Government of Canada / Gouvernement du Canada

ACTION REQUEST / FICHE DE SERVICE

TO – À: GARRY

FILE NO. – DOSSIER Nº:

DATE: 5/3/74

FROM – DE: B

	TEL. NO. – Nº DE TEL.	EXT. – POSTE
☐ PLEASE CALL – PRIÈRE D'APPELER		
☐ WANTS TO SEE YOU – DÉSIRE VOUS VOIR ☒ WILL CALL AGAIN – DOIT RAPPELER	DATE	TIME – HEURE
CALL RECEIVED BY – MESSAGE REÇU PAR ▶		

☒ ACTION – DONNER SUITE	☐ APPROVAL – APPROBATION	☐ NOTE & RETURN – NOTER ET RETOURNER
☐ COMMENTS – COMMENTAIRES	☐ DRAFT REPLY – PROJET DE RÉPONSE	☒ NOTE & FORWARD – NOTER ET FAIRE SUIVRE
☐ MAKE FAIRE_____ COPIES	☐ SIGNATURE	☒ NOTE & FILE – NOTER ET CLASSER

ATTACH COPIES ARE C.M.R.

Should read:

CLAIM SHEET 115-J-15

CASINO SILVER MINES.

MOUSE 44 - X35443

AUG. DEC 1969

& JAN, MAR 1970

CGSB STANDARD FORM 12d 7540-21-868-3907 FORMULE NORMALISÉE 12d DE L'ONGC

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Deuce
DIP -90
CORE SIZE NQ 0.0 - 449.0 ft

NORTHING 22,835,163.7
~~LATITUDE~~
EASTING
DEPARTURE 357,597.7
LENGTH
ELEV 4254.8
LENGTH 449.0

DATE COLLARED Oct 13/69 HOLE No. D-1
DATE COMPLETED Oct 26/69 PAGE No. 1 OF 17

Logged by M.P. Phillips

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
0.0	87.0																			Casing 0.0 - 87.0 ft
87.0	90.0	3.0	3.0	2967	.015	Tr	.05	.001	—	W	W	W	W	W	W	W				87.0 Leached Zone - Yukon Group - Qtz-Feldspar Gneiss rapid emission gneiss. Yellowish grey (weathered) fine grained allotriomorphic granular quartz and very weakly altered alter - white plagioclase in some section plagioclase is porphyritic subhedral - euhedral up to 5mm. Fine to occasionally 2mm is observed primary biotite common. Porosity poor. Occasional speck of pyrite
90.0	105.0	15.0	15.0	2968	.025	.005	.05	.001	—	W	W	W	W	W	W	W				
105.0	120.0	15.0	14.2	2969	.025	Tr	.05	.001	—	W	W	W	W	W	W	W				116.0 Rock becomes blue grey with yellowish grey weathering along fractures
120.0	135.0	15.0	6.9	2970	.015	.005	.05	.001	—	W	W	W	W	W	W	W				120.0 - - - - Gradational Yellowish white, fine grained equigranular quartz with minor feldspar and fine grained disseminated fine pyrite

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. D1

DATE COMPLETED _____ PAGE No. 2 OF 11

SAMPLE AND ASSAY DATA										ALTERATION										
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				DESCRIPTION
135.0 ✓	150.0 ✓	15.0 ✓	15.0 ✓	2971 ✓	.120 ✓	.012 ✓	.1	.002	2%	W	W	W	W	W	W	W				PROTOLITH ZONE - HUMMAI GROUP - QT FELDSPAR GNEISS.
																				136.0 — Blueish grey, fine grained quartz rich, minor white to green altered plagioclase with streak blebs, lamina and narrow bands of black biotite which d from flat to right angles to core axis. Disseminated pyrite, minor chalcopyrite and rare molybdenite. Pyrite in stringers habit with limonite alteration sometimes presen Magnetite - sometimes associated with biot and sometime altered to hematite. Quartz exhibits weakly schistose characte
150.0 ✓	165.0 ✓	15.0 ✓	15.0 —	2972 ✓	.145 ✓	.017 ✓	.15	.002	2%	W	W	W	W	W	W	W				161.0 — Streak of biotite rock. Narrow sections with chalcocite coating pyrite. Minor chalcopyrite.
165.0 ✓	180.0 ✓	15.0 ✓	15.0 ✓	2973 ✓	.060 ✓	.005 ✓	.15	.002	2%	W	W	W	W	W	W	W				172.0 — Discrete bands where streaks, blebs and lamina of black biotite become common
180.0 ✓	195.0 ✓	15.0 ✓	15.0 ✓	2974 ✓	.030 ✓	.002 ✓	.15	.002	2%	W	W	W	W	W	W	W				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. D1
DATE COMPLETED _____ PAGE No. 3 OF 7

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				PROTOPE ZONE - YUKON GROUP QTZ-FELDSPAR GNEISS
195.0 ✓	210.0 ✓	15.0 ✓	15.0 ✓	2975 ✓	.005 ✓	.002 ✓	.1	.002	2%	W	W	W	W	W	W	W				In light colored, biotite weak sections, pale green sericite after biotite
210.0 ✓	225.0 ✓	15.0 ✓	15.0 ✓	2976 ✓	.005 ✓	.002 ✓	.1	.002	2%	W	W	W	W	W	W	W				--- 223.0 - limonite absent --- 225.0 --- Biotite becomes common.
225.0 ✓	240.0 ✓	15.0 ✓	15.0 ✓	2977 ✓	.005 ✓	.004 ✓	.1	.002	2%	W	W	W	W	W	W	W				
240.0 ✓	255.0 ✓	15.0 ✓	15.0 ✓	2978 ✓	.005 ✓	.002 ✓	.1	.002	2%	W	W	W	W	W	W	W				--- 251.0 - bottom of biotite --- --- ---

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. D1

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 1 OF 7

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K—SPAR	SERICITE	ARGILLIC			
255.0	270.0	15.0	14.6	2979	.040	.010	.1	.002	2%	W	W	W	W	W	W	M			VOLCANIC ZONE - YUKON GROUP Bleached white, fine grained stained to pale grey, minor weak moderate altered plagioclase Abundant stringer and disseminated pyrite, minor chalcopyrite. Rare hematite.
							.05	.002	1%	W	W	W	W	W	W	W			
																			264.0 Strongly biotitic with narrows bleached altered bands containing abundant pyrite
270.0	285.0	15.0	15.0	2980	.040	.002		.002		W	W	W	W	W	W	W			
							.05		1/4	W	W	W	W	W	W	W			279.0 Dark colored, allotriomorphic medium grained (1-2mm) quartz and pale green altered plagioclase with abundant up to 3mm black biotite after pseudomorph after hornblende. Often strongly calcareous. Pyrite weak.
285.0	300.0	15.0	15.0	2981	.015	.003	.05		1%	W	W	W	W	W	M	M			290.0 Bleached fine grained, granular, quartz, very minor pale green, altered plagioclase. Rare altered bands with biotite after hornblende. Good disseminated pyrite, minor chalcopyrite. Occasional pyrite stringers. Altered plagioclase and sericite.
																			299.0 Dark colored, med. grained with up to 2mm. black biotite bands
																			301.0
300.0	315.0	15.0	15.0	2982	.024	.002	.05		1%	W	W	W	W	W	W	W			309.0 Same and termination of fine grained biotitic dark dominated band. Minor [illegible]

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. D-3

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 5 OF 7

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K—SPAR	SERICITE	ARGILLIC			
315.0 ✓	330.0 ✓	15.0 ✓	11.8 ✓	2983 ✓	.030 ✓	.002 ✓	.1	.002	2%	W	W	W	W	W	W	W			
330.0 ✓	345.0 ✓	15.0 ✓	15.0 ✓	2984 ✓	.010 ✓	.006 ✓	.1	.002	2.	W	W	W	W	W	W	W			
345.0 ✓	360.0 ✓	15.0 ✓	15.0 ✓	3415 ✓	.025 ✓	.003 ✓	.1	.002	2	W	W	W	W	W	W	W			
360.0 ✓	375.0 ✓	15.0 ✓	75.0 ✓	3416 ✓	.020 ✓	.002 ✓	.1	.002	2.	W	W	W	W	W	W	W			

PROTOPE ZONE - YUKON GROUP

QTZ - FELDSPAR GNEISS

DESCRIPTION

Gneissic, fine grained quartz, minor alt pale green plagioclase and blue biotite. Disseminated pyrite often in fine stringers. Occ. 1cm pyrite stringers.

