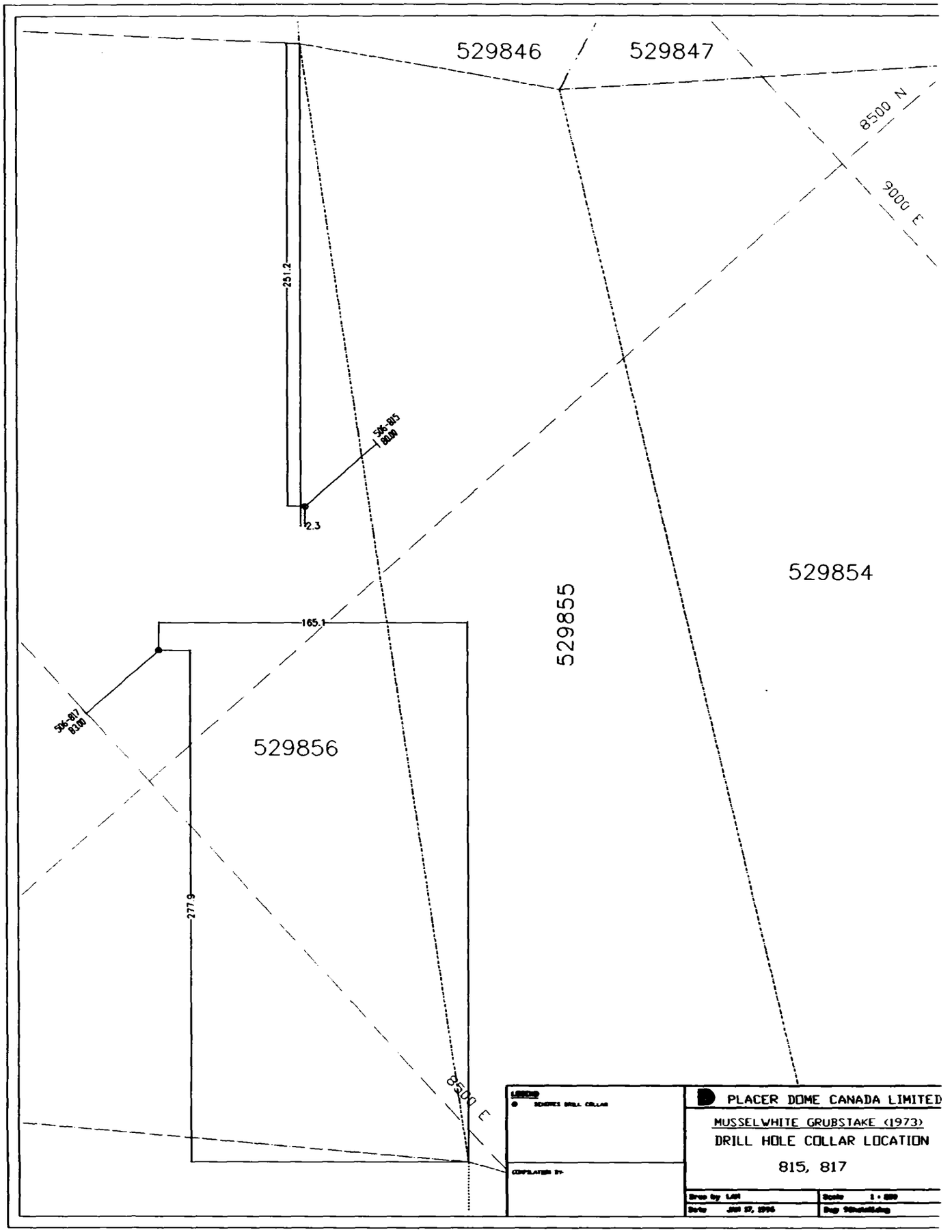

529840
529839
529844
529843
74.7
249.8
130.8
58.5
9500 N
8500 E
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
785, 826

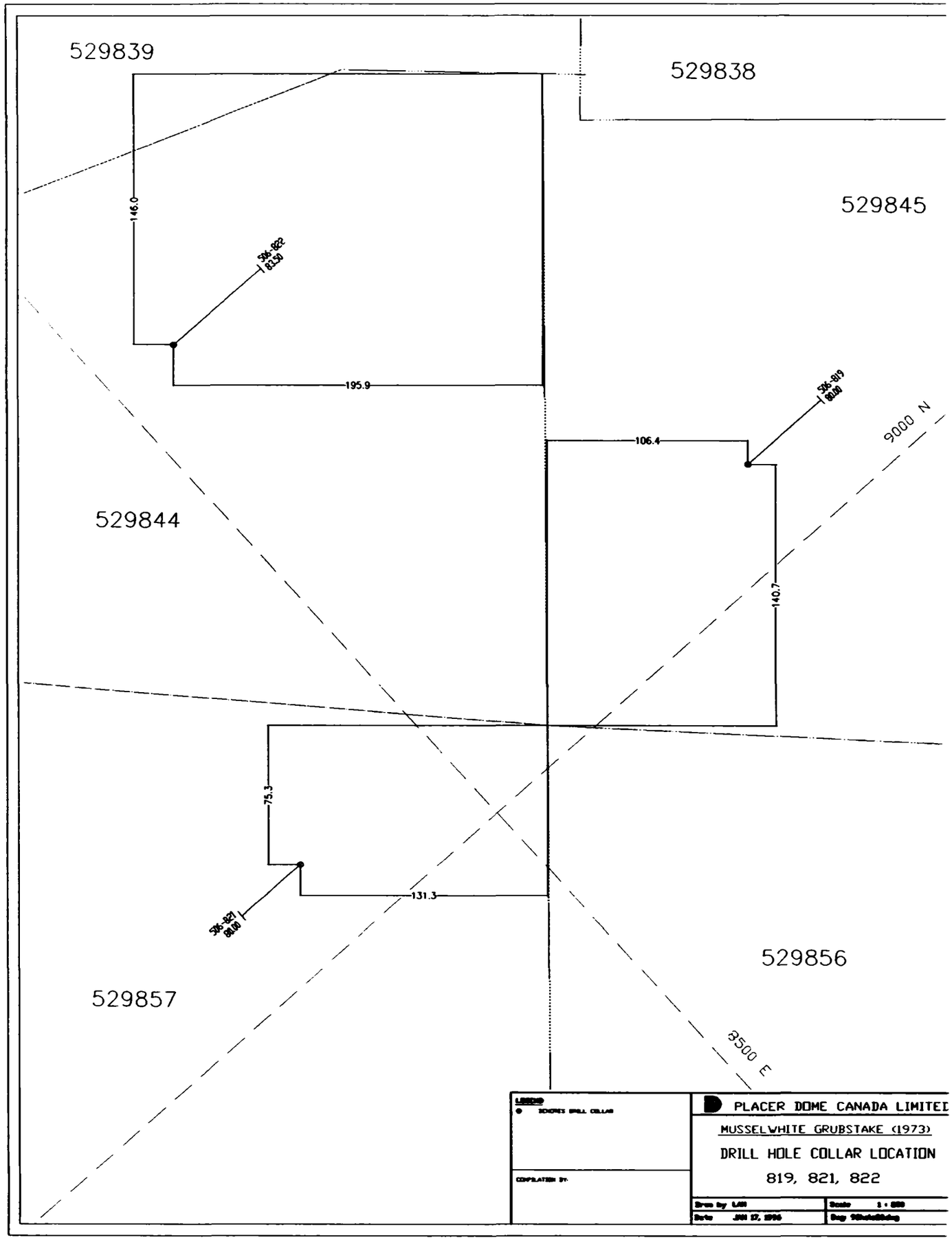

529854
529855
529869
529870
529877
529878
172.7
113.5
187.7
220.5
282.0
32.4
35.3
51.2
171.3
18.3
52.0
394.2
8000 N
9000 E
8500 E
506-793
137.00
506-794
122.00
506-796
69.00
506-798
83.00
506-799
80.00
506-800
84.00
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
793, 794, 796,
798, 799, 800

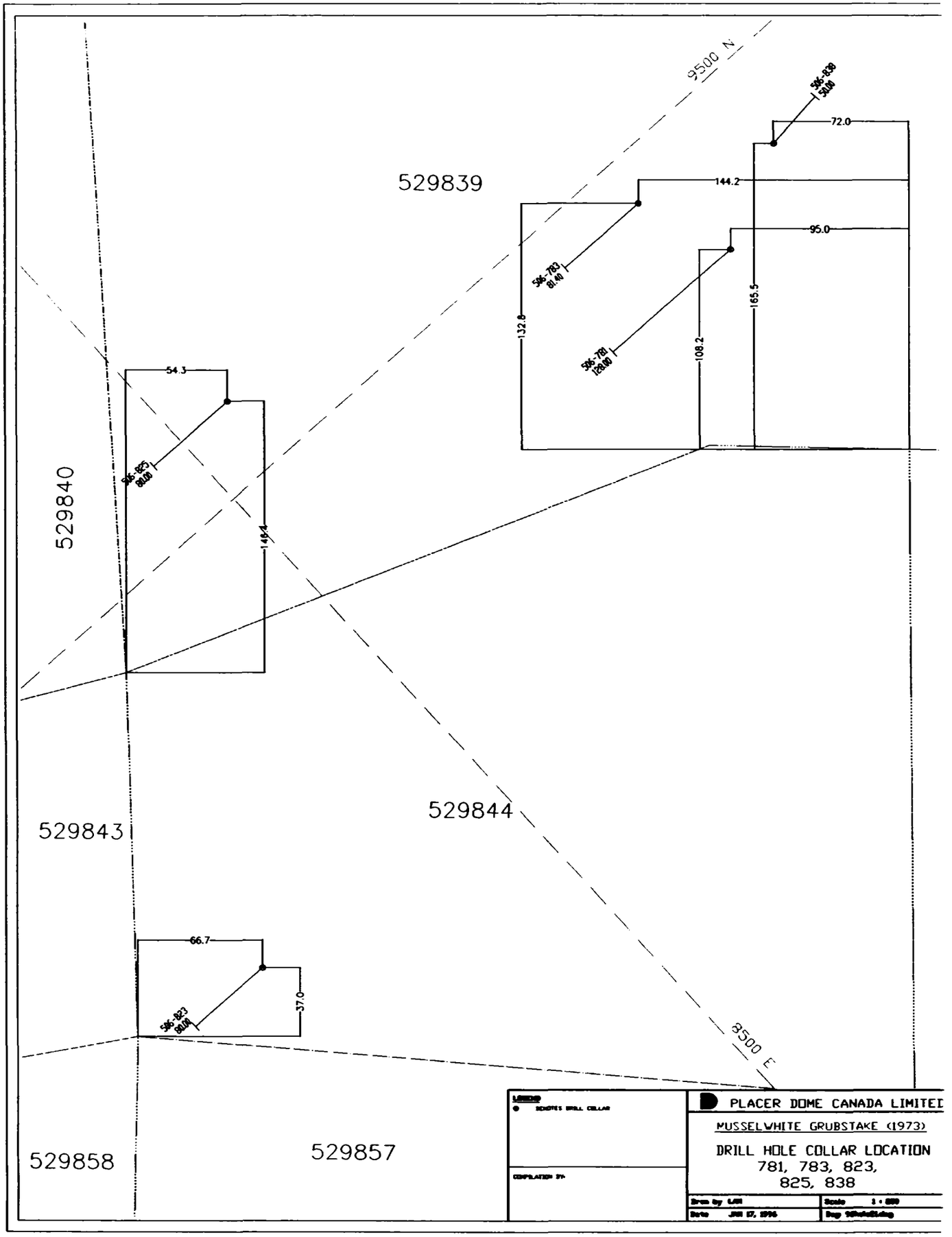

234.5
529853
167.7
529854
91.2
195.3
123.7
60.0
24.5
259.9
148.5
201.3
97.5
529871
529870
155.0
8000 N
7500 N
9000 E
529877
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
797, 801, 802,
869, 871, 874

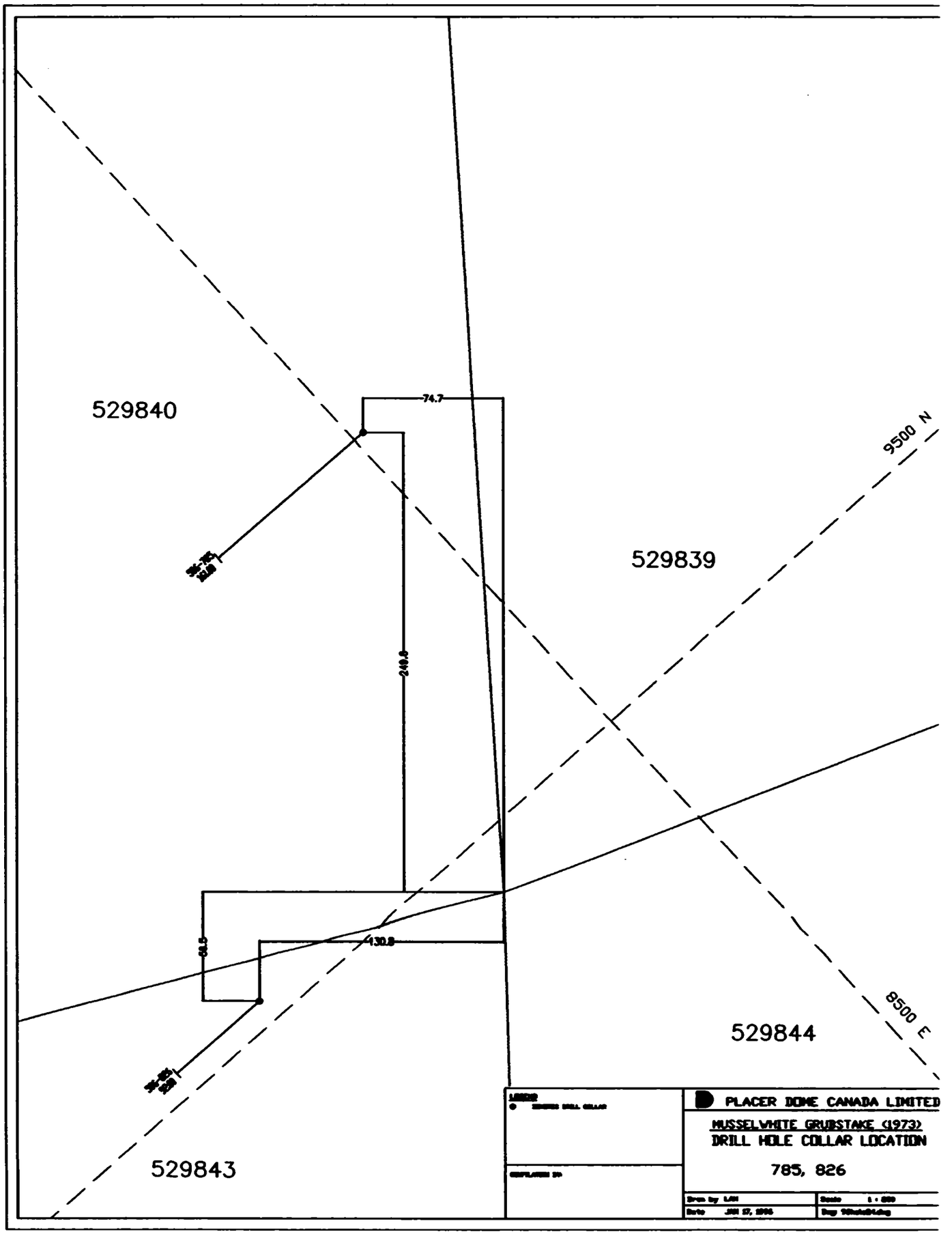

529871
529872
529876
529875
7500 N
7000 N
9000 E
145.3
129.3
168.6
227.5
30.5
55.2
PLACER DOME CANADA LIMITED.
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
805, 806, 807

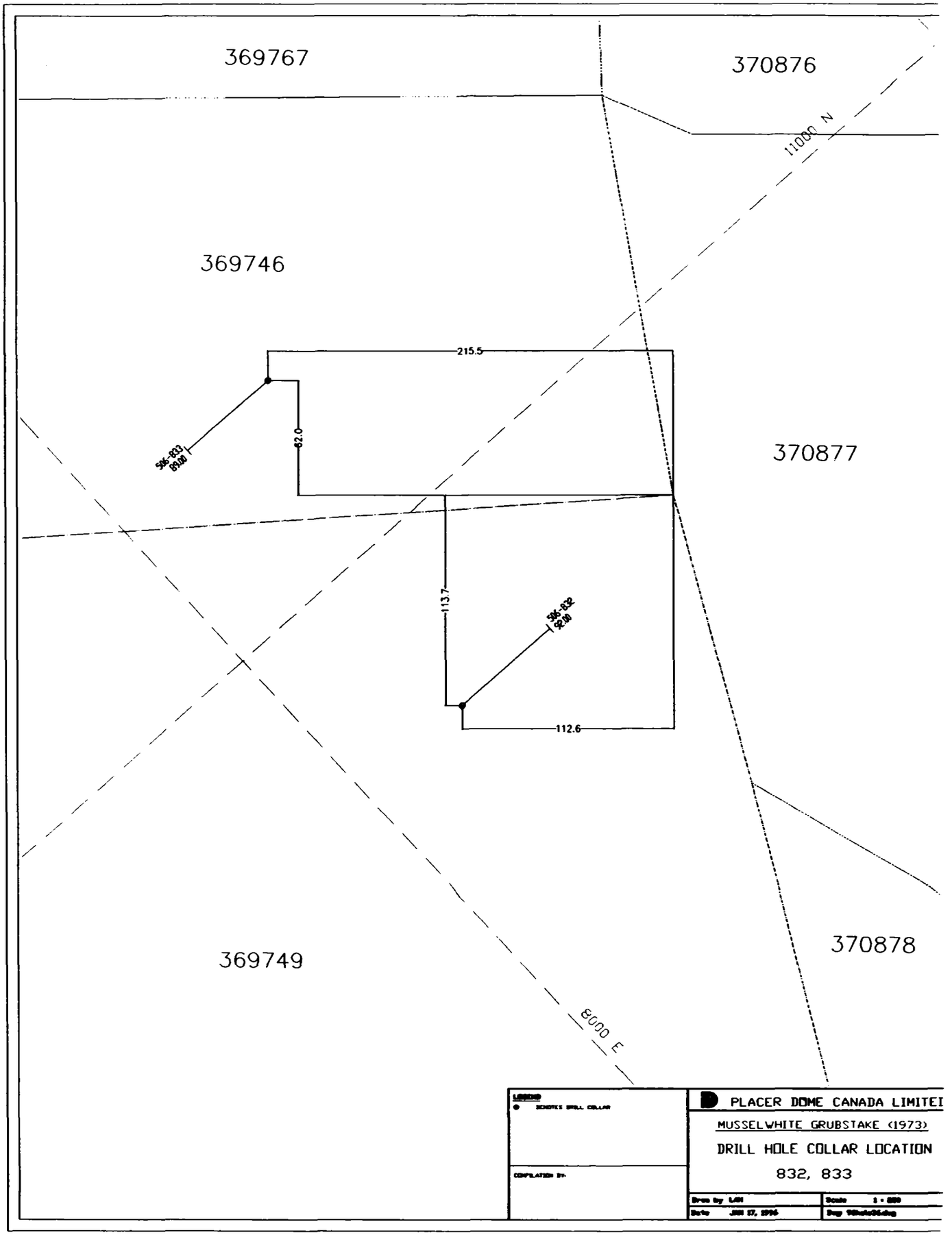

529838
9000 N
529837
112.8
121.0
63.1
121.3
529845
506-878
104.00
506-880
284.00
529846
529847
506-813
101.00
108.8
48.6
506-814
122.00
26.4
40.5
8500 N
529855
529854
9000 E
529856
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
813, 814, 878, 880

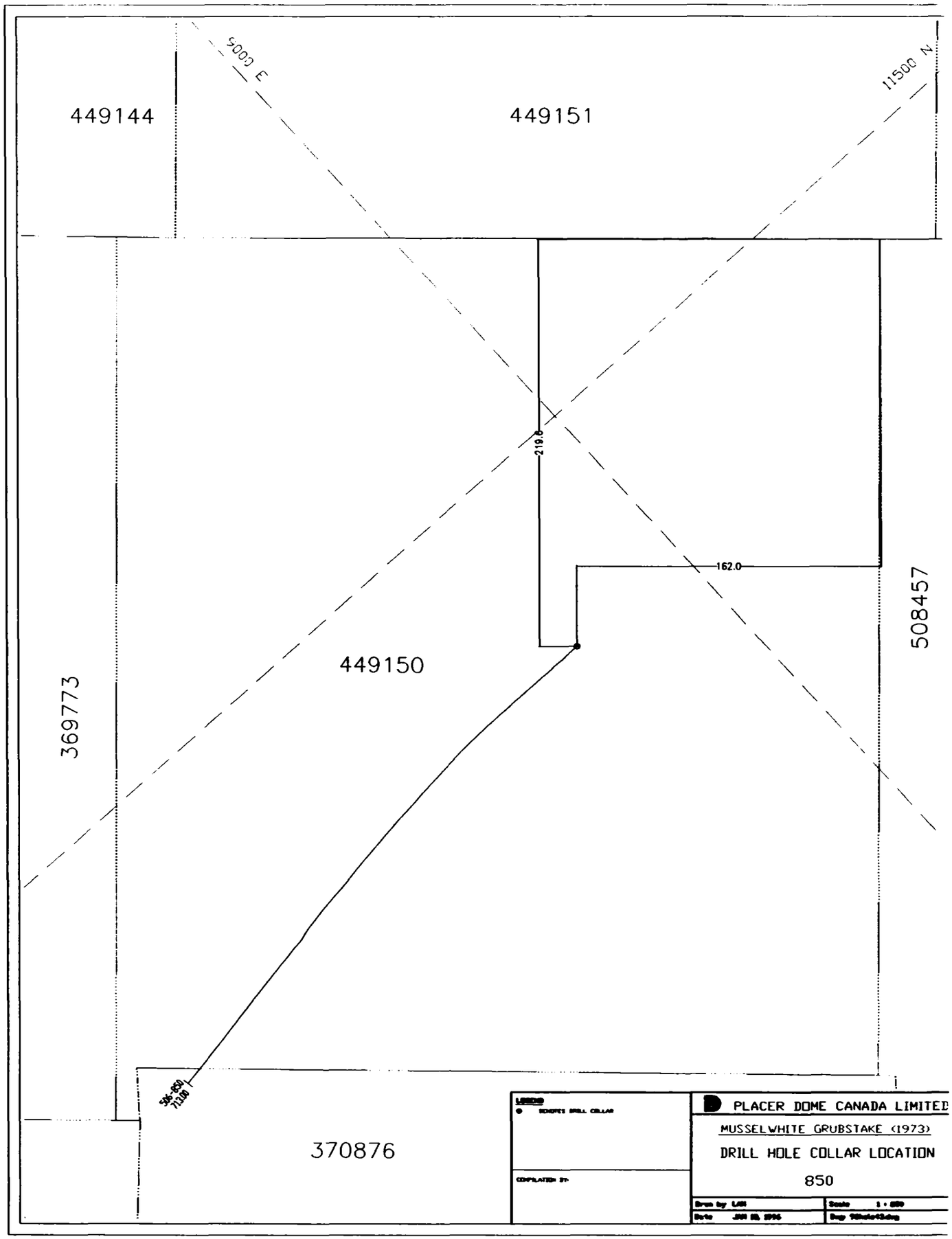

529846
529847
8500 N
9000 E
251.2
506-815
80.00
2.3
529854
529855
165.1
506-817
83.00
529856
277.9
8500 E
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
815, 817

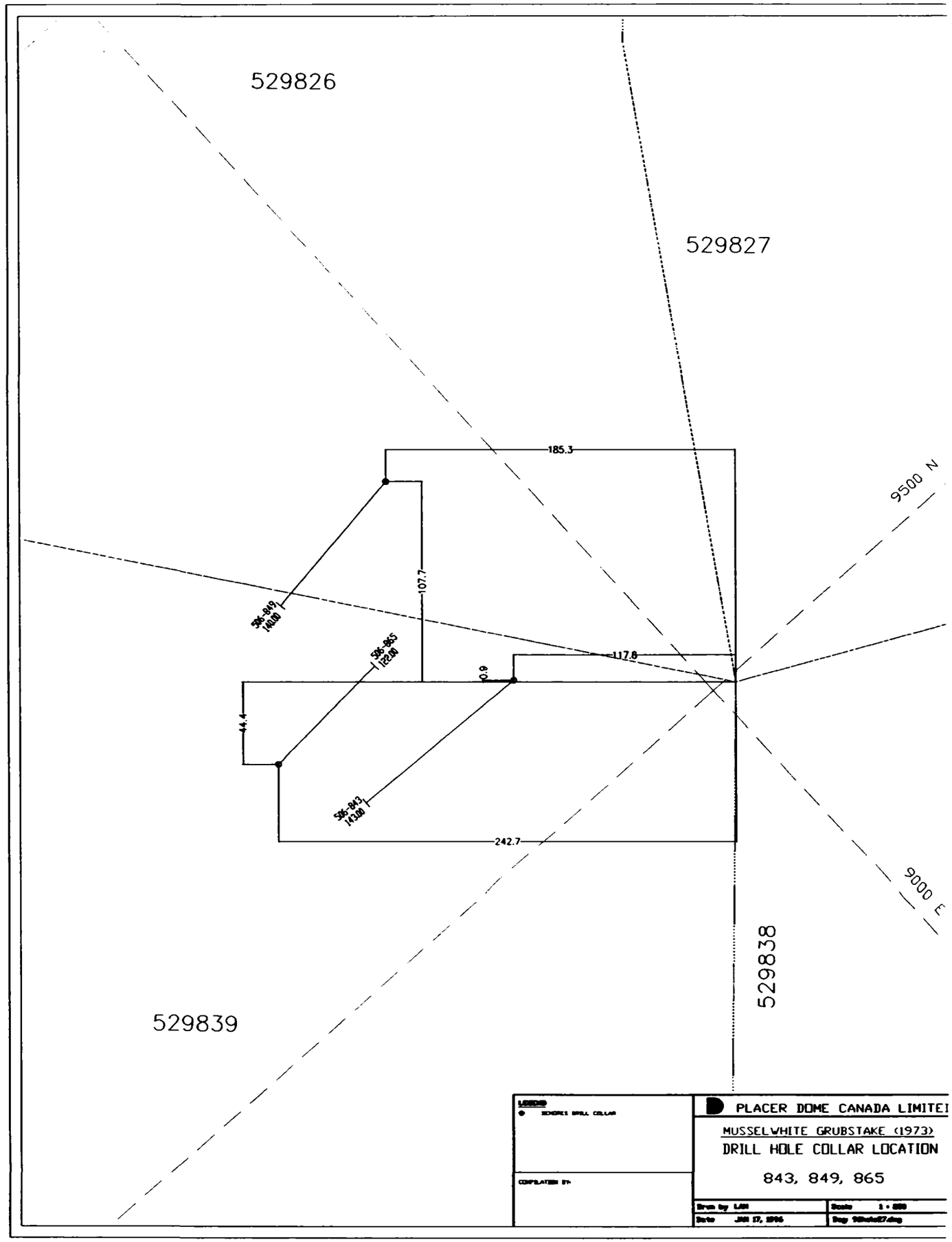

529839
529838
529845
146.0
506-822
195.9
506-819
106.4
9000 N
529844
140.7
75.3
131.3
506-821
529856
529857
3500 E
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
819, 821, 822

