DIAMOND DRILLING

TOWNSHIP: HARKER

REPORT NO: 67

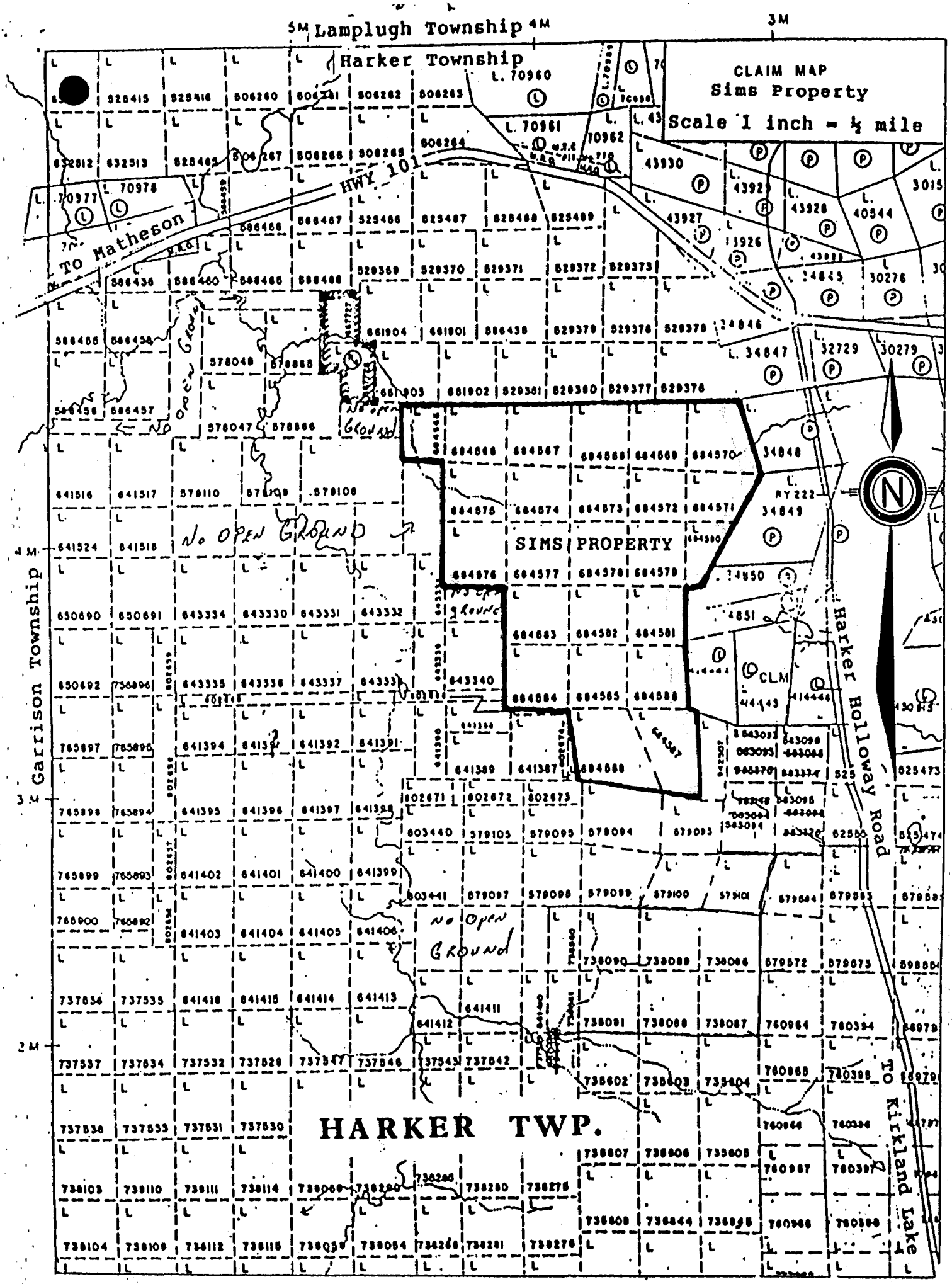
WORK PERFORMED FOR: WILLIAM SIMS

RECORDED HOLDER: SAME AS ABOVE [x]

: OTHER [ ]

CLAIM NO.	HOLE NO.	FOOTAGE	DATE	NOTE
L684578	MC.88-469	405.7 M	SEPT-NOV/88	(1)
L684568	MC.88-470	249.9 M	OCT/88	(1)
L684575	MC.88-471	151.5 M	OCT/88	(1)
	MC.88-472	150.9 M	OCT/88	(1)
L684579	MC.88-475	166.4 M	OCT/88	(1)
L684565	MC.88-476	222.5 M	OCT/88	(1)
		1346.9		

NOTES: (1) #W9180.05113, FILED MARCH/92


Lamplugh Township
Harker Township
5M
4M
3M
CLAIM MAP
Sims Property
Scale 1 inch = ½ mile
HWY 101
To Matheson
SIMS PROPERTY
No OPEN GROUND
Harker Holloway Road
Garrison Township
HARKER TWP.
To Kirkland Lake
N

AMERICAN BARRICK RESOURCES CORPORATION

DIAMOND DRILL RECORD

Property: SIMS
Township: HARKER
Claim #: L684568
NTS: 320/5,12

Hole #: MC.88-470

Survey Co-ords: 3255.0 11997.3
Cut-Grid Co-ords: L9+25W 8+00N
Section: L9+25W
Elevation: 5000.0
Measurement: Metric

Date Logged: OCTOBER 1988
Logged by: K. Kryklywy
Signature:

Azimuth: 315.0
Dip: -45.0
Length: 249.9

Contractor: PHILIPPON
Core Size: BQ
Date Started: October 1, 1988
Date Completed: October 5, 1988

Core Stored At: HOLT McDERMOTT MINE
Comments: Casing left in hole.Elevation is estimated.

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
45.72		-42.5	137.16		-43.0	228.60		-41.5
91.44		-44.5	182.88		-42.0	249.94		-41.0

----------Log Summary----------

.00 35.97 CASING.

35.97 64.55 HIGH MAG BASALT.

64.55 74.36 SYENITE.

74.36 76.62 BASALT.

76.62 94.15 20% SILICIFIED - MAG.

94.15 249.94 BASALT.

249.94 END OF HOLE.

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
.00	35.97	CASING							
35.97	64.55	HIGH MAG BASALT							
			42897	60.00	61.00	1.00	1-2	.010	.01
			42898	61.00	62.00	1.00	1-2	.000	nil
			42899	62.00	63.00	1.00	1-2	.000	nil
			42900	63.00	64.55	1.55	1-2	.000	nil
		35.97 64.55 Fine to medium grained massive flow. Dark green, fine to medium grained, weakly to moderately magnetic, weakly to moderately fractured with calcite, hematite, or quartz lining of fractures. Non-calcitic. Minor calcite or epidote veining. Trace to 1% finely disseminated or stringers of pyrite. Minor finely disseminated patches of leucoxene.							
		55.94 Flow contact at 75 degrees to the core axis. Medium grained above contact, fine grained below contact.							
		60.00 64.55 1 to 2% pyrite - fracture lining and finely disseminated.							
		64.55 Lower contact at 60 degrees to the core axis.							
64.55	74.36	SYENITE							
			42901	64.55	66.00	1.45	1-2	.014	.01
			42902	66.00	67.00	1.00	1-3	.000	nil
		Dark red to pink - red, very fine grained, non-magnetic, non-calcitic, moderately fractured. Fine calcite, epidote or chlorite stringers throughout. 1 to 2% finely disseminated or stringers of pyrite. Syenite becomes more green coloured towards base.	42903	67.00	68.00	1.00	2-3	.010	.01
			42904	68.00	69.00	1.00	1-2	.010	.01
			42905	69.00	70.00	1.00	1-2	.000	nil
			42906	73.36	74.36	1.00	2	.000	nil
		66.50 68.00 Highly fractured with calcite - chlorite or quartz lining of fractures. 2 to 3% finely disseminated pyrite.							
		74.36 Lower contact not well defined.							
74.36	76.62	BASALT							
			42907	74.36	75.00	.64	1-2	.006	.01
			42908	75.00	76.00	1.00	1-2	.000	nil
		74.36 76.62 Fine grained massive flow. Dark green, moderately fractured with fine hairline	42909	76.00	76.62	.62	1-2	.000	nil

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		calcite veining increasing down section. 1 to 2% finely disseminated or patches of pyrite.							
76.62	94.15	20% SILICIFIED - MAG							
		Dark green, fine grained, weakly to moderately magnetic, massive basalt with local highly fractured to finely brecciated grey, silicified, calcitic patches from 1 cm to 30 cm wide. 1 to 4% finely disseminated to patches of pyrite throughout. Some of the brecciated zones resemble flow breccia with chilled, epidotized fragments. Locally foliated or sheared at 45 to 75 degrees to the core axis in calcitic, silicified, brecciated bands. Local brittle hairline fracturing which is calcite lined. Patchy epidote alteration or lining of fractures. Local red hematite.	42910	76.62	78.00	1.38	1-4	.000	nil
			42911	78.00	79.00	1.00	1-4	.000	nil
			42912	79.00	80.00	1.00	1-4	.010	.01
			42913	80.00	81.00	1.00	1-4	.000	nil
			42914	81.00	82.00	1.00	1-4	.000	nil
			42915	82.00	83.00	1.00	1-4	.010	.01
			42016	83.00	83.90	.90	1-4	.036	.04
			42017	83.90	85.00	1.10	1-4	.165	.15
			42018	85.00	86.00	1.00	1-4	.110	.11
			42019	86.00	87.00	1.00	1-4	.000	nil
			42020	87.00	88.00	1.00	1-4	.000	nil
			42021	88.00	89.00	1.00	1-4	.000	nil
			42022	89.00	90.00	1.00	1-4	.000	nil
		83.90 84.15 FAULT ZONE. Blocky, highly fractured core with chlorite - clay lining of fractures. Fracturing common at 10 degrees to the core axis. A chunk of gritty green clay was found in the rubble.	42023	90.00	91.00	1.00	1-4	.000	nil
			42024	91.00	92.00	1.00	1-4	.000	nil
			42025	92.00	93.00	1.00	1-4	.010	.01
			42026	93.00	94.15	1.15	1-4	.023	.02
94.15	249.94	BASALT							
		94.15 103.35 Fine grained massive flow. Dark green, non-magnetic moderately fractured with fine calcite veining throughout. Calcite, drusy quartz or epidote alteration common along fractures. Minor white feldspars phenocrysts up to 5 mm. Trace to 2% finely disseminated pyrite. Local sections of blocky, highly fractured core after 97.68 m.	42027	94.15	95.00	.85	TR-2	.008	.01
			42028	95.00	96.00	1.00	TR-2	.000	nil
			42029	96.00	97.00	1.00	TR-2	.000	nil
			42030	97.00	98.00	1.00	TR-2	.000	nil
			42031	98.00	99.00	1.00	TR-2	.000	nil
			42032	99.00	100.00	1.00	TR-2	.020	.02
			42033	100.00	101.00	1.00	TR-2	.040	.04
			42034	101.00	102.00	1.00	TR-2	.210	.21
			42035	102.00	103.35	1.35	TR-2	.040	.03
			42936	106.50	107.59	1.09	1-3	.000	nil
		100.40 103.35 Moderate pervasive calcitic alteration.	42937	117.46	118.46	1.00	1-2	.000	nil
		103.35 Lower contact marked by a 8 cm wide carbonate vein at 35 degrees to the core axis.	42938	118.46	119.46	1.00	1-2	.000	nil
			42939	119.46	120.25	.79	1-2	.000	nil
		103.35 117.46 Coarse grained massive flow. Dark green, non-magnetic, medium to coarse grained, homogeneous. Fine calcite or epidote veining throughout. Non-calcitic. Finely disseminated leucoxene alteration throughout. Trace to 1% finely disseminated pyrite with higher concentrations lining fractures.	42940	120.25	121.25	1.00	TR-2	.000	nil
			42941	121.25	122.25	1.00	TR-2	.000	nil
			42942	122.25	123.00	.75	2-3	.000	nil
			42943	123.00	124.00	1.00	2-3	.000	nil
			42944	124.00	125.00	1.00	2-3	.090	.09
			42945	125.00	126.00	1.00	2-3	.020	.02

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
106.50	107.59	Blocky, highly fractured core with 1 to 3% finely disseminated pyrite.							
117.46		Sheared lower contact at 35 degrees to the core axis.							
117.46	120.25	Fine grained massive flow. Dark green, fine grained, non-magnetic with fine calcite - epidote veining throughout. Well fractured with 1 to 2% pyrite fracture lining. Lower contact not well defined.							
120.25	122.25	Blocky, highly fractured core. Rock fragments are coarse grained massive flow with finely disseminated leucoxene and trace to 2% finely disseminated pyrite.							
122.25	135.08	Coarse grained massive flow. Dark green, medium to coarse grained, non-magnetic. Finely disseminated leucoxene alteration throughout. Generally trace to 1% finely disseminated pyrite with local concentrations up to 3%. Patchy calcitic alteration. Fine calcite or epidote veining throughout. Some red coloured potassic (?) alteration along fractures. Moderately to well fractured. Blocky, highly fractured core from 123.10 to 123.64. Gradational lower contact.							
132.50	133.20	Highly fractured along core axis with strong epidote - calcite alteration.							
134.50	135.08	Glomeroporphyritic feldspar grains.							
135.08	135.83	Fine grained massive flow. Finely fractured throughout. Minor glomeroporphyritic sections. 1% finely disseminated or fracture filling pyrite. Lower contact sharp at 80 degrees to the core axis.							
135.08	138.33	Coarse grained massive flow same as described above from 122.25 to 135.08. Finely disseminated leucoxene alteration throughout. Glomeroporphyritic with 10% yellow - white anhedral feldspar phenocrysts up to 1 cm. Gradational lower contact over 20 cm.							
138.33	141.86	Fine grained massive flow. Dark green, non-magnetic with fine calcite - epidote veining throughout. Becoming increasingly fractured down section. 1% finely disseminated pyrite.							
141.86	146.11	Flow top breccia. Light to dark green, fine grained angular to subangular fragments up to 5 cm in a dark green, fine grained often brecciated, epidotized or calcitic matrix. 1% finely disseminated pyrite. Some chill margins around							

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		fragments. Lower contact is gradational.							
146.11	249.94	Fine to medium grained massive flow. Dark green, non-magnetic, moderately fractured with fine epidote or calcite veining throughout. Becoming gradationally coarser grained down section. Much of coarse grained zone has an ophitic texture. Epidote, calcite, pyrite or drusy quartz commonly coating fractures. Trace to 1% pyrite throughout. Epidote alteration halos common around fractures. Local patches of fine white to light green spots down to 170.56 m. (possible amygdules).							
230.92	231.16	Veining. White, brecciated, quartz-carbonate veining. Trace pyrite.							
241.46	241.50	Aphanitic light green, fractured band with fine pyrite along fractures. Band at 60 degrees to the core axis.							
249.94		END OF HOLE.							