Fractures sometimes contain clay/chlorite material.

— 341.0 — rock colored, medium gr. (1/2-3 mm) with strong biotite.

— 345.0 — — — — —

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. D-
DATE COMPLETED _____ PAGE No. 6 OF 7

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
375.0 ✓	390.0 ✓	15.0 ✓	15.0 ✓	3417 ✓	.015 ✓	.004 ✓	.05	.002	2%	W	W	W	W	W	W	W		PROTORE ZONE - YUKON GROUP? QTZ-FELDSPAR GNEISS
390.0 ✓	405.0 ✓	15.0 ✓	12.1 ✓	3418 ✓	.015 ✓	.004 ✓	.05	.002	2	W	W	W	W	W	W	W		--- 398.0 --- Wisps and laminations of fine black biotite known common
405.0 ✓	420.0 ✓	15.0 ✓	11.4 ✓	3419 ✓	.012 ✓	.021 ✓	.05	.002	2	W	W	W	W	W	W	W		
420.0 ✓	435.0 ✓	15.0 ✓	14.6 ✓	3420 ✓	.030 ✓	.018 ✓	.05	.002	2	W	W	W	W	W	W	W		

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. D1
DATE COMPLETED _____ PAGE No. 7 OF 7

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
435.0	449.0	14.0	14.0	3421	.035	.010	.05	.002	2.	W	W	W	W	W	W	W			PROTORE ZONE - YUKON GROUP QTC-FELDSPAR GNEISS 430 Irregular bands of mod and biotite rich become common. 444.0 449 End of hole.
87.0	120.0	33.0	32.2		.027	.001													
120.0	449.0	329.0	310.4		049	.007													

Core Recovery $\frac{342.0}{362.0} = \frac{94.5}{}$

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Deuce
DIP -90°
CORE SIZE NQ 6.0 - 404.0
BQ 404.0 - 522.0

NORTHING 22,833,733.2
LATITUDE
EASTING
DEPARTURE 357,299.8
LENGTH
ELEV 4486.7'
LENGTH 522.0

DATE COLLARED OCT 25/69 HOLE No. D2
DATE COMPLETED NOV 1/69 PAGE No. 1 OF 3

Logged by M.R. Phillips

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
00 ✓	61.0 ✓																		Casing 0 - 61.0
61.0 ✓	75.0 ✓	14.0 ✓	8.5 ✓	3433 ✓	.045 ✓	.019 ✓	.05	.002	1	W	W	W	W	W	++ M	W			61.0 Dark colored Protore Zone - Granodiorite 63.5 Light gray, medium grad, allotriomorphic granular quartz, white-pale green altered plagioclase and weak bleached biotite. Carbonate present along hairline fractures. Rare narrow, gtz. filled fractures with minor molybdenite. Disc. pyrite, rarely stringers with rare chalcopyrite
75.0 ✓	90.0 ✓	15.0 ✓	13.2 ✓	3435 ✓	.040 ✓	.002 ✓	.05	.002	1	W	W	W	W	W	+ W	W			79.0 Dark colored, mottled, med-coarse grained allotriomorphic granular quartz and white generally dark green altered plagioclase and moderate strong alteration of black biotite. Pyrite present as stringers with narrow weak envelope of alteration. Carbonate in fractures.
90.0 ✓	105.0 ✓	15.0 ✓	7.2 ✓	3436 ✓	.035 ✓	.005 ✓	.05	.002	1	W	W	W	W	W	W	W			99.0 Lighter colored, with increasing pervasive alteration resulting in decreasing biotite. Carbonate common along fractures.
										W	W	W	W	W	W/M	W			
105.0 ✓	120.0 ✓	15.0 ✓	11.5 ✓	3437	.060 ✓	.019 ✓	.05	.002	2-3	W	W	W	W	W	W	W			105.0 Light to dark colored depending upon amount of biotite, mottled, med-fine - coarse (5mm) allotriomorphic-granular granodiorite with numerous white weakly altered plagioclase, quartz and moderate-strong biotite after hornblende. Disseminated pyrite with numerous steep dipping fractures with pyrite and carbonate.

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. D2

DATE COMPLETED _____ PAGE No. 2 OF 3

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%.	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				PROTORE ZONE - GRANODIORITE
120.0 ✓	135.0 ✓	15.0 ✓	15.0 ✓	3456 ✓	.030 ✓	.003 ✓	.05	.002	2-3	W	W	W	W	W	W	W				Biotite appears to be pilotaxitic and often appears to be altered pseudomorphic after hornblende. Biotite makes up 20-40% Narrow bands with fine ground strong biotite
135.0 ✓	150.0 ✓	15.0 ✓	2.3 ✓	3457 ✓	.003 ✓	.003 ✓	.05	.002	2-3	W	W	W	W	W	W	W				In parts alteration slightly better Fracture planes with gouge and slickensides sometimes present.
150.0 ✓	165.0 ✓	15.0 ✓	14.1 ✓	3457 ✓	.035 ✓	.005 ✓	.05	.002	2-3	W	W	W	W	W	W	W				
165.0 ✓	180.0 ✓	15.0 ✓	13.5 ✓	54-3 ✓	.030 ✓	.003 ✓	.05	.002	2-3	W	W	W	W	W	W	W				

--1730--
See next page

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. D2.

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 3 OF 3

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
180.0 ✓	195.0 ✓	15.0 ✓	10.9 ✓	3430 ✓	.030 ✓	.002 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M			
195.0 ✓	210.0 ✓	15.0 ✓	14.0 ✓	3431 ✓	.025 ✓	.017 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M			
210.0 ✓	225.0 ✓	15.0 ✓	15.0 ✓	3432 ✓	.035 ✓	.012 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M			
225.0 ✓	240.0 ✓	15.0 ✓	11.6 ✓	3433 ✓	.030 ✓	.021 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M			

DESCRIPTION

PROTORE ZONE - GRANODIORITE

light to dark greenish grey medium (1-4mm) occasionally coarse (6mm) grained, hypidiomorphic granular intact & gtz, white-pale grey to dark green weakly altered plagioclase and -moderate black biotite (2mm) which in more altered tends has been bleached pale grey and altered to sericite. Biotite appears to be pseudomorph after mafic? Disseminated and abundant fine-strong pyrite with very little or no narrow gtz alteration. Pyrite 2-3%

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. D2
DATE COMPLETED _____ PAGE No. 4 OF 8

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
240.0 ✓	255.0 ✓	15.0 ✓	13.4 ✓	3434 ✓	.020 ✓	.017 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M				PROTORE ZONE - GRANODIORITE
255.0 ✓	270.0 ✓	15.0 ✓	13.9 ✓	3435 ✓	.070 ✓	.113 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M				
270.0 ✓	285.0 ✓	15.0 ✓	9.0 ✓	3436 ✓	.040 ✓	.069 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M				
285.0 ✓	300.0 ✓	15.0 ✓	15.0 ✓	3437 ✓	.040 ✓	.005 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. D2
DATE COMPLETED _____ PAGE No. 5 OF 8

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
300.0 ✓	315.0 ✓	15.0	15.0	3435 ✓	.005 ✓	.002 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M				PROTORE ZONE - GRANODIORITE
315.0 ✓	330.0 ✓	15.0 ✓	15.0 ✓	3436 ✓	.050 ✓	.005 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M				
330.0 ✓	345.0 ✓	15.0	9.2 ✓	3437 ✓	.035 ✓	.007 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M				
345.0 ✓	360.0 ✓	15.0 ✓	14.8 ✓	3438 ✓	.030 ✓	.026 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. D2.
DATE COMPLETED _____ PAGE No. 6 OF 8