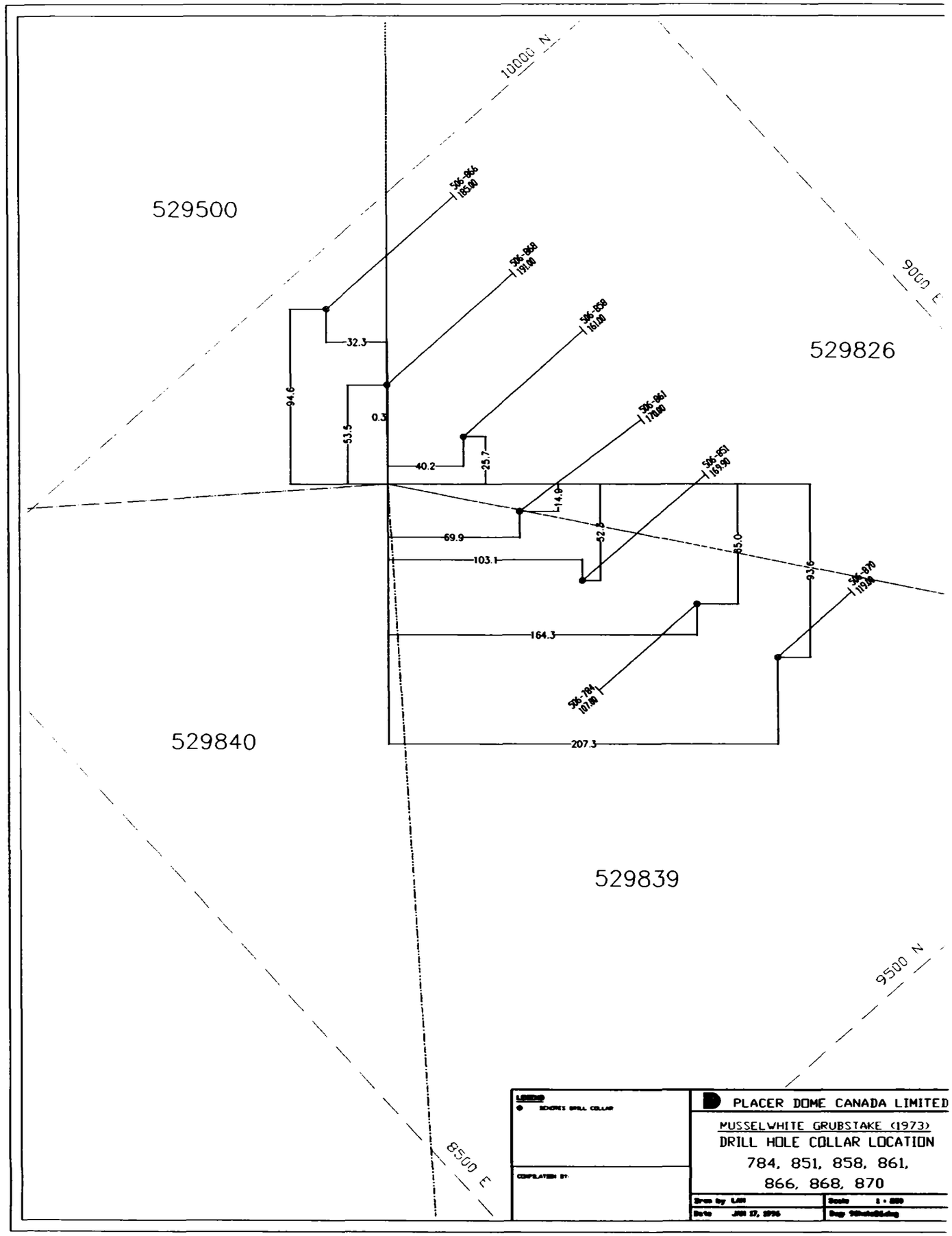

9500 N
529839
529840
529843
529844
529857
529858
3500 E
72.0
144.2
95.0
165.5
132.8
108.2
54.3
148.4
66.7
37.0
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
781, 783, 823,
825, 838

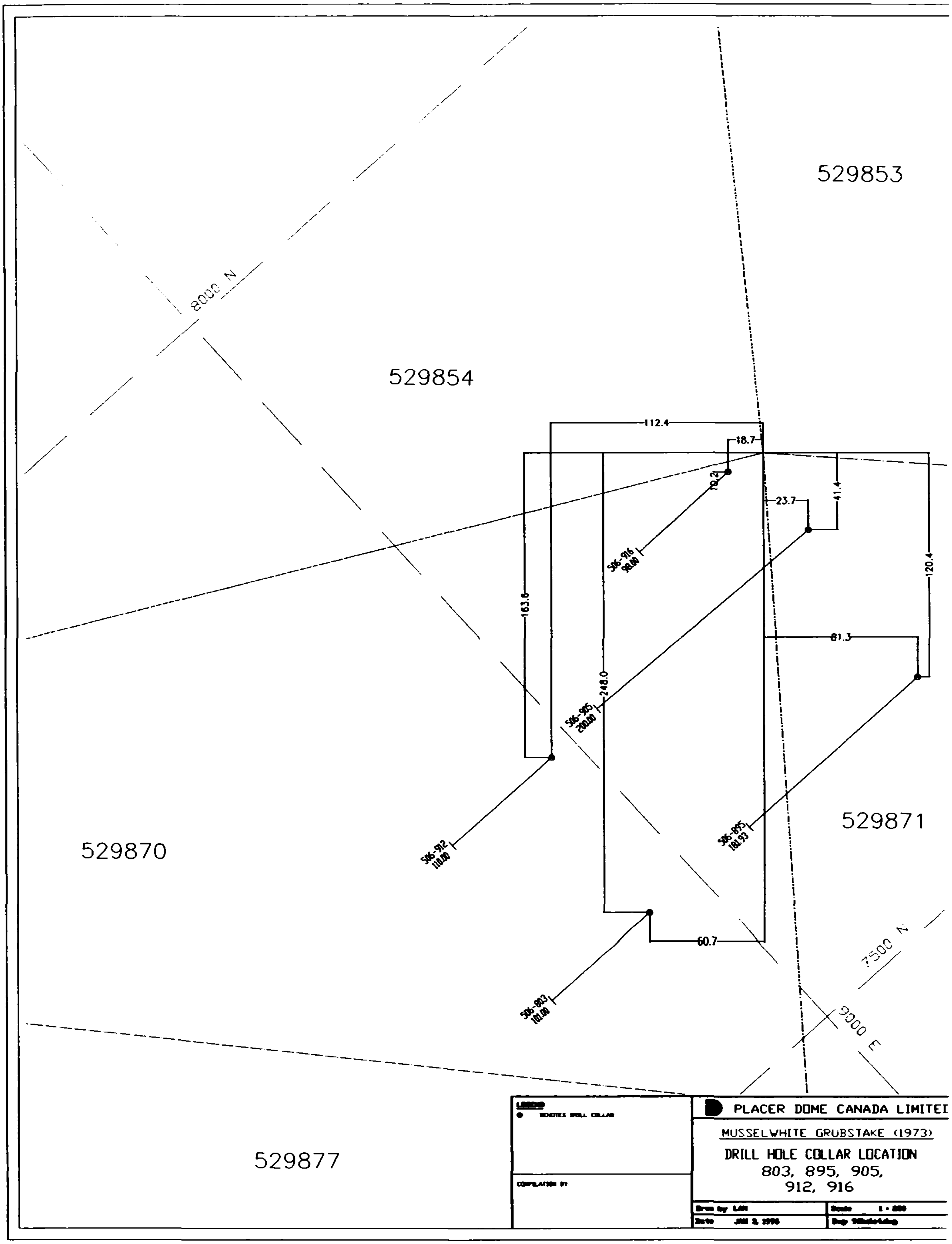

529840
529839
529844
529843
74.7
240.8
130.8
68.5
9500 N
8500 E
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
785, 826

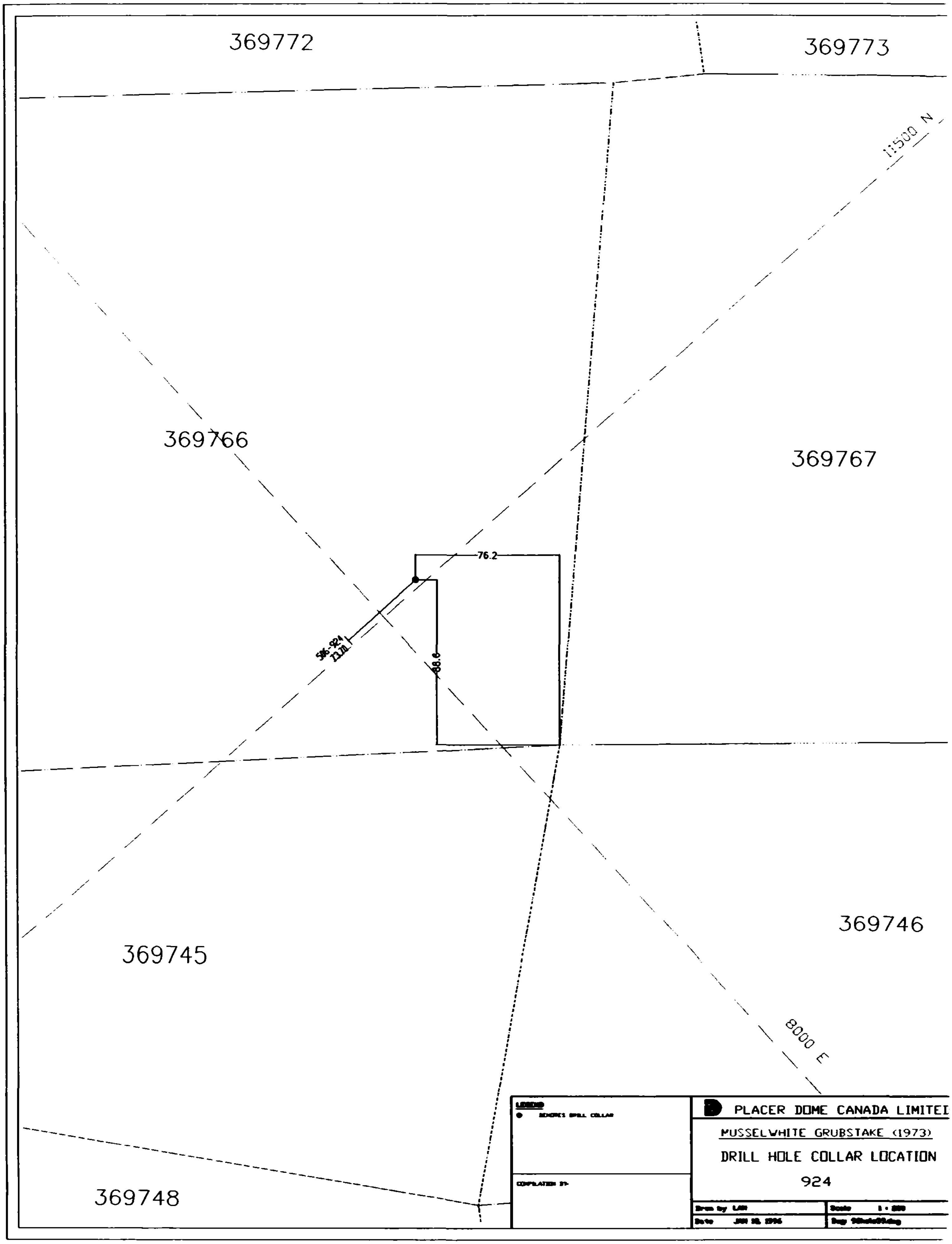

369767
370876
11000 N
369746
215.5
62.0
506-833
65.00
370877
113.7
506-832
92.00
112.6
369749
370878
8000 E
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
832, 833

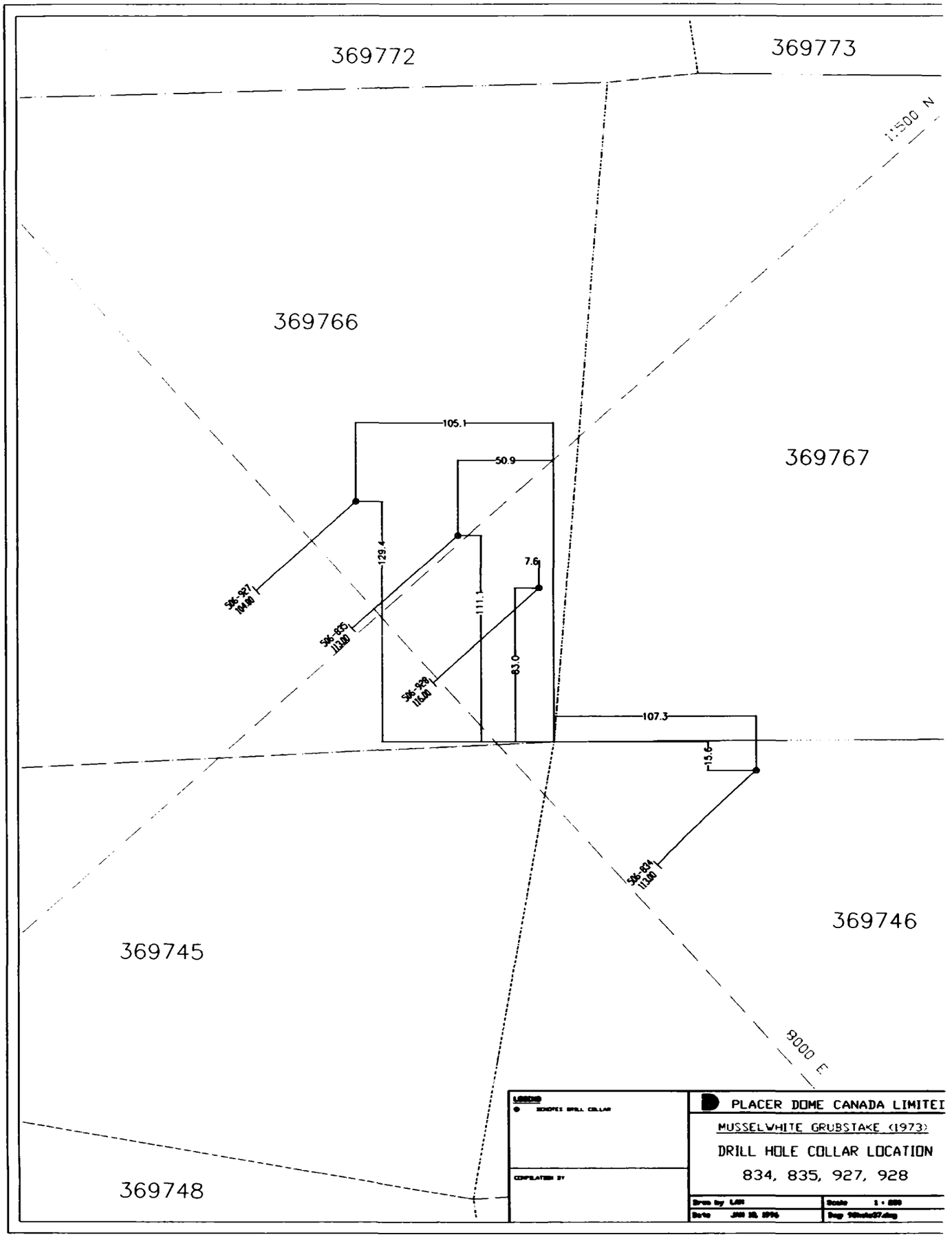

449144
449151
5000 E
11500 N
219.0
162.0
508457
449150
369773
370876
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
850

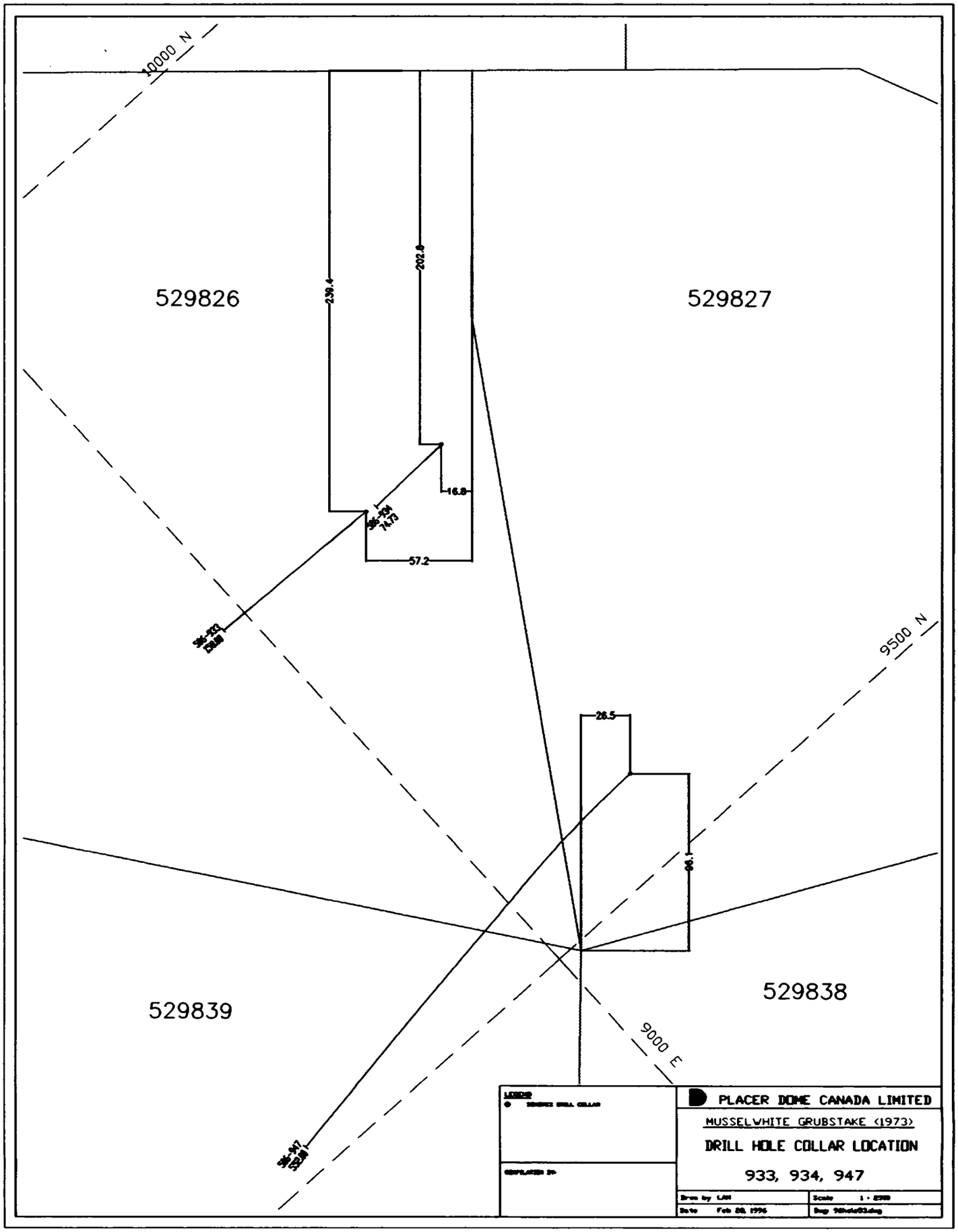

529826
529827
185.3
9500 N
107.7
506-849
140.00
506-865
122.00
117.8
0.9
44.4
506-843
143.00
242.7
9000 E
529838
529839
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
843, 849, 865

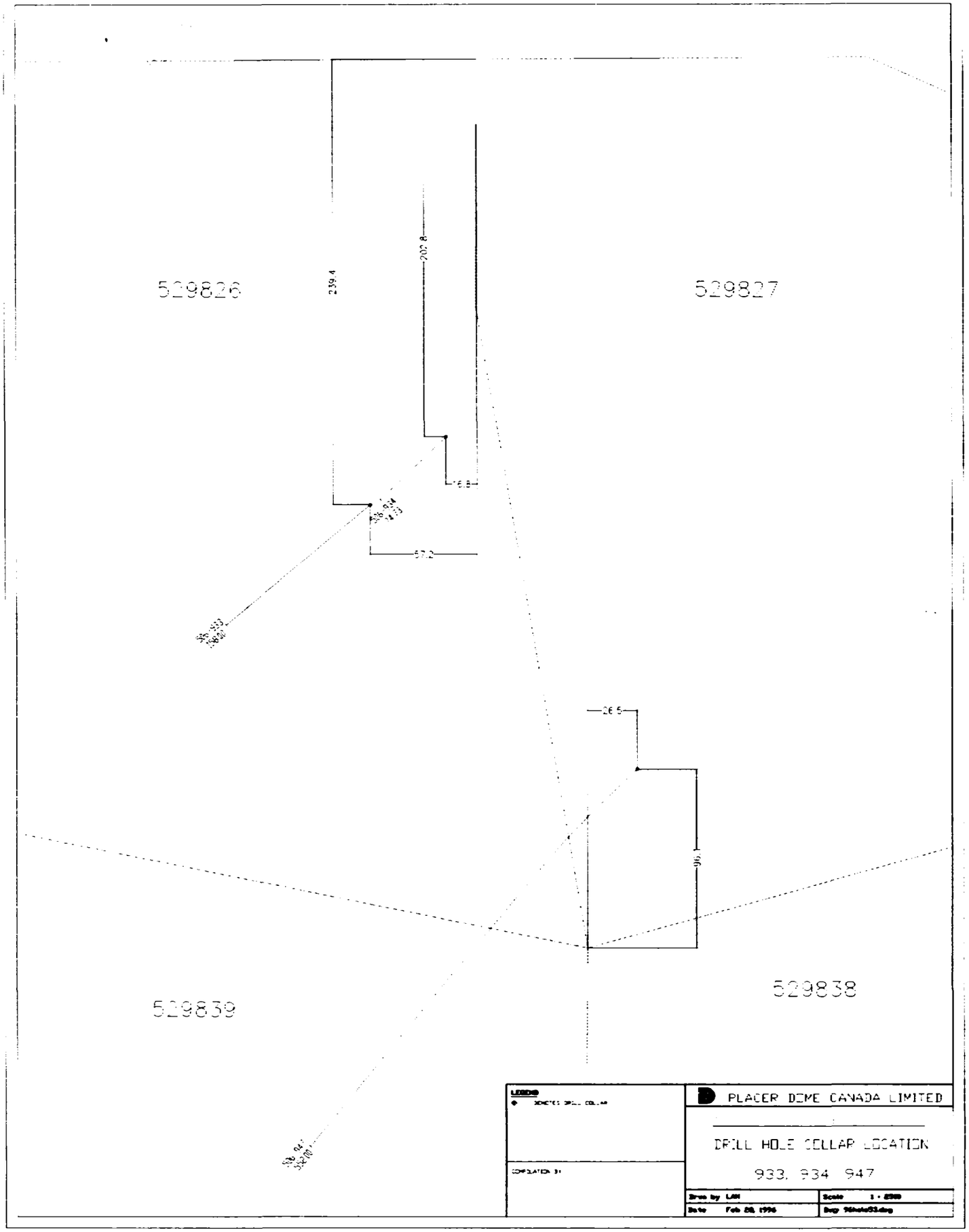

10000 N
9000 E
529500
529826
529840
529839
9500 N
8500 E
506-866
185.90
506-868
191.90
506-858
161.00
506-861
170.00
506-851
169.90
506-870
506-784
107.90
32.3
94.6
53.5
0.3
40.2
25.7
14.8
69.9
103.1
52.2
85.0
93.6
164.3
207.3
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
784, 851, 858, 861,
866, 868, 870


529853
8000 N
529854
112.4
18.7
23.7
41.4
120.4
163.8
248.0
81.3
60.7
506-916
98.00
506-905
200.00
506-912
110.00
506-895
181.93
506-803
101.00
529870
529871
7500 N
9000 E
529877
LEGEND
DENOTES DRILL COLLAR
COMPILATION BY
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
803, 895, 905,
912, 916