AMERICAN BARRICK RESOURCES CORPORATION

DIAMOND DRILL RECORD

Property: SIMS
Township: HARKER
Claim #: L684578
NTS: 32D/5,12

Hole #: MC.88-469

Survey Co-ords: 3180.5 11264.0
Cut-Grid Co-ords: 8+05W 0+65N
Section: 8+05W
Elevation: 5007.0
Measurement: Metric

Date Logged: NOVEMBER 1988
Logged by: K. Kryklywy
Signature:

Azimuth: 51.0
Dip: -44.0
Length: 405.7

Contractor: PHILIPPON
Core Size: BQ
Date Started: September 13, 1988
Date Completed: November 1, 1988

Core Stored At: HOLT McDERMOTT MINE
Comments: Casing left in hole

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
45.72		-40.0	182.88		-35.5	350.52		-34.0
91.44		-37.0	228.60		-35.5			
137.16		-35.5	269.75		-35.5			

----------Log Summary----------

398.00 399.00 1.15.

.00 36.58 OVERBURDEN.

36.58 380.47 SYENITE.

380.47 380.71 IMPERIAL FAULT PLANE.

380.71 385.71 SYENITE.

385.71 393.64 SHEAR ZONE.

393.64 405.69 HIGH MAG BASALT.

405.69 END OF HOLE.

From To ----------Description---------- Sample From To Length % Sul GW Au g/t

.00 36.58 OVERBURDEN

36.58 380.47 SYENITE

Light pink to grey, generally coarse grained (up to 1 cm) with local fine grained sections up to 1 m wide. Consists of 80% coarse anhedral feldspar grains up to 1 cm with grey, fine grained mica - feldspar patches between coarse feldspar grains. Nonmagnetic. Locally calcitic in fine grained micaceous patches. Trace pyrite with local patches up to 3% pyrite over 1 m. Weakly fractured. Local patchy or finely disseminated hematite alteration.

62.47 62.74 Basalt ?. Green to grey, fine grained with patchy epidote alteration. Contacts at 40 degrees to the core axis.

91.20 91.60 Basalt ?. Medium to apple green, very fine grained to aphanitic, local translucent patches. Contacts at 50/40 degrees to the core axis. Includes a 5 cm wide grey, fine grained silicified band.

91.97 92.23 Basalt ?. Same as described above from 91.20 to 91.60. Includes some fine pink syenitic stringers at 70 degrees to the core axis. Contacts of zone at 50/55 degrees to the core axis.

133.48 333.66 Medium green, aphanitic, glassy band with minor calcite - hematite veining. Contacts at 60/50 degrees to the core axis.

133.66 134.00 3% finely disseminated pyrite.

134.38 148.50 10 to 15% porphyritic amphibole grains up to 5 mm.

152.22 152.66 Blocky, highly fractured core with epidote - chlorite - calcite lining of fractures.

152.66 157.30 Fine grained, brick red, finely fractured. Minor fine grained, grey micaceous patches. 1-2% finely disseminated pyrite. Lower contact weakly sheared at 55 degrees to the core axis.

206.80 209.05 1-3% finely disseminated pyrite.

219.60 219.80 Slickensided fracturing at 15 and 35 degrees to the core axis. Strong chloritic

Sample	From	To	Length	% Sul	GW	Au g/t
42887	133.48	134.00	.52	1-3	.005	.01
42888	152.22	153.00	.78	1-2	.008	.01
42889	153.00	154.00	1.00	1-2	.140	.14
42890	154.00	155.00	1.00	1-2	.150	.15
42891	155.00	156.00	1.00	1-2	.260	.26
42892	156.00	157.30	1.30	1-2	.533	.41
42893	206.80	208.00	1.20	1-2	.024	.02
42894	208.00	208.05	.05	2-3	.004	.07
42895	239.70	240.70	1.00	TR	.000	nil
42896	240.70	241.70	1.00	TR	.010	.01
52001	284.50	285.00	.50	TR-2	.150	.30
52002	285.00	286.00	1.00	1-2	.310	.31
52003	286.00	287.00	1.00	5	.290	.29
52004	287.00	288.00	1.00	5	.280	.28
52005	288.00	289.00	1.00	2-4	.180	.18
52006	289.00	290.00	1.00	2-4	.140	.14
52007	290.00	291.00	1.00	2-4	.150	.15
52008	291.00	292.00	1.00	2-4	.140	.14
52009	295.93	296.53	.60	3	.090	.15
52010	324.95	325.95	1.00	2-3	.300	.30
52011	325.95	326.95	1.00	2-3	.170	.17
52012	326.95	327.62	.67	1-2	.074	.11
52013	327.62	329.00	1.38	TR-1	.138	.10
52014	329.00	330.00	1.00	1	.090	.09
52015	368.36	369.00	.64	2-4	.051	.08
52016	369.00	370.00	1.00	2-4	.060	.06
52017	370.00	371.00	1.00	2-4	.130	.13
52018	371.00	372.00	1.00	2-4	.200	.20
52019	372.00	373.00	1.00	2-4	.090	.09
52020	373.00	374.00	1.00	2-4	.060	.06
52021	374.00	375.00	1.00	2-4	.080	.08
52022	375.00	376.00	1.00	2-4	.190	.19
52023	376.00	377.00	1.00	2-4	.090	.09
52024	377.00	378.00	1.00	2-4	.070	.07
52025	378.00	379.00	1.00	2-4	.310	.31
52026	379.00	380.00	1.00	2-4	.210	.21
52027	380.00	380.47	.47	2-4	.273	.58

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		and red potassic alteration. Contacts of zone at 30/40 degrees to the core axis.							
229.56	230.89	20% black porphyritic amphibole grains up to 5 mm in a pink, fine grained felsic matrix. Possible dyke with contacts at 90/80 degrees to the core axis.							
235.02	236.89	Same as described above from 229.56 to 230.89. Contacts at 70/40 degrees to the core axis.							
239.70	241.70	Strong bright red potassic (?) alteration. Finely fractured throughout.							
241.70	251.37	20% porphyritic amphibole grains. Same as described above from 229.56 to 230.89. Contacts not well defined.							
257.70	265.04	25% black porphyritic amphibole grains up to 1 cm. Locally foliated at 35 degrees to the core axis. Contacts of zone sharp but irregular.							
284.58	285.23	Very fine grained with a bright orange - red coloured pottassic alteration. 1 to 2% finely disseminated pyrite.							
286.00	287.82	Pyritic. Same as described above from 284.58 to 285.23 but with coarser grained sections and with 5% finely disseminated and fracture filling pyrite.							
287.82	291.62	2 to 4% finely disseminated pyrite and moderate patchy bright orange - red pottassic alteration.							
291.62	291.83	Sheared at 50 degrees to the core axis.							
295.93	296.53	Pyritic. 3% finely disseminated or fracture filling pyrite.							
306.86	307.52	Pyritic. 3% fine fracture filling pyrite.							
324.95	326.90	Pyritic. 2 to 3% finely disseminated or fracture filling pyrite.							
327.62	329.00	Basalt xenolith. Grey - green, mottled, fine grained, massive, strongly calcitic. Contacts at 50 degrees to the core axis.							
353.07	353.40	Basalt xenolith at 7/60 degrees to the core axis. Same as described above from 327.62 to 329.00 m.							
357.57	366.40	1 to 2% finely disseminated pyrite. Increasing bright orange - red pottassic alteration down section and becoming increasingly fine grained.							
368.36	380.47	Becoming increasingly fine grained, more highly fractured and bright orange - red coloured down section. Brittle fracturing. 2 to 3% finely disseminated or fracture filling pyrite. Local highly brecciated zones.							
377.37	378.01	Brecciated zone. Highly brecciated and partly bleached syenite with chloritic							

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		infill between breccia fragments. Sharp contacts at 50/55 degrees to the core axis.							
	378.60 380.47	Brecciated. Becoming increasingly brecciated, brown - green coloured and calcitic towards FAULT ZONE. Chloritic infill between breccia fragments. Sharp lower contact at 25 degrees to the core axis.							
380.47	380.71	IMPERIAL FAULT PLANE	52028	380.47	380.71	.24	TR	.050	.21
		Fault gouge. Finely ground, bleached syenite fragments in a dark green chloritic matrix.							
	380.61 380.62	Dark green clay-grit seam at 45 degrees to the core axis.							
380.71	385.71	SYENITE	52029	380.71	381.71	1.00	1-2	.480	.48
			52030	381.71	382.71	1.00	1-2	.430	.43
		Bright brick red, fine grained, finely brecciated to fractured with 1 to 2% finely disseminated to fracture filling pyrite. Noncalcitic. Moderately fractured with chlorite lining of fractures.	52031	382.71	383.71	1.00	1-2	.640	.64
			52032	383.71	384.71	1.00	1-2	.980	.98
			52033	384.71	385.71	1.00	1-2	.160	.16
385.71	393.64	SHEAR ZONE	52034	385.71	386.71	1.00	1	.100	.10
			52035	386.71	387.15	.44	1	.009	.02
	385.71 388.91	Syenite. Highly brecciated, bright red coloured fine grained syenite with local chloritic shears or fine calcite veining at 30 to 40 degrees to the core axis. Generally 1% finely disseminated pyrite except from 387.15 to 387.51 and 389.23 to 389.53 -- 5 to 10% finely disseminated pyrite in finely brecciated, buff coloured sheared bands.	52036	387.15	387.51	.36	5-10	.036	.10
			52037	387.51	388.00	.49	1	.044	.09
			52038	388.00	388.91	.91	1	.073	.08
			52039	388.91	390.00	1.09	1-4	.142	.13
			52040	390.00	391.00	1.00	1-4	.900	.90
			52041	391.00	392.00	1.00	1-4	.130	.13
			52042	392.00	393.00	1.00	1-4	.180	.18
			52043	393.00	393.64	.64	1-4	.064	.10
	388.91 393.64	Basalt. Green to grey coloured, fine grained and intensely sheared with 10% narrow syenitic bands or fragments along shear plane. Shearing averages 25 to 40 degrees to the core axis. Becoming increasingly magnetic down section. Finely							

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		brecciated throughout. Weakly calcitic patches. Moderate pervasive ankeritic alteration. Minor silicified patches. 1 to 4% very finely disseminated pyrite throughout. 5% hairline carbonate veining throughout. Local yellow - brown coloured sericitized (?) patches usually have higher pyrite concentrations.							
393.64	405.69	HIGH MAG BASALT							
			52044	393.64	395.00	1.36	1	.163	.12
			52045	395.00	396.00	1.00	1	.120	.12
			52046	396.00	397.00	1.00	1	.290	.29
			52047	397.00	398.00	1.00	1	.170	.17
			52049	399.00	400.00	1.00	1	.100	.10
			52050	400.00	401.00	1.00	1	.060	.06
			52051	401.00	402.00	1.00	1	.070	.07
			52052	402.00	403.00	1.00	1	.030	.03
			52053	403.00	404.00	1.00	1	.090	.09
			52054	404.00	405.00	1.00	1	.040	.04
			52055	405.00	405.69	.69	1	.104	.15
393.64	405.69	Brecciated, fractured and sheared. Dark green to grey, fine grained, probably massive, moderately magnetic flow. Intensity of brecciation, shearing and fracturing decreases down section. Minor local silicified patches. 2 to 5% quartz-carbonate veining. Minor pink coloured sericilized (?) patches or fragments. Shearing occurs mostly over upper m of unit and is at 30 degrees to the core axis. Generally 1% finely disseminated or fracture filling pyrite with local patches of 5% pyrite over 10 cm. Minor weak calcitic alteration. Weak pervasive ankeritic alteration.							
405.69		END OF HOLE.							

AMERICAN BARRICK RESOURCES CORPORATION

DIAMOND DRILL RECORD

Property: Sims
Township: HARKER
Claim: L684575
NTS: 32D/5,12

Hole #: MC.88-471

Survey Co-ords: 2397.1 12006.9
Cut-Grid Co-ords: 17+50W 5+55N
Section: 17+50W
Elevation: 5000.0
Measurement: Metric

Date Logged: OCTOBER 1988
Logged by: K. Kryklywy
Signature: Kelly Dougnes

Azimuth: 26.5
Dip: -45.0
Length: 151.5

Contractor: PHILIPPON
Core Size: BQ
Date Started: October 7, 1988
Date Completed: October 13, 1988

Core Stored At: HOLT McDERMOTT MINE
Comments: Casing left in hole. Elevation is estimated

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
45.72		-41.5	91.44		-40.5	121.92		-40.5

----------Log Summary----------

.00 27.43 CASING.
27.43 51.30 SYENITE.
51.30 52.87 IMPERIAL FAULT PLANE.
52.87 70.35 SYENITE.
70.35 75.50 BASALT.
75.50 99.50 SYENITE.
99.50 104.08 HIGH MAG BASALT.
104.08 111.56 SYENITE.
111.56 118.46 HIGH MAG BASALT.
118.46 123.03 SYENITE.
123.03 151.49 HIGH MAG BASALT.
151.49 END OF HOLE.

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
.00	27.43	CASING							
27.43	51.30	SYENITE							
			42946	45.64	46.95	1.31	TR-1	.092	.07
			42947	46.95	47.50	.55	1	.082	.15
		Brick red, medium grained, feldspar rich with minor fine grained patches of grey micas. Moderately fractured. 1% finely disseminated pyrite throughout. Minor blocky or broken sections.	42948	47.50	47.80	.30	TR-1	.009	.03
			42949	47.80	48.80	1.00	TR-1	.080	.08
			42950	48.80	49.80	1.00	TR-1	.180	.18
			42951	49.80	50.80	1.00	TR-1	.110	.11
			42952	50.80	51.30	.50	TR-1	.020	.04
		45.64 46.95 Basalt xenolith. Grey-green, fine grained, finely brecciated and weakly foliated at average 40 to 60 degrees to the core axis. Well fractured. Trace to 1% finely disseminated pyrite. 5% fine quartz-carbonate veining. Sharp contacts at 60/55 degrees to the core axis.							
		47.50 47.80 Basalt xenolith. Same as described above from 45.64 to 46.95. Upper contact along gritty clay slip at 65 degrees to the core axis. Lower contact at 70 degrees to the core axis.							
		47.80 51.30 Fractured. Core becoming increasingly blocky, fractured and brecciated down section. Becoming more bright red coloured - pottassic alteration (?). Lower contact brecciated at 70 degrees to the core axis. 80% core recovery in this section.							
51.30	52.87	IMPERIAL FAULT PLANE							
			42953	51.30	51.93	.63	TR-1	.088	.14
			42954	51.93	52.87	.94	3-5	.470	.50
		Highly fractured to brecciated with pink to red syenite fragments and grey calcitic to micaceous to chloritic fracture filling. 2 to 5% calcite veining. 3 to 5% finely disseminated pyrite after 51.93 m.							
		51.40 51.93 Fault gouge. Fine syenite fragments in a greenish-grey chloritic to clay matrix. 4 cm wide green gritty clay seam at 70 degrees to the core axis from 51.89 to 51.93. Possible MCKENNA FAULT PLANE.							