SAMPLE AND ASSAY DATA										ALTERATION											DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC					
360.0 ✓	375.0 ✓	15.0 ✓	15.0 ✓	3442	.145 ✓	.055 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M					DIATREME ZONE - GRANODIORITE
375.0 ✓	390.0 ✓	15.0 ✓	15.0 ✓	3443	.025 ✓	.021 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M					
390.0 ✓	405.0 ✓	15.0 ✓	15.0 ✓	3444	.055 ✓	.012 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M					
405.0 ✓	420.0 ✓	15.0 ✓	14.8 ✓	3445 ✓	.030 ✓	.012 ✓	.05	.002	2-3	W	W	W	W	W	W	W/M					

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. D2

DATE COMPLETED _____ PAGE No. 7 OF 9

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
420.0 ✓	435.0 ✓	15.0 ✓	15.0 ✓	3446 ✓	.075 ✓	.012 ✓	.1	.01	3	W	W	W	W	W	W	W/M			
435.0 ✓	450.0 ✓	15.0 ✓	13.4 ✓	3447	.030 ✓	.005 ✓	.1	.01	3	W	W	W	W	W	W	W/M			
450.0 ✓	465.0 ✓	15.0 ✓	9.0 ✓	3448	.030 ✓	.017 ✓	.1	.01	2%	W	W	W	W	W	W	W/M W			
465.0 ✓	480.0 ✓	15.0 ✓	14.6 ✓	3449	.060 ✓	.010 ✓	.05	.002	2	W	W	W	W	W	W	W			

DESCRIPTION

PROTORE ZONE - GRANODIORITE

Greenish gray, medium grained hypidiomorphic granular granodiorite with gls. white - pale green rarely dark green altered plagioclase minor bleached biotite 1-5%. Abundant pale green bleached and sericitized biotite books. Pyrite disseminations and

Narrow bands of light colored alteration

- 456.5 - mud - fault?
- 459.0 - 3 1/2 ft. fault gouge

Dark green plagioclase common

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. D2
DATE COMPLETED _____ PAGE No. 3 OF 3

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				PROTORE ZONE - ADVANCED ARGILLIC
480.0 ✓	495.0 ✓	15.0 ✓	14.8 ✓	3450 ✓	.040 ✓	.024 ✓	.05	.002	2	W	W	W	W	W	W	W				480.0 – – – Minor biotite becomes common 485.0 – bottom of abundant dark green plagioclase and becomes quartzrich
495.0 ✓	510.0 ✓	15.0 ✓	15.0 ✓	3515 ✓	.055 ✓	.007 ✓	.05	.002	2	W	W	W	W	W	W	W				498.0 – – – bottom of fine biotite. Med green weak Coarse quartz and fine-med 2mm dark green plagioclase with partly oriented books of biotite
510.0 ✓	522.0 ✓	12.0	11.5 ✓	3516 ✓	.090 ✓	.014 ✓	.05	.002	2	W	W	W	W	W	W	W				520.0 – Strong fracturing with good alteration Carbonate common 522.0 End of hole.
								ASSAY		DATA										
61.0	522.0	461.0	399.0		049	.018														Core Recovery $\frac{399.0}{461.0} = 86.6$

P6-65° 3600 S 2750 E

CORE SIZE NQ 0.0-273.5 ft DATE COLLARED JULY 24/69
DATE COMPLETED JULY 29/69

North 22,836,601.3
East 365,475.0
Elev. 3879.0
Azimuth -276°-30'
Dip -65°

Page 1

LOGGED BY M.P Philips

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perft.	∠ to core Axis	Biotite	Sericite Qtz-Sc	K-Spar	Argillic Kaolin-Clay	Chlorite	DESCRIPTION
0	53																	Casing 0-53 ft.
53																		LEACHED ZONE - MIXED QTZ DIORITE
53.0	68.0	14.5	15.0	691	0.075	TR	.1		W	W		R	W	W		I		f.g. Qtz Diorite Cream colored, fine grained quartz granules in an altered feldspar matrix. Feldspars range from white clay to cream colored, moderately calc. Rare biotite altered to chlorite beads. Narrow breccia & 4 bands with some silicification. Mineralization consists of strong pervasive red brown limonite to 62 ft. Thereafter in fractures with limonite and pyrite and disseminated.
67.5																		ENRICHED ZONE - MIXED QTZ - DIORITE
68.0	83.0	13.5	15.0	692	0.240	.004	.15		M W W	W W W		R R	W W W	W W W		I I I		Silicification mineral replacement. Mod diss py, chl, alt to py and minor cpy. Calcite veining more common, not cpy along fractures. 71.0 76.0 Fine, abundant specified fracture pyrite quartz chlorite (80%) after biotite with gtz-sericite alteration in bottom 1.5 ft.
83	98	15.0	15.0	693	0.510	TR	.4		W M	W M	M	R R	W	W S M		I I+ +II+		87.0 Correlation and blue clay bands caught core? 90.5 91.5 Quartz-sericite alt. chalcopy up to .1" around pyritic fractures. Well mineralized and narrow. Decrease 95.0 See next page Diss. & fracture py, common limonite Cb. & cpy, becomes common
98																		

P6

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perp. to core Axis	Biotite	Sericite	K-Spar	Kaolin	Chlorite	DESCRIPTION
98.0	113.0	15.0	15.0	694	0.425	0.004	.3		W	M	S	R	W	M		I	ENRICHED ZONE — MINED Well fractured with abundant slickensided fractures with py, ch, cpy generally along fract and minor diss. Narrow chlorite bands.
									W	W	W	E	W	W		I	109.0 Abundant dark grey chlorite/sericite 10 or greater — minor white clay after plagioclase
113.0	128.0	15.0	15.0	695	.209	TR	.1		W	W	W	R	W	W		I	126.2 — 25° to core axis — Grey white — fine to
128.0	143.0	15.0	15.0	696	0.225	0.002	.1		M	M	M	R		M		H	cream altered K-Spars. Cream K-Spars Qtz. str. alt. up to 0.5 ft generally common. Fract, mainly drag very fine py, cpy bands. Rutile - rarely cubes mainly dodec
143.0	158.0	15.0	15.0	697	0.66	0.013	.7		M	M	S	R		S		H	150.0 Fract and brecciated strong Qtz-K-Spar alteration abundant Chlorite, — reddish brown