369772
369773
11500 N
369766
369767
76.2
88.6
369745
369746
8000 E
369748
PLACER DOME CANADA LIMITEI
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
924


369772
369773
1:500 N
369766
369767
105.1
50.9
129.4
7.6
111.1
83.0
107.3
15.6
369745
369746
9000 E
369748
PLACER DOME CANADA LIMITEI
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
834, 835, 927, 928


10000 N
529826
529827
239.4
202.8
16.8
74.73
57.2
9500 N
26.5
84.1
529839
529838
9000 E
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
933, 934, 947
Drawn by LAH
Scale 1 : 2500
Date Feb 28, 1996



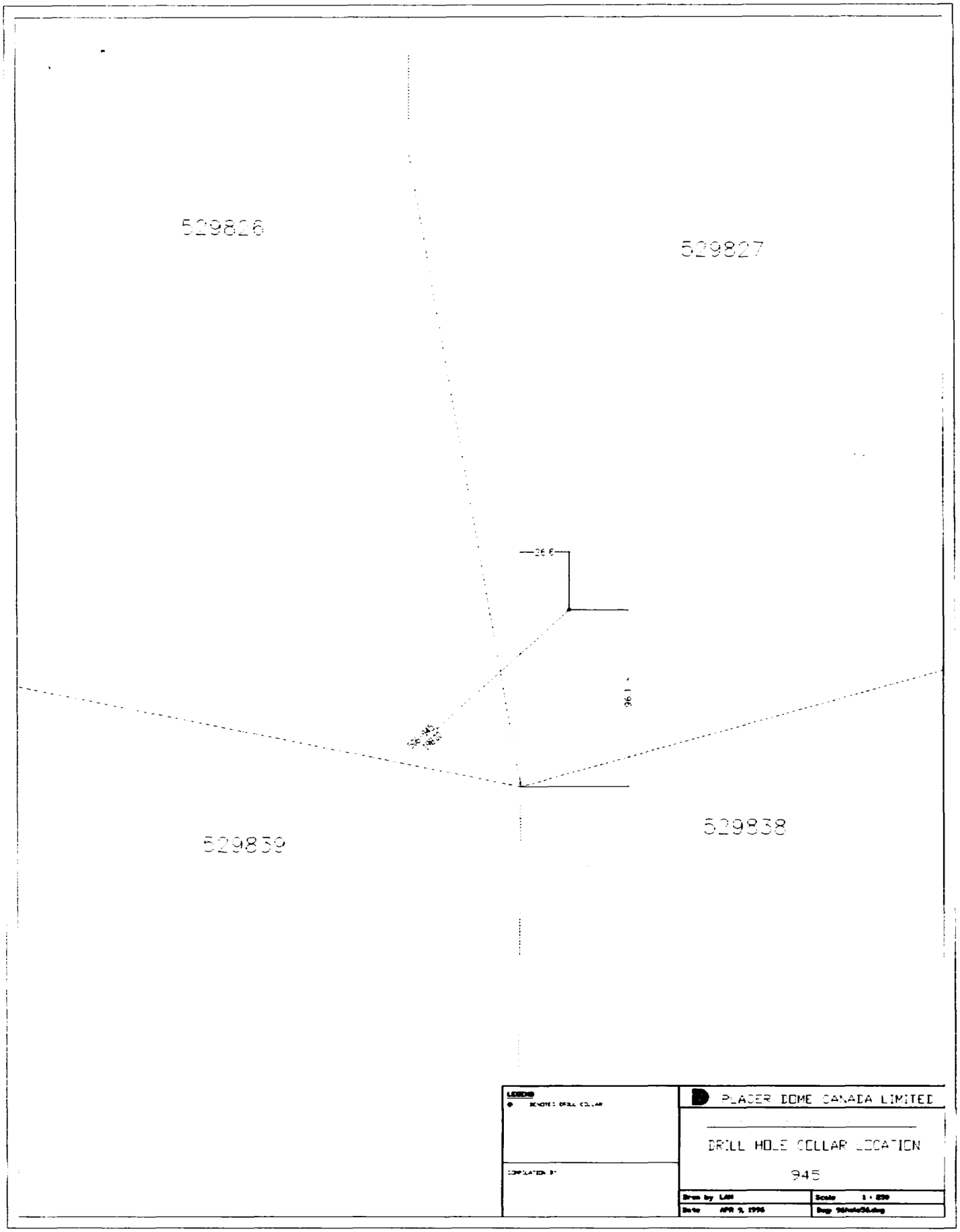
PLACER DOME CANADA LIMITED

DRILL HOLE CELLAR LOCATION

933, 934 947

Drawn by LAH | Scale 1 : 2500

Date Feb 28, 1996



LEGEND

● DENOTES DRILL COLLAR

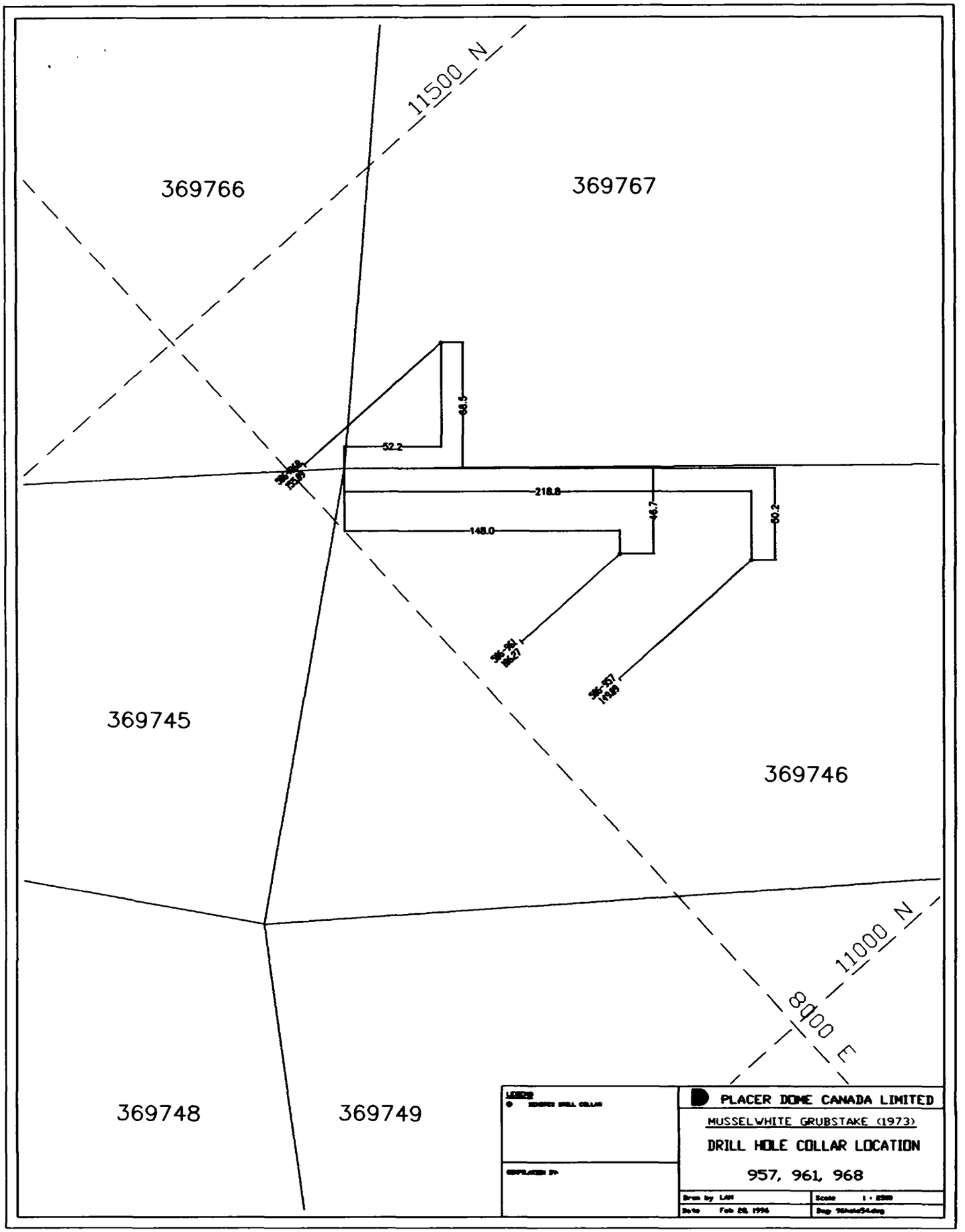
COMPILATION BY

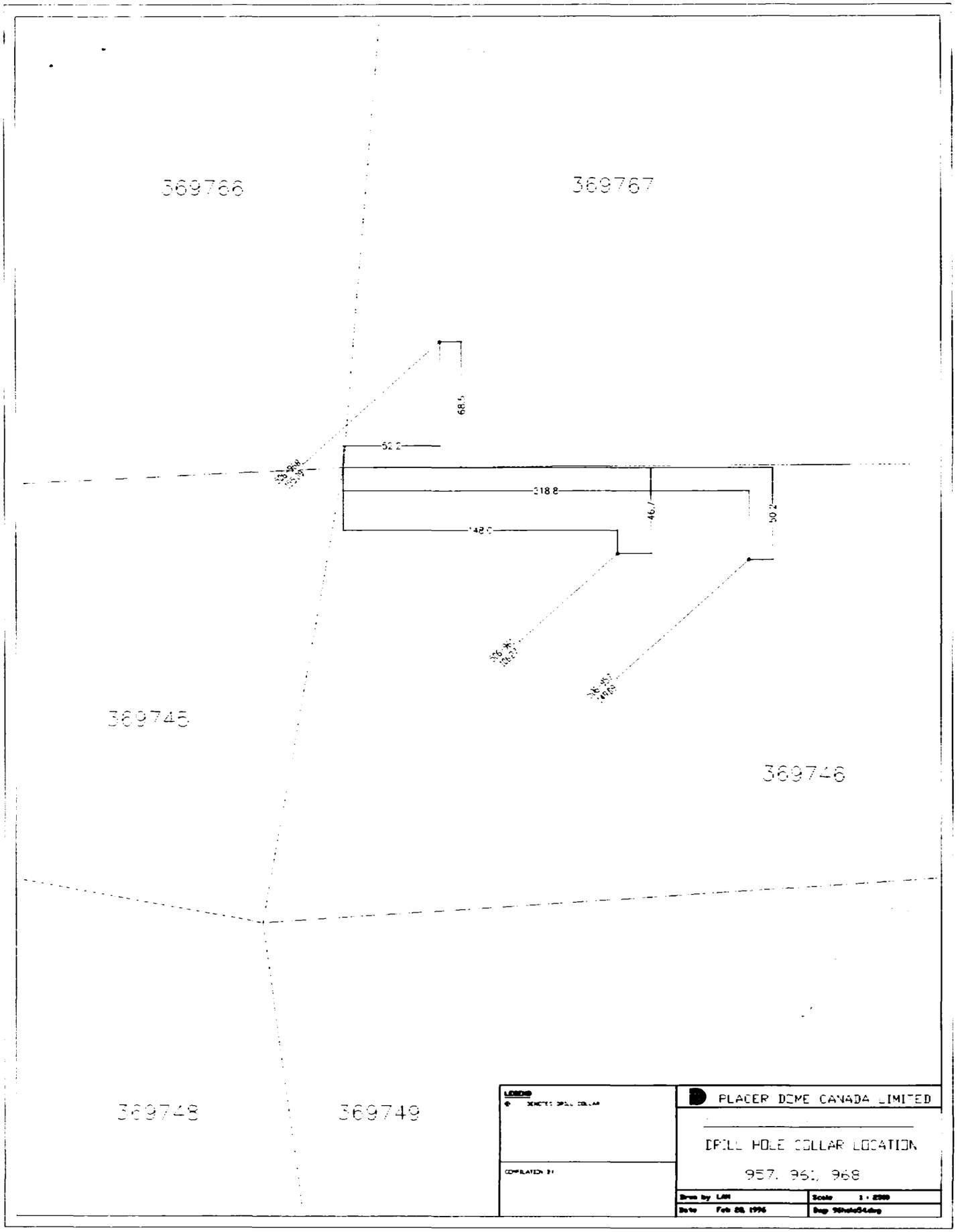
PLACER DOME CANADA LIMITED

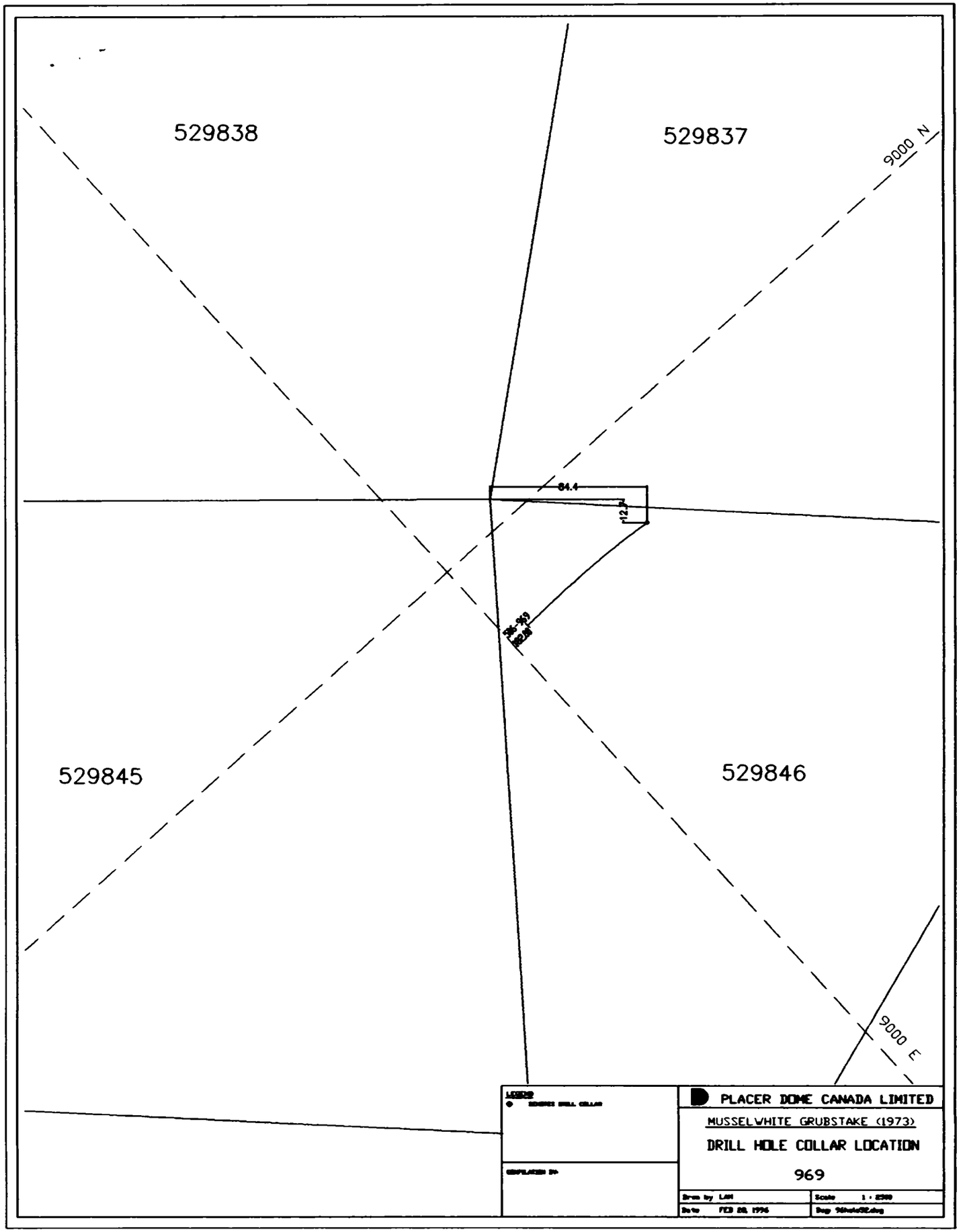
DRILL HOLE COLLAR LOCATION

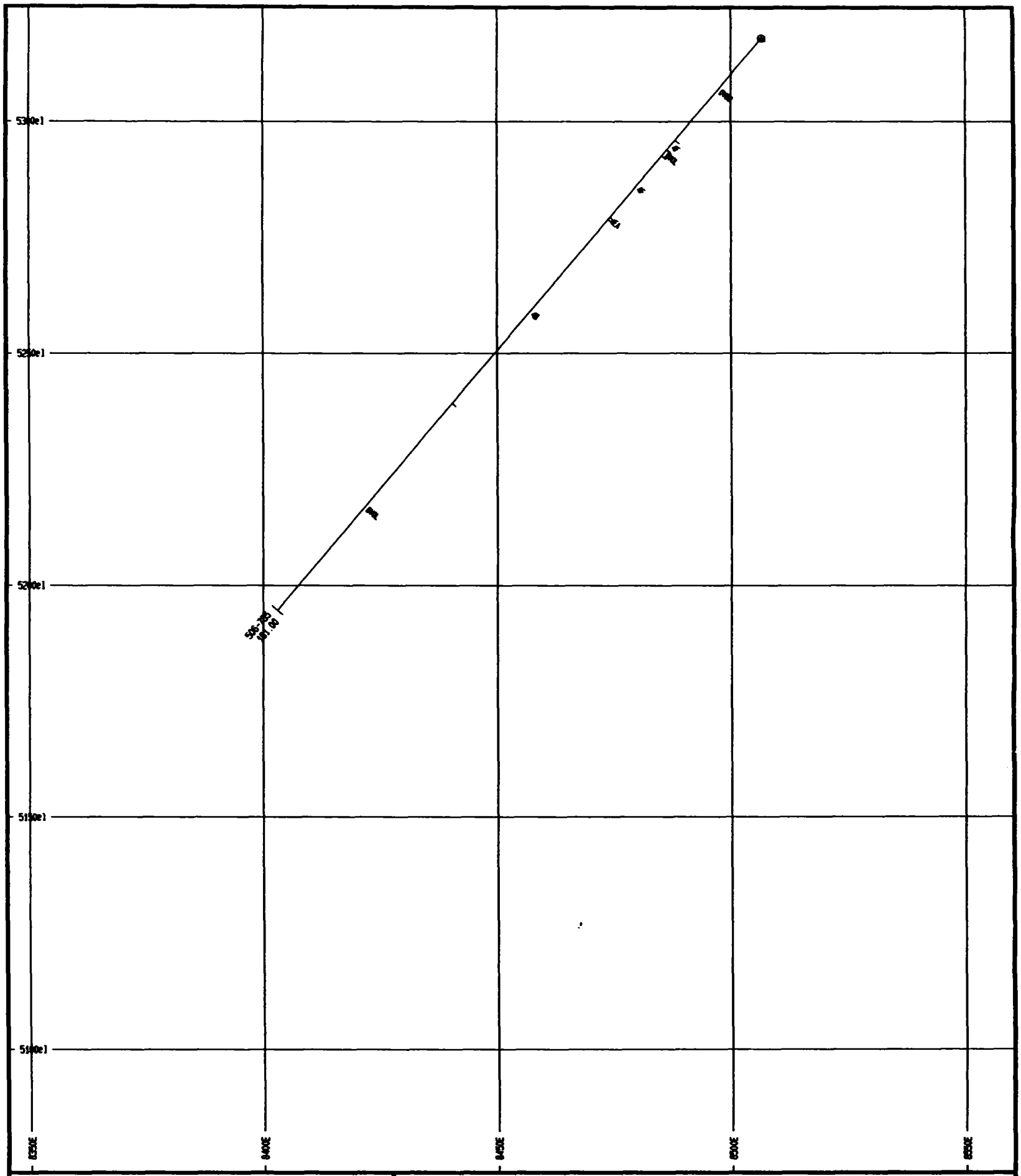
945

Drawn by LAH	Scale 1 : 250
Date APR 9, 1996	Dwg 96hole945.dwg


11500 N
369766
369767
52.2
68.5
218.8
148.0
46.7
60.2
369745
369746
11000 N
8000 E
369748
369749
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
957, 961, 968
Drawn by LAH
Scale 1 : 2500
Date Feb 08, 1996


369766
369767
68.5
52.2
318.8
46.7
30.2
148.0
369745
369746
369748
369749
LEGEND
COMPILATION BY:
PLACER DOME CANADA LIMITED
DRILL HOLE COLLAR LOCATION
957, 961, 968
Drawn by: LAH
Date: Feb 08, 1996
Scale: 1 : 2500


529838
529837
529845
529846
9000 N
9000 E
84.4
12.2
PLACER DOME CANADA LIMITED
MUSSELWHITE GRUBSTAKE (1973)
DRILL HOLE COLLAR LOCATION
969
Drawn by LAH
Date FEB 28, 1996
Scale 1 : 2500



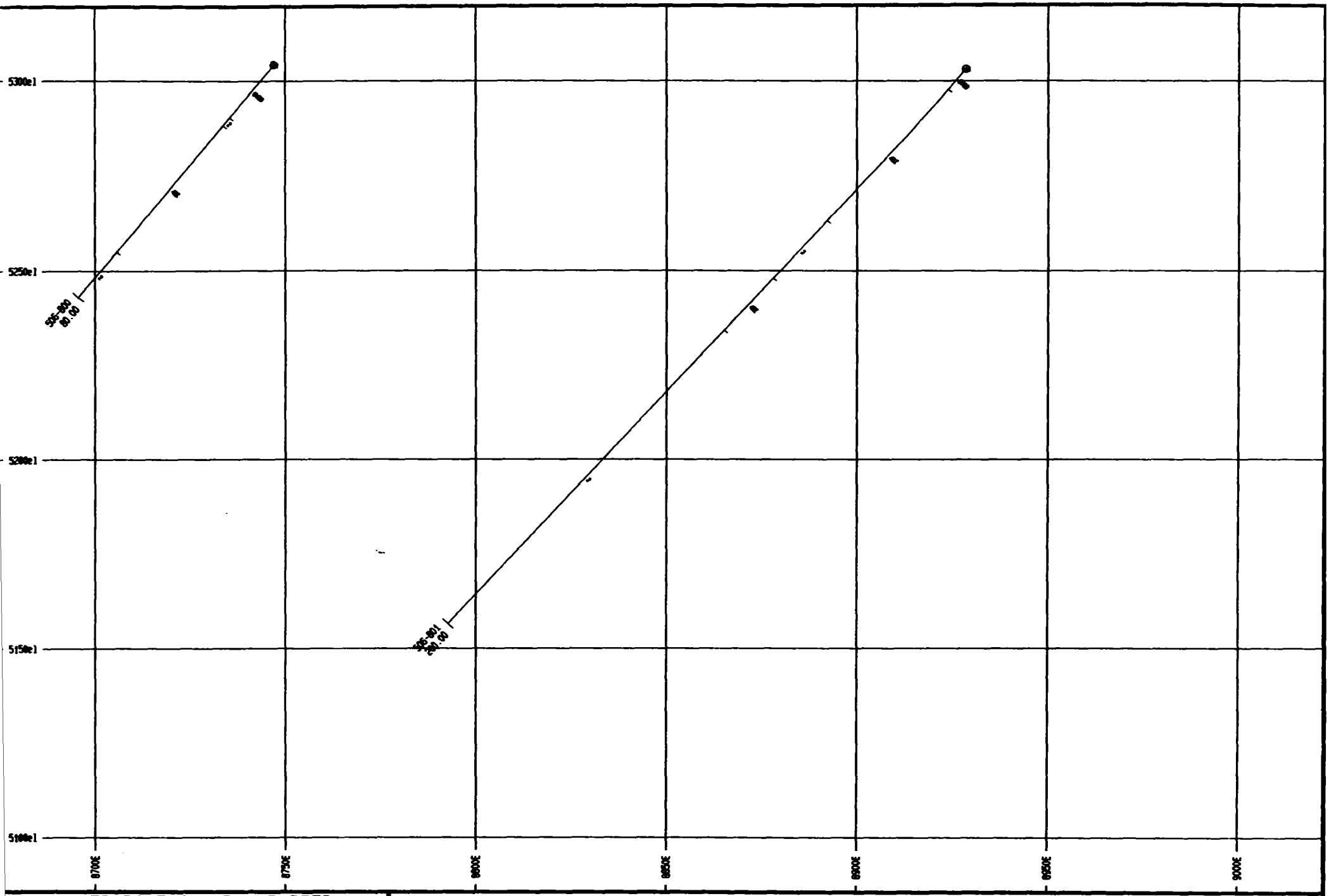
PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 10:48:22

SCALE (HOR) 1:1000 SCALE (VERT) 1:1000

Section 9700N
Musselwhite
Hole 506-785

Software by GEMCOM Services Inc.