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
52.87	70.35	SYENITE							
			42955	52.87	53.87	1.00	1	.020	.02
			42956	57.00	58.00	1.00	1-2	.020	.02
		Pink - red, fine grained, fairly well fractured to locally brecciated. Chlorite or calcite lining of fractures. 1 to 2% finely disseminated pyrite. Local blocky, highly fractured core over 50 cm. Lower contact at 70 degrees to the core axis.	42957	62.00	63.00	1.00	1-2	.020	.02
			42958	69.35	70.35	1.00	1-2	.000	nil
70.35	75.50	BASALT							
			42959	70.35	71.50	1.15	5	.000	nil
			42960	71.50	72.50	1.00	5	.060	.06
		Medium green, fine grained, finely brecciated, non-magnetic. Blocky, highly fractured core after 71.80 m. Local syenite dykes or fragments up to 10 cm wide. Patchy calcitic alteration. 5% finely disseminated pyrite down to 73.45. 1% pyrite after 73.45.	42961	72.50	73.50	1.00	5	.210	.21
			42962	73.50	74.50	1.00	1	.810	.81
			42963	74.50	75.50	1.00	1	.000	nil
		74.50 74.75 Syenite dyke at 10/20 degrees to the core axis.							
		75.50 Lower contact at 20 degrees to the core axis.							
75.50	99.50	SYENITE							
			42964	80.00	81.00	1.00	2-3	.860	.86
			42965	81.00	82.00	1.00	2-3	.320	.32
		Brick red, fine to medium grained, feldspar rich with minor grey fine grained micaceous spots or minor quartz grains. Moderately fractured. 2% quartz-carbonate veining. 1 to 3% fine fracture filling pyrite. Minor local basalt xenoliths.	42966	82.00	83.00	1.00	2-3	.300	.30
			42967	83.00	84.00	1.00	2-3	.680	.68
			42968	84.00	85.00	1.00	2-3	.320	.32
			42969	85.00	86.00	1.00	2-3	.380	.38
			42970	86.00	87.00	1.00	2-3	.440	.44
			42971	87.00	88.00	1.00	2-3	.100	.10
			42972	88.00	89.00	1.00	2-3	.110	.11
		77.15 77.47 Basalt xenolith. Grey-green, fine grained, highly brecciated. Contacts at irregular /35 degrees to the core axis.							
		91.35 92.00 Basalt xenolith. Grey-green, fine grained, finely fractured. Contacts broken.							
		97.20 97.77 Basalt xenolith. Medium green, fine grained with several syenite stringers or fragments and some calcite veining. Moderately magnetic. Contacts at 60/ broken degrees to the core axis.							
		99.50 Sharp lower contact at 60 degrees to the core axis.							
99.50	104.08	HIGH MAG BASALT							

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
			42973	99.50	101.00	1.50	1-2	.000	nil
			42974	101.00	102.00	1.00	1-2	.020	.02
		Dark green, fine grained, massive, moderately magnetic. Moderate to strong pervasive calcite alteration. 5 to 10% hairline calcite veining. 1 to 2% finely disseminated or fracture filling pyrite. Minor syenite stringers up to 5 mm wide. Moderately fractured. Sharp lower contact at 30 degrees to the core axis.	42975	102.00	103.00	1.00	1-2	.000	nil
			42976	103.00	104.80	1.80	1-2	.090	.05
104.08	111.56	SYENITE							
		Pink to red to grey coloured, fine to coarse grained. Appears to be different phases and segregations of the intrusive. Coarser grained phase has white subhedral feldspar grains with red coloured fracturing and alteration halos in a dark grey, fine grained micaceous matrix. Local amphibole grains. Syenite is moderately fractured with chlorite lining of fractures. Weak patchy calcitic alteration. Trace to 1% pyrite. Sharp lower contact at 55 degrees to the core axis.								
111.56	118.46	HIGH MAG BASALT							
			42977	111.56	112.56	1.00	TR-1	.020	.02
			42978	112.56	113.56	1.00	TR-1	.000	nil
		Mottled medium to dark green, fine grained, well deformed with 5-10% syenitic patches or stringers throughout. Locally finely brecciated to fractured. Moderately to strongly magnetic. Patchy calcitic alteration increasing down section. Local patchy epidote alteration - fracture controlled. Trace to 1% pyrite. Lower contact marked by clay slip at 35 degrees to the core axis.	42979	113.56	114.56	1.00	TR-1	.000	nil
			42980	114.56	115.56	1.00	TR-1	.000	nil
			42981	115.56	116.56	1.00	TR-1	.000	nil
			42982	116.56	117.56	1.00	TR-1	.000	nil
			42983	117.56	118.46	.90	TR-1	.000	nil
118.46	123.03	SYENITE							
			42984	118.46	120.00	1.54	TR-1	.216	.14
			42985	120.00	121.00	1.00	TR-1	.000	nil
		Same as described above from 104.08 to 111.56.	42986	121.00	122.00	1.00	TR-1	.000	nil
118.46	119.40	Blocky, highly fractured core with chlorite lining of fractures. 123.03 irregular lower contact.	42987	122.00	123.03	1.03	TR-1	.000	nil

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
123.03	151.49	HIGH MAG BASALT							
			42988	123.03	123.93	.90	1	.000	nil
			42989	123.93	124.43	.50	5-15	.000	nil
			42990	124.43	125.43	1.00	TR-1	.000	nil
	123.03	151.49 Fine grained massive flow. Dark green, moderately to strongly magnetic, finely fractured throughout. Some coarser grained sections due to proximity of syenite dykes. Numerous syenite dykes throughout up to 1.8 m wide. Syenite is same as described above from 104.08 to 111.56 with minor patchy calcitic or epidote alteration. Trace to 1% finely disseminated or fracture filling pyrite.							
	123.94	124.09 Pyritic. 15 to 20% pyrite in finely disseminated patches.							
	127.74	128.36 Syenite dyke at 70/45 degrees to the core axis.							
	131.12	131.31 Syenite dyke at 60/50 degrees to the core axis.							
	134.32	134.44 Syenite dyke at 50 degrees to the core axis							
	137.36	137.58 Syenite dyke at 70/60 degrees to the core axis.							
	138.90	140.00 Syenite dyke at 60/20 degrees to the core axis.							
	143.40	145.22 Syenite dyke at 50/60 degrees to the core axis.							
	147.27	147.42 Syenite dyke at 40/90 degrees to the core axis.							
	147.86	148.49 Syenite dyke at 40/50 degrees to the core axis.							
	150.32	150.75 Mafic intrusive at 50/40 degrees to the core axis. Dark grey, very fine grained, magnetic.							
	151.49	END OF HOLE.							

AMERICAN BARRICK RESOURCES CORPORATION

DIAMOND DRILL RECORD

Property: SIMS
Township: HARKER
Claim #: L684575
NTS: 32D/5,12

Hole #: MC.88-472

Survey Co-ords: 2472.7 11938.6
Cut-Grid Co-ords: 16+60W 5+10N
Section: 16+60W
Elevation: 5000.0
Measurement: Metric

Date Logged: OCTOBER 1988
Logged by: K. Kryklywy
Signature:

Azimuth: 23.0
Dip: -44.0
Length: 150.9

Contractor: PHILIPPON
Core Size: BQ
Date Started: October 5, 1988
Date Completed: October 12, 1988

Core Stored At: HOLT McDERMOTT MINE
Comments: Casing left in hole. Elevation is estimated.

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
45.72		-42.5	91.44		-42.5	121.92		-41.5

----------Log Summary----------

.00 33.53 CASING.

33.53 81.18 SYENITE.

81.18 83.70 IMPERIAL FAULT PLANE.

83.70 92.78 SYENITE.

92.78 98.05 30% SILICIFIED - MAG.

98.05 106.72 TRANSITIONALLY SILICIFIED ZONE.

106.72 122.45 SYENITE.

122.45 150.90 HIGH MAG BASALT.

150.90 END OF HOLE.

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
.00	33.53	CASING							
33.53	81.18	SYENITE							
			42991	68.00	69.00	1.00	TR	.000	nil
			42992	69.00	70.00	1.00	TR	.000	nil
		Brick red to orange - red, fine to medium grained. Generally white to red coloured feldspars with a dark red coloured hematitic or pottassic alteration along margins of grains or along fractures. Grey, fine grained, micaceous patches or spots between feldspar grains. Moderately fractured. Trace to 1% pyrite. Non-magnetic. Non-calcitic. Minor quartz-carbonate veining.	42993	70.00	71.00	1.00	TR	.010	.01
			42994	71.00	72.00	1.00	TR	.000	nil
			42995	72.00	73.00	1.00	TR	.670	.67
			42996	73.00	74.00	1.00	TR	.140	.14
			42997	74.00	75.00	1.00	TR	.820	.82
			42998	75.00	76.00	1.00	TR	.030	.03
			42999	76.00	77.00	1.00	TR	.000	nil
			43000	77.00	78.00	1.00	TR	.000	nil
		70.65 70.99 Basalt xenolith. Dark green, fine grained, massive. Some hematite alteration along fractures. Contacts at broken /40 degrees to the core axis. Weakly magnetic.	51001	78.00	79.00	1.00	TR	.230	.23
			51002	79.00	80.00	1.00	TR	.420	.42
			51003	80.00	81.18	1.18	TR	.177	.15
		70.99 81.18 Syenite becoming increasingly fractured, brecciated and blocky. Generally fine grained with numerous fine calcite veinlets. Strongly calcitic over lower 80 cm of unit. Commonly graphite or chlorite lining of fractures. Generally trace pyrite. Lower 25 cm of unit is bleached to a light grey - orange colour. Lower contact is not well defined and appears to be gradational into underlying unit.							
81.18	83.70	IMPERIAL FAULT PLANE							
			51004	81.18	82.00	.82	3-5	.082	.10
			51005	82.00	83.00	1.00	3-5	.080	.08
		Green, finely brecciated with 75% grey - yellow to grey to pink finely brecciated fragments. Possibly originally basalt 3 to 5% very finely disseminated pyrite throughout. Appears similar to deformation along MCKENNA FAULT PLANE to east but there is no silicification in this zone. 2% white calcite veining.	51006	83.00	83.70	.70	3-5	.000	nil
		83.25 83.26 Clay-grit seam at 60 degrees to the core axis							
		83.70 Broken lower contact.							
83.70	92.78	SYENITE							
			51007	83.70	85.00	1.30	TR	.208	.16
			51008	85.00	86.00	1.00	TR	.130	.13

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		Orange to red, fine to very fine grained, well fractured to brecciated. Syenite has a greenish hue down to 84.65 m. Blocky, highly fractured core. Pervasive calcitic alteration down to 86.65 m. Trace pyrite.	51009	86.00	87.00	1.00	TR	.100	.10
			51010	87.00	87.56	.56	TR	.045	.08
			51011	87.56	88.50	.94	1-2	.066	.07
			51012	88.50	89.15	.65	1-3	.026	.04
87.56	89.15	Strongly bleached, calcitic zone with many vuggy sections. Many parts of zone has a crumbly, sandy texture. Well fractured. Generally trace pyrite but locally 3% fine to medium grained disseminated pyrite lining vugs. Much of calcitic alteration is a light pink colour. Minor quartz veining. Possibly zone represents a basalt xenolith.	51013	89.15	90.00	.85	TR	.000	nil
			51014	90.00	91.00	1.00	TR	.010	.01
			51015	91.00	92.00	1.00	TR	.260	.26
			51016	92.00	92.78	.78	TR	.000	nil
89.60	90.33	Basalt xenolith (?). Grey-green, finely brecciated, highly calcitic. Contacts at 60/ irregular degrees to the core axis.							
92.78		Lower contact at 30 degrees to the core axis.							
92.78	98.05	30% SILICIFIED - MAG							
			51017	92.78	94.00	1.22	TR-1	.110	.09
			51018	94.00	95.00	1.00	TR-1	.010	.01
		Grey, fine to very fine grained, fairly well fractured with 5 to 10% hairline quartz-carbonate veining. Silicification generally occurs in lighter grey, more fractured to brecciated bands up to 20 cm wide or as halos around fractures. Trace to 1% finely disseminated pyrite. Moderately magnetic. 5% syenite stringers or bands up to 5 cm wide.	51019	95.00	96.00	1.00	TR-1	.020	.02
			51020	96.00	97.00	1.00	TR-1	.010	.01
			51021	97.00	98.05	1.05	TR-1	.000	nil
98.05	106.72	TRANSITIONALLY SILICIFIED ZONE							
			51022	98.05	99.00	.95	TR-1	.009	.01
			51023	99.00	100.00	1.00	TR-1	.020	.02
		Less than 5% silicification.	51024	100.00	101.00	1.00	TR-1	.000	nil
		Grey coloured with green patches or streaks, fine grained, fractured to finely brecciated with 2% hairline calcite veining. Highly calcitic. Moderately magnetic. Some less fractured, more massive sections. 5% syenite veins or bands up to 3 cm wide. Minor specular hematite fill between breccia fragments. Irregular lower contact.	51025	101.00	102.00	1.00	TR-1	.000	nil
			51026	102.00	103.00	1.00	TR-1	.000	nil
			51027	103.00	104.00	1.00	TR-1	.020	.02
			51028	104.00	105.00	1.00	TR-1	.040	.04
			51029	105.00	106.00	1.00	TR-1	.000	nil
			51030	106.00	106.72	.72	TR-1	.000	nil
106.72	122.45	SYENITE							
			51031	114.20	115.48	1.28	1-2	.000	nil
		Orange - red, fine to medium grained, moderately							

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		fractured, non-magnetic, non-calcitic. Dark grey to black spots of dark grey to black very fine grained micas. Trace to 1% finely disseminated or stringers of pyrite. Numerous grey, fine grained massive, fractured, magnetic basalt xenoliths throughout with some calcite veining.							
		111.76 112.33 Basalt xenolith at irregular degrees to the core axis. 2% pyrite and some purple hematite veining.							
		114.20 115.48 Basalt xenolith at irregular degrees to the core axis. Several syenite fragments or patches throughout. 1-2% finely disseminated pyrite.							
		116.44 119.63 Basalt xenolith at irregular degrees to the core axis with numerous syenite fragments or bands up to 20 cm wide. 1-2% pyrite.							
		122.45 Sharp lower contact at 70 degrees to the core axis							
122.45	150.90	HIGH MAG BASALT							
			51032	122.45	123.45	1.00	1-2	.000	nil
			51033	123.45	124.45	1.00	1-2	.000	nil
			51034	124.45	125.45	1.00	1-2	.000	nil
			51035	125.45	126.45	1.00	1-2	.000	nil
			51036	126.45	127.45	1.00	1-2	.000	nil
			51037	127.45	128.45	1.00	1-2	.000	nil
			51038	143.00	144.00	1.00	1-2	.000	nil
		122.45 150.90 Fractured. Medium grey to green, highly fractured and deformed, moderately magnetic, locally calcitic. Locally brecciated. 5% calcite or epidote veining. Minor (less than 5%) silicified patches usually associated with high fracturing. 2% syenite stringers (decreasing down section).							
		135.63 136.30 Amygdular. 2 to 5% amygdules up to 5 mm wide.							
		137.38 142.48 Fine yellowish green spots throughout (approximately 20 to 50%).							
		143.20 143.95 Possible flow top breccia.							
		143.95 150.90 Possible pillowed flow.							
		150.90 END OF HOLE.							