Y

DESCRIPTION

BRECCIATED ZONE - MIXED QTZ DIORITE

157.0

175.5

191.0

198.5

PROTORE ZONE - MIXED QTZ DIORITE

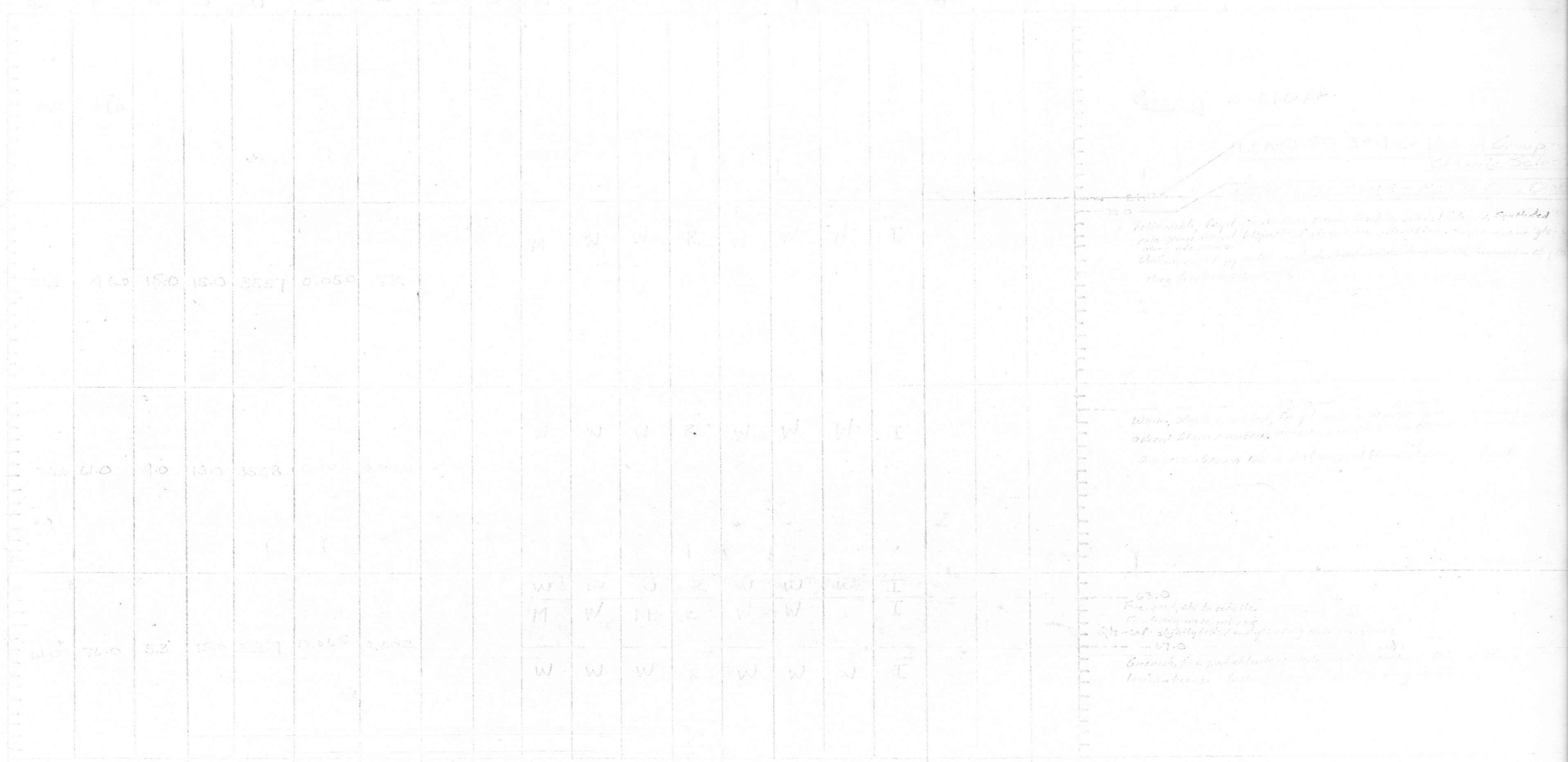
207.0

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	c-to core Axis	Biotite	Sericite	K-Spar	Kaolin	Chlorite	DESCRIPTION
218.0	233.0	15.0	15.0	3553	0.230	0.019												PROTORE ZONE - MIXED QTZ - DIORITE Towards bottom ca. only in fractures and disc pyrite with minor chalcopyrite
233.0	248.0	14.3	15.0	3554	0.285	0.075												
248.0	263.0	15.0	15.0	3555	0.185	0.002												
263.0	278.5	9.0	10.5	3556	0.240	0.043												273.5 End of hole - Hole caved - rods stuck, unable to remove

SUMMARY

53.0	143.0	88.0	90.0	.279	.002
143.0	248.0	104.3	105.0	.419	.025
53	248.0	192.3	195.0	.343	.016

= 98.1 %



NQ 107.
BQ – 107 – end.

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Pyrite No.	c-to core Axis	Biotite	Ortho-Sericite	K-Spar	Argillic Kaolin	Chlorite			DESCRIPTION
																				LEACHED ZONE – MIXED QTZ. DIORITE
76.0	91.0	5.2	15.0	3560	0.035	TR			M	M	M	R	W	W	W	I				80.5 – Alternating bands of white, fogd granules in a yellow-white altered feldspar matrix with occ dk brn specks to sericite and black speckled med gnd of porphyritic feldspar matrix with fg. quartz and abundant chlorite & biotite. Red brown & yellow brown lim on fractures
91.0	106.0	4.3	15.0	3561	0.035	0.002			M	W	M	R	W	W	W	I				
106.0	121.0	14.5	15.0	3562	0.025	0.006			M	W	M	R	W	W	W	I				107.0 – White, fogd quartz granules often interpenetrating recrystallization in a white alt feldspar matrix. Weak-mod qtz veining up to 0.1 ft. Some fract show alt halo to quartz grains in a grey soft alt feldspar matrix. Narrow breccia bands to 0.2 ft. Rare black alt specks. Yellow brown lim along fract. Rare epy and cb. Rare qtz vein + moly.
121.0	136.0	10.5	15.0	3563	0.050	0.015			M	W	M	R	W	W	W	I				127.0 – pyrite starts to appear

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite – 2nd	Sericite Qtz–Ser	K-Spar	Kaolin	Chlorite	DESCRIPTION
136.0	151.0	3.7	15.0	3564	0.050	0.021			M	W	M	R	W	W	W	I		LEACHED ZONE – MIXED QTZ DIORITE
																		149.0 Transitional – becomes coarser grained – very fine biotite and becomes more with pale green chlorite–sericite appearing
151.6	166.0	15.6	15.0	3565	0.125	0.021			W	W	M	R	W	W	W	I		156.0 ENRICHED ZONE – MIXED QTZ DIORITE
									W	W	W	W	W	W	W	I		White, black speckled, soft and evenly med grained, subporphyritic altered feldspar (70%) and fine granular quartz with abundant chlorite after biotite. Narrow fine grained bands sometimes present. Weak gtz veining. Weak pyrite, traces chalcopy. Some molyb gtz filled fract.
																		164.0 Highly silicified
166.0	181.0	15.0	15.0	3566	0.290	0.006			M	M	W	R	W	M	W	I		166.0
									W	W	W	R	W	W		I		174.0 Fine grained grey cream alt. feld. matrix. Minor irregular bands of chlorite/bio. Mod. silicification. Trace pysch.
																		178.2
181.0	196.0	4.5	15.0	3567	0.265	0.002			W	W	W	R	W	W	W	I		181.0 Black and very strong chloritized biotite
									M	M	W	R	W	M	W	I		184.0 nil
									W	W	W	R	W	W	W	I		188.0 Mainly fresh, patchy chloritized biotite
									M	M	W	R	W	M	W	I		194.2 See Page 4 for description

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est. MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite (Clay)	K-Spar	Kaolin/Argillic	Chlorite			DESCRIPTION
																				ENRICHED ZONE - MIXED QTZ DIORITE
196.0	211.0	15.0	15.0	3568	0.210	0.015			M	M	W	R	W	S	W	I				Yellowish, chloritized quartz granules interspersed throughout matrix in a dull yellow, altered feldspar matrix of fine mid ground subhedral porphyritic plagioclase (andesine) laths. Strong Qtz-alteration envelopes up to 0.3 cm wide, 0.05 cm wide along fractures. Some chloritized biotite in coarser ground section. Mineralization as pyrite fracture filling, partly limonite and minor ch. Pervasive dissem. py laps and very fine ch. This is alt. ch. rich section - saved - good example.
211.0	226.0	15.0	15.0	3569	0.165	0.015			M	M	W	R	W	S	W	I				215.0 — Transitional - strong silicification and Qtz-V
									W	W	W	R	W	W	W	I	++			219.0 — Light to dark brown, hard, gradually becoming softer, fine grained rock containing quartz and pyrite - clasts, alt. feldspar and abundant biotite. Crystals and often 1-5 mm. phenocrysts alt. feldspars along weak, subparallel planes. Irregular, narrow limonite-stained quartz veinlets and fine grained quartz in a yellow altered feldspar matrix. Qtz veinlets silicification bands, stained quartz filled fractures.
226.0	241.0	15.0	15.0	3570	0.130	0.017			W	W	W	R	W	W	W	I				Weak diss. py, cpy and cc. Weak-med fine stringers pyrite partly alt. to limonite. This shows - K-spar - Qtz flooding - edges and along schistosity planes. 230.6 Irregular altered rock bands with Qtz veins. 232.6. 234.2 Qtz - alt. feldspar. 235.3. 241.0
241.0	256.0	11.5	15.0	3571	0.075	0.023			W	W	W	R	W	W	W	I				PROTORE ZONE - MIXED QTZ DIORITE
									M	M	W	R	W	W	W	M	++			Creamy colored, fine grained (1-2 mm) quartz and creamy altered feldspar (K-Spar?) rock with veinlets 2 mm wide at 45° alternate (1-2 cm) moderate pale green chlorite and inclusions of black chloritic rock. Weak diss. py and Stringers pyrite and some galena. 253.6