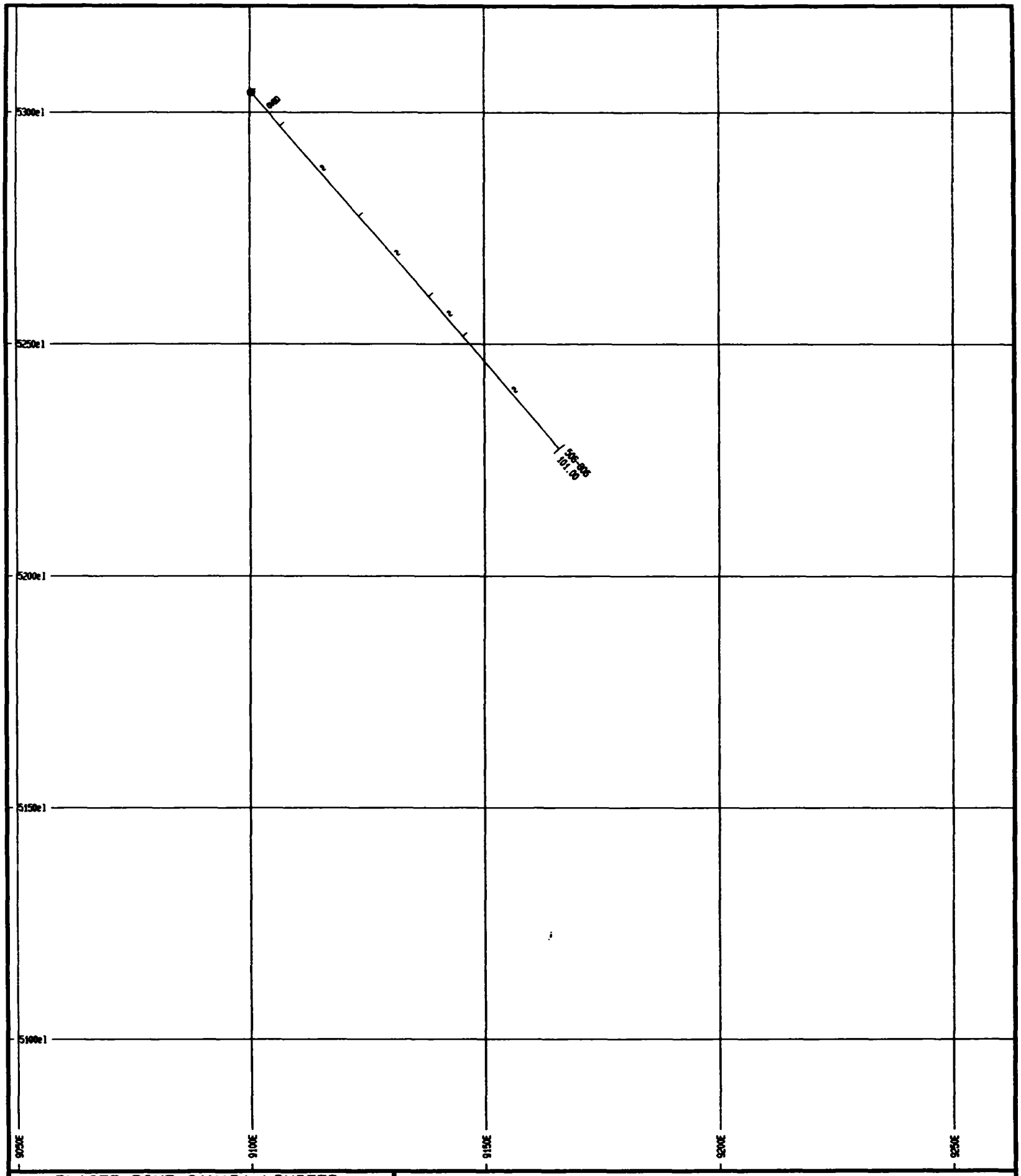
PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 10:18:47

SCALE (HOR) 1:1250 SCALE (VERT) 1:1250

ftware by GEMCOM Services Inc.

Section 7700N
Musselwhite
Hole 506-800 506-801



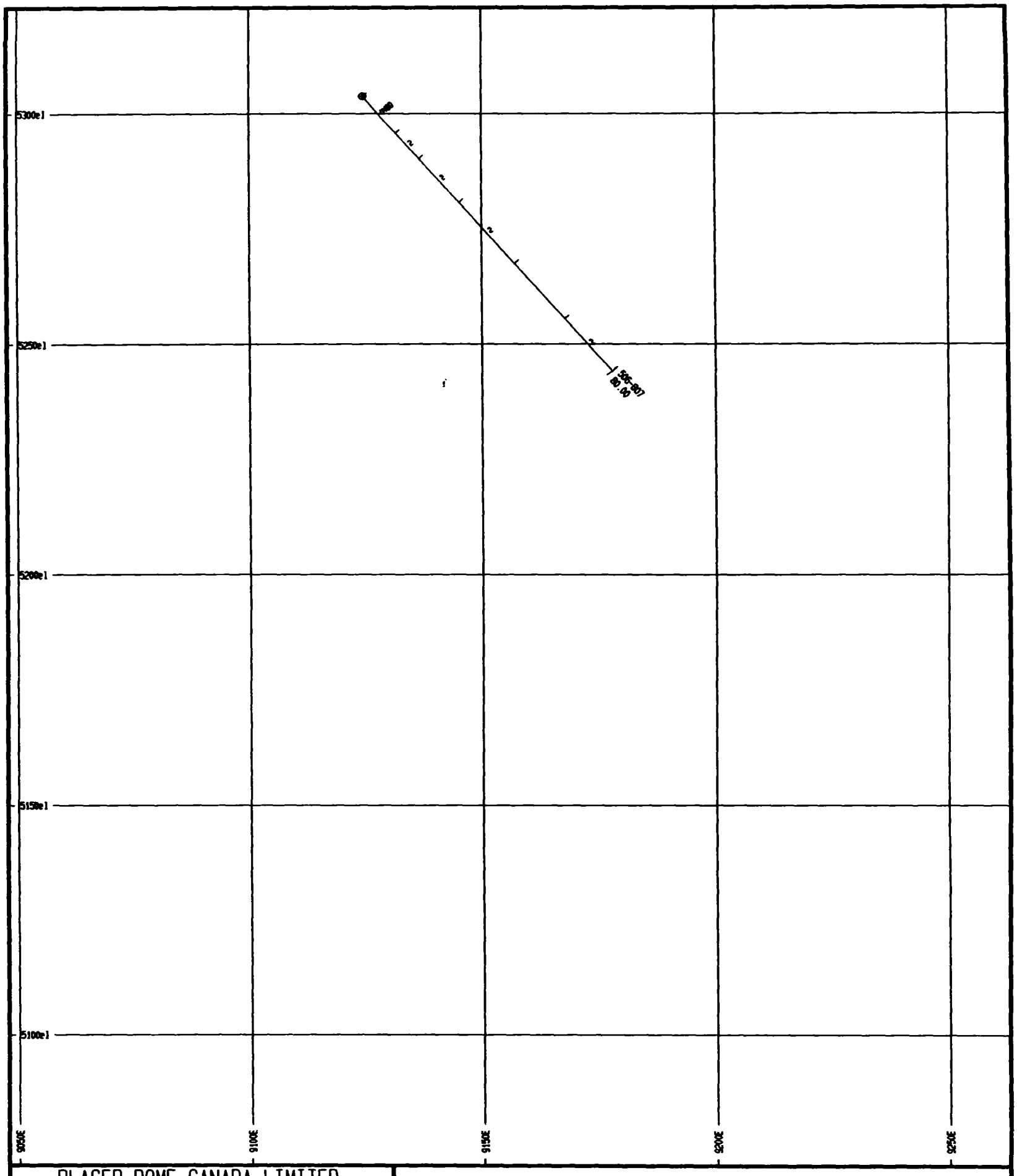
PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 10:14:40

SCALE (HOR) 1:1000 SCALE (VERT) 1:1000

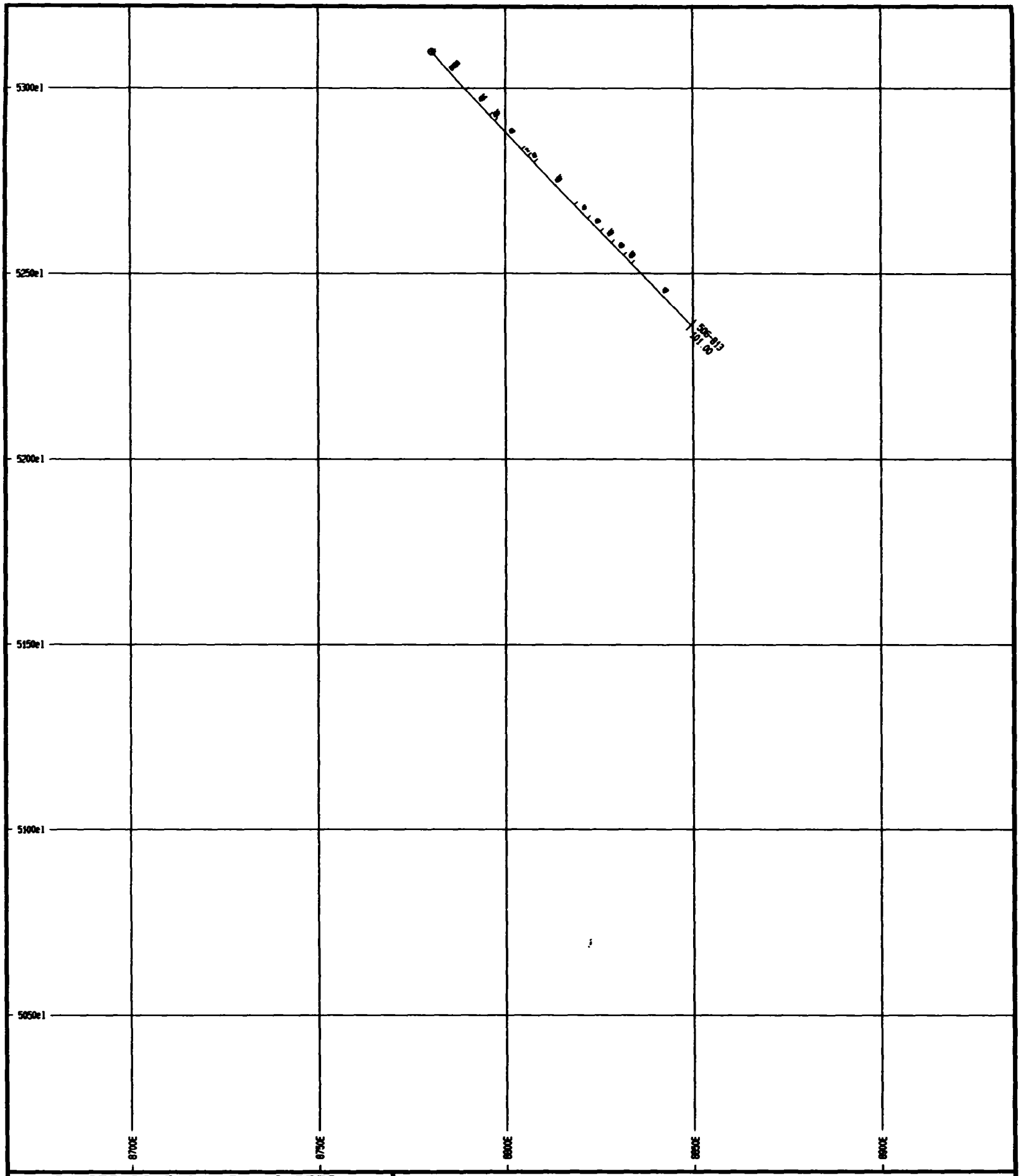
Section 7100N
Musselwhite
Hole 506-806

Software by GEMCOM Services Inc.



PLACER DOME CANADA LIMITED 1440 Hugh Allan Drive Kamloops, BC V1S 1L8	Section 7000N Musselwhite Hole 506-807
DATE: 03/26/96 TIME: 10:12:57	
SCALE (HOR) 1:1000 SCALE (VERT) 1:1000	

Software by GEMCOM Services Inc.



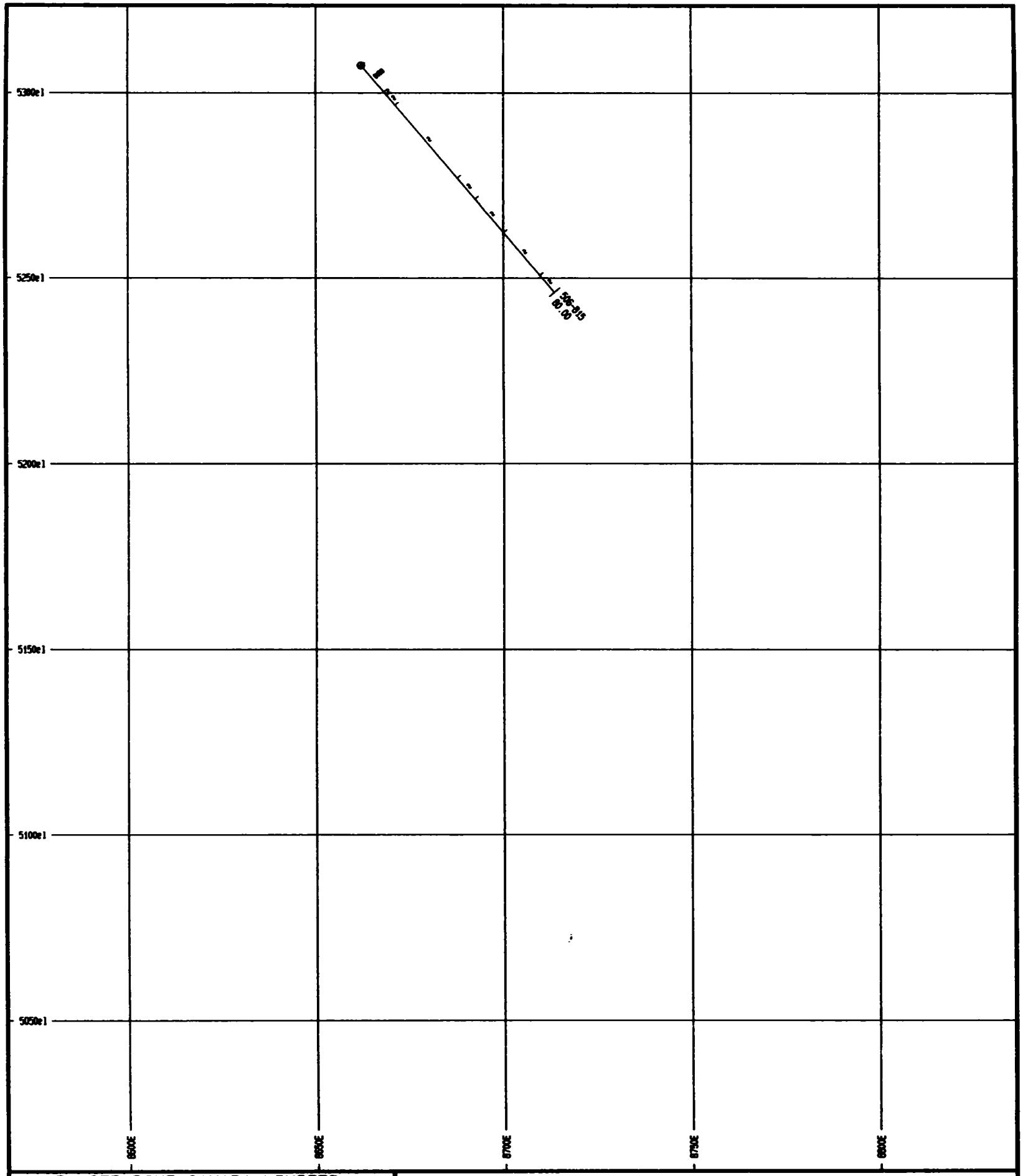
PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 10:21:56

SCALE (HOR) 1:1250 SCALE (VERT) 1:1250

Section 8850N
Musselwhite
Hole 506-813

Software by GEMCOM Services Inc.



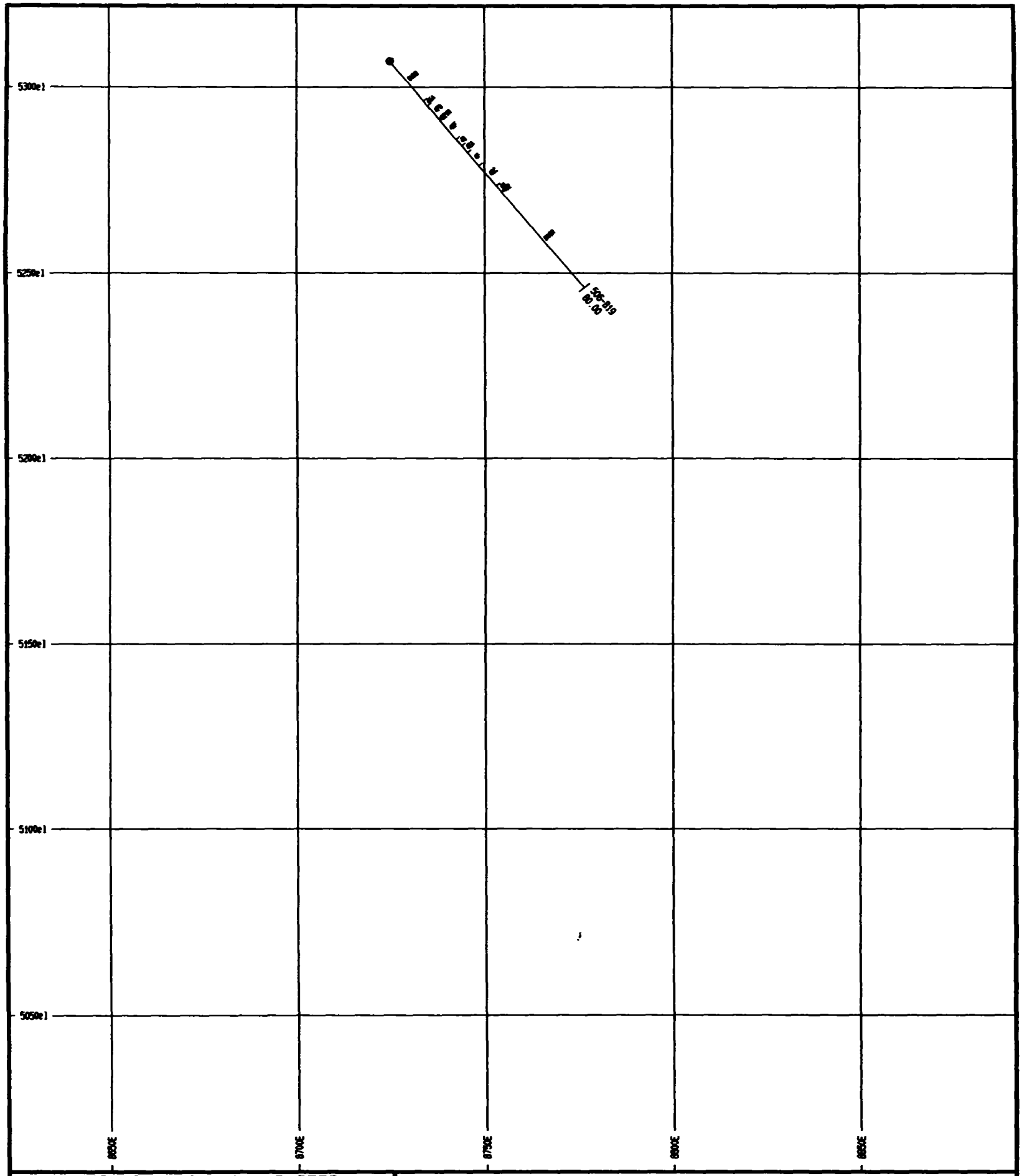
PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 10:20:33

SCALE (HOR) 1:1250 SCALE (VERT) 1:1250

Section 8550N
Musselwhite
Hole 506-815

Software by GEMCOM Services Inc.



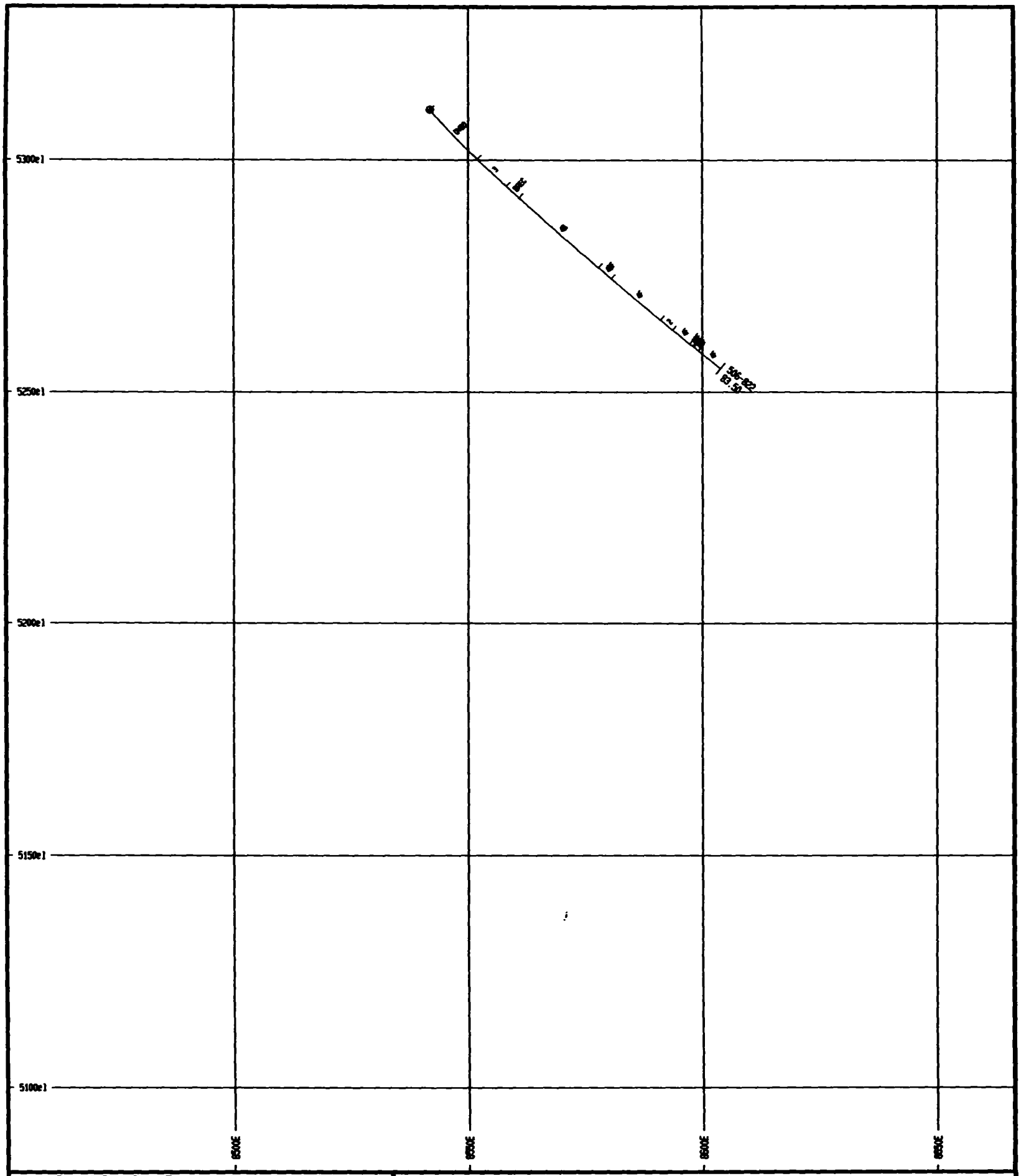
PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 10:23:03

SCALE (HOR) 1:1250 SCALE (VERT) 1:1250

Section 9050N
Musselwhite
Hole 506-819

Software by GEMCOM Services Inc.