AMERICAN BARRICK RESOURCES CORPORATION

DIAMOND DRILL RECORD

Property: SIMS
Township: HARKER
Claim #: L684579
NTS: 32D/5,12

Hole #: MC.88-475

Survey Co-ords: 3669.0 11164.2
Cut-Grid Co-ords: L3+00W 0+90N
Section: L3+00W
Elevation: 5010.5
Measurement: Metric

Date Logged: NOVEMBER 1988
Logged by: K. Kryklywy
Signature:

Azimuth: 14.0
Dip: -45.0
Length: 166.4

Contractor: PHILIPPON
Core Size: BQ
Date Started: October 24, 1988
Date Completed: October 27, 1988

Core Stored At: HOLT McDERMOTT MINE
Comments: Casing left in hole

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
45.72		-43.0	91.44		-43.0	137.16		-43.0

----------Log Summary----------

.00 14.63 CASING.

14.63 137.69 SYENITE.

137.69 141.45 HIGH MAG BASALT.

141.45 144.33 SYENITE.

144.33 145.80 IMPERIAL FAULT PLANE.

145.80 153.42 SYENITE.

153.42 155.78 SHEAR ZONE.

155.78 166.42 BASALT.

166.42 END OF HOLE.

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
.00	14.63	CASING							
14.63	137.69	SYENITE							
			51188	98.95	99.95	1.00	2-4	.030	.03
			51189	99.95	101.50	1.55	TR-1	.016	.01
			51190	101.50	102.50	1.00	1-4	.110	.11
			51191	102.50	103.50	1.00	1-4	.000	.00
			51192	103.50	104.66	1.16	1-4	.046	.04
			51193	105.35	106.35	1.00	2-4	.090	.09
			51194	118.10	119.00	.90	TR	.018	.02
			51195	119.00	119.55	.55	TR	.017	.03
			51196	119.55	120.30	.75	TR	.038	.05
			51197	120.30	121.14	.84	TR	.160	.19
			51198	130.00	130.98	.98	TR-1	.059	.06
			51199	130.98	132.00	1.02	TR-1	.041	.04
			51200	132.00	132.80	.80	TR-1	.032	.04
			51201	132.80	134.00	1.20	TR	.036	.03

Light to medium pink to locally purple, medium to coarse grained with several fine grained sections. Pink to white feldspar rich with red, pottassic alteration of grain rims. Local quartz grains. Numerous sections over several m with black porphyritic amphibole grains. Generally trace pyrite with local sections with 2 to 3% pyrite. Minor grey, fine grained, magnetic, massive patches up to 30 cm may represent basalt xenoliths and often contain 2 to 3% finely disseminated pyrite.

62.97 63.34 Basalt xenolith at 30/25 degrees to the core axis. Green, medium grained, massive.

98.99 99.12 Brecciated with fine grained syenitic fragments in a grey, fine grained, calcitic matrix.

99.12 99.90 Pyritic. 2 to 4% finely disseminated or fracture filling.

101.50 104.66 Pyritic. 1 to 4% finely disseminated or fracture filling pyrite.

105.04 105.39 Basalt xenolith at 35/30 degrees to the core axis. Dark green with a pink hue, medium grained, massive. Non-magnetic.

105.35 106.35 Pyritic. 2 to 4% finely disseminated.

118.10 119.55 Silicified. Black - grey - purple - pink - white, aphanitic, glassy silicification. Highly fractured to brecciated. 1% hairline calcite veining. Sharp upper contact at 70 degrees to the core axis. Lower contact gradational.

119.55 121.14 Foliated. Weakly foliated at 40 to 50 degrees to the core axis. Red - grey, medium grained with a strange porphyritic texture with sections of subhedral feldspar laths in a fine grained grey matrix.

130.98 132.80 Basalt xenolith with contacts at 60 degrees to the core axis. Dark greenish-grey, fine grained, massive, moderately magnetic. Moderate pervasive calcitic alteration. Trace - 1% pyrite. Upper 30 cm is sheared at 60 degrees to the core axis with fine brecciated syenite

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		fragments throughout. A red, very fine grained syenite dyke occurs from 130.21 to 130.41 at 60/35 degrees to the core axis 137.69 Sharp lower contact at 50 degrees to the core axis							
137.69	141.45	HIGH MAG BASALT							
			51165	137.69	139.00	1.31	1-3	.000	nil
			51166	139.00	140.52	1.52	1-3	.091	.06
			51167	140.52	141.06	.54	TR-1	.016	.03
			51168	141.06	141.45	.39	3-5	.019	.05
		Medium to dark grey with a greenish hue, massive, finely fractured to brecciated, strong calcitic alteration. Moderately magnetic. Local fine grained, red syenite dykes, stringers or fragments. 1 to 3% finely disseminated patches of pyrite. 138.24 138.33 Syenite dyke at 60/ irregular degrees to the core axis. 140.52 141.06 Syenite dyke at 60/40 degrees to the core axis. 141.45 Sharp lower contact at 55 degrees to the core axis							
141.45	144.33	SYENITE							
			51169	141.45	143.00	1.55	2-4	.155	.10
			51170	143.00	144.33	1.33	2-4	.426	.32
		Bright orange - red, very fine grained, finely fractured with fine calcitic spots throughout. 2 to 4% finely disseminated pyrite. Grey, highly fractured, calcitic basalt (?) xenoliths with fine syenitic stringers or patches occur from 141.87 to 142.13 and from 143.38 to 143.77. 143.77 144.33 Brecciated. Syenite becoming increasingly brecciated down section and lower 15 cm is syenite fragments in a dark green - black chloritic matrix.							
144.33	145.80	IMPERIAL FAULT PLANE							
			51171	144.33	144.80	.47	TR	.414	.88
			51172	144.80	145.70	.90	TR-1	.144	.16
			51173	145.70	146.70	1.00	TR-1	.020	.02
		Fault gouge. Finely brecciated, white to pink syenite fragments in a chloritic to green clay matrix. Highly sheared at 70 degrees to the core axis. Highly calcitic. Non-magnetic. 144.62 144.69 Clay-grit seam. Dark green. At 50/70 degrees to the core axis.							

From	To	Description	Sample	From	To	Length	% Sul	GM	Au g/t
145.80	153.42	SYENITE							
			51174	146.70	147.70	1.00	TR-1	.160	.16
			51175	147.70	148.70	1.00	1-5	1.890	1.89
		Bright orange - red, very fine grained well fractured and locally sheared to brecciated. Moderate calcitic alteration - fracture controlled. Trace to 5% very finely disseminated pyrite.	51176	148.70	149.70	1.00	2-10	1.330	1.33
			51177	149.70	150.61	.91	2-10	.710	.78
			51178	150.61	151.61	1.00	1-3	.100	.10
			51179	151.61	152.61	1.00	1-3	.070	.07
			51180	152.61	153.42	.81	1-3	.421	.52
		147.70 150.61 Brecciation. Intensely brecciated with red fractured syenite fragments in a medium to dark grey, fine grained, highly calcitic matrix. Weak to 8% finely disseminated pyrite concentrated in grey matrix. Locally sheared at 50 to 60 degrees to the core axis.							
		151.12 151.39 Sheared. Green - grey coloured, sheared at 40 to 60 degrees to the core axis. Possible basalt xenolith. Numerous syenite fragments.							
		151.95 152.28 Same as described above from 151.12 to 151.39 but less sheared.							
		153.42 Highly brecciated lower contact.							
153.42	155.78	SHEAR ZONE							
			51181	153.42	154.00	.58	5-10	.470	.81
			51182	154.00	155.00	1.00	1-5	.050	.05
		Intensely sheared at average 60 degrees to the core axis. Moderately to strongly magnetic - increasing with depth. Appears as fine, sheared, red - green - grey - black - orange bands of brecciated syenite, chlorite, calcite veining and possible basalt. 1 to 10% finely disseminated pyrite. Patchy calcitic alteration. Similar to shearing in hole SH 85-4. Lower contact gradational and marked by change to less intense shearing and decrease in pyrite.	51183	155.00	155.78	.78	1-5	.023	.03
155.78	166.42	HIGH MAG BASALT							
			51184	155.78	157.09	1.31	1-2	.210	.16
			51185	157.09	158.00	.91	1-2	.000	nil
		155.78 157.09 Altered zone. Grey-green with a pinkish hue. Appears to be a pink syenitic overprinting. Fine grained, locally foliated at average 60 degrees to the core axis. Strong pervasive calcitic	51186	158.00	159.00	1.00	1-2	.130	.13
			51187	159.00	160.00	1.00	1-2	.000	nil
			51202	160.00	161.00	1.00	1-2	.050	.05
			51203	161.00	162.00	1.00	1-2	.030	.03

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		alteration. Locally finely brecciated to sheared. Moderately to strongly magnetic. 1 to 2% finely disseminated or fracture filling pyrite.							
157.09	166.42	Fine grained massive flow. Grey-green, moderately to strongly magnetic. Brittley fractured with 2 to 5% calcite veining. Weak to moderate calcitic alteration - fracture controlled. 1 to 2% finely disseminated patches of pyrite decreasing down section.							
166.42		END OF HOLE.							

AMERICAN BARRICK RESOURCES CORPORATION

Property: SIMS
Township: HARKER
Claim #: L684565
NTS: [redacted] 32D/5,12

DIAMOND DRILL RECORD

Hole #: MC.88-476

Survey Co-ords: 2029.6 12255.4
Cut-Grid Co-ords: L22+00W6+85N
Section: L22+00W
Elevation: 5000.0
Measurement: Metric

Date Logged: NOVEMBER 1988
Logged by: K. Kryklywy
Signature:

Azimuth: 13.5
Dip: -43.0
Length: 222.5

Contractor: PHILIPPON
Core Size: BQ
Date Started: October 26, 1988
Date Completed: October 30, 1988

Core Stored At: HOLT McDERMOTT MINE
Comments: H- casing left in hole, B- casing pulled. Elevation estimated.

Depth	Azimuth	Dip	Depth	Azimuth	Dip	Depth	Azimuth	Dip
60.96		-42.0	182.88		-40.0			
121.92		-42.0	222.50		-40.0			

----------Log Summary----------

.00 35.50 CASING.

35.05 214.39 SYENITE.

214.39 214.42 IMPERIAL FAULT PLANE.

214.42 222.50 SYENITE.

222.50 END OF HOLE.

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
.00	35.05	CASING							
35.05	214.39	SYENITE							
			51204	36.00	37.00	1.00	1-2	.030	.03
			51205	37.00	38.00	1.00	TR-1	.070	.07
			51206	52.20	52.75	.55	2-3	.027	.05
			52056	134.03	135.53	1.50	TR	.000	nil
			52057	142.75	143.75	1.00	2-3	.000	nil
			52058	143.75	144.75	1.00	2-3	.000	nil
			52059	144.75	145.75	1.00	2-3	.000	nil
			52060	166.95	167.72	.77	2-4	.000	nil
			51207	197.00	198.00	1.00	1-3	.070	.07
			51208	198.00	199.00	1.00	1-3	.020	.02
			51209	199.00	200.00	1.00	1-3	.000	nil
			51210	200.00	201.00	1.00	1-3	.020	.02
			51211	201.00	202.00	1.00	1-3	.050	.05
			51212	202.00	203.00	1.00	1-3	.080	.08
			51213	203.00	204.00	1.00	1-3	.040	.04
			51214	204.00	205.00	1.00	1-3	.030	.03
			51215	205.00	206.00	1.00	1-3	.020	.02
			51216	206.00	207.00	1.00	1-3	.050	.05
			51217	207.00	208.00	1.00	1-3	.160	.16
			51218	208.00	209.00	1.00	1-3	.070	.07
			51219	209.00	210.00	1.00	1-3	.060	.06
			51220	210.00	211.00	1.00	1-3	.170	.17
			51221	211.00	212.00	1.00	1-3	.460	.46
			51222	212.00	213.00	1.00	1-3	.240	.24
			51223	213.00	214.00	1.00	1-3	.050	.05
			51224	214.00	215.00	1.00	1-3	.080	.08

Syenite porphyry (?).

Varies from pink to red to grey to sometimes with a greenish hue and from fine to coarse grained. Syenite is very different from syenite on eastern part of property as most of this section is porphyritic with large white to pink, subhedral porphyritic feldspar grains up to 2 cm in a grey, fine grained, feldspars - mica (?) rich matrix. Fairly strong pink - red pottassic alteration along fractures or rimming feldspar grains. Generally trace pyrite with local concentrations up to 3% pyrite over 50 cm.

37.42 37.43 Clay-grit seam. Light to medium green with strong sericite and chlorite. Oriented at 20 to 30 degrees to the core axis. (very rubbly zone from 37.42 to 37.80). Foliated at 30 degrees to the core axis for 5 cm above clay seam.

43.56 Slickensided fracture at 40 degrees to the core axis.

52.20 52.70 Pyritic. 2 to 3% fine to coarse grained disseminated or fracture filling pyrite.

108.63 109.19 Syenite dyke at 45/60 degrees to the core axis. Dark red, fine grained, finely fractured. Magnetic. Strongly silicified. Moderate pervasive calcitic alteration. Prominently fractured at 70 degrees to the core axis.