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2 %	Est. Cu%	Est MoS_2 %	Silicification	Qtz Veining	Perf.	Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
									M	M	W	R	W	W	W	M		PROTORE ZONE – MIXED QTZ DIORITE
251.0	271.0	12.5	15.0	3572	0.130	0.025			W	W	W	R	W	W	W	I	+++	259.0 — As previous
																		263.0 — 263 — fine-grained As previous with more alt feldspar. Dark yellow green mosaic of rich in alt yellow feldspar quartz and chlorite showing poorly developed schistosity. Weak qtz stockworking with narrow alt bands. Weak disc py and cpy mineralisation. A few narrow pyritic fractures
271.0	286.0	14.0	15.0	3573	0.105	0.025			W	W	W	R	W	W	W	I		
									W	W	W	R	W	M	W	S		282.0 — Core highly broken, Numerous narrow alt-qtz vein with qtz-ser bands.
286.0	301.0	13.0	15.0	3574	0.155	0.021			+	+	+	R	W	W	W	M.	+	293.0 — Slightly Brecciated, cross gard, schistosity absent and fine phenocrysts of orange alt feldspar appear fine (<1mm) Fine grained, weak textured quartz-carbonate radial veining slightly alt feldspar phenocrysts and abundant chlorite. Occ narrow alteration band not to qtz vein. Minor py, cpy and tr moly
301.0	316.0	15.0	15.0	3575	0.120	0.015			W	W	W	R	W	W	W	M.		

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Pervasive	Elec coarse Anhe	Biotite	Sericite Alteration	K-Spar	Kaolin Alteration	Chlorite		DESCRIPTION
																			PROTORE ZONE - MIXED QTZ. DIORITE
316.0	331.0	15.0	15.0	3576	.140	.010			W	W	W	R	W	W	W	M			- - - gradually becomming coarse grad - - -
																			- - Rock highly broken - -
																			- - 331.7 - -
331.0	346.0	15.0	15.0	3577	.080	.005			S	W	W	R	W	M	W	I		334.7	Yellowish white - f-med grained (1-5mm, avg) weakly quartz granules (40%) yellow altered (40%) sometimes subedral porphyritic (3mm) Sometimes qtz infer joints to form pseudo vuglets. Strong silicification envelopes upto 0.3% Minor diss and weak stringer pyr very minor spy mineralization. Few only faults associated with qtz veins
																			- - 331.7 - - Yuten Group: strongly chloritic schist - - 342.0 - -
346.0	361.0	15.0	15.0	3578	.115	.007			S	W	W	R	W	M	W	I			
																			- - 357.0 Starts to become coarse grad - - -

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	<10 core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite
376.0	391.0	15.0	15.0	3580	.080	.017	<.1		W	W	W	R	W	S	W	S	
391.0	406.0	15.0	15.0	3581	.140	.020			W	W	W	R	W	S	W	S	
406.0	421.0	15.0	15.0	3582	.190	.020			W	W	W	R	W	S	W	S	
421.0	426.0	15.0	15.0	3583	.130	.015			W	W	W	R	W	S	W	S	

DESCRIPTION

BROTDRE. ZONE - MIXED QTZ DIORITE

Whitish yellow, medium grained, holocrystalline, equigranular quartz (50%) and yellow - pale green subhedral altered plagioclase (10%) and minor Moderate basket of med - pale green chlorite Poor qtz veining and fracturing. Narrow pale green sericite alteration seems present along fractures. Rare tourmaline

Disseminated fracture filling py. → Rare disc cpy, generally more common on fractures. Molybdenite in sections which are slightly more quartz rich.

-398.0 - increase in disc cpy: py. > cpy. → chalcocite appears replacing

-402 - end of basically rock

-407.0 - Strong gtz-ser alteration

-408.7 -

-427.5 - - Pyritic fracture coated thin film cc.

-429.6 - -

-431.5 - - Abundant chl in fractured quartz with feldspar matrix

-433.5 - -

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2 %	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perth.	c to core Axis	Biotite	Sericite Alteration	K-Spar	Kaolinite Alteration	Chlorite		
436.0	451.0	15.0	15.0	3584	.110	.012			W	W	W	R	W	S	W	S			
451.0	466.0	15.0	15.0	3585	.070	.015	.1		W	M	W	R	W	W	W	I			
466.0	481.0	15.0	15.0	3586	.120	.020	.05		W	W	W	R	W	W	W	M		½	
481.0	496.0	14.8	15.0	3587	.125	.015			W	W	W	R	W	W	W	I		½	

DESCRIPTION

PROTORE - MIXED QTZ DIORITE

441.0' – fine grained chloritic rock

442.1

fine grained

448.5 – narrow bands of chloritic rock appear

Fine grained – more QS alteration

450.0ft – – –

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perft.	c to core Axis	Biotite	Sericite Qtz-ser	K-Spar	Kaolin Argillic	Chlorite	Pyrite
496.0	511.0	15.0	15.0	3588	.120	.007			W	W	W	R	W	M	W	M		
511.0	526.0	15.0	15.0	3589	.100	.022			W	W	W	R	W	W	W	M	+	
526.0	541.0	15.0	15.0	359	.160	.092			W	W	W	R	W	W	W	M		
541.0	554.5	13.5	13.5	3591	.050	.047			W	W	W	R	W	W	W	M		

DESCRIPTION

PROTORE - GRANODIORITE

499.0 - - -

bands up to 0.5 ft of fine grained quartz-sericite alteration appear with qtz veining & pyrite stringers

- - - 503 - - -

Yellowish grey, fine grained granite granular in yellow, altered feldspar matrix (porphyritic) Stockwork of fine quartz veining (1 mm 4 mm) occasionally 25 mm wide with good quartz-sericite alteration. Scattered patches of fine ~~pyrite~~ pyrite determinative

Pyrite ½° Tr cpy. Some moly in qtz veins

- - - 514.0 - - - -

Yellowish grey, holocrystalline, medium grained (1-4 mm) quartz and subhedral - anhedral yellow, generally pale green (sericite) altered feldspars. Weak qtz veining, qtz grains mildly mixed to produce inspirent vein sets. Occ. distinct qtz alteration on the pyrite fracture and qtz veins. Dark green chlorite biotite weak and very irregular distribution. Appears to be pervasive qtz-sericite alteration.

Occ narrow pyrite stringers and 1% disseminated pyrite. Very minor cpy and disseminated moly in qtz veins

- - - 537.0 moly stringers in qtz veins

554.5 End of hole.

Summary

31.0	151.0	82.8	120.0		.051	.006
151.0	403.0	378.8	403.0		.134	.619

Core Recovery 461.6 / 523.5 = ... %

Robbie - figure this out.

P10 DATE STARTED - AUG 10/69
DATE COMPLETED AUG 27/69
LENGTH 1004.0

Logged by M.P. Phillips

Northing 22,835,413.5
Easting 364,208.6
Elev. 4468.8
Length 1004 ft
Core Size NQ - 0.0 - 1004.0

Page 1

Dip -90°

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est. MoS_2 %	Silicification	Qtz Veining	Pyrite	Vein to core Axis	Biotite	Sericite	K-Spar	Kaolin	Chlorite	DESCRIPTION
																		Move up 15 ft Casing 0.0 - 7.0 ft
0.0	7.0																	
7.0	15.0	8.0	8	3628	.030	.003	.02	.00	W	W	M	R	W	W	W	S		LEACHED ZONE - GRANODIORITE Fine 0.5 - 5mm qtz phenocrysts in yellowish white aplitic altered feldspar ground mass. Qtz phenocrysts often rimmed by secondary silica. Weak qtz veining up to 2 mm qtz veins one type along some fractures. Rare stained black pyl phenocrysts some fractures Good stockwork fracture network with some brecciation at junction of fractures. Vein boundaries irregular. Some fracture planes and irregularly disseminated fracture controlled (?) pyrite. Weak weakly to other unspecified (?) fracture some fractures open some with coating Weak - moderate generally fine zones of stockwork pyrite veining some veins in lower qtz veins
15.0	30.0	15.1	15.0	3629	.035	Tr	.02	.001	W	W	M	R	W	W	W	S		
30.0	45.0	12.2	15.0	3630	.050	.005	.02	.001	W	W	M	R	W	W	W	S		~35.5 Good qtz veinlets alteration envelopes ~37.7