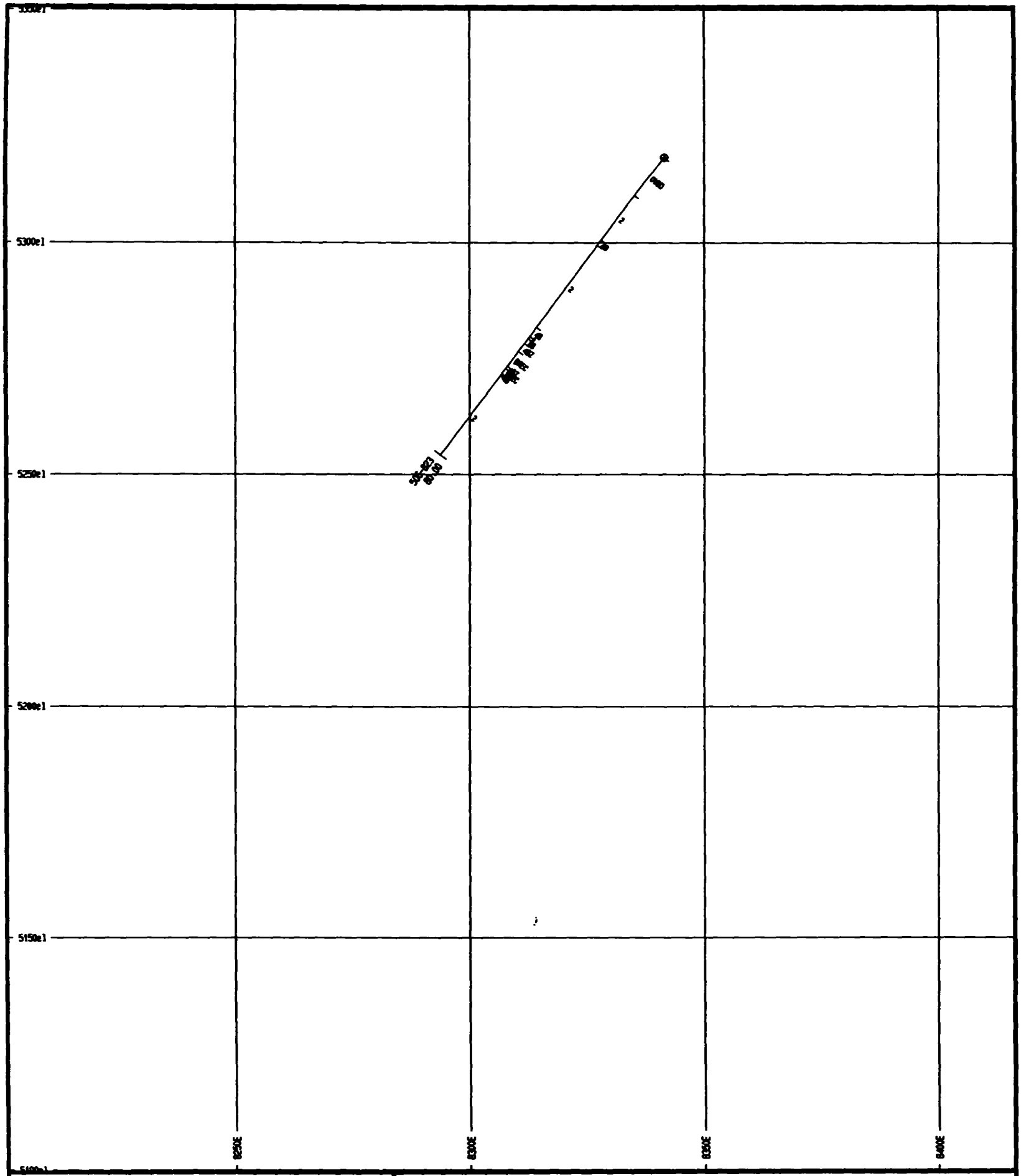
PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 10:35:21

SCALE (HOR) 1:1000 SCALE (VERT) 1:1000

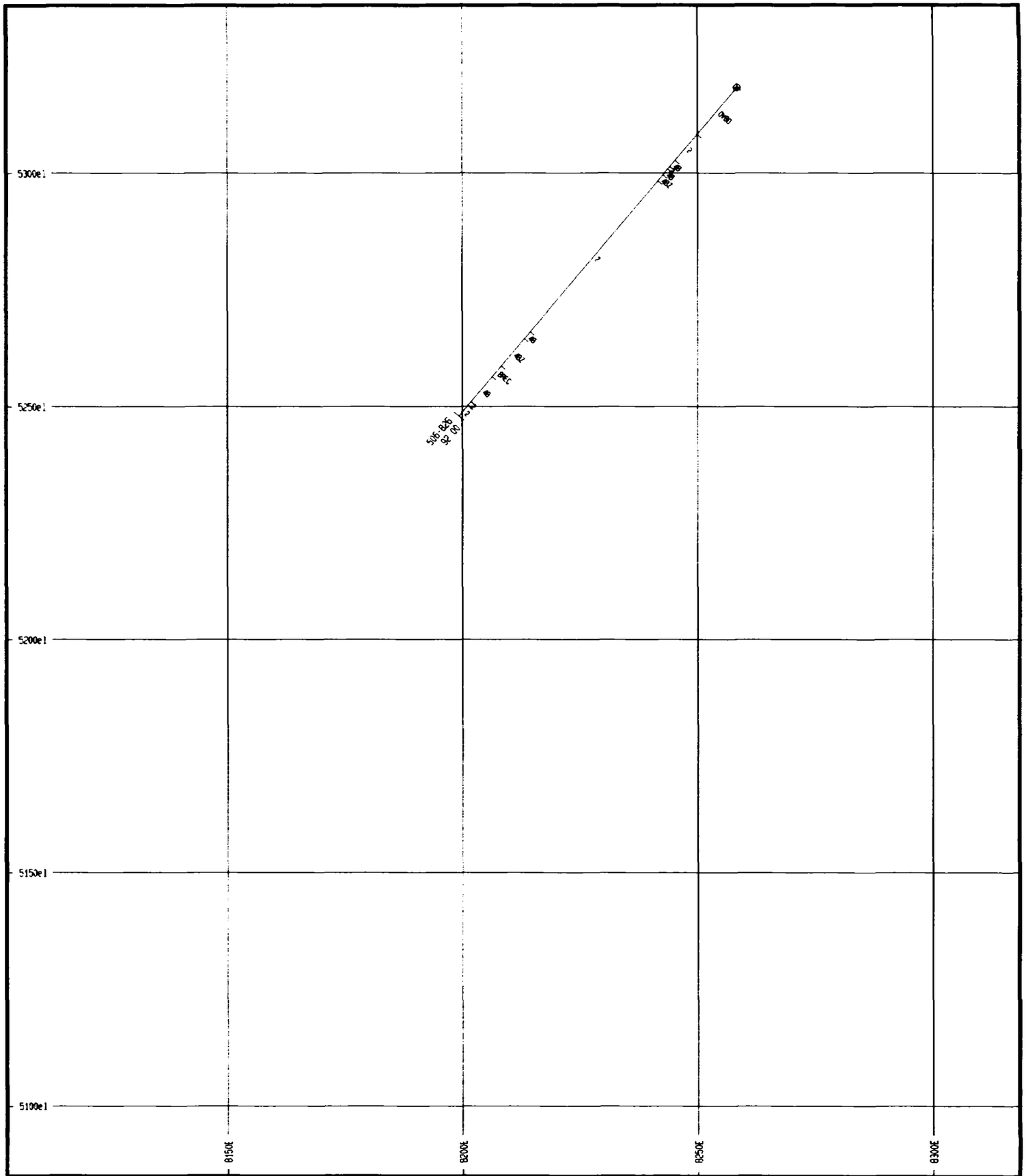
Section 9300N
Musselwhite
Hole 506-822

Software by GEMCOM Services Inc.



PLACER DOME CANADA LIMITED 1440 Hugh Allan Drive Kamloops, BC V1S 1L8	Section 9300N Musselwhite Hole 506-823
DATE: 03/26/96 TIME: 10:36:25	
SCALE (HOR) 1:1000 SCALE (VERT) 1:1000	

Software by GEMCOM Services Inc.

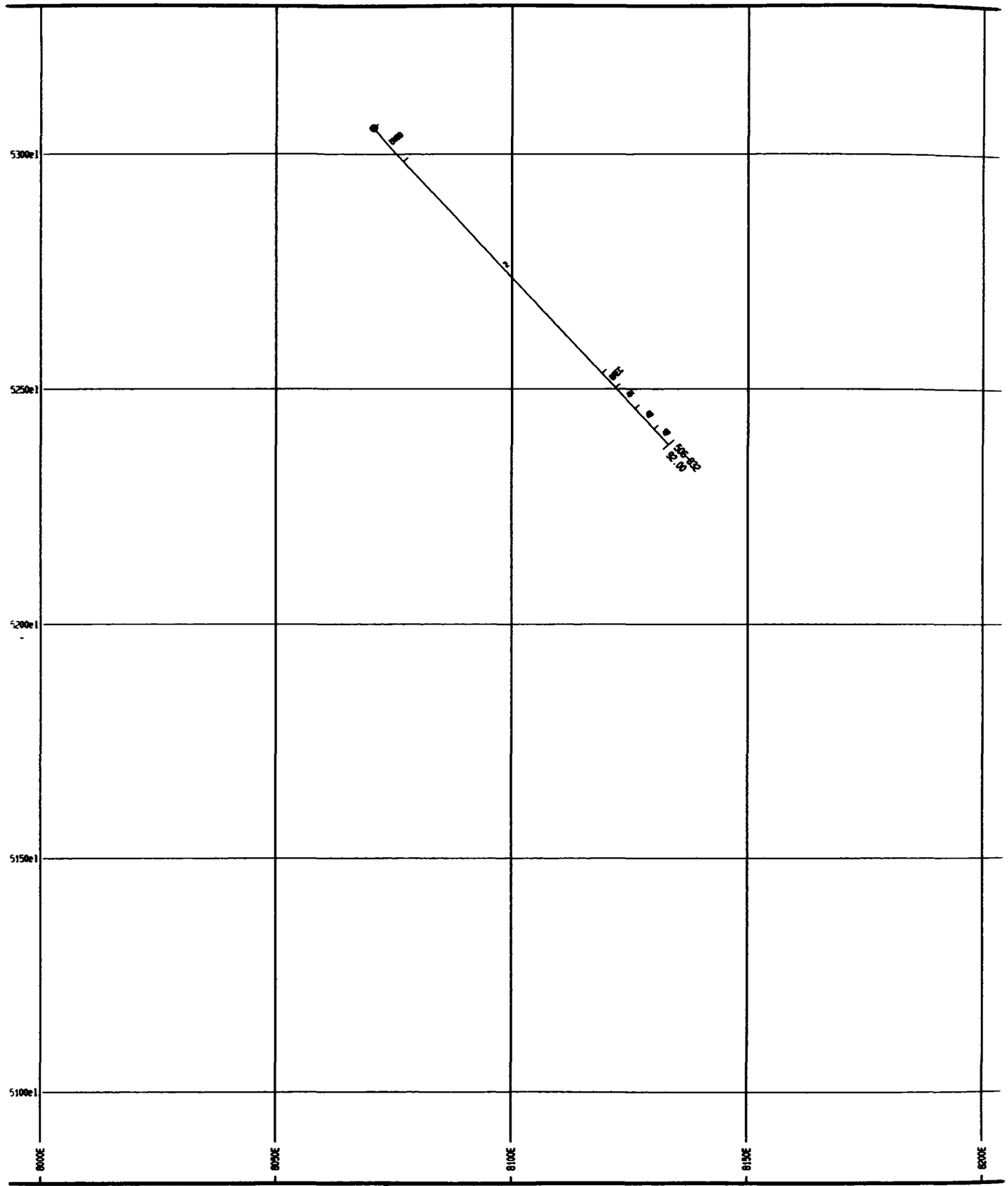


PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 04/12/96 TIME: 12:23:45

Section 9525N
Musselwhite

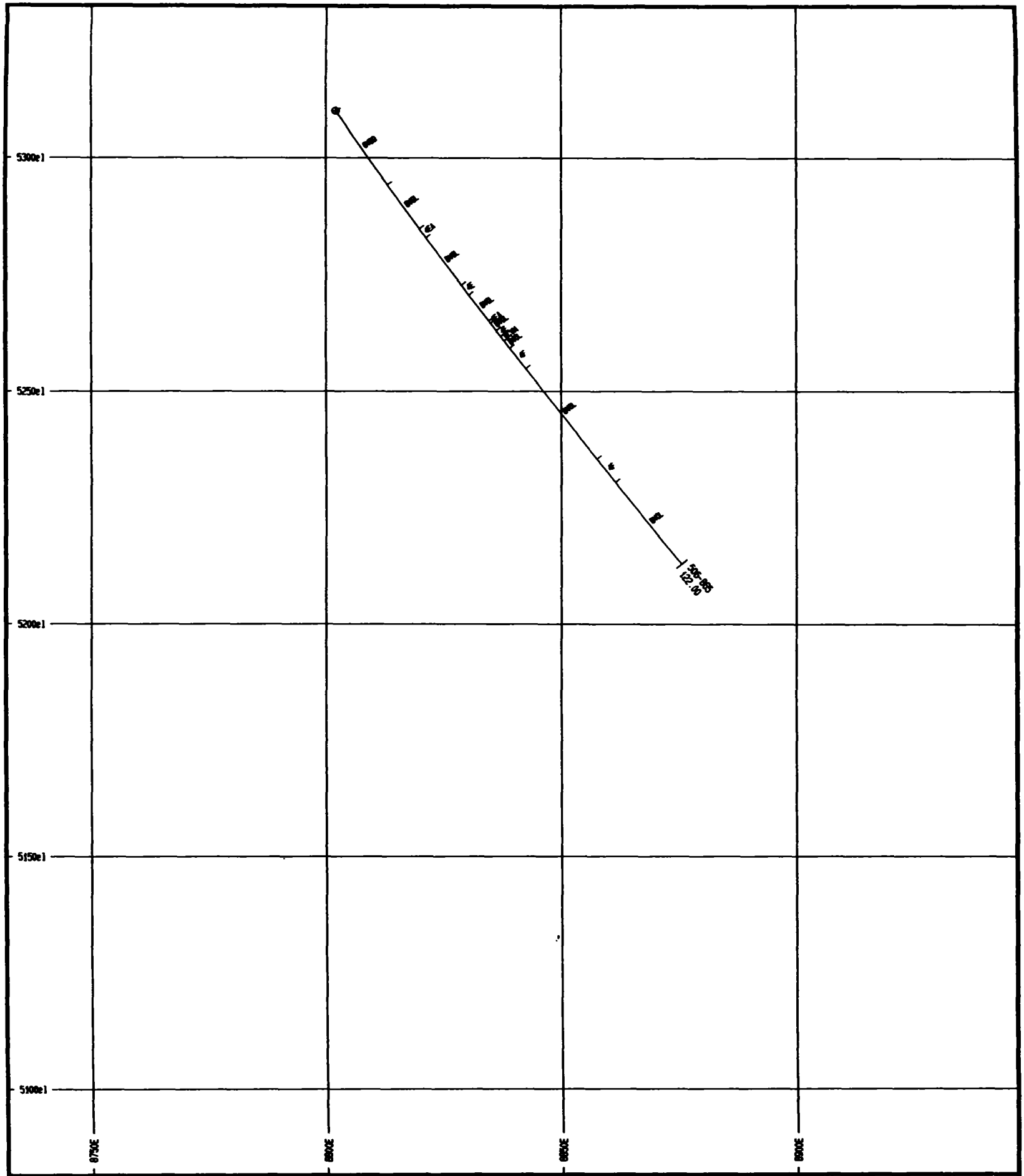
Hole 506-826



PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 10:50:19

Section 10900N
Musselwhite
Hole 506-832



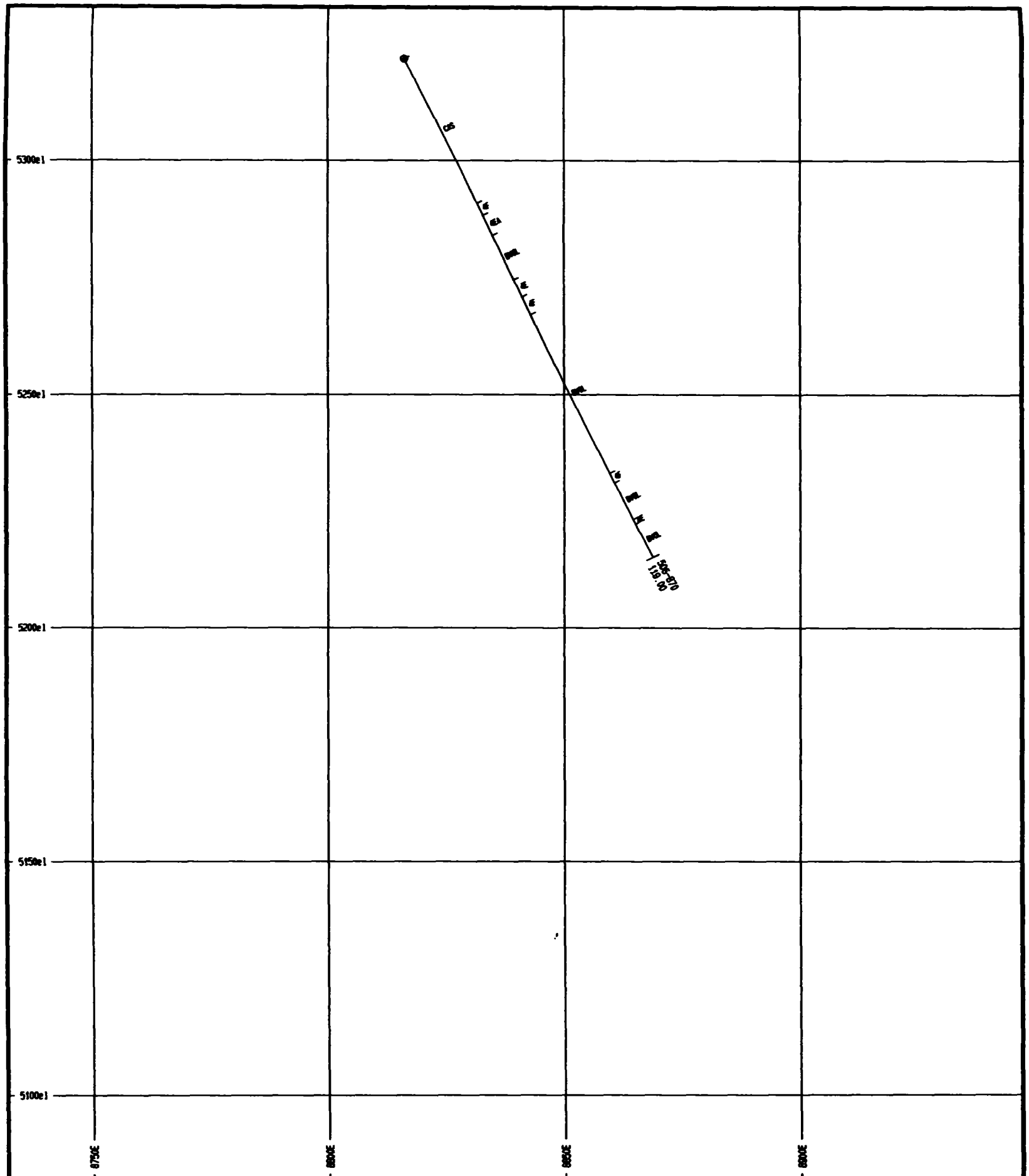
PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 10:38:45

SCALE (HOR) 1:1000 SCALE (VERT) 1:1000

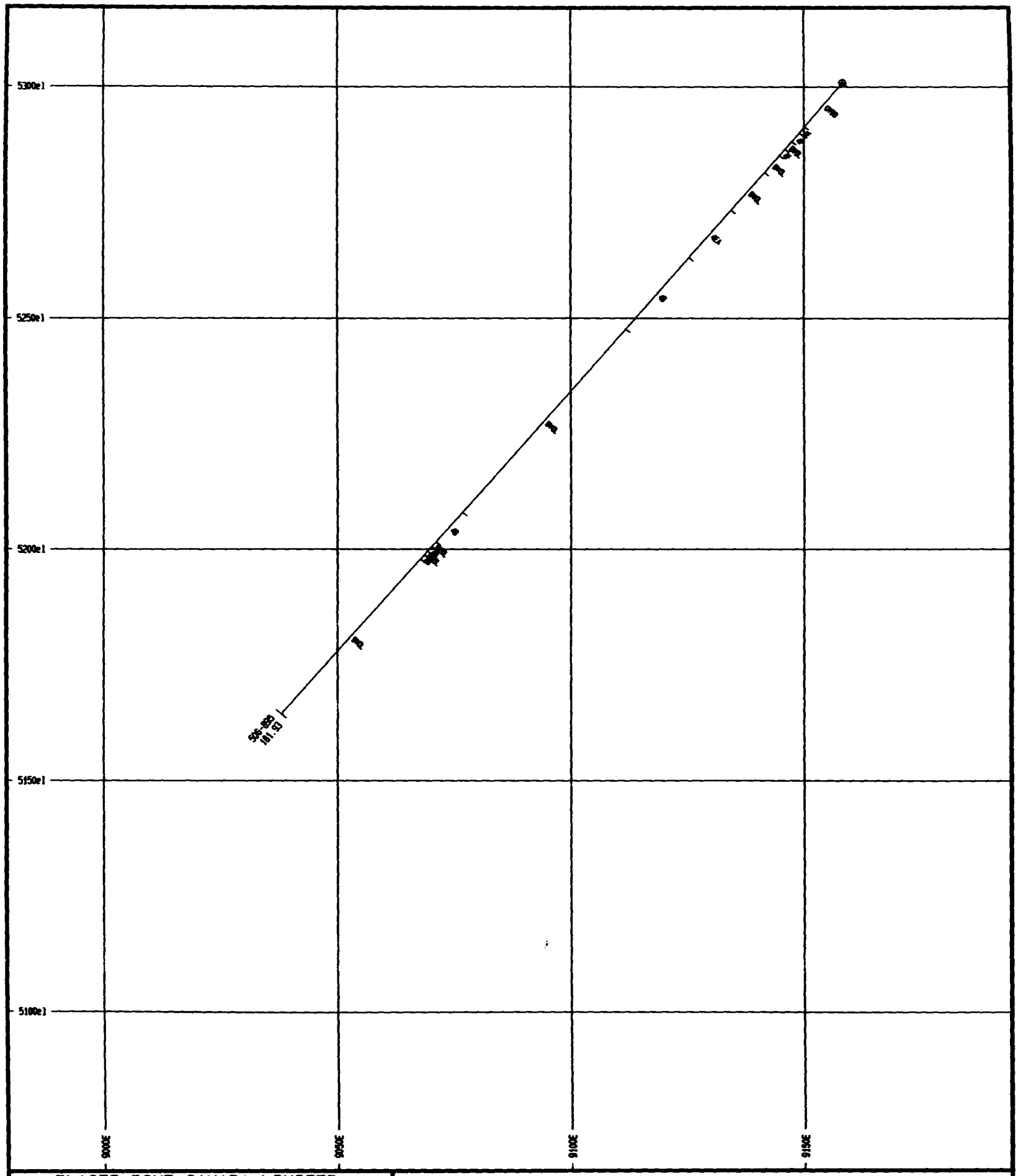
Section 9625N
Musselwhite
Hole 506-865

Software by GEMCOM Services Inc.



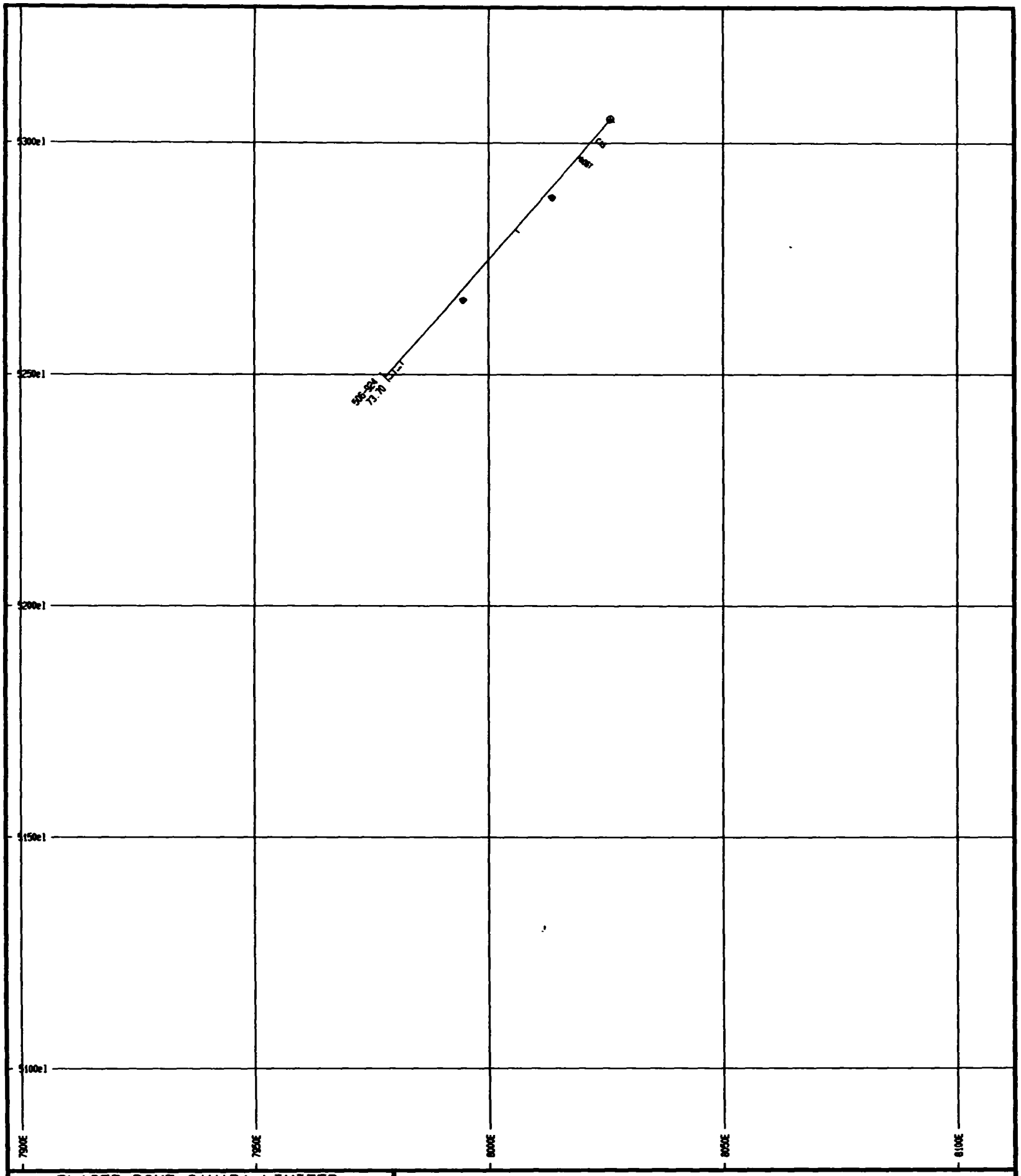
PLACER DOME CANADA LIMITED 1440 Hugh Allan Drive Kamloops, BC V1S 1L8	Section 9675N Musselwhite Hole 506-870
DATE: 03/26/96 TIME: 10:43:24	
SCALE (HOR) 1:1000 SCALE (VERT) 1:1000	

Software by GEMCOM Services Inc.