From	To	Description	Sample From	To	Length	% Sul	GW	Au g/t
134.45	135.53	Fine to very fine grained with some orange to grey silicification or quartz veining. Strong, bright green, pervasive sericitic alteration. Trace pyrite.						
142.70	145.78	Pyritic. 2 to 3% fine to coarse grained disseminated pyrite. 1% pyrite after 145.78						
166.95	167.72	Basalt xenolith. Medium green, fine to medium grained, finely fractured, highly calcitic. 2 to 4% medium grained disseminated pyrite. Contacts at irregular / 40 degrees to the core axis. Minor syenite dykes.						
172.46	174.06	Mafic intrusive. Dark reddish greenish-grey, fine grained, magnetic, strongly calcitic. Trace pyrite. Sharp contacts at 65/40 degrees to the core axis.						
176.41	176.67	Basalt xenolith at irregular degrees to the core axis.						
177.99	178.27	Mafic intrusive at 55/45 degrees to the core axis.						
178.50	179.26	MAFIC SYENITE. Same as described above from 172.46 to 174.06 except more of a reddish colour. Sharp contacts at 35 degrees to the core axis.						
179.26	191.10	Strong patchy bright light green sericitic (?) alteration throughout. Trace to 1% finely disseminated pyrite. Weak patchy calcitic alteration. Generally finer grained. Blocky, highly fractured core from 182.40 to 184.40. Basalt xenolith from 188.91 to 189.35 with contacts at 40/45 degrees to the core axis.						
191.10	191.65	Basalt xenolith at 45/80 degrees to the core axis. Strongly calcitic with 1 to 3% disseminated pyrite.						
191.65	215.39	Pyritic. 1 to 3% fine to medium grained disseminated or fracture filling pyrite. Unit is becoming more fine grained, altered, fractured, brecciated and sheared down section. Increasing red pottassic alteration down section.						
194.76	195.18	MAFIC SYENITE dyke at 55/80 degrees to the						

From	To	Description	Sample	From	To	Length	% Sul	GW	Au g/t
		core axis.							
		195.38 195.56 MAFIC SYENITE (basalt xenolith ?) dyke at 45/55 degrees to the core axis.							
		206.50 206.70 Pink calcite vein at 75 degrees to the core axis.							
		206.70 214.39 Increasing brecciation and shearing down section. Sheared at 35 to 50 degrees to the core axis. Commonly dark green to grey chloritic (?) infilling between breccia fragments. 5% fine hairline calcite veining throughout. 25% pink to white quartz-carbonate veining after 212.50 m.							
214.39	214.42	IMPERIAL FAULT PLANE							
		Green clay-grit seam at 55 degrees to the core axis.							
214.42	222.50	SYENITE							
		Pink - red, fine to medium grained with green to grey chloritic infilling between feldspar grains. Finely fractured and locally brecciated - decreasing down section. 1 to 3% finely disseminated or fracture filling pyrite. Strong pink to red pottassic alteration throughout. Non-calcitic. Minor fine calcite veining.	51225	215.00	216.00	1.00	1-3	.000	nil
			51226	216.00	217.00	1.00	1-3	.270	.27
			51227	217.00	218.00	1.00	1-3	.510	.51
			51228	218.00	219.00	1.00	1-3	.550	.55
			51229	219.00	220.00	1.00	1-3	.580	.58
			52061	220.00	221.00	1.00	1-3	.080	.08
			52062	221.00	222.00	1.00	1-3	.160	.16
			52063	222.00	222.50	.50	1-3	.000	nil
		222.50 END OF HOLE.							

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Certificate of Analysis

Certificate No. 73199 Date Oct. 12, 1988

Received Oct. 7, 1988 29 Samples of Sawn Core

Submitted by American Barrick Resources Exploration, Kirkland Lake, Ontario.

ATTENTION: Mr. G. Tousignant

SAMPLE NO.	GOLD g/t
42887	0.01
42888	0.01
42889	0.14
42890	0.15
42891	0.26
42892	0.38/0.43
42893	0.02
42894	0.07
42895	Nil
42896	0.01
42897	0.01
42898	Nil
42899	Nil
42900	Nil
42901	0.01
42902	Nil
42903	0.01
42904	0.01
42905	Nil
42906	Nil
42907	0.01
42908	Nil
42909	Nil
42910	Nil
42911	Nil
42912	0.01/Nil
42913	Nil
42914	Nil
42915	0.01

#469

#470

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P-171

Per G. Lebel

G. Lebel - Manager /ns

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Certificate of Analysis

Certificate No. 73244 Date Oct. 14, 1988

Received Oct. 12, 1988 21 Samples of Sawn Core

Submitted by American Barrick Resources Exploration, Kirkland Lake, Ontario.

ATTENTION: Mr. G. Tousignant

SAMPLE NO.	GOLD g/t
42916	0.04
42917	0.15
42918	0.11
42919	Nil
42920	Nil
42921	Nil
42922	Nil
42923	Nil
42924	Nil
42925	0.01
42926	0.02
42927	0.01/Nil
42928	Nil
42929	Nil
42930	Nil
42931	Nil
42932	0.02
42933	0.04
42934	0.22/0.19
42935	0.03
42936	Nil

RECEIVED OCT 17 1988

#470

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P-171

Per G. Lebel - Manager /hs

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Certificate of Analysis

Certificate No. 73268 Date Oct. 18, 1988

Received Oct. 13, 1988 10 Samples of Sawn Core, Split Core & Rock

Submitted by American Barrick Resources Exploration, Kirkland Lake, Ontario.

ATTENTION: Mr. G. Tousignant

SAMPLE NO.	GOLD g/t
42937	Nil
42938	Nil
42939	Nil
42940	Nil
42941	Nil
42942	Nil
42943	Nil
42944	0.11/0.07
42945	0.02
KK-01	Nil

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Per G. Lebel

G. Lebel - Manager /ns

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Certificate of Analysis

Certificate No. 73320 Date Oct. 21, 1988

Received Oct. 17, 1988 45 Sawn Core Samples

Submitted by American Barrick Resources Exploration, Kirkland Lake, Ontario.

ATTENTION: Mr. G. Tousignant

SAMPLE NO.	GOLD g/t	SAMPLE NO.	GOLD g/t	SAMPLE NO.	GOLD g/t
42946	0.07	42978	Nil	51010	0.08
42947	0.15	42979	Nil	51011	0.07
42948	0.03	42980	Nil	51012	0.04
42962	0.90/0.72	42981	Nil	51013	Nil
42963	Nil	42982	Nil	51014	0.01
42964	0.86	42983	Nil	51015	0.20/0.31
42965	0.32	42984	0.15/0.12	51016	Nil
42966	0.30	42985	Nil		
42967	0.91/0.45	42986	Nil		
42968	0.32	42987	Nil		
42969	0.38	42988	Nil		
42970	0.44	42989	Nil		
42971	0.10	42990	Nil		
42972	0.11	42991	Nil		
42973	Nil	42992	Nil		
42974	0.02	42993	0.01		
42975	Nil	51007	0.16		
42976	0.05	51008	0.13		
42977	0.02	51009	0.10		

M88-471

M88-472

M88-477

P-171-64

Per G. Lebel

G. Lebel - Manager /ns

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Certificate of Analysis

Certificate No. 73310 Date Oct. 19, 1988

Received Oct. 17, 1988 31 Samples of Sawn Core

Submitted by American Barrick Resources Exploration, Kirkland Lake, Ontario.

ATTENTION: Mr. G. Tousignant

SAMPLE NO.	GOLD g/t
51001	0.23
51002	0.43/0.41
51003	0.15
51004	0.10
51005	0.08
51006	Nil
51017	0.09
51018	0.01
51019	0.02
51020	0.01
51021	Nil
42949	0.08
42950	0.18
42951	0.11
42952	0.04
42953	0.14
42954	0.49/0.50
42955	0.02

MCBE-472

MCBE-471

SAMPLE NO.	GOLD g/t
42956	0.02
42957	0.02
42958	Nil
42959	Nil
42960	0.06
42961	0.21
42994	Nil
42995	0.67
42996	0.14
42997	0.80/0.83
42998	0.03
42999	Nil
43000	Nil

MCBE-472

P-171-64

Per G. Lebel

G. Lebel - Manager /ns

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Certificate of Analysis

Certificate No. 73373 Date Oct. 24, 1988

Received Oct. 20, 1988 17 Sawn Core Samples

Submitted by American Barrick Resources Exploration, Kirkland Lake, Ontario.

ATTENTION: Mr. G. Tousignant

SAMPLE NO.	GOLD g/t
51022	0.01
51023	0.02
51024	Nil
51025	Nil
51026	Nil
51027	0.02/0.04
51028	Nil
51029	Nil
51030	Nil
51031	Nil
51032	Nil
51033	Nil
51034	Nil
51035	Nil
51036	Nil
51037	Nil
51038	Nil

MC88-472

P-171-64

Per G. Lebel

G. Lebel - Manager /ns

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Certificate of Analysis

Certificate No. 73506 Date Oct. 31, 1988

Received Oct.28, 1988 23 Split Core Samples

Submitted by American Barrick Resources Exploration, Kirkland Lake, Ontario.

ATTENTION: G. Tousignant

SAMPLE NO.	GOLD g/t
51165	Nil
51166	0.06
51167	0.03
51168	0.05
51169	0.10
51170	0.32
51171	0.88
51172	0.16
51173	0.02
51174	0.16
51175	1.89
51176	1.45/1.33
51177	0.78
51178	0.10
51179	0.07
51180	0.54/0.50
51181	0.81
51182	0.05
51183	0.03
51184	0.16
51185	Nil
51186	0.13
51187	Nil

MCBB-475

P-21

Per G. Lebel - Manager /ns

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Certificate of Analysis

Certificate No. 73517 Date Oct. 31, 1988

Received Oct. 30, 1988 23 Samples of Sawn Core

Submitted by American Barrick Resources Exploration, Kirkland Lake, Ontario.

ATTENTION: G. Tousignant

SAMPLE NO.	GOLD g/t
51207	0.07
51208	0.02
51209	Nil
51210	0.02/0.02
51211	0.05
51212	0.08
51213	0.04
51214	0.03
51215	0.02
51216	0.05
51217	0.16
51218	0.07
51219	0.06
51220	0.17
51221	0.46
51222	0.26/0.22
51223	0.05
51224	0.08
51225	Nil
51226	0.27
51227	0.51
51228	0.55
51229	0.59/0.56

MC88-476

R-78

Per G. Lebel

G. Lebel - Manager /ns

P.O. Box 10, Swastika, Ontario P0K 1T0
Telephone (705) 642-3244 FAX (705) 642-3300

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine
P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 54
Lab ID: 88N03-1x

Date: Nov. 03, 1988
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
51188	0.03				
89	0.01				
90	0.11				
91	0.00				
92	0.04				
93	0.09				
94	0.02				
95	0.03				
96	0.05				
97	0.19				
98	0.06				
99	0.04				
51200	0.04				
01	0.03				
02	0.05				
03	0.03				
#51204	0.03				
05	0.07				
06	0.05				

Sims. 475.

Sims - 476

Signed

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Certificate of Analysis

Certificate No. 73600 Date Nov. 7, 1988

Received Nov. 4, 1988 21 Samples of Sawn Core

Submitted by American Barrick Resources Exploration, Kirkland Lake, Ontario.

ATTENTION: Mr. G. Tousignant

SAMPLE NO.	GOLD g/t
51271	Nil
51272	Nil
51273	Nil
51274	Nil
51275	Nil
51276	Nil
51277	Nil
51278	Nil
51279	Nil
51280	Nil
51281	Nil
51282	0.03/Nil
51283	Nil
52056	Nil
52057	Nil
52058	Nil
52059	Nil
52060	Nil
52061	0.08
52062	0.16
52063	Nil

P-17

AC-88-476

Per G. Lebel

G. Lebel - Manager /ns

P.O. Box 10, Swastika, Ontario P0K 1T0
Telephone (705) 642-3244. FAX (705)642-3300

BARRICK

AMERICAN BARRICK RESOURCES CORPORATION

Holt-McDermott Mine

P.O. Box 278, Kirkland Lake, Ont., P2N 3H7

Assay Certificate

No. of Determinations: 71
Lab ID: 88N08-1x

Date: Nov. 08, 1988
Acct. No.: Exploration

SAMPLE	g/t Au	SAMPLE	g/t Au	SAMPLE	g/t Au
		52017	0.13	52049	0.10
		18	0.20	50	0.06
		19	0.09	51	0.07
		20	0.06	52	0.03
		21	0.08	53	0.09
		22	0.19	54	0.04
		23	0.09	55	0.15
		24	0.07		
		25	0.31		
		26	0.21		
		27	0.58		
		28	0.21		
		29	0.48		
		30	0.43		
		31	0.64		
		32	0.98		
52001	0.30	33	0.16		
02	0.31	34	0.10		
03	0.29	35	0.02		
04	0.28	36	0.10		
05	0.18	37	0.09		
06	0.14	38	0.08		
07	0.15	39	0.13		
08	0.14	40	0.90		
09	0.15	41	0.13		
10	0.30	42	0.08		
11	0.17	43	0.10		
12	0.11	44	0.12		
13	0.10	45	0.12		
14	0.09	46	0.29		
15	0.08	47	0.17		
16	0.06	48	0.15		

Sims. 469

Sims 469

Sims 469

Card Lake - P.173. 16
Sims. P.171. 55
71

Signed [signature]

W9108.5113

Ministry of Northern Development and Mines
Ontario

Report of Work After Recording

Assess Lib.

Mining A

32D12SW0056 67 HARKER

900

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

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)		Client No.
WILLIAM SIMS		
Address: 392 PAISLEY BLVD W., MISSISSAUGA, ONT L5B 2A6		Telephone No.: 416 - 272 - 4983
Mining Division: LARDER LAKE	Township/Area: HARKER TWP.	M or G Plan No.
Dates Work Performed — From: Sept 13, 1988	To: ~~Oct.~~ Nov. 17, 1988	

Work Performed (Check One Work Group Only)

	Work Group	Type
	Geotechnical Survey	
✓	Physical Work, Including Drilling	DIAMOND DRILLING
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

ONTARIO GEOLOGICAL SURVEY
GIS - ASSESSMENT FILES
FEB 24 1992
RECEIVED

Total Assessment Work Claimed on the Attached Statement of Costs $ 54,046

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
PHILIPPON DIAMOND DRILLING	BOX 788, ROUYN-NORANDA, QUE J9X 5C7
KRYKLYWY, KEN	55 RIVERSIDE DR., SWASTIKA, ONT.

(attach a schedule if necessary)

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

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.	Date	Recorded Holder or Agent (Signature)
	NOV 18, 1991	Gilles Tousignant

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: TOUSIGNANT, GILLES, 17 RANDW, KIRKLAND LAKE, ONT. P2N 3L9

Telepone No.	Date	Certified By (Signature)
705-567-6857	NOV. 18, 1991	Gilles Tousignant

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
$19200.00	November 20, 1991		
(34846.00) banked	Deemed Approval Date	Date Approved: November 20/91	
	Date Notice for Amendments Sent		

0241 (03/91)

'12

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
	L-684565	1	7,690	800	1600	5,290
	L-684566	1		800		
	L-684567	1		800		
	L-684568	1	11,994	800	3200	7,994
	L-684569	1		800		
	L-684570	1		800		
	L-684571	1		800		
	L-684572	1		800		
	L-684573	1		800		
	L-684574	1		800		
	L-684575	1	13,313	800	4000	8516
	L-684576	1		800		
	L-684577	1		800		
	L-684578	1	14,534	800	4800	8934
	L-684579	1	6512	800	1600	4112
	L-684580	1		800		
	L-684581	1		800		
		Total Number of Claims	Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

0241 (03/91)

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.

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	Date

8/12

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
	L 684582	1		800		
	L 684583	1		800		
	L-684584	1		800		
	L-684585	1		800		
	L-684586	1		800		
	L-684587	1		800		
	L-684588	1		800		
	24		$ 54046	$ 19200	$ 15,200	$ 34,846
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

(241 (03/91)

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 prioritize 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 prioritized on the attached appendix.