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Per'th	∠ to core Axis	Biotite	Sericite—Alt—Ser	K-Spar	Kaolin Argillic	Chloritic	DESCRIPTION
																		LEACHED ZONE - GRANODIORITE
45.0	60.0	15.0	15.0	3631	.035	.007	.02	.001	W	W	M	R	W	W	W	S		
60.0	75.0	11.3	15.0	3632	.075	.002	.03	.001	W	W	M	R	W	W	W	S+		64.5 Strong fine black speckling-fragments of the magnetite, some bleached limonite post top contact 69.0
75.0	90.0	4.5	15.0	3633	.045	.002	.03	.001	W	W	M	R	W	W	W	S		
90.0	105.0	9.0	15.0	3634	.035	.002	.03	.001	W	W	M	R	W	W	W	S		
									W	M	I	R	W	W	W	I		100.0 See next page

P10

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2 %	Est. Cu%	Est MoS_2 %	Silicification	Qtz Veining	Perth.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite			DESCRIPTION
																				LEACHED ZONE - GRANODIORITE after HWY
105.0	120.0	13.9	15.0	3635	.085	tr.	.05	.001	W	M	I	R	W	W	W	I				in very fine to med with abundant black hematite dissemination and fracture filling. Generally more even grained and intense qtz-ser alteration. Fine grained. In some ways at junction of fractures a sooty red to limonite is present
120.0	135.0	6.2	15.0	3636	.065	.003	.05	.001	W	M	I	R	W	W	W	I				
135.0	150.0	13.0	15.0	3637	.075	.003	.05	.001	W	M	I	R	W	W	W	S				132.0 ± (60%) rarely ± 5mm aplastic Qtz granules (as 1 mm up to 3mm) in a fine grained altered feldspar (sericite) groundmass. Weak stockwork fine qtz veining fairly frequent. Intersected with occasional cavities at qtz and along fracture. Up to 5% black hematite as disseminations and along fractures and orange brown limonite (rarely pyrite cubes ± 1mm) Weak thin mixed leaf (Colour 10 YR 6/2) light brown-phlogopite porphyritic In coarse weathered core sections reddish brown limonite common Dark red brown stained limonite-hematite
150.0	165.0	13.8	15.0	3638	.050	.010	.05	.01	W	M	I	R	W	W	W	S				

P10

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perth.	c to core Axis	Biotite	Sericite (Hydro-ser)	K-Spar	Kaolin (Argillic)	Chlorite	DESCRIPTION
																		LEACHED ZONE – GRANODIORITE
165.0	180.0	13.5	15.0	3639	.030	.009	.05	.01	W	M	I	R	W	W	W	3		
180.0	195.0	5.7	15.0	3640	.090	.002	.05	.01	W	M	I	R	W	W	W	S		
195.0	210.0	15.0	15.0	3641	.095	tr	.05	.01	W	M	I	R	W	W	W	S		209.0 Rock flooded with hydrocarbons
210.0	225.0	15.0	15.0	3642	.055	tr	.05	.01	W	M	I	R	W	W	W	S		217.0 – tourmaline in veins & veinlets becomes common

P 10

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Per/Ft.	⊥ to core Axis	Biotite	Sericite % - S	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		LEACHED ZONE - GRANODIORITE
225.0	240.0	15.0	15.0	3643	.095	tr.	.05	.01	W	M	I	R	W	W	W	S		235.0 Small slabs of black biotite become common 236.5 ± Strong fracturing with black stains, red brown, and reddish brown limonite staining
240.0	255.0	15.0	15.0	3644	.030	.014	.05	.01	W	M	I	R	W	W	W	S		244.0
255.0	270.0	15.0	15.0	3645	.030	.017	.05	.01	W	M	I	R	W	W	W	S		260.0 First pyrite appears 269.0 Pyrite stringers appear and lies pyrite becomes more common
270.0	285.0	14.8	15.0	3646	.050	.018	.05	.01	W	M	I	R	W	W	W	S		Fine crystal pyrite disseminated in bands.

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Py/Ft	Vein conc Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	Py %	DESCRIPTION
																			LEACHED ZONE - GRANODIORITE
285.0	300.0	14.5	15.0	3647	.055	.007	.05	.01	W	M	I	R	W	W	W	S		½°	~297.6 0.1mm beds of black biotite common ~298.7
300.0	315.0	15.0	15.0	3648	.100	.070	.1	.01	W	M	I	R	W	W	W	S		½%	
315.0	330.0	15.0	15.0	3649	.110	.025	.1	.01	W	M	I	R	W	W	W	S		½	
330.0	345.0	15.0	15.0	3650	.080	.017	.1	.01	W	M	I	R	W	W	W	S		½%	

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2 %	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	Axis core Axis	Biotite	Sericite Qtz. Ser	K-Spar	Kinetic Aplitic	Chlorite	Est Pyr%	DESCRIPTION
315.0	360.0	14.0	15.0	3651	.110	.040	.1	.01	W	M	I	R	W	W	W	O			LEACHED ZONE - GRANODIORITE
360.0	375.0	15.0	15.0	3652	.170	.033	.2	.01	W	M	I	R	W	W	W	S		2%	ENRICHED ZONE - GRANODIORITE 360.0 – Abundant coarse pyrite 368.5 – Abrupt top to 5mm backset of biotite with a weathered appearance 374.0
375.0	390.0	14.8	15.0	3653	.225	.027	.2	.01	W	M	I	R	W	W	W	S		2%	376.5 – Narrow bands, weak good vc ∧ cpy. 379.2 – Disseminated cpy. Pervasive green sericite altered feldspar.
390.0	405.0	15.0	15.0	3654	.340	.014	.3	.01	W	M	I	R	W	W	W	S		1%	Strong pyrite stringers with chl. and biotite selvages at chl.

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perth.	Ito core Axis	Biotite	Sericite Alt-Ser	K-Spar	Kaolin Argillic	Chlorite	CS	DESCRIPTION
																			ENRICHED ZONE - GRANODIORITE
405.0	420.0	15.0	15.0	3655	.325	.007	.3	.01	W	M	I	R	W	W	W	S		1%	409.8 – Moderate basket of black biotite. 413.3 – Weaker, replacing py. 415 – Pocket of black biotite locally common.
420.0	435.0	15.0	15.0	3656	.415	.020	.3	.01	W	M	I	R	W	W	W	S		1%	426.4 – Quartz-sericite with strong fracture. Mod-strong sericite alteration of biotite (basket of 1mm) with quartz and pale basket of feldspars – weak to moderate clay alteration common. 430.0 – Disrupted biotite becoming common
435.0	450.0	15.0	15.0	3657	.670	.027	.6	.02	W	W	M	R	W	W	W	S		9%	436.0 – Cpy and py disz. and narrow pyritic fractures. Cc fracs in cpy and thin films on pyrite. Minor chl mely generally associated with qtz rich areas. Cc better developed along fractures and minor limonite
450.0	465.0	15.0	15.0	3658	.420	.020	.4	.02	W	W	M	R	W	W	W	I		9%	452.0 – Strong qtz alteration, fine stringers py, mod diss chl/sericite blocks/streak, blood red hematite after py brown limonite along fractures and also light blood red films often present. 464.6 – End to 4615 gradually weakens to diss 4-6% mainly diss cpy, minor py. Fine chl/sericite alt