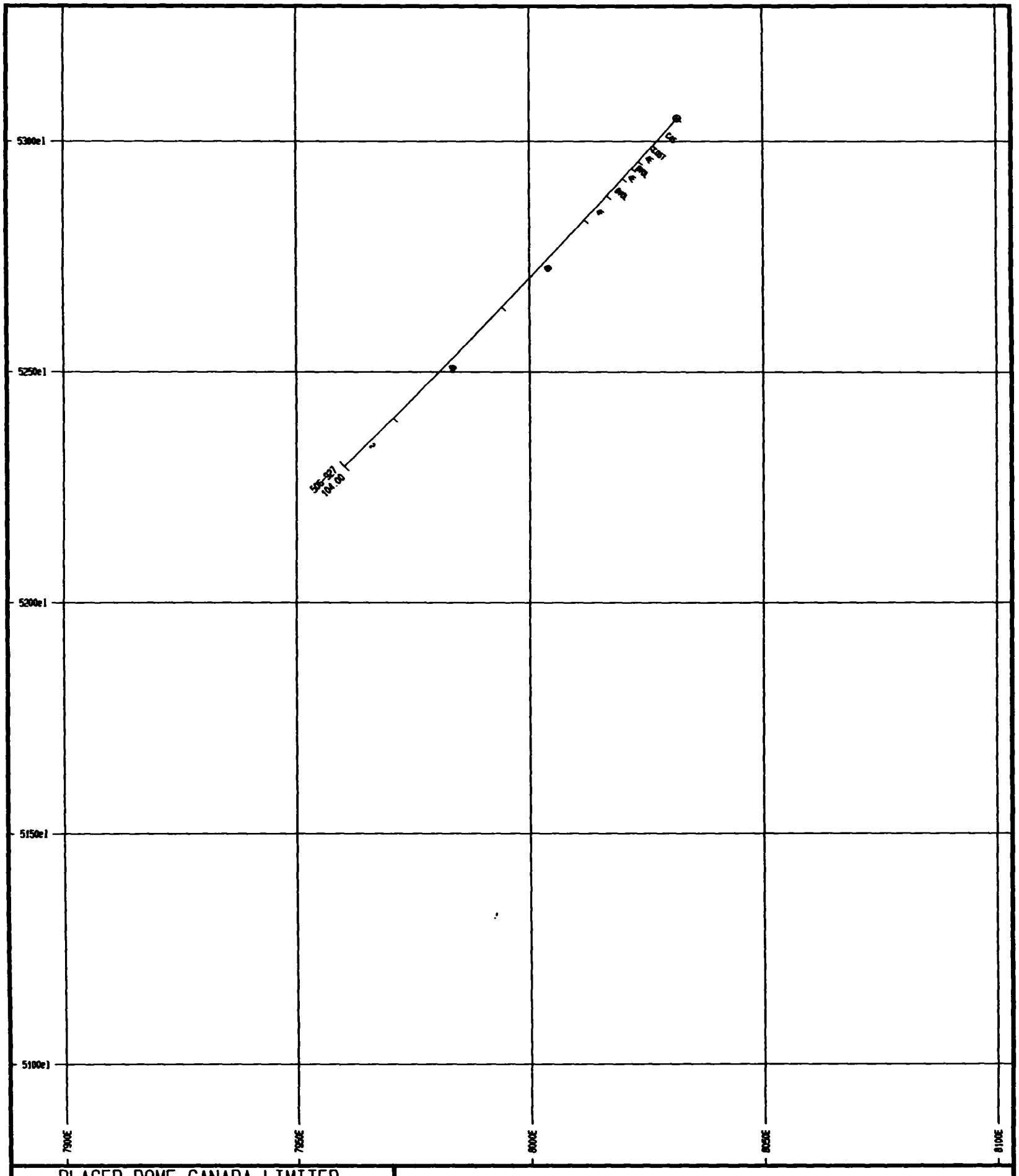
PLACER DOME CANADA LIMITED 1440 Hugh Allan Drive Kamloops, BC V1S 1L8	Section 7600N Musselwhite Hole 506-895
DATE: 03/26/96 TIME: 10:17:17	
SCALE (HOR) 1:1000 SCALE (VERT) 1:1000	

Software by GEMCOM Services Inc.



PLACER DOME CANADA LIMITED 1440 Hugh Allan Drive Kamloops, BC V1S 1L8	Section 11500N Musselwhite Hole 506-924
DATE: 03/26/96 TIME: 10:59:12	
SCALE (HOR) 1:1000 SCALE (VERT) 1:1000	

Software by GEMCOM Services Inc.



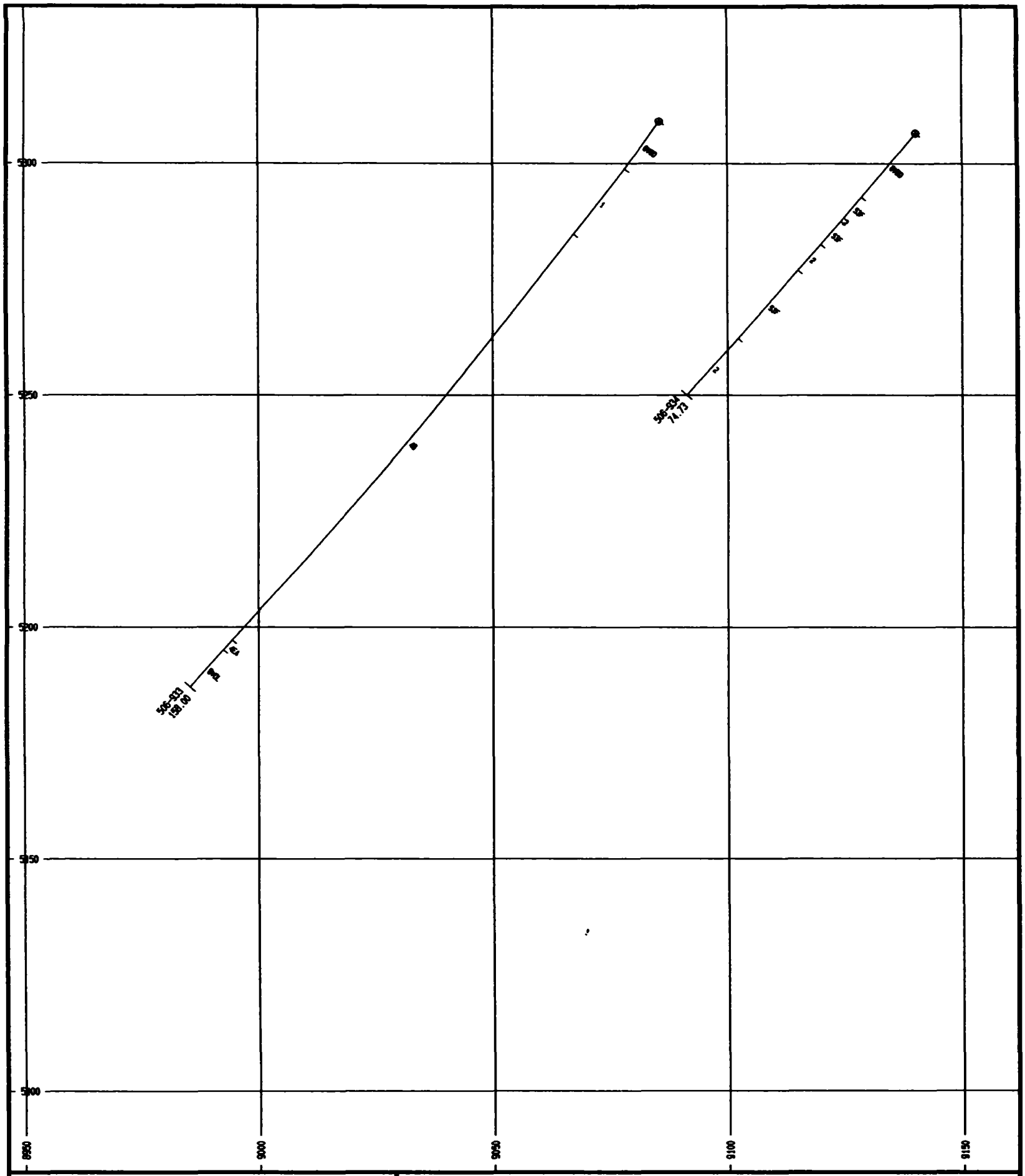
PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 11:00:13

SCALE (HOR) 1:1000 SCALE (VERT) 1:1000

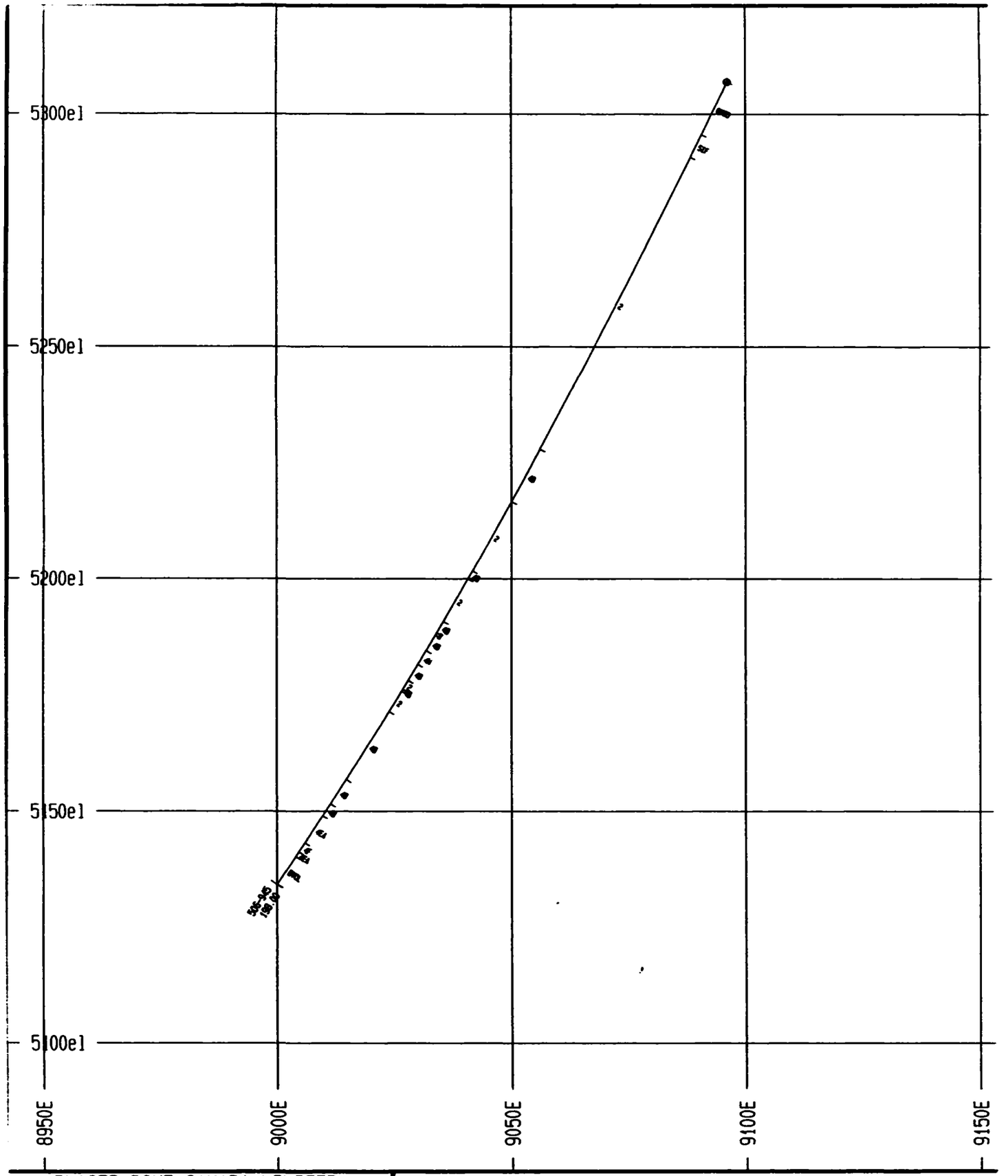
Section 11550N
Musselwhite
Hole 506-927

Software by GEMCOM Services Inc.



PLACER DOME CANADA LIMITED 1440 Hugh Allan Drive Kamloops, BC V1S 1L8	Section 9750N Musselwhite Hole 506-933 506-934
DATE: 03/26/96 TIME: 11:55:14	
SCALE (HOR) 1:1000 SCALE (VERT) 1:1000	

Software by GEMCOM Services Inc.

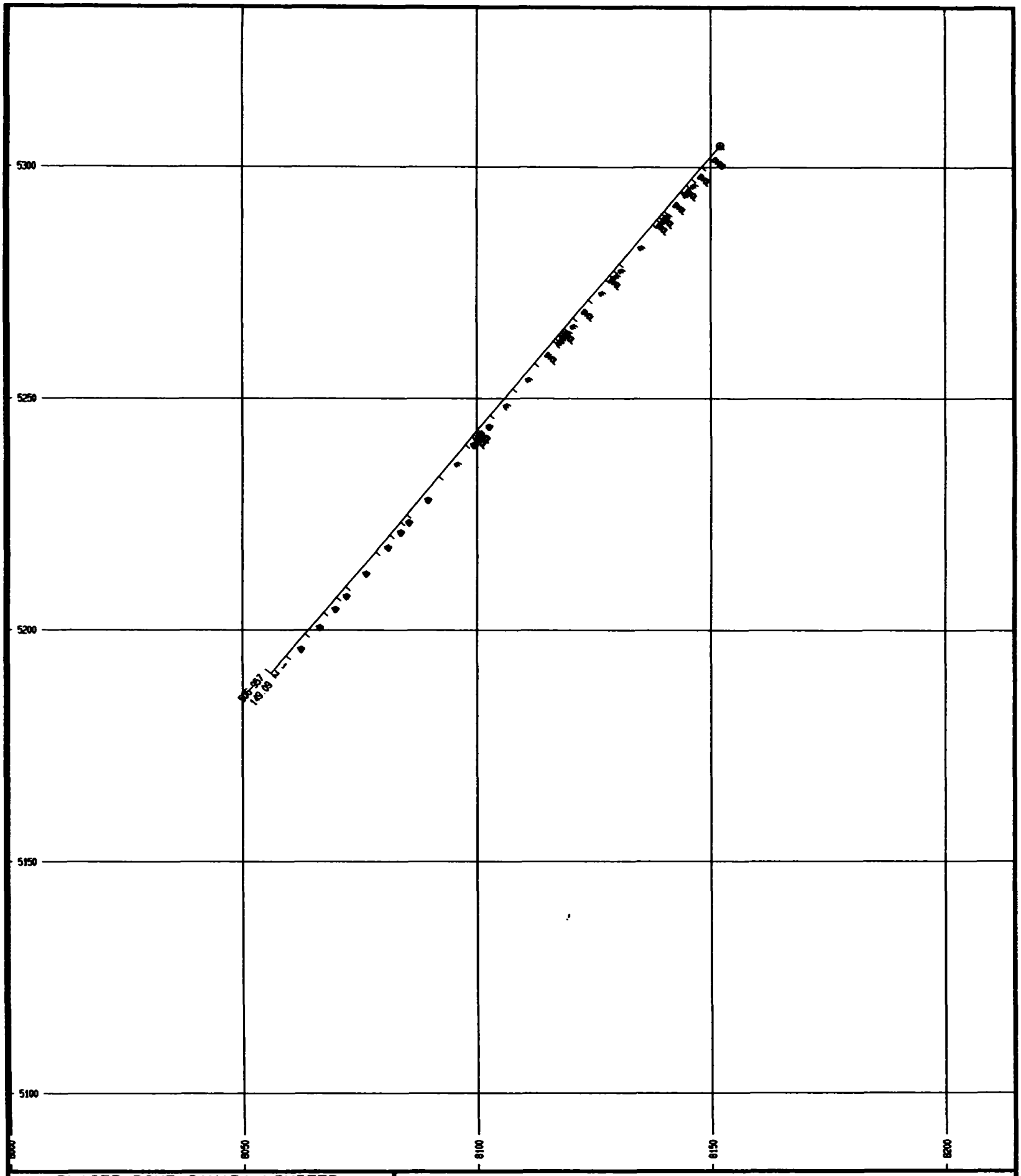


PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 04/09/96 TIME: 09:50:08

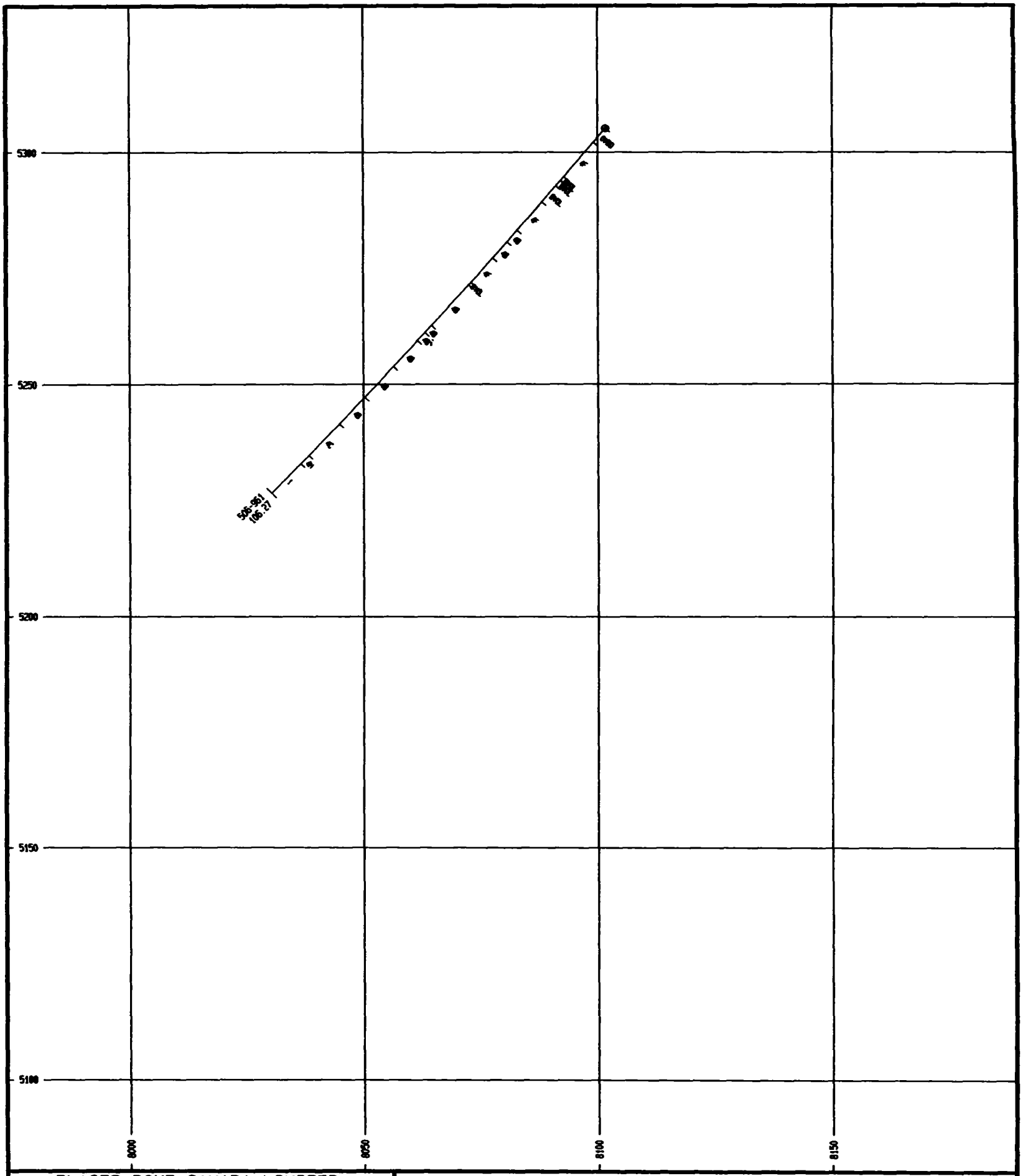
SCALE (HOR) 1:1000 SCALE (VERT) 1:1000

Section 9550N
Musselwhite Project
HOLE 506-945



PLACER DOME CANADA LIMITED 1440 Hugh Allan Drive Kamloops, BC V1S 1L8	Section 11200N Musselwhite Hole 506-957
DATE: 03/26/96 TIME: 11:56:18	
SCALE (HOR) 1:1000 SCALE (VERT) 1:1000	

Software by GEMCOM Services Inc.



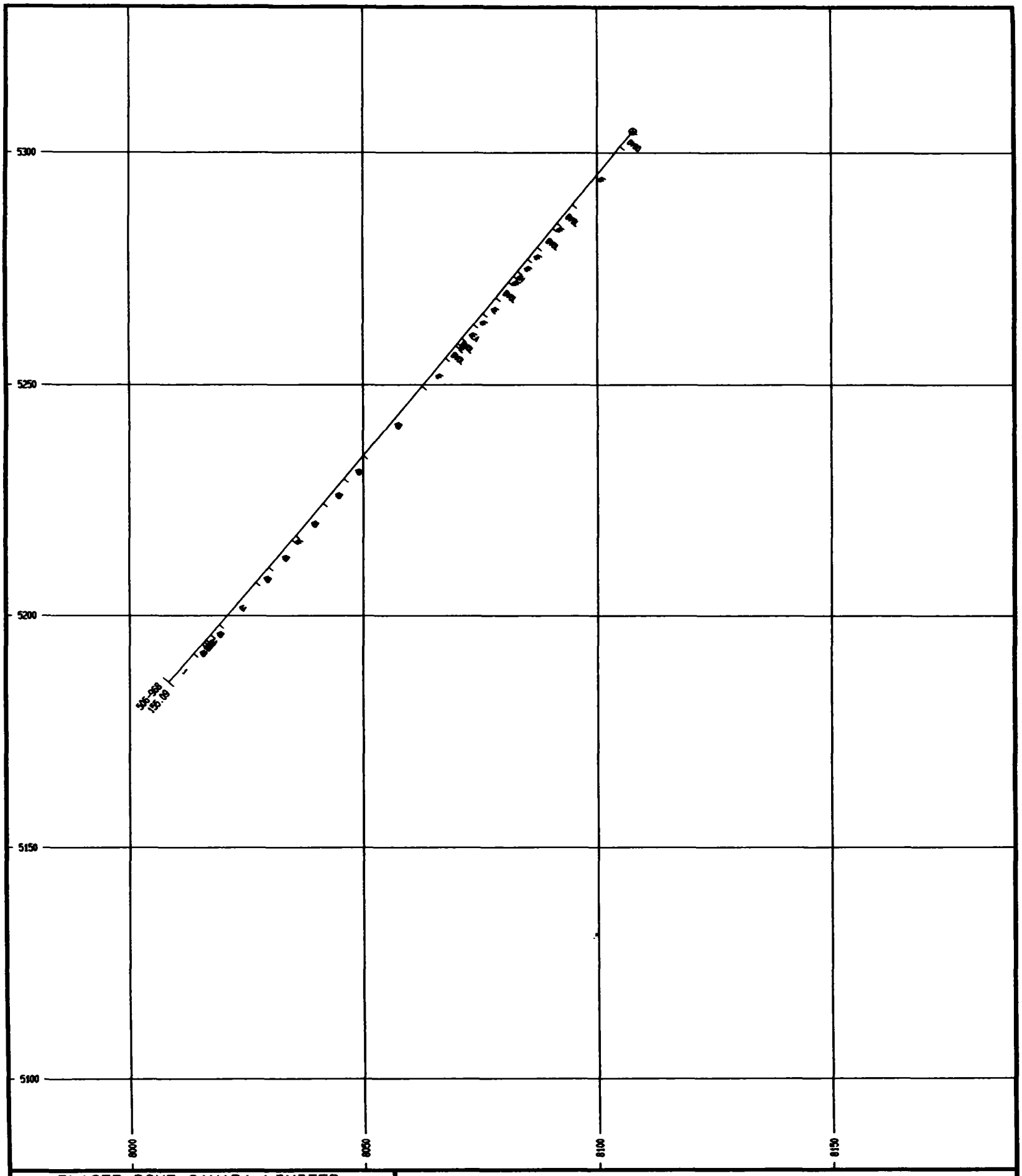
PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 11:57:02

SCALE (HOR) 1:1000 SCALE (VERT) 1:1000

Section 11250N
Musselwhite
Hole 506-961

Software by GEMCOM Services Inc.