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	Date

Ministry of Northern Development and Mines

Ontario

Ministère du Développement du Nord et des mines

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

DOCUMENT No.
W9180 • 05113

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	9650	
	Field Supervision Supervision sur le terrain		9,650
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type		
	D. Drilling	96,437	
	Assaying	2,005	98442
Supplies Used Fournitures utilisées	Type		
Equipment Rental Location de matériel	Type		
	Total Direct Costs Total des coûts directs		108,092

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		0
	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)**		0

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
108,092	× 0.50 =	54,046

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 Reg. Exploration Manager I am authorized
(Recorded Holder, Agent, Position in Company)

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 _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date
Gilles Tousignant	11-18-91

0212 (04/91)

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

Ontario

Recording Office
4 Government Road East
KIRKLAND LAKE, Ontario
P2N 1A2

Ministry of Northern Development and Mines
Ministère du Développement du Nord et des Mines

February 17, 1992

OUR FILE: W9180.05113

American Barrick Resources Corp.
P.O. Box 1203
953 Government Road W.
KIRKLAND LAKE, Ontario
P2N 3M7

Dear Sir:

SUBJECT: RECORDING OF PHYSICAL WORK (DIAMOND DRILLING) PERFORMED ON MINING CLAIMS L 684565 ETAL. IN THE TOWNSHIP OF HARKER, LARDER LAKE MINING DIVISION

Your statement of costs shows only the contractor's fee without any breakdown of expenses or indirect costs. Upon review of other diamond drill report submissions it was shown that under most circumstances these indirect costs did not exceed the 20% of the direct costs which are allowable. After discussions with the Chief Mining Recorder and the other mining recorders it was agreed that due to the transition into the new Mining Act and the fact that in most circumstances the indirect costs do not exceed the 20% amount allowable, we would accept initial submissions of this nature without the breakdown of direct and indirect costs. In future submissions please ensure that the contractor's fees are broken down into direct and indirect costs. Failure to comply with this practice could have adverse affects on the status of your claims.

If you have any questions in this matter, do not hesitate to call this office.

Yours truly

for Martin Cuda
Mining Recorder
Larder Lake Mining Division
(705) 567-9241

THIS AGREEMENT m[illegible] in duplicate as of the 1st day of D[illegible]ember, 1987,

BETWEEN:

WILLIAM SIMS, a resident of the City of Mississauga, Province of Ontario

hereinafter called, "Sims",

OF THE FIRST PART,

- and -

AMERICAN BARRICK RESOURCES CORPORATION
a corporation under the laws of the Province of Ontario and having its Registered Office in the said City of Toronto,

hereinafter called, "Barrick",

OF THE SECOND PART.

WITNESSETH that in consideration of the premises, the mutual covenants and agreements herein contained, the parties hereto have agreed and do hereby agree as follows:

SECTION 1
DEFINITIONS

As used in this Agreement and any schedules hereto:

1.1 "Mining Lands" shall mean the 24 unpatented mining claims numbered 684565 to 684588 inclusive situate in Harker Township in the Province of Ontario, Canada.

1.2 "Project" shall mean all aspects of exploration, joint or otherwise, development and production undertaken pursuant to this Agreement;

1.3 "Project Facilities" shall mean all buildings, structures, machinery, equipment and other tangible property and all roads, tailings, mine workings and other improvements acquired or constructed by or on behalf of the parties in carrying out the Project.

1.4 "Project Property" shall mean the aggregate interest of the parties in the Mining Lands and the Project Facilities;

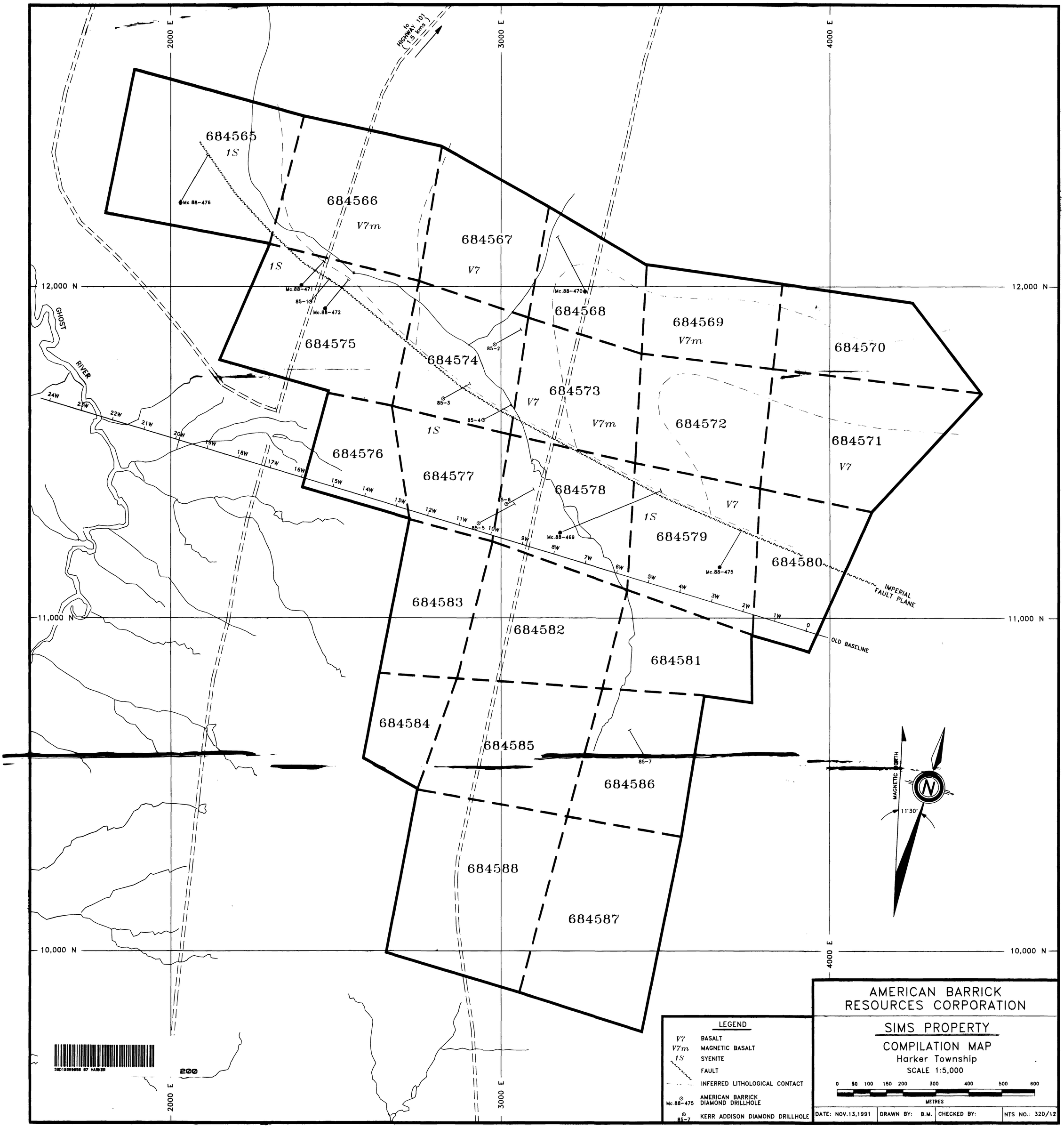
1.5 "Programme" shall mean any programme of prospecting, exploration and/or development work proposed to be carried or carried out in respect of the Mining Lands and shall also mean, as the context requires, a written document wherein there is specified in reasonable detail:

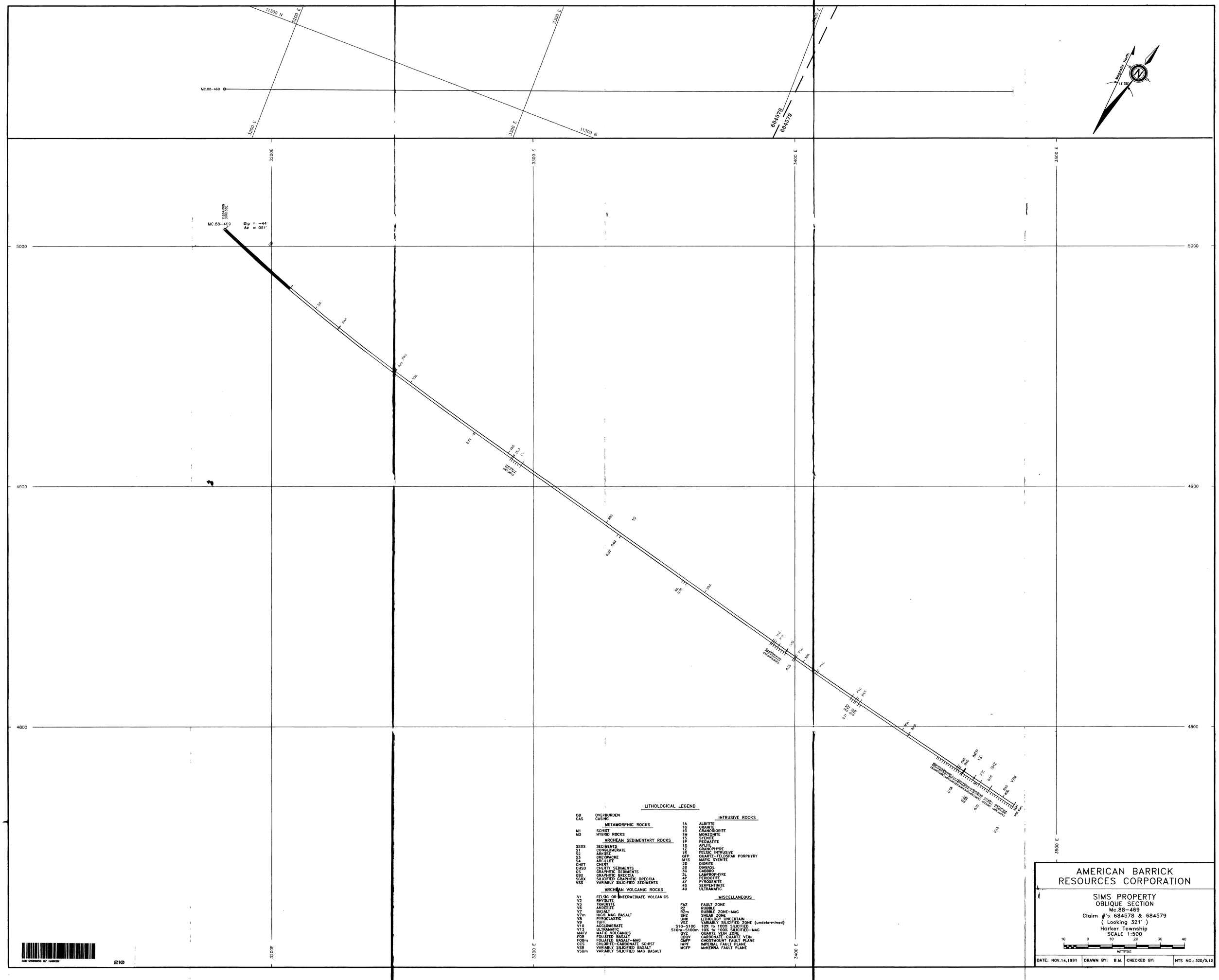
(1) an outline of all prospecting, exploration, and/or development work proposed to be carried out during such programme;

(2) the estimated cost of the Programme on an itemized basis;

(3) a description of that part of the Mining Lands in respect to which such work is to be undertaken; and

(4) the duration of such Programme which shall not exceed 12 months in any event.


2000 E
3000 E
4000 E
to HIGHWAY 101 (1.5 kms)
12,000 N
11,000 N
10,000 N
684565
1S
Mc 88-476
684566
V7m
684567
V7
Mc.88-471
85-1
Mc.88-472
Mc.88-470
684568
684569
V7m
684570
684575
684574
85-2
684573
V7
85-3
85-4
V7m
684572
684571
V7
684576
684577
1S
684578
V7
85-6
85-5
Mc.88-469
684579
Mc.88-475
684580
684583
684582
684581
684584
684585
85-7
684586
684588
684587
GHOST RIVER
IMPERIAL FAULT PLANE
OLD BASELINE
24W
23W
22W
21W
20W
19W
18W
17W
16W
15W
14W
13W
12W
11W
10W
9W
8W
7W
6W
5W
4W
3W
2W
1W
0
MAGNETIC NORTH
11°30'
LEGEND
V7 BASALT
V7m MAGNETIC BASALT
1S SYENITE
FAULT
INFERRED LITHOLOGICAL CONTACT
Mc 88-475 AMERICAN BARRICK DIAMOND DRILLHOLE
85-7 KERR ADDISON DIAMOND DRILLHOLE
AMERICAN BARRICK RESOURCES CORPORATION
SIMS PROPERTY
COMPILATION MAP
Harker Township
SCALE 1:5,000
0 50 100 150 200 300 400 500 600
METRES
DATE: NOV.13,1991
DRAWN BY: B.M.
CHECKED BY:
NTS NO.: 32D/12
32D12SW0058 87 HARKER
200



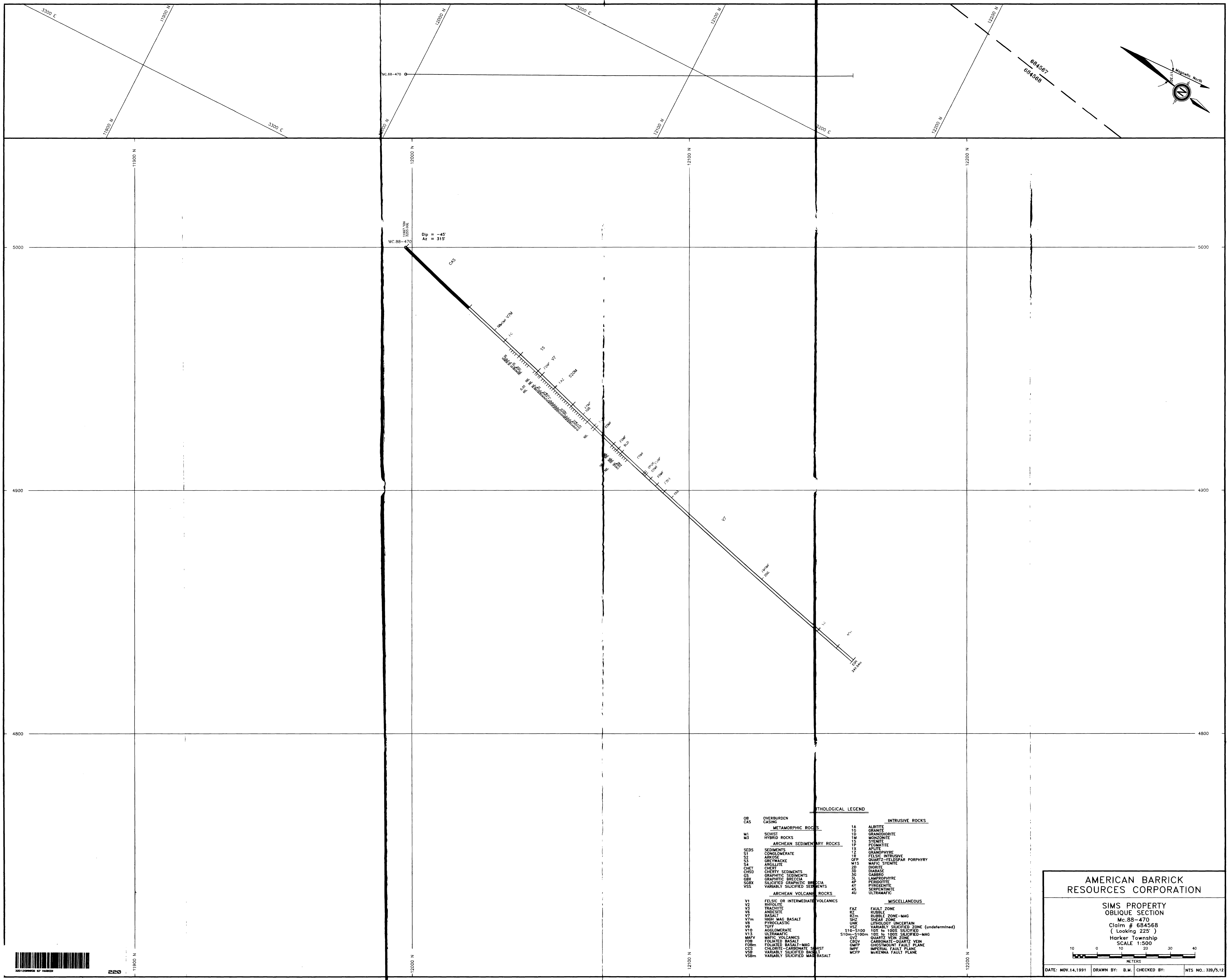
AMERICAN BARRICK
RESOURCES CORPORATION

SIMS PROPERTY
OBLIQUE SECTION
Mc.88-469
Claim #'s 684578 & 684579
(Looking 321°)
Harker Township
SCALE 1:500