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est. MoS_2%	Silicification	Qtz Veining	Perth.	Vein to core Axis	Biotite	Sericite Alt-Ser	K-Spar	Magnetite Magnetite	Chlorite	Py	DESCRIPTION
							.4	.02	W	W	M	R	W	W	W	S		4%	ENRICHED ZONE – GRANODIORITE Mod-weak, diss 1mm books of secondary biotite
465.0	480.0	15.0	15.0	3659	.5%	.023	.1	.02	W	W	M	R	W	W	W	S		1%	470.5 – – – Fine quartz granules in a white alt. feldspar (kaolin?) matrix with narrow qtz bands. Generally weak py
							.4	.02	W	W	M	R	W	W	W	I		4%	479.9 – – –
480.0	495.0	14.5	15.0	3660	.7%	.048	.5	.04	W	W	W	R	W	W	W	I		3%	Good qtz. alt. – 1cm coating around py stringers and slight breccia vugs at junction of fractures
495.0	510.0	12.3	15.0	3661	.4%	.057	.5	.04	W	W	W	R	W	W	W	I		4%	Mainly cpy with ch. rim in fract. and scattered in the moderately qtz alt. rock. Rutile, light steel grey
510.0	525.0	15.0	15.0	3662	.7%	.005	.6	.04	W	W	W	R	W	W	W	S		3%	3 Sets/ft fracturing with strong ch. repl. Stockwork structures, narrow bands, veins and veinlets of brown biotite. Minor tourmaline

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perv. ft.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolinite Argillic	Chlorite	FeS_2	DESCRIPTION
525.0	540.0	15.0	15.0	3662	.445	.108	.4	.05	W	W	W	R	W	W	W	S		3	ENRICHED ZONE - GRANODIORITE Veining ppl, common only
540.0	555.0	14.6	15.0	3664	.435	.030	.3	.03	W	W	W	R	W	W	W	S		3%	Cpy veining, not as common as prev. - white clay here + there
555.0	570.0	15.0	15.0	3688	.335	.018	.3	.03	W	W	W	R	W	W	W	S		3%	Cb. veins, cpy not very common - generally in bands -
570.0	585.0	15.0	15.0	3689	.465	.029	.2	.02	W	W	W	R	W	W	W	S		3%	Also weakening - clay on cpy-py fracture 574.5 - Soft white alt. clay loading between fracturing results in soft broken rock. 578.0 - White - high alt. kaolin-para(sericite) between grey sericite alteration envelopes common 582.0 - Clay beside on fracture + fault. - to 587

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Pyrite	Vein core Axis	Biotite	Sericite Alteration	K-Spar	Kaolin Magnetite	Chlorite	Pyrite	DESCRIPTION
																			580.0 ENRICHED ZONE - GRANODIORITE (Top of Zone in part)
585.0	600.0	15.0	15.0	3690	.960	.072	.2	.02	W	W	W	R	W	M	W	S		3%	grey, quartz-sericite alteration envelopes (up to 20mm w. 5mm) in a stockwork (up to 1/2 (12mm) quartz-pyrite-chlorite-altered feldspar (sericite) matrix. Weak-moderate disseminated pyrite (up to 5mm) and fracture controlled pyrite (up to 1mm), black biotite flecks. Sometimes veins along fracture and occupy veins. Some medium (2mm) qtz-altered subhedral to euhedral feldspar in fine intergranular altered section, with pyrite with hydrothermal biotite flecks in centre of alteration envelopes.
600.0	615.0	14.8	15.0	3691	.985	.044	.2	.02	W	W	W	R	W	M	W	S		3%	Occ. sericite formation. Weak cpy - occurrence.
615.0	630.0	15.0	15.0	3692	.525	.036	.2	.02	W	W	W	R	W	M	W	S		3%	Weak cpy - occurrence.
630.0	645.0	9.9	15.0	3693	.490	.050	.2	.02	W	W	W	R	W	W	W	S		3%	633.1 - White grey granular quartz granules (1-2mm) in a wide chloritized altered feldspar (kaolin) matrix. Good - disseminated pyrite (1mm) of dark green chlorite in narrow alteration envelopes around pyrite typhoons.

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2 %	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perfft.	∠to core Axis	Biotite	Sericite 0% - 5%	K-Spar	Kaolin Argillic	Chloritic	FeS2	DESCRIPTION
																			ENRICHED ZONE - GRANODIORITE
645.0	660.0	15.0	15.0	3694	.395	.033	.4	.05	W	W	W	R	W	M	W	S		3%	649.5 — Porphyritic growth more common, generally fairgrd but med grd sections present. Flakes of golden brown biotite. — qtz-ser alt overprinting - with impressive epy. rare film ch.
660.0	675.0	15.0	15.0	3695	.275	.022	.4	.02	W	W	W	R	W	M	W	S		3%	Strong qtz alt. 668.0 Fine-med grd (2-3mm) grade granites to an otherwise pale white qtz-plag-ser-chl-epy rock of porphyritic texture with moderate-strong alt of golden brown biotite. Often highly crumbly. Weak-moderate stockwork quartz-sericite alteration often along pyritic fractures - weathering reveals boxwork. Disseminated tourmaline, esp in fine stringers
675.0	690.0	15.0	15.0	3696	.305	.029	.5	.05	W	W	W	R	W	W	W	S		2%	Cpy - becomes more common, rare film ch.
690.0	705.0	15.0	15.0	3697	.210	.022	.2	.02	W	W	W	R	W	W	W	S		1%	690.0 PROTORE - GRANODIORITE Cpy weak to —.

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est Cu%	Est MoS_2%	Silicification	Qtz Veining	Perft.	<to core Axis	Biotite	Sericite Alt-Sil	K-Spar	Magnetite Kaolin	Chlorite	Pyrite	DESCRIPTION
																			PROTORE ZONE - GRANODIORITE
																			~705 - gtz-ser alteration veining stronger
705.0	720.0	15.0	15.0	3698	.220	.033	.2	.05	W	W	W	R	W	M	W	M		2%	
																			720.0 gtz-ser alt decreases
720.0	735.0	15.0	15.0	3699	.240	.033	.2	.05	W	W	W	R	W	W	W	M		2%	
																			disseminated dark yellow py
735.0	750.0	15.0	15.0	3700	.295	.029	.1	.02	W	W	W	R	M	W	W	M		2%	
																			~743.0 gtz-sericite alteration increases
																			- dull slight lin on fract.
																			cpy. appears again after this slight fea.
750.0	765.0	15.0	15.0	3701	.240	.007	.3	.05	W	W	W	R	M	W	W	M		3%	

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	FeS_2	DESCRIPTION
																			PROTORE ZONE - GRANODIORITE
765.0	790.0	25.0	25.0	3702	.215	.018	.2	.02	W	W	W	R	W	M	W	S			~767.0 Strong gtz-sericite alteration ~773.0 ~775.0 Soft and crumbly - poor gtz-sericite alt.
							.2	.02	W	W	W	R	W	W	W	W		2%	
							.1	.02	W	W	W	R	W	M	W	S		2%	~785 Gtz-sericite alt. increases
790.0	795.0	5.0	5.0	3703	.235	.038													
795.0	810.0	15.0	15.0	3704	.270	.036	.1	.02	W	K	W	R	W	M	W	S		2%	— gtz-sericite alteration decreases.
810.0	825.0	15.0	15.0	3705	.285	.011	.3	.02	W	W	W	R	W	M	W	S		2%	White colored, waxy quartz granules in an white altered aphanitic (up to 5mm) altered feldspar (sericite, quartz) with occ. narrow (up to 5mm) stockwork quartz veinlets alternating bands, Above fr. brown biotite and pale green chlorite bands. Copy continues for this zone.

P.10

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	c-to core Axis	Biotite	Secondary Qtz - Sil	K-Spar	Kfeldspar Argillic	Chlorite	Pyrite	DESCRIPTION
																			PORPHYRE ZONE - GRANODIORITE
825.0	840.0	15.0	15.0	3706	.310	.029	.3	.02	W	W	W	R	W	M	W	S		3%	— 825.0 — qtz veinlets alteration increases — 831 — Strongly altered, fine grained with dark beds and dark green strong qtz veinlet alteration — appears partially bedded
840.0	855.0	15.0	15.0	3707	.295	.036	.4	.02	W	W	W	R	W	W	W	W		2%	— 843.5 — White colored, medium quartz porphyries in aphanitic and subordinal (1 to 5mm) feldspar matrix. Occasional qtz - sericite altered. Minor pyrite veinlets all are dark banded. Qtz veinlets thick and thin but all are quartz and fine pyrite stringers
855.0	870.0	15.0	15.0	3708	.245	.036	.5	.05	W	W	W	R	W	M	W	M		2%	— 856.0 — Strong qtz alt. + sericitized 4mm look of silt. — 865 — White banded as above 843.5 - 856.0. - medium grained alt. and pyrite up to 3cm. along pipelike. Host Some large 5mm range all GIH plagioclase
870.0	885.0	14.8	15.0	3709	.370	.036	.6	.1	W	W	W	R	W	M	W	M	+	2%	Chlorite often present.