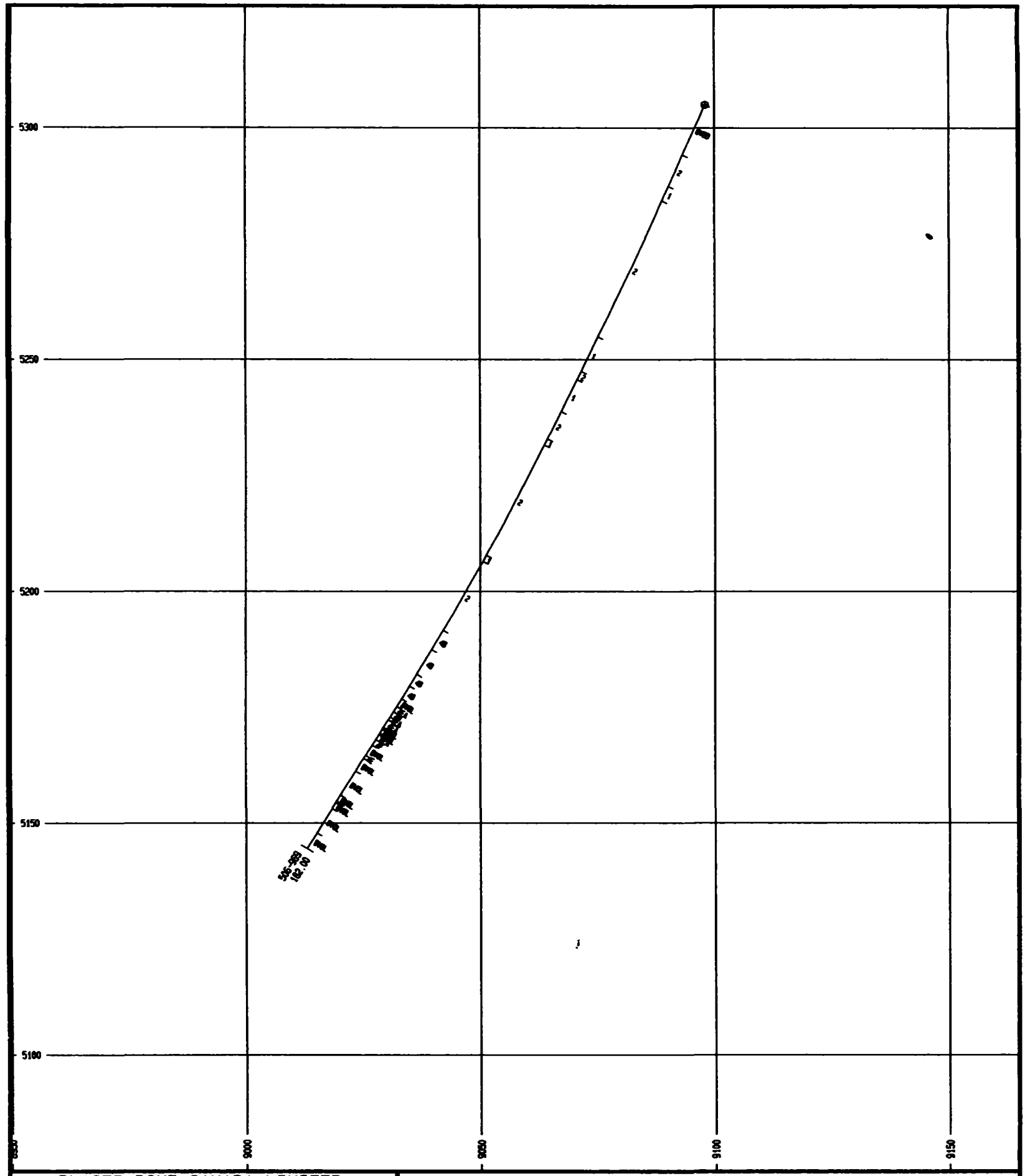
PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 11:58:07

SCALE (HOR) 1: 1000 SCALE (VERT) 1: 1000

Section 11400N
Musselwhite
Hole 506-968

Software by GEMCOM Services Inc.



PLACER DOME CANADA LIMITED
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

DATE: 03/26/96 TIME: 11:52:18

SCALE (HOR) 1:1000 SCALE (VERT) 1:1000

Section 8950N
Musselwhite
Hole 506-969

Software by GEMCOM Services Inc.

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9630.00029

Personal information collected on this form is obtained under the authority of the Mir
this collection should be directed to the Provincial Manager, Mining Lands, Minis
Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

53B09NW0029 W9630-00029 SKINNER LAKE

900

Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s): Placer Dome Canada Limited	Client No.: 300210
Address: 130 Adelaide Street West, Suite 3201, Toronto, Ont., M5H 3P5	Telephone No.: (416)363 4962
Mining Division: Patricia / Township/Area: Skinner & Zeemel Lakes	M or G Plan No.:
Dates Work Performed From: January 16, 1994	To: November 22, 1995

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	
X	Physical Work, Including Drilling	26 Diamond Drill Holes, Total--4081.85m (W20 - PDRILL)
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

Total Assessment Work Claimed on the Attached Statement of Costs $ 256,756

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
Midwest Drilling (A Division of Germac Enterprises Ltd.)	180 Cree Crescent, Winnipeg, Manitoba R3J 3W1

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

	Date	Recorded Holder or Agent (Signature)
I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	April 26,1996	M. Luba Vcislo

Certification of Work Report

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

Name and Address of Person Certifying: M. Luba Vcislo, 130 Adelaide Street West, Suite 3201, Toronto, Ontario, M5H 3P5

Telepone No	Date	Certified By (Signature)
(416) 363 4962	April 26, 1996	M. Luba Vcislo, Land Manager

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
$256,756	96MAYO1		Rec'd / Recorded
	Deemed Approval Date: N/R	Date Approved: 96MAYO1	
	Date Notice for Amendments Sent: N/R		

0241 (03/91)

0241 (03/91)

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	Please Refer To Schedules "A" and "B" Attached.					
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☒ Credits are to be cut back as priorized on the attached appendix. * From Reserve.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature M. Luba Vcislo	Date April 26, 1996

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des mines

Ontario

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction
W9630.00029

Personal information collected on this form is obtained under the authority of the **Mining Act**. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la **Loi sur les mines** et serviront à tenir à jour un registre des concessions minières. Adresser toute quesiton sur la collece de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain		
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type		
			256,756
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		256,756

2. Indirect Costs/Coûts indirects

** **Note:** When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
Food and Lodging Nourriture et hébergement			
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		
	Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs) / **Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)**		256,756

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.

2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit		Total Assessment Claimed
$39,262	× 0.50 =	$19,631

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.

2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation		Évaluation totale demandée
	× 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Land Manager (Recorded Holder, Agent, Position in Company) I am authorized to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ (titulaire enregistré, représentant, poste occupé dans la compagnie) je suis autorisé à faire cette attestation.

Signature	Date
M. Luba Vcislo	April 26, 1996

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre

Schedule "A"

Work Report # For Applying Reserve	DDH	Claim Number	Lease #	Parcel #	Length of Hole (m)	Claim Area (Ha)	Value of Assessment Done on Claim	Value Applied To This Claim	Value Assigned from This Claim	Reserve: Work To Be Claimed At A Future Date
	721	508459	103894	870	606.50	15.23	($39,262x.5)$19,631	$0	$11,423	$8,208
	785	529840	104823	939	161.00	19.47	$10,428	$0	$10,428	$0
	800	529877	106218	2151	80.00	25.67	$4,764	$0	$4,764	$0
	806\7	529875	106238	2171	68.20/80.00	18.66	$9,265	$0	$9,265	$0
	813\9	529845	104829	945	101.00/80.00	12.72	$12,102	$0	$9,540	$2,562
	815	529856	104830	946	80.00	25.41	$5,485	$0	$5,485	$0
	822\3	529844	104824	940	83.50/80.00	11.85	#9396 ~~$9,005~~	$0	$8,888	$508
	826	529843	106207	2140	92.00	6.17	$5,576	$0	$4,628	$948
	832	369749	103849	836	92.00	27.27	$5,434	$0	$5,434	$0
	850	449150	103779	759	695.80	18.12	$50,767	$0	$13,590	$37,177
	865\870	529839	104825	941	122.00/119.00	18.15	$19,464	$0	$13,613	$5,851
	895	529871	104837	953	141.73	13.60	$11,238	$0	$10,200	$1,038
	924\927	369766	103846	829	73.30/104.00	13.34	$11,010	$0	$10,005	$1,005
	933\934	529826	104826	942	158.00/74.73	18.38	$17,382	$0	$13,785	$3,597
	945	529827	104827	943	198.00	18.10	$13,962	$0	$13,575	$387
	957\961	369746	103848	831	147.00/107.00	11.23	$16,322	$0	$8,423	$7,899
	968	369767	103847	830	155.09	14.75	$10,039	$0	$10,039	$0
	969	529846	104832	948	182.00	8.69	$12,498	$0	$6,518	$5,980
	801	529870	104836	952	200.00	15.13	#11993 ~~$[illegible]~~	$0	#11314 ~~$[illegible]~~	$679
		~~26~~ 19					$256,756	$0	$180,917	~~$76,638~~
		Total Number Of Claims					Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

#75839 MLL

See Schedule "B" For Distribution Of Assignable Funds

All : 29

SCHEDULE "B"
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	Pa 529385	1	0.00	1200.00	0.00	0.00
	Pa 529386	1	0.00	1200.00	0.00	0.00
	Pa 529387	1	0.00	1200.00	0.00	0.00
	Pa 529388	1	0.00	1200.00	0.00	0.00
	Pa 529389	1	0.00	1200.00	0.00	0.00
	Pa 529390	1	0.00	1200.00	0.00	0.00
	Pa 529391	1	0.00	1200.00	0.00	0.00
	Pa 529392	1	0.00	1200.00	0.00	0.00
	Pa 529393	1	0.00	1200.00	0.00	0.00
	Pa 529394	1	0.00	1200.00	0.00	0.00
	Pa 529395	1	0.00	1200.00	0.00	0.00
	Pa 529396	1	0.00	1200.00	0.00	0.00
	Pa 529406	1	0.00	1200.00	0.00	0.00
	Pa 529407	1	0.00	1200.00	0.00	0.00
	Pa 529408	1	0.00	1200.00	0.00	0.00
	Pa 529409	1	0.00	1200.00	0.00	0.00
	Pa 529410	1	0.00	1200.00	0.00	0.00
	Pa 529411	1	0.00	1200.00	0.00	0.00
	Pa 529412	1	0.00	1200.00	0.00	0.00
	Pa 529425	1	0.00	1200.00	0.00	0.00
	Pa 529426	1	0.00	1200.00	0.00	0.00
	Pa 529427	1	0.00	1200.00	0.00	0.00
	Pa 529428	1	0.00	1200.00	0.00	0.00
	Pa 529429	1	0.00	1200.00	0.00	0.00
	Pa 529444	1	0.00	1200.00	0.00	0.00
	Pa 529445	1	0.00	1200.00	0.00	0.00
	Pa 529446	1	0.00	1200.00	0.00	0.00
	Pa 529447	1	0.00	1200.00	0.00	0.00
	Pa 529448	1	0.00	1200.00	0.00	0.00
	Pa 529449	1	0.00	1200.00	0.00	0.00
	Pa 529464	1	0.00	1200.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve		CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	Pa	529465	1	0.00	1200.00	0.00	0.00
	Pa	529466	1	0.00	1200.00	0.00	0.00
	Pa	529467	1	0.00	1200.00	0.00	0.00
	Pa	529468	1	0.00	1200.00	0.00	0.00
	Pa	529469	1	0.00	1200.00	0.00	0.00
	Pa	529470	1	0.00	1200.00	0.00	0.00
	Pa	529471	1	0.00	1200.00	0.00	0.00
	Pa	529479	1	0.00	1200.00	0.00	0.00
	Pa	529480	1	0.00	1200.00	0.00	0.00
	Pa	529481	1	0.00	1200.00	0.00	0.00
	Pa	529482	1	0.00	1200.00	0.00	0.00
	Pa	529483	1	0.00	1200.00	0.00	0.00
	Pa	529484	1	0.00	1200.00	0.00	0.00
	Pa	529485	1	0.00	1200.00	0.00	0.00
	Pa	529486	1	0.00	711.00	0.00	0.00
	Pa	529488	1	0.00	800.00	0.00	0.00
	Pa	529489	1	0.00	800.00	0.00	0.00
	Pa	529490	1	0.00	800.00	0.00	0.00
	Pa	529491	1	0.00	800.00	0.00	0.00
	Pa	529492	1	0.00	800.00	0.00	0.00
	Pa	529508	1	0.00	800.00	0.00	0.00
	Pa	529509	1	0.00	800.00	0.00	0.00
	Pa	529510	1	0.00	800.00	0.00	0.00
	Pa	529511	1	0.00	800.00	0.00	0.00
	Pa	529514	1	0.00	800.00	0.00	0.00
	Pa	529515	1	0.00	800.00	0.00	0.00
	Pa	529517	1	0.00	800.00	0.00	0.00
	Pa	529518	1	0.00	800.00	0.00	0.00
	Pa	529521	1	0.00	800.00	0.00	0.00
	Pa	529522	1	0.00	800.00	0.00	0.00
	Pa	529525	1	0.00	800.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	Pa 529526	1	0.00	800.00	0.00	0.00
	Pa 529529	1	0.00	800.00	0.00	0.00
	Pa 529530	1	0.00	800.00	0.00	0.00
	Pa 529533	1	0.00	800.00	0.00	0.00
	Pa 529534	1	0.00	800.00	0.00	0.00
	Pa 529537	1	0.00	800.00	0.00	0.00
	Pa 529538	1	0.00	800.00	0.00	0.00
	Pa 529541	1	0.00	800.00	0.00	0.00
	Pa 529542	1	0.00	800.00	0.00	0.00
	Pa 529545	1	0.00	800.00	0.00	0.00
	Pa 529547	1	0.00	800.00	0.00	0.00
	Pa 529548	1	0.00	800.00	0.00	0.00
	Pa 529551	1	0.00	800.00	0.00	0.00
	Pa 529552	1	0.00	800.00	0.00	0.00
	Pa 529553	1	0.00	800.00	0.00	0.00
	Pa 529554	1	0.00	800.00	0.00	0.00
	Pa 529555	1	0.00	800.00	0.00	0.00
	Pa 529556	1	0.00	800.00	0.00	0.00
	Pa 529557	1	0.00	800.00	0.00	0.00
	Pa 529558	1	0.00	800.00	0.00	0.00
	Pa 529559	1	0.00	800.00	0.00	0.00
	Pa 529560	1	0.00	800.00	0.00	0.00
	Pa 529561	1	0.00	800.00	0.00	0.00
	Pa 529566	1	0.00	800.00	0.00	0.00
	Pa 529567	1	0.00	800.00	0.00	0.00
	Pa 529568	1	0.00	800.00	0.00	0.00
	Pa 529569	1	0.00	800.00	0.00	0.00
	Pa 529570	1	0.00	800.00	0.00	0.00
	Pa 529571	1	0.00	800.00	0.00	0.00
	Pa 529572	1	0.00	800.00	0.00	0.00
	Pa 529573	1	0.00	800.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve		CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	Pa	529574	1	0.00	800.00	0.00	0.00
	Pa	529580	1	0.00	800.00	0.00	0.00
	Pa	529581	1	0.00	800.00	0.00	0.00
	Pa	529592	1	0.00	800.00	0.00	0.00
	Pa	529593	1	0.00	800.00	0.00	0.00
	Pa	529604	1	0.00	800.00	0.00	0.00
	Pa	529605	1	0.00	800.00	0.00	0.00
	Pa	529616	1	0.00	800.00	0.00	0.00
	Pa	529617	1	0.00	800.00	0.00	0.00
	Pa	529628	1	0.00	800.00	0.00	0.00
	Pa	529629	1	0.00	800.00	0.00	0.00
	Pa	529640	1	0.00	800.00	0.00	0.00
	Pa	529641	1	0.00	800.00	0.00	0.00
	Pa	529642	1	0.00	800.00	0.00	0.00
	Pa	529654	1	0.00	800.00	0.00	0.00
	Pa	529655	1	0.00	800.00	0.00	0.00
	Pa	529656	1	0.00	800.00	0.00	0.00
	Pa	529657	1	0.00	800.00	0.00	0.00
	Pa	529658	1	0.00	800.00	0.00	0.00
	Pa	529667	1	0.00	800.00	0.00	0.00
	Pa	529668	1	0.00	800.00	0.00	0.00
	Pa	529669	1	0.00	800.00	0.00	0.00
	Pa	529670	1	0.00	800.00	0.00	0.00
	Pa	529671	1	0.00	800.00	0.00	0.00
	Pa	529672	1	0.00	800.00	0.00	0.00
	Pa	529673	1	0.00	800.00	0.00	0.00
	Pa	529675	1	0.00	800.00	0.00	0.00
	Pa	529676	1	0.00	800.00	0.00	0.00
	Pa	529677	1	0.00	800.00	0.00	0.00
	Pa	529684	1	0.00	800.00	0.00	0.00
	Pa	529685	1	0.00	800.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve		CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	Pa	529686	1	0.00	800.00	0.00	0.00
	Pa	529687	1	0.00	800.00	0.00	0.00
	Pa	529688	1	0.00	800.00	0.00	0.00
	Pa	529689	1	0.00	800.00	0.00	0.00
	Pa	529691	1	0.00	800.00	0.00	0.00
	Pa	529692	1	0.00	800.00	0.00	0.00
	Pa	529693	1	0.00	800.00	0.00	0.00
	Pa	529694	1	0.00	800.00	0.00	0.00
	Pa	529695	1	0.00	800.00	0.00	0.00
	Pa	529696	1	0.00	800.00	0.00	0.00
	Pa	529699	1	0.00	800.00	0.00	0.00
	Pa	529700	1	0.00	800.00	0.00	0.00
	Pa	529728	1	0.00	800.00	0.00	0.00
	Pa	529729	1	0.00	800.00	0.00	0.00
	Pa	529730	1	0.00	800.00	0.00	0.00
	Pa	529731	1	0.00	800.00	0.00	0.00
	Pa	529736	1	0.00	800.00	0.00	0.00
	Pa	529737	1	0.00	800.00	0.00	0.00
	Pa	529738	1	0.00	800.00	0.00	0.00
	Pa	529739	1	0.00	800.00	0.00	0.00
	Pa	529746	1	0.00	800.00	0.00	0.00
	Pa	529747	1	0.00	800.00	0.00	0.00
	Pa	529748	1	0.00	800.00	0.00	0.00
	Pa	529749	1	0.00	800.00	0.00	0.00
	Pa	529758	1	0.00	800.00	0.00	0.00
	Pa	529759	1	0.00	800.00	0.00	0.00
	Pa	529760	1	0.00	800.00	0.00	0.00
	Pa	529761	1	0.00	800.00	0.00	0.00
	Pa	529772	1	0.00	800.00	0.00	0.00
	Pa	529773	1	0.00	800.00	0.00	0.00
	Pa	529774	1	0.00	800.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve		CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	Pa	529775	1	0.00	800.00	0.00	0.00
	Pa	529781	1	0.00	800.00	0.00	0.00
	Pa	529782	1	0.00	800.00	0.00	0.00
	Pa	529791	1	0.00	800.00	0.00	0.00
	Pa	529792	1	0.00	800.00	0.00	0.00
	Pa	529793	1	0.00	800.00	0.00	0.00
	Pa	529794	1	0.00	800.00	0.00	0.00
	Pa	529807	1	0.00	800.00	0.00	0.00
	Pa	529808	1	0.00	800.00	0.00	0.00
	Pa	529809	1	0.00	800.00	0.00	0.00
	Pa	529810	1	0.00	800.00	0.00	0.00
	Pa	529819	1	0.00	800.00	0.00	0.00
	Pa	529820	1	0.00	800.00	0.00	0.00
	Pa	529821	1	0.00	800.00	0.00	0.00
	Pa	529916	1	0.00	800.00	0.00	0.00
	Pa	529917	1	0.00	800.00	0.00	0.00
	Pa	529918	1	0.00	800.00	0.00	0.00
	Pa	529919	1	0.00	800.00	0.00	0.00
	Pa	529920	1	0.00	800.00	0.00	0.00
	Pa	529921	1	0.00	800.00	0.00	0.00
	Pa	529922	1	0.00	800.00	0.00	0.00
	Pa	529923	1	0.00	800.00	0.00	0.00
	Pa	529924	1	0.00	800.00	0.00	0.00
	Pa	529925	1	0.00	800.00	0.00	0.00
	Pa	599163	1	0.00	400.00	0.00	0.00
	Pa	599164	1	0.00	400.00	0.00	0.00
	Pa	599168	1	0.00	400.00	0.00	0.00
	Pa	599171	1	0.00	400.00	0.00	0.00
	Pa	599172	1	0.00	400.00	0.00	0.00
	Pa	599175	1	0.00	400.00	0.00	0.00
	Pa	599176	1	0.00	400.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

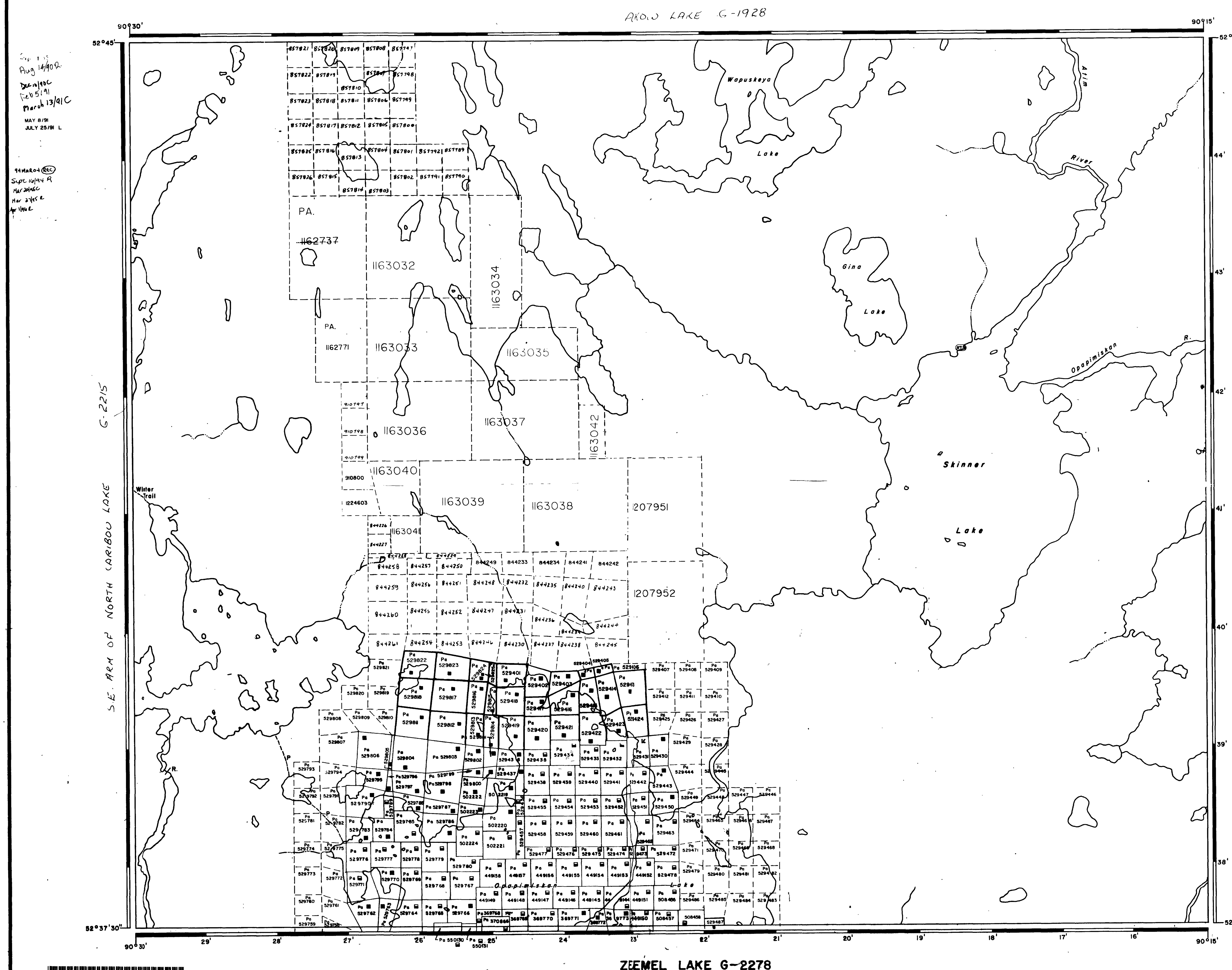
Work Report Number for Applying Reserve	CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	Pa 599179	1	0.00	400.00	0.00	0.00
	Pa 599180	1	0.00	400.00	0.00	0.00
	Pa 850781	1	0.00	400.00	0.00	0.00
	Pa 850782	1	0.00	400.00	0.00	0.00
	Pa 850783	1	0.00	400.00	0.00	0.00
	Pa 851194	1	0.00	400.00	0.00	0.00
	Pa 851195	1	0.00	400.00	0.00	0.00
	Pa 851196	1	0.00	400.00	0.00	0.00
	Pa 851197	1	0.00	400.00	0.00	0.00
	Pa 851198	1	0.00	400.00	0.00	0.00
	Pa 851199	1	0.00	400.00	0.00	0.00
	Pa 851200	1	0.00	400.00	0.00	0.00
	Pa 851201	1	0.00	400.00	0.00	0.00
	Pa 851202	1	0.00	400.00	0.00	0.00
	Pa 851203	1	0.00	400.00	0.00	0.00
	Pa 851204	1	0.00	400.00	0.00	0.00
	Pa 851205	1	0.00	400.00	0.00	0.00
	Pa 851206	1	0.00	400.00	0.00	0.00
	Pa 851207	1	0.00	400.00	0.00	0.00
	Pa 851208	1	0.00	400.00	0.00	0.00
	Pa 851209	1	0.00	400.00	0.00	0.00
	Pa 851210	1	0.00	400.00	0.00	0.00
	Pa 851211	1	0.00	400.00	0.00	0.00
	Pa 851212	1	0.00	400.00	0.00	0.00
	Pa 851213	1	0.00	400.00	0.00	0.00
	Pa 851214	1	0.00	400.00	0.00	0.00
	Pa 851215	1	0.00	400.00	0.00	0.00
	Pa 851216	1	0.00	400.00	0.00	0.00
	Pa 851217	1	0.00	400.00	0.00	0.00
	Pa 851218	1	0.00	400.00	0.00	0.00
	Pa 851219	1	0.00	400.00	0.00	0.00

SCHEDULE
REPORT OF WORK CONDUCTED
AFTER RECORDING CLAIM

Work Report Number for Applying Reserve		CLAIM NUMBER	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	Pa	851220	1	0.00	400.00	0.00	0.00
	Pa	851221	1	0.00	400.00	0.00	0.00
	Pa	851222	1	0.00	400.00	0.00	0.00
	Pa	851223	1	0.00	400.00	0.00	0.00
	Pa	851224	1	0.00	400.00	0.00	0.00
	Pa	851225	1	0.00	400.00	0.00	0.00
	Pa	851226	1	0.00	400.00	0.00	0.00
	Pa	851227	1	0.00	400.00	0.00	0.00
	Pa	851228	1	0.00	400.00	0.00	0.00
	Pa	1173215	1	0.00	400.00	0.00	0.00
	Pa	1173216	1	0.00	400.00	0.00	0.00
	Pa	1173217	1	0.00	206.00	0.00	0.00
*** Total ***				0.00	180917.00	0.00	0.00