10 0 10 20 30 40
METERS

DATE: NOV.14,1991	DRAWN BY: B.M.	CHECKED BY:	NTS NO.: 32D/5,12

32D12SW0056 67 HARKER



LITHOLOGICAL LEGEND

OB	OVERBURDEN
CAS	CASING

METAMORPHIC ROCKS

M1	SCHIST
M3	HYBRID ROCKS

ARCHEAN SEDIMENTARY ROCKS

SEDS	SEDIMENTS
S1	CONGLOMERATE
S2	ARKOSE
S3	GREYWACKE
S4	ARGILLITE
CHET	CHERT
CHSD	CHERTY SEDIMENTS
GS	GRAPHITIC SEDIMENTS
GBX	GRAPHITIC BRECCIA
SGBX	SILICIFIED GRAPHITIC BRECCIA
VSS	VARIABLY SILICIFIED SEDIMENTS

ARCHEAN VOLCANIC ROCKS

V1	FELSIC OR INTERMEDIATE VOLCANICS
V2	RHYOLITE
V3	TRACHYTE
V6	ANDESITE
V7	BASALT
V7m	HIGH MAG BASALT
V8	PYROCLASTIC
V9	TUFF
V10	AGGLOMERATE
V13	ULTRAMAFIC
MAFV	MAFIC VOLCANICS
FOB	FOLIATED BASALT
FOBm	FOLIATED BASALT-MAG
CCS	CHLORITE-CARBONATE SCHIST
VSB	VARIABLY SILICIFIED BASALT
VSBm	VARIABLY SILICIFIED MAG BASALT

INTRUSIVE ROCKS

1A	ALBITITE
1G	GRANITE
1D	GRANODIORITE
1M	MONZONITE
1S	SYENITE
1P	PEGMATITE
1X	APLITE
1Z	GRANOPHYRE
1R	FELSIC INTRUSIVE
QFP	QUARTZ-FELDSPAR PORPHYRY
M1S	MAFIC SYENITE
2D	DIORITE
3D	DIABASE
3G	GABBRO
3L	LAMPROPHYRE
4P	PERIDOTITE
4Y	PYROXENITE
4S	SERPENTINITE
4U	ULTRAMAFIC

MISCELLANEOUS

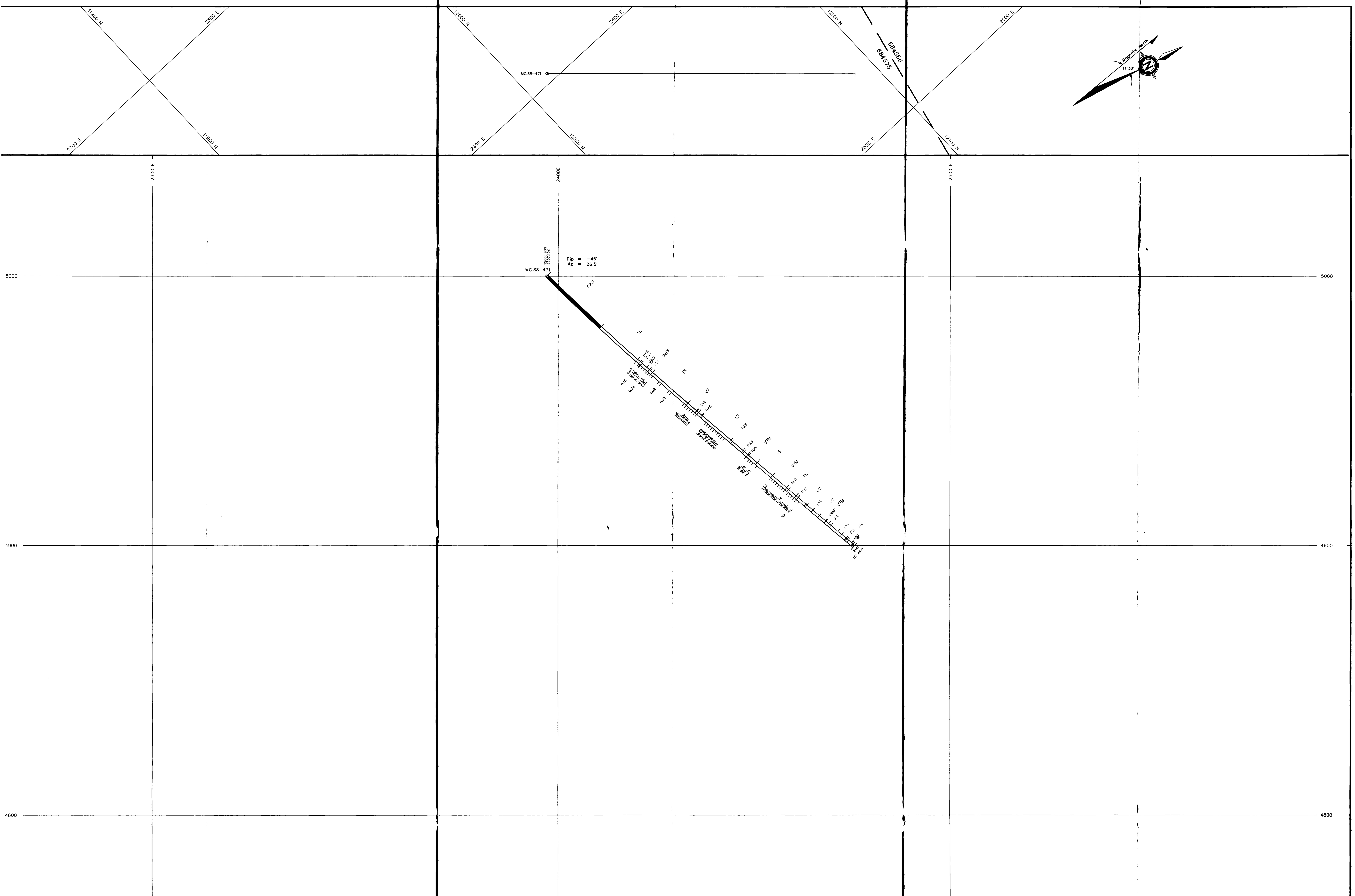
FAZ	FAULT ZONE
RZ	RUBBLE
RZm	RUBBLE ZONE-MAG
SHZ	SHEAR ZONE
UNK	LITHOLOGY UNCERTAIN
VSZ	VARIABLY SILICIFIED ZONE (undetermined)
S10-S100	10% to 100% SILICIFIED
S10m-S100m	10% to 100% SILICIFIED-MAG
QVZ	QUARTZ VEIN ZONE
CBQV	CARBONATE-QUARTZ VEIN
GMFP	GHOSTMOUNT FAULT PLANE
IMPF	IMPERIAL FAULT PLANE
MCFP	McKENNA FAULT PLANE

AMERICAN BARRICK RESOURCES CORPORATION

SIMS PROPERTY
OBLIQUE SECTION
Mc.88-470
Claim # 684568
(Looking 225°)
Harker Township
SCALE 1:500

10 0 10 20 30 40
METERS

DATE: NOV.14,1991	DRAWN BY: B.M.	CHECKED BY:	NTS NO.: 32D/5,12



LITHOLOGICAL LEGEND

OB	OVERBURDEN
CAS	CASING

METAMORPHIC ROCKS

M1	SCHIST
M3	HYBRID ROCKS

ARCHEAN SEDIMENTARY ROCKS

SEDS	SEDIMENTS
S1	CONGLOMERATE
S2	ARKOSE
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S4	ARGILLITE
CHET	CHERT
CHSD	CHERTY SEDIMENTS
GS	GRAPHITIC SEDIMENTS
GBX	GRAPHITIC BRECCIA
SGBX	SILICIFIED GRAPHITIC BRECCIA
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ARCHEAN VOLCANIC ROCKS

V1	FELSIC OR INTERMEDIATE VOLCANICS
V2	RHYOLITE
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4U	ULTRAMAFIC

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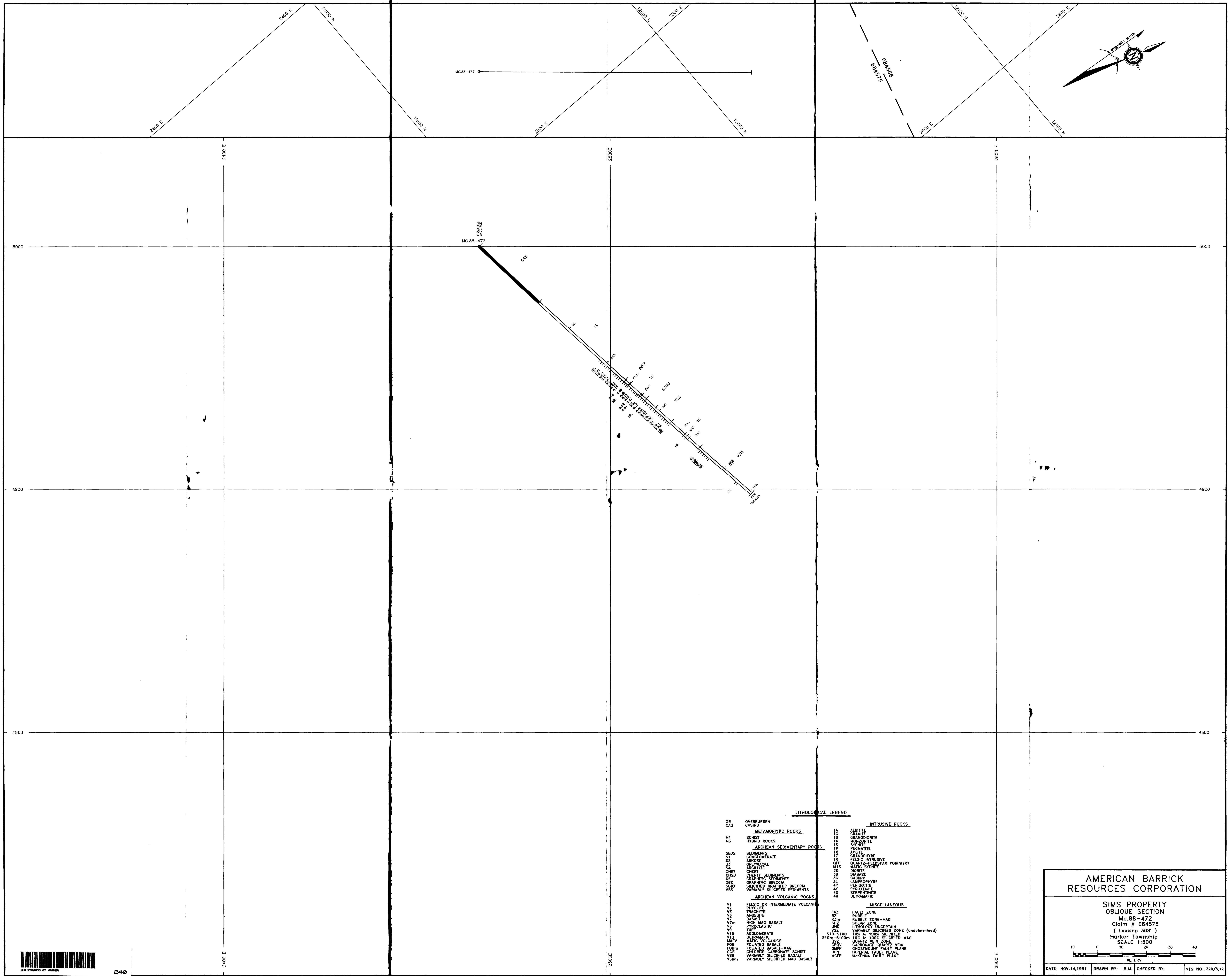
QVZ	QUARTZ VEIN ZONE
CBQV	CARBONATE-QUARTZ VEIN
GMFP	GHOSTMOUNT FAULT PLANE
IMPF	IMPERIAL FAULT PLANE
MCFP	McKENNA FAULT PLANE

AMERICAN BARRICK RESOURCES CORPORATION

SIMS PROPERTY
OBLIQUE SECTION
Mc.88-471
Claim # 684575
(Looking 296°)
Harker Township
SCALE 1:500