MLV

229 claims/units (applied)
19 claims (performed)
248



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON

96 MAY 10 P2:30
MINING RECORDER PATRICIA MINING DIVISION

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

AREA IN WINDIGO TRIBAL COUNCIL PLANNING BOARD FOR DETAILS CALL 737-1585

LEGEND

HIGHWAY AND ROUTE No.
OTHER ROADS
TRAILS
SURVEYED LINES:
TOWNSHIPS, BASE LINES, ETC.
LOTS, MINING CLAIMS, PARCELS, ETC.
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
REMOTE TOURIST SET-UP

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	⊖
" , MINING RIGHTS ONLY	⊖
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⊟
" , MINING RIGHTS ONLY	⊟
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊛
CANCELLED	⊛
SAND & GRAVEL	⊛

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

AREA

SKINNER LAKE

M.N.R. ADMINISTRATIVE DISTRICT
SIOUX LOOKOUT
MINING DIVISION
PATRICIA
LAND TITLES / REGISTRY DIVISION
KENORA / PATRICIA PORTION

Ministry of Natural Resources Ontario
Land Management Branch

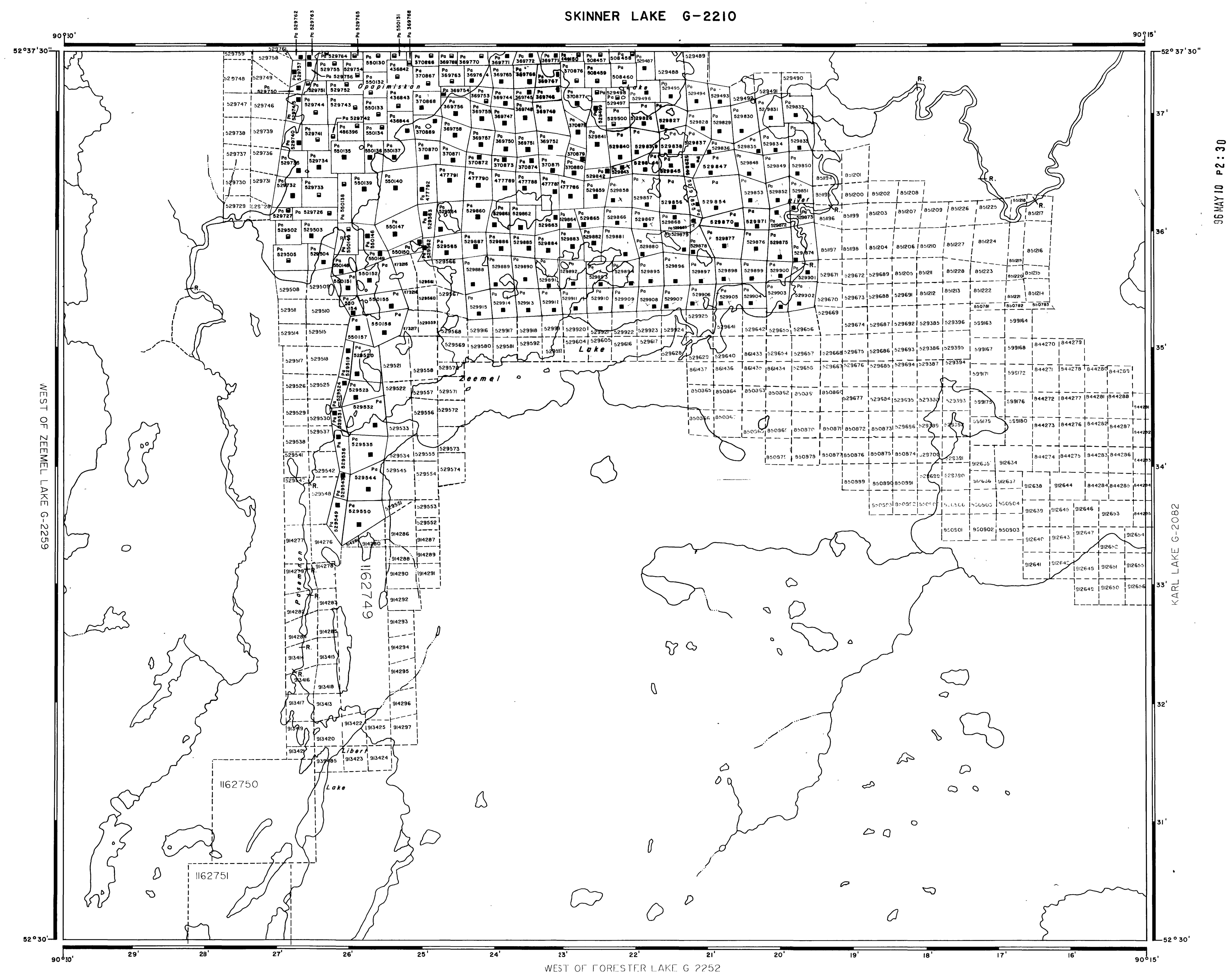
Date JANUARY, 1986

Number G-2210

52698

53B09NW0029 W9630-00029 SKINNER LAKE

200



APRIL 29 1996

REFERENCES

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY

S.R.O. – SURFACE RIGHTS ONLY

M.+ S. – MINING AND SURFACE RIGHTS

Description	Order No.	Date	Disposition	File

AREA IN WINDIGO TRIBAL COUNCIL PLANNING BOARD FOR DETAILS CALL 737-1585

LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- 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

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◓
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	⬒
" , MINING RIGHTS ONLY	⬓
LICENCE OF OCCUPATION	▼
ORDER IN COUNCIL	OC
RESERVATION	⊙
CANCELLED	⊗
SAND & GRAVEL	⊙

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

AREA

ZEEMEL LAKE

M.N.R. ADMINISTRATIVE DISTRICT

SIOUX LOOKOUT

MINING DIVISION

PATRICIA

LAND TITLES / REGISTRY DIVISION

KENORA / PATRICIA PORTION

Ministry of Natural Resources Ontario — Land Management Branch

Date JANUARY, 1983

Number G-2278

525902

53B09NW0029 W9630-00029 SKINNER LAKE

210

PLACER DOME CANADA LIMITED

1996 Assessment Drill Hole Location

Date April 23,1996	dwg by lam
Scale 1:5000	dwg 1996hole

Mine Grid North

10500N

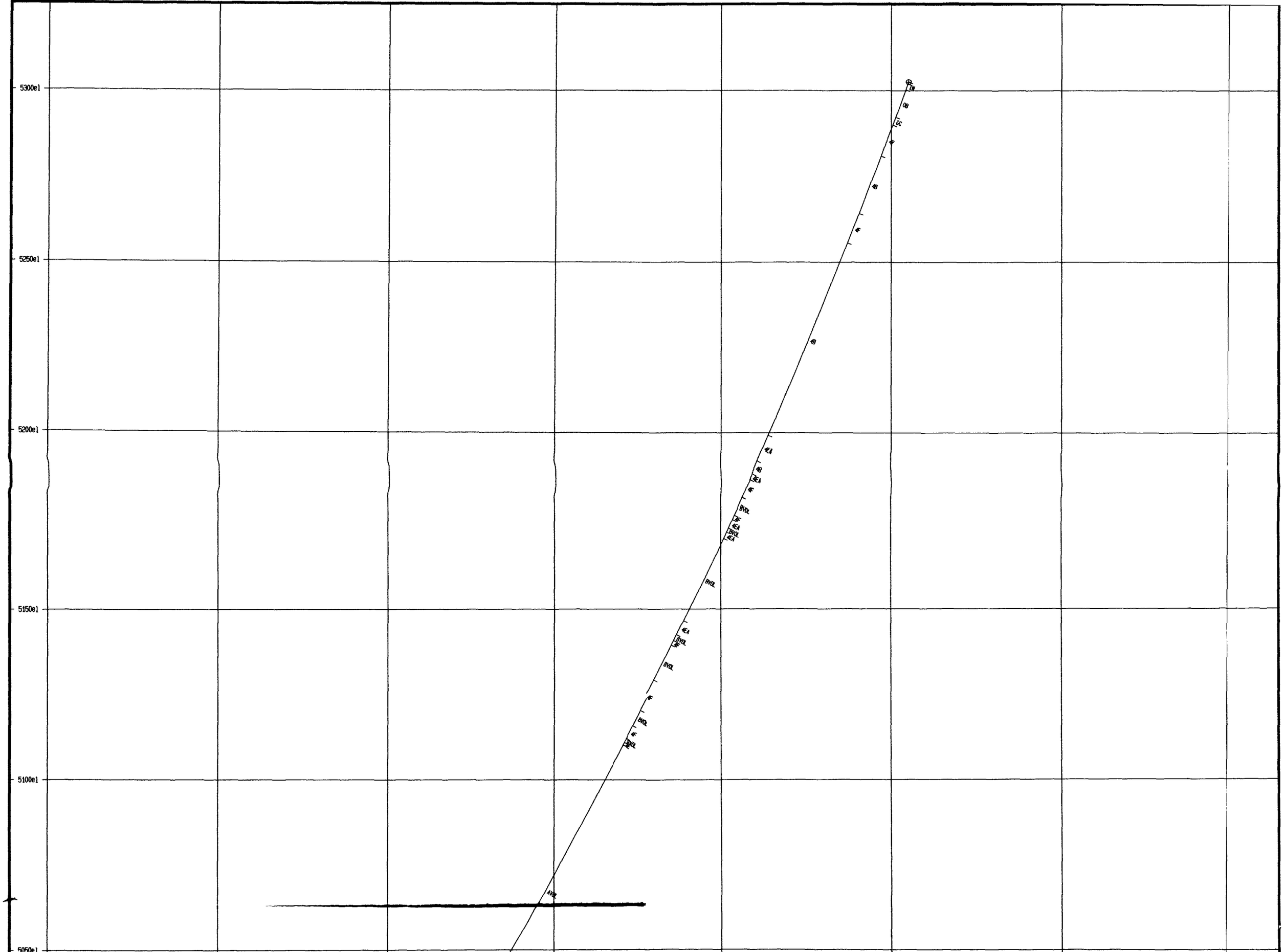
10+00S

14+00S

506-925
506-921
506-923
506-896
506-893
506-881
506-837
506-867
506-836
506-927
506-924
506-926
506-835
506-928
506-968
506-967
506-850
506-834
506-961
506-957
506-833
506-832
506-831
506-830
506-829
506-828
506-827
506-790
506-791
506-792
506-788
506-787
506-786
506-789
506-785
506-826
506-825
506-824
506-823
506-822
506-821
506-820
506-819
506-818
506-817
506-816
506-815
506-814
506-813
506-812
506-811
506-810
506-809
506-808
506-807
506-806
506-805
506-804
506-803
506-802
506-801
506-800
506-799
506-798
506-797
506-796
506-795
506-794
506-793
506-784
506-783
506-782
506-781
506-780
506-903
506-918
506-911
506-906
506-920
506-915
506-919
506-913
506-909
506-922
506-917
506-907
506-878
506-880
506-885
506-887
506-889
506-894
506-891
506-897
506-900
506-902
506-892
506-890
506-886
506-884
506-999
506-879
506-1000
506-883
506-877
506-872
506-876
506-866
506-862
506-868
506-865
506-853
506-858
506-854
506-933
506-932
506-934
506-847
506-870
506-865
506-863
506-843
506-840
506-845
506-841
506-947
506-838
506-839
506-875
506-874
506-871
506-869
506-916
506-914
506-910
506-905
506-908
506-912
506-904
506-901
506-898
506-895

LAKE
POND
Creek
ZEEMEL
(UNSURVEYED)
EAST
(UNSURVEYED)
pond

220



53B09NW0029 W9630-00029 SKINNER LAKE

230

Kamloops Exploration Office
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

	DATE: 03/26/96	TIME: 11:59:59
1		
2		
3		
4		
5		

PLACER DOME CANADA LIMITED

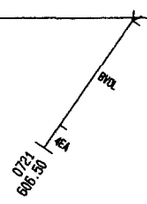
Section 10900N

Musselwhite

Hole 0721

SCALE (HORIZONTAL) 1:1000 SCALE (VERTICAL) 1:1000

5100el
5050el
5000el
4950el
4900el
4850el
4800el
4750el
4700el



8650E
8700E
8750E
8800E
8850E
8900E
8950E
9000E

53B09NW0029 W9630-00029 SKINNER LAKE

240

Kamloops Exploration Office
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

	DATE: 03/26/96	TIME: 14:40:40
1		
2		
3		
4		
5		

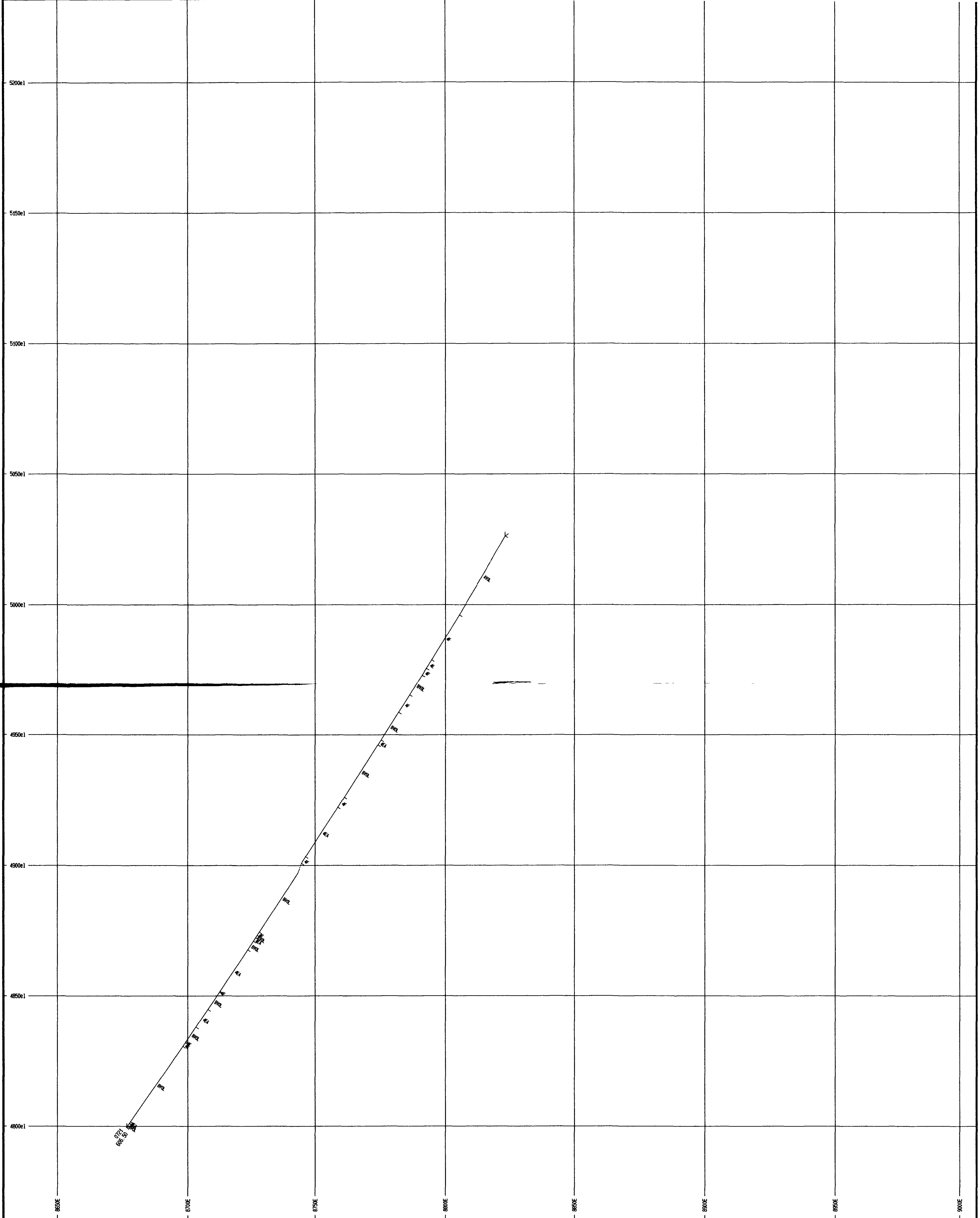
PLACER DOME CANADA LIMITED

Section 10800N

Musselwhite

Hole 0721

SCALE (HORIZONTAL) 1:1000 SCALE (VERTICAL) 1:1000



53B09NW0029 W9630-00029 SKINNER LAKE

250

Kamloops Exploration Office
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

	DATE: 03/26/96	TIME: 12:00:55
1		
2		
3		
4		
5		

PLACER DOME CANADA LIMITED

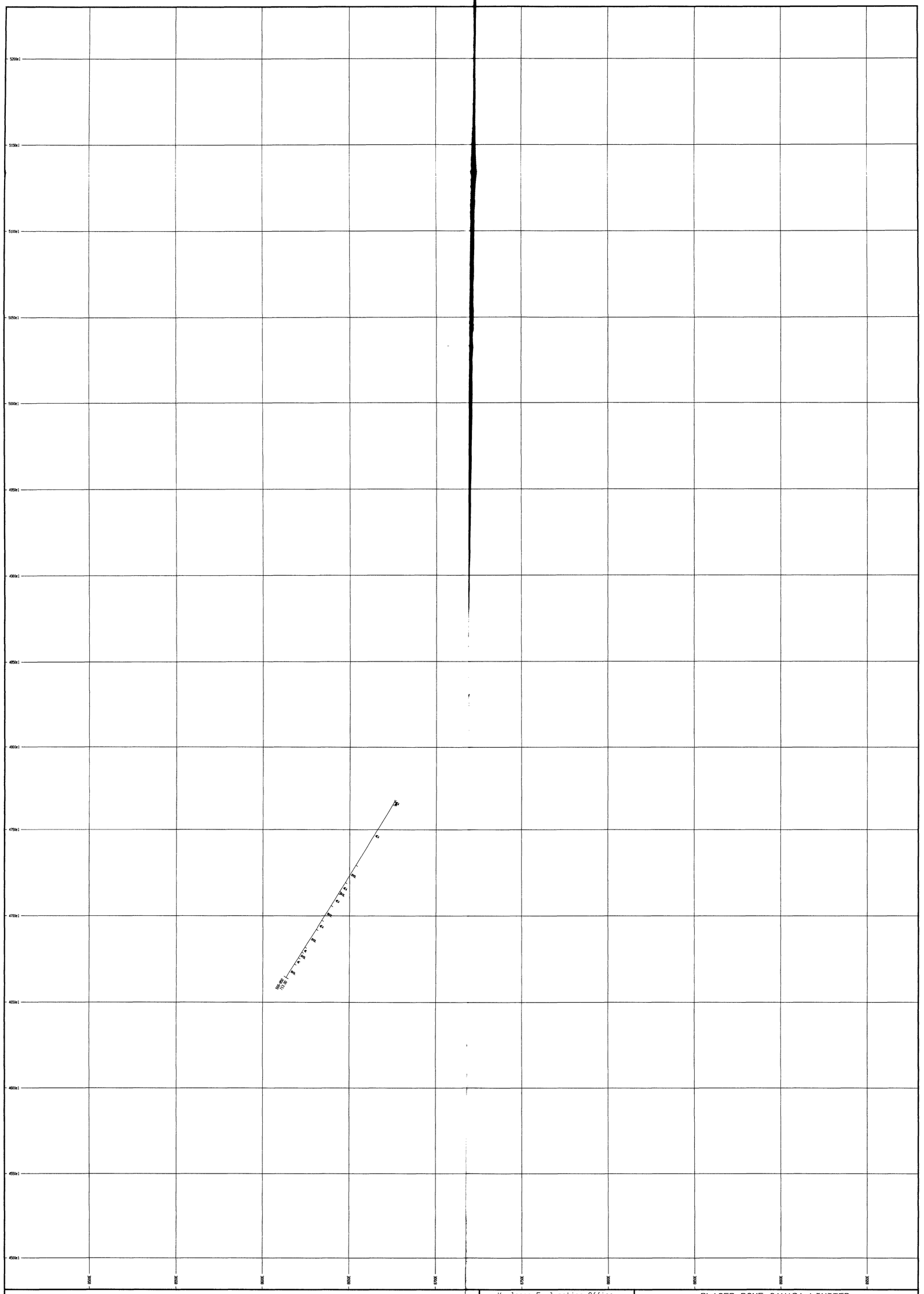
Section 10850N

Musselwhite

Hole 0721

SCALE (HORIZONTAL) 1:1000 SCALE (VERTICAL) 1:1000

Software by GEMCOM Services Inc.



Kamloops Exploration Office
1440 Hugh Allan Drive
Kamloops, BC
V1S 1L8

	DATE: 03/26/96	TIME: 10:58:01
1		
2		
3		
4		
5		

PLACER DOME CANADA LIMITED

Section 11350N

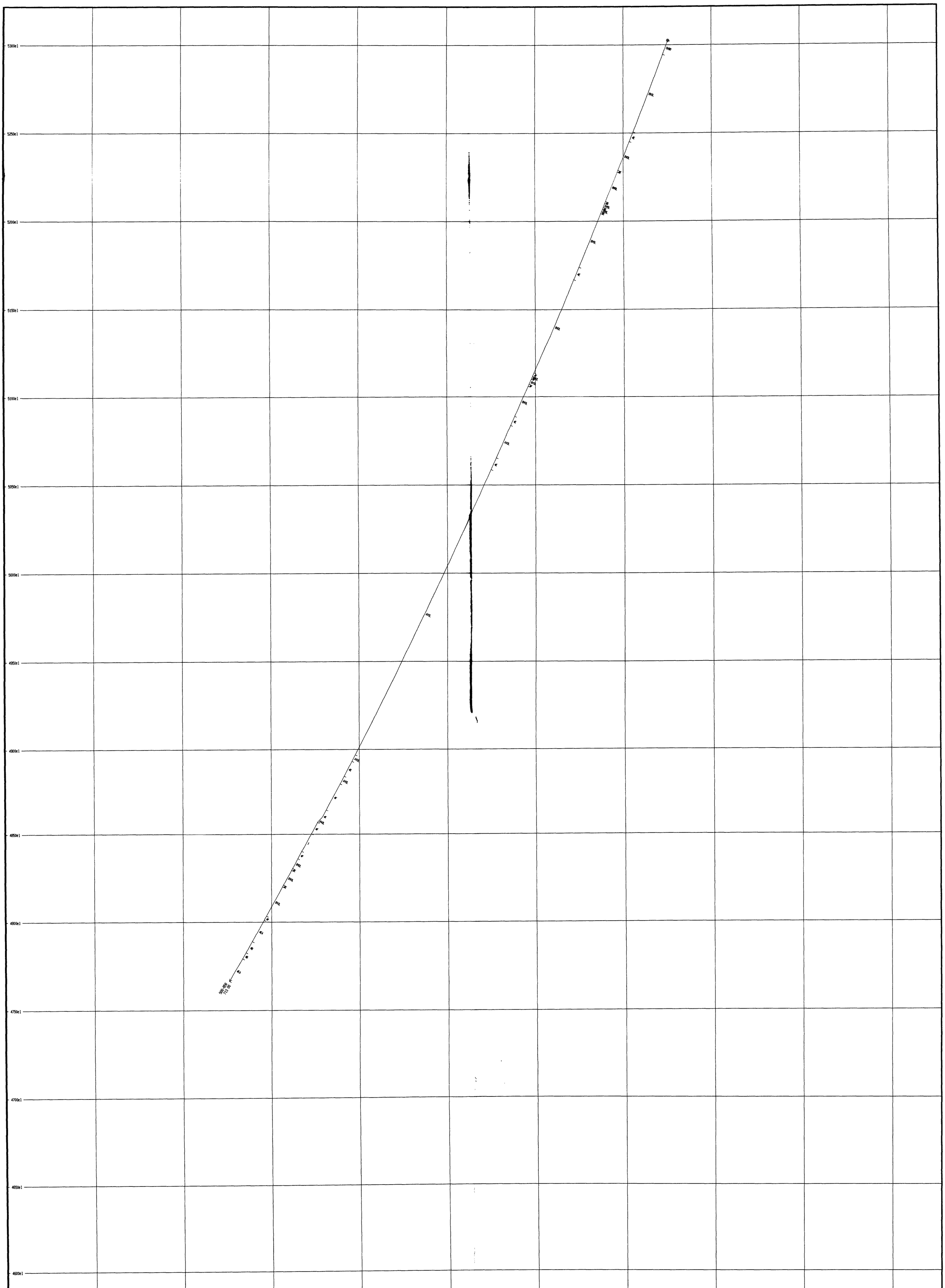
Musselwhite

Hole 506-850

SCALE (HORIZONTAL) 1:1000 SCALE (VERTICAL) 1:1000

Software by GEMCOM Services Inc.

53B09NW0029 WG630-00029 SKINNER LAKE



Kamloops Exploration Office 1440 Hugh Allan Drive Kamloops, BC V1S 1L8		
	DATE: 03/26/96	TIME: 10:56:25
1		
2		
3		
4		
5		

PLACER DOME CANADA LIMITED

Section 11400N

Musselwhite

Hole 506-850

SCALE (HORIZONTAL) 1:1000 SCALE (VERTICAL) 1:1000

Software by GEMCOM Services Inc.