10 0 10 20 30 40
METERS

DATE: NOV.14,1991	DRAWN BY: B.M.	CHECKED BY:	NTS NO.: 32D/5,12


2400 E
11900 N
12000 N
2500 E
12100 N
2600 E
684566
684575
Magnetic North
MC.88-472
2400 E
2500E
2600 E
5000
4900
4800
CAS
LITHOLOGICAL LEGEND
OB OVERBURDEN
CAS CASING
METAMORPHIC ROCKS
M1 SCHIST
M3 HYBRID ROCKS
ARCHEAN SEDIMENTARY ROCKS
SEDS SEDIMENTS
S1 CONGLOMERATE
S2 ARKOSE
S3 GREYWACKE
S4 ARGILLITE
CHET CHERT
CHSD CHERTY SEDIMENTS
GS GRAPHITIC SEDIMENTS
GBX GRAPHITIC BRECCIA
SGBX SILICIFIED GRAPHITIC BRECCIA
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ARCHEAN VOLCANIC ROCKS
V1 FELSIC OR INTERMEDIATE VOLCANICS
V2 RHYOLITE
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V6 ANDESITE
V7 BASALT
V7m HIGH MAG BASALT
V8 PYROCLASTIC
V9 TUFF
V10 AGGLOMERATE
V13 ULTRAMAFIC
MAFV MAFIC VOLCANICS
FOB FOLIATED BASALT
FOBm FOLIATED BASALT-MAG
CCS CHLORITE-CARBONATE SCHIST
VSB VARIABLY SILICIFIED BASALT
VSBm VARIABLY SILICIFIED MAG BASALT
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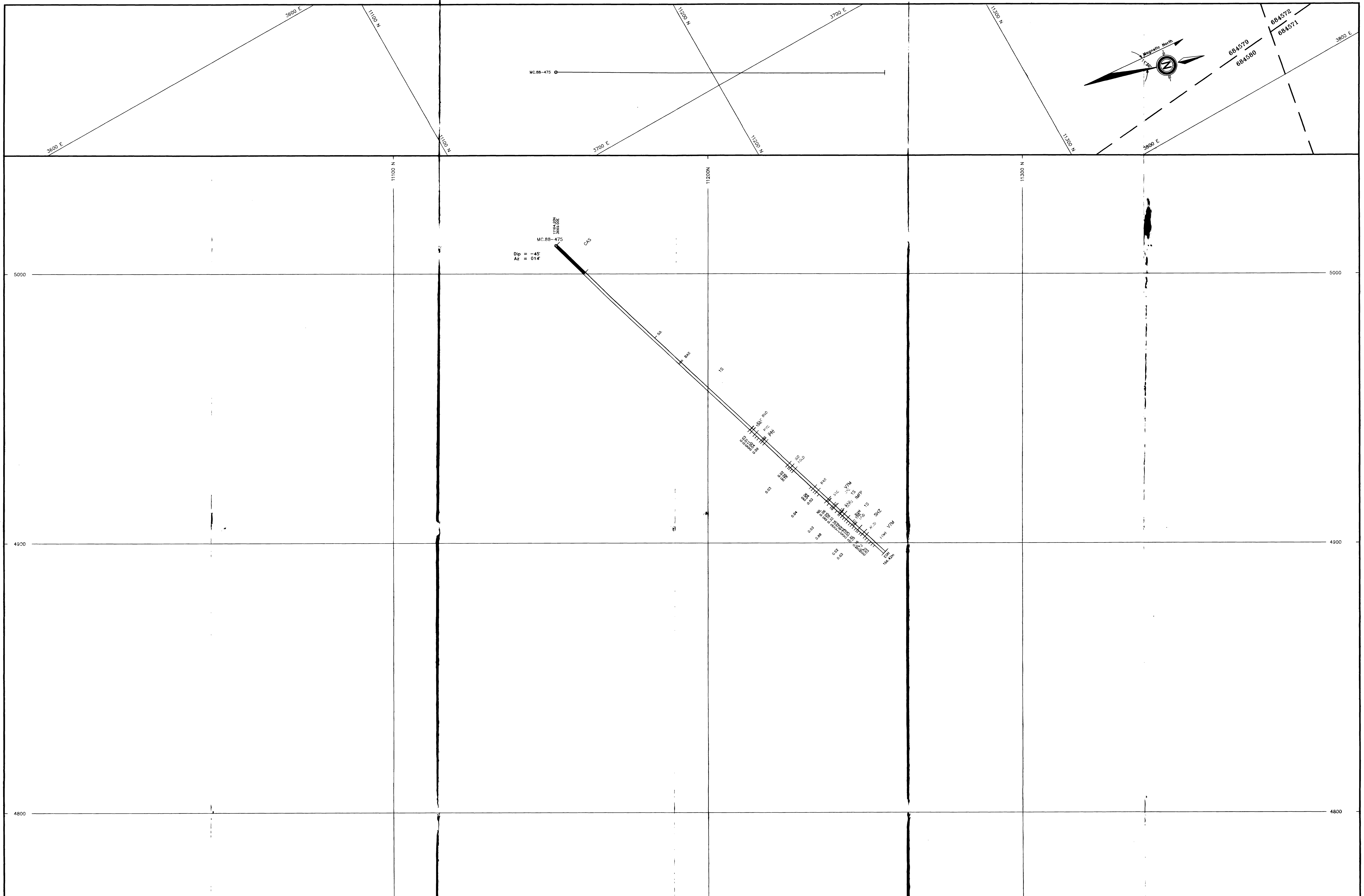
1G GRANITE
1D GRANODIORITE
1M MONZONITE
1S SYENITE
1P PEGMATITE
1X APLITE
1Z GRANOPHYRE
1R FELSIC INTRUSIVE
QFP QUARTZ-FELDSPAR PORPHYRY
M1S MAFIC SYENITE
2D DIORITE
3D DIABASE
3G GABBRO
3L LAMPROPHYRE
4P PERIDOTITE
4Y PYROXENITE
4S SERPENTINITE
4U ULTRAMAFIC
MISCELLANEOUS
FAZ FAULT ZONE
RZ RUBBLE
RZm RUBBLE ZONE-MAG
SHZ SHEAR ZONE
UNK LITHOLOGY UNCERTAIN
VSZ VARIABLY SILICIFIED ZONE (undetermined)
S10-S100 10% to 100% SILICIFIED
S10m-S100m 10% to 100% SILICIFIED-MAG
QVZ QUARTZ VEIN ZONE
CBQV CARBONATE-QUARTZ VEIN
GMFP GHOSTMOUNT FAULT PLANE
IMPF IMPERIAL FAULT PLANE
MCFP McKENNA FAULT PLANE
AMERICAN BARRICK
RESOURCES CORPORATION
SIMS PROPERTY
OBLIQUE SECTION
Mc.88-472
Claim # 684575
(Looking 308°)
Harker Township
SCALE 1:500
10 0 10 20 30 40
METERS
DATE: NOV.14,1991
DRAWN BY: B.M.
CHECKED BY:
NTS NO.: 32D/5,12
240



LITHOLOGICAL LEGEND

OB	OVERBURDEN
CAS	CASING

METAMORPHIC ROCKS

M1	SCHIST
M3	HYBRID ROCKS

ARCHEAN SEDIMENTARY ROCKS

SEDS	SEDIMENTS
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S3	GREYWACKE
S4	ARGILLITE
CHET	CHERT
CHSD	CHERTY SEDIMENTS
GS	GRAPHITIC SEDIMENTS
GBX	GRAPHITIC BRECCIA
SGBX	SILICIFIED GRAPHITIC BRECCIA
VSS	VARIABLY SILICIFIED SEDIMENTS

ARCHEAN VOLCANIC ROCKS

V1	FELSIC OR INTERMEDIATE VOLCANICS
V2	RHYOLITE
V3	TRACHYTE
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V8	PYROCLASTIC
V9	TUFF
V10	AGGLOMERATE
V13	ULTRAMAFIC
MAFV	MAFIC VOLCANICS
FOB	FOLIATED BASALT
FOBm	FOLIATED BASALT-MAG
CCS	CHLORITE-CARBONATE SCHIST
VSB	VARIABLY SILICIFIED BASALT
VSBm	VARIABLY SILICIFIED MAG BASALT

INTRUSIVE ROCKS

1A	LBITITE
1G	RANITE
1D	RANODIORITE
1M	ONZONITE
1S	YENITE
1P	EGMATITE
1X	PLITE
1Z	RANOPHYRE
1R	ELSIC INTRUSIVE
QFP	UARTZ-FELDSPAR PORPHYRY
M1S	AFIC SYENITE
2D	IORITE
3D	IABASE
3G	ABBRO
3L	AMPROPHYRE
4P	ERIDOTITE
4Y	YROXENITE
4S	ERPENTINITE
4U	LTRAMAFIC

MISCELLANEOUS

FAZ	FAULT ZONE
RZ	RUBBLE
RZm	RUBBLE ZONE-MAG
SHZ	SHEAR ZONE
UNK	LITHOLOGY UNCERTAIN
VSZ	VARIABLY SILICIFIED ZONE (undetermined)
S10-S100	10% to 100% SILICIFIED
S10m-S100m	10% to 100% SILICIFIED-MAG
QVZ	QUARTZ VEIN ZONE
CBQV	CARBONATE-QUARTZ VEIN
GMFP	GHOSTMOUNT FAULT PLANE
IMPF	IMPERIAL FAULT PLANE
MCFP	McKENNA FAULT PLANE

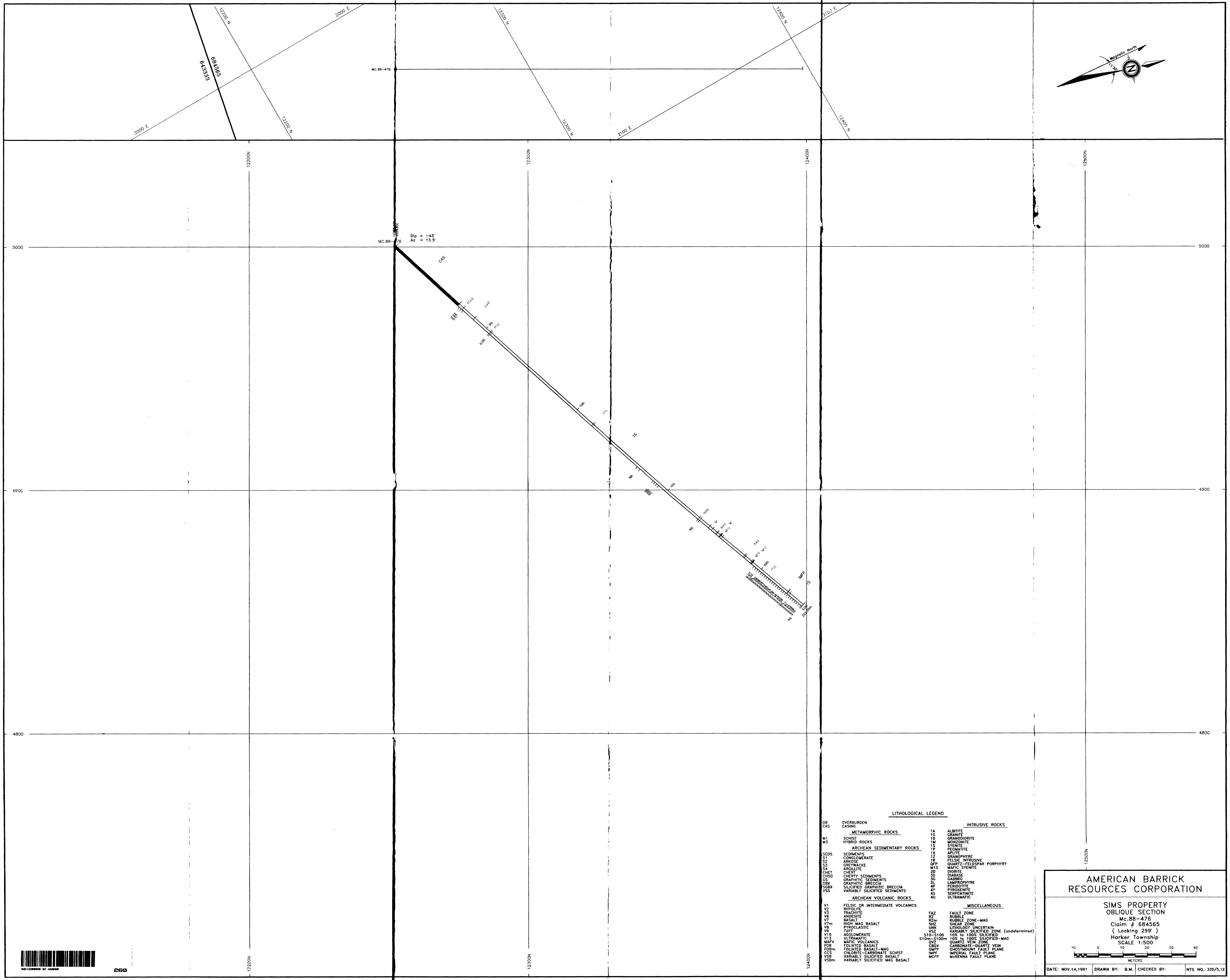
AMERICAN BARRICK
RESOURCES CORPORATION

SIMS PROPERTY
OBLIQUE SECTION
Mc.88-475
Claim # 684579
(Looking 299°)
Harker Township
SCALE 1:500

10 0 10 20 30 40
METERS

DATE: NOV.14,1991	DRAWN BY: B.M.	CHECKED BY:	NTS NO.: 32D/5,12

250


684565
643313
12200 N
2000 E
12300 N
12400 N
2100 E
MC.88-476
Magnetic North
Dip = -43°
Az = 13.5°
MC.88-476
CAS
IS
IMFP
12200N
12300N
12400N
12500N
5000
4900
4800
LITHOLOGICAL LEGEND
OB OVERBURDEN
CAS CASING
METAMORPHIC ROCKS
M1 SCHIST
M3 HYBRID ROCKS
ARCHEAN SEDIMENTARY ROCKS
SEDS SEDIMENTS
S1 CONGLOMERATE
S2 ARKOSE
S3 GREYWACKE
S4 ARGILLITE
CHET CHERT
CHSD CHERTY SEDIMENTS
GS GRAPHITIC SEDIMENTS
GBX GRAPHITIC BRECCIA
SGBX SILICIFIED GRAPHITIC BRECCIA
VSS VARIABLY SILICIFIED SEDIMENTS
ARCHEAN VOLCANIC ROCKS
V1 FELSIC OR INTERMEDIATE VOLCANICS
V2 RHYOLITE
V3 TRACHYTE
V6 ANDESITE
V7 BASALT
V7m HIGH MAG BASALT
V8 PYROCLASTIC
V9 TUFF
V10 AGGLOMERATE
V13 ULTRAMAFIC
MAFV MAFIC VOLCANICS
FOB FOLIATED BASALT
FOBm FOLIATED BASALT-MAG
CCS CHLORITE-CARBONATE SCHIST
VSB VARIABLY SILICIFIED BASALT
VSBm VARIABLY SILICIFIED MAG BASALT
INTRUSIVE ROCKS
1A ALBITITE
1G GRANITE
1D GRANODIORITE
1M MONZONITE
1S SYENITE
1P PEGMATITE
1X APLITE
1Z GRANOPHYRE
1R FELSIC INTRUSIVE
QFP QUARTZ-FELDSPAR PORPHYRY
M1S MAFIC SYENITE
2D DIORITE
3D DIABASE
3G GABBRO
3L LAMPROPHYRE
4P PERIDOTITE
4Y PYROXENITE
4S SERPENTINITE
4U ULTRAMAFIC
MISCELLANEOUS
FAZ FAULT ZONE
RZ RUBBLE
RZm RUBBLE ZONE-MAG
SHZ SHEAR ZONE
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GMFP GHOSTMOUNT FAULT PLANE
IMPF IMPERIAL FAULT PLANE
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RESOURCES CORPORATION
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OBLIQUE SECTION
Mc.88-476
Claim # 684565
(Looking 299°)
Harker Township
SCALE 1:500
10 0 10 20 30 40
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DATE: NOV.14,1991
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260