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2 %	Est. Cu%	Est MoS_2 %	Silicification	Qtz Veining	Perf't.	Lito core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite		DESCRIPTION
																			PROTORE ZONE - GRANODIORITE
885.0	900.0	15.0	15.0	3710	.295	.022	.4	.05	W	W	W	R	W	M	W	S	4	3%	889.5 Strong qtz-sericite zone - narrow moderate qtz-alt feld veins cpy. 896.0 White colored, qtz granules in white sub-euhedral (up to 5mm) alt. feld with narrow 5mm q-s. alteration bands
900.0	915.0	15.0	15.0	3711	.350	.040	.5	.05	W	W	W	R	W	M	W	S	4	3%	904.0 qtz-ser alt increases. Strong qtz-ser with numerous narrow irregular bands (up to 4mm) of qtz-alt feldspar and blakk books of FeM.
915.0	930.0	13.5	15.0	3712	.315	.036	.5	.05	W	W	W	R	W	M	W	S	4	4%	
							.6	.05	W	W	W	R	W	M	W	I	4	5%	929.0 Qtz-alt feldspar bands decrease. Increase in pvj - small stringers.
930.0	945.0	15.0	15.0	3713	.225	.033	.6	.05	W	W	W	R	W	M	W	S			938 - Irregular bands of qtz-alt. feldspar (sericite) appear. 939 - Irregular bands of Qtz-alt feld become common ~50%

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2 %	Est. Cu%	Est MoS_2 %	Silicification	Qtz Veining	Perth.	∠ to core Axis	Biotite	Sericite Py + Sy	K-Spar	Kaolin Magnetite	Chlorite	Leached
945.0	960.0	15.0	15.0	3714	.165	.031	.5	.5	W	W	W	R	W	M	W	I	4	4%
960.0	975.0	15.0	15.0	3715	.250	.039	.5	.05	W	W	W	R	W	M	W	S	4	4%
975.0	990.6	13.6	15.0	3716	.230	.028	.5	.05	W	W	W	W	W	M	W	S	4	4%
990.0	1004	13.7	14.0	3717	.250	.035	.5	.05	W	W	W	W	W	M	W	S	4	4%

DESCRIPTION

PRE-TORE ZONE = GRANODIORITE

945.0 –

Stockwork quartz in a white gtz-alt'd feldspar

Cubic py. common.

Rhyolite

1004 – End of hole

ASSAY SUMMARY

To 945.0 303.7 328.0 .041 .010

3950 1004.0 640.5 657.0 .364 .052

7.0 1004.0 913.9 937.0 .260 .024

Core Recovery 943.9 = 93.6 %

P 11

DATE COLLARED AUG 14/69
DATE COMPLETED AUG 21/69
LENGTH 557.0 ft
CORE SIZE NQ 0.0 - 176.0 ft
BQ 176.0 - 557.0 ft

Northing 22,836,361.0
Easting 361,094.6
Elevation 4014.4
Dip -90°

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Logged by M.P. Phillips

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf't	∠ to core Axis	Biotite	Sericite Qtz-Sr	K-Spar	Argillic Kaolin	Chlorite	DESCRIPTION
0	19																	Casing - 0-19'
19	35.0	4.1	16.0	3665	0.040	tr	.05	.01	W	W	M	R	W	W	W	M	ϕ	LEACHED ZONE / QTZ. DIORITE
35.0	50.0	4.0	15.0	3666	0.060	0.004	.05	.01	W	W	M	R	W	W	W	M	ϕ	
50.0	65.0	8.0	15.0	3667	0.040	tr	.05	.01	W	W	W	R	W	W	W	M	+	

Robbie - move everything in this col. up 5 ft Sec. ← → do in all pages.

19.0

Core highly broken and rounded - float?
Approx 1 ft of med grained biotite granodiorite gradational (?) to a quartz-sericite with fine qtz veining and brown black lim coating coarse boxwork fractures and a yellow Brown pervasive sooty limonite

45

Pervasive light yellow brown limonite staining, fine-med quartz in a soft alt feldspar (kaolin?) with some pale green sericitized feldspars near fractures

58.0

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perft.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		LEACHED ZONE - QTZ DIORITE
65.0	80.0	14.8	15.0	3668	.035	.004	.05	.01	W	W	W	R	W	W	W	M		Fine - m grned (to 3mm.), quartz in an white chalky alt. feldspar (tooling) with mod. av. 2mm. book of dark green chlorite exhibiting a vague parallel orientation.
																		Black brown to yellow brown lim. along fract. and extend outwards. Pyrite casts common.
																		Minor q-s alteration and tourmaline
							.05	.01	W	W	M	R	W	W	W	S		71.0
																		Mainly grey white quartz-sericite alteration containing tourmaline and bands of fine grned quartz granules in a white altered feldspar (sericite-kaolin) and pale green chlorite. Mod. fracturing, weak qtz veining
80.0	95.0	6.9	15.0	3669	.020	.004	.05	.01	W	W	M	R	W	W	W	S		Dark reddish brown with yellow brown extend outwards from fractures
95.0	110.0	15.0	15.0	3670	.020	TR	.05	.01	W	W	M	R	W	W	W	S		chlorite becoming altered to sericite
									W	W	M	R	W	W	W	S		
110.0	125.0	14.0	15.0	3671	.065	.004	.05	.01	W	W	W	R	W	W	W	M		110 Boxwork with limonite - chalcopyrite?
																		111.5
																		Yellowish fine grned quartz granules in a white alt. feldspar matrix with abundant chloritic biotite
																		Red brown limonite staining along fractures

D11

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Pr/ft	⊥ to core Axis	Biotite	Sericite Qtz-Sul	K-Spar	Kaolin Argillic	Chlorite	FeS_2 %
125.0	140.0	11.8	15.0	3672	.235	.007	.3	.05	W	W	W	R	W	W	W	M		2%
140.0	155.0	9.6	15.0	3673	.125	TR	.3	.05	W	W	W	R	W	W	W	W		2%
155.0	170.0	9.7	15.0	3674	.417	TR	.3	.05	W	W	W	R	W	W	W	M		2%
170.0	185.0	15.0	15.0	3675	.450	.004	.3	.05	W	W	W	W	W	W	W	W		3%

DESCRIPTION

LEACHED ZONE - QTZ. DIORITE

Blue grey fine grnd qtz, moltered feldspar (sericite) chlo- rich matrix with irregular partings and narrow bands (5mm) of med grnd qtz (2mm) and subhedral alt. feldspar subhedral interstitial up to 5mm along qtz-sericite altered fractures.

Weak q-s and fract

Generally narrow limonite, dark red brown - yellow brown along fractures

127.8 Strong q-s alt. with diss cc. repl. cpy. ENRICHED ZO

134 - - -

- - - -

P11

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Per'ft.	⊥to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	Fe S2	DESCRIPTION
																			ENRICHED ZONE — MIXED QTZ DIORITE
1850	200.0	12.0	15.0	3676	.580	.007	.3	.05	W	W	W	R	W	W	W	W		3%	cc repl. cpy generally along fine hair like fract
2000	215.0	7.7	15.0	3677	.428	.004	.2	.05	W	W	W	R	W	W	W	W		3%	
215.0	230.0	12.4	15.0	3678	.580	.007	.2	.05	W	W	W	R	W	W	W	W		3%	
230.0	245.0	10.6	15.0	3679	.430	.007	.2	.05	W	W	W	R	W	W	W	W	+	3%	230 — Strong qtz-ser. alt. slightly better cpy and cc.
									W	W	W	R	W	W	W	S.			232.5 — 238. — Strong qtz-ser alt. - slightly better cpy and thin film of cc. Scalloped flakes of yellow brown plagophitic biotite

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est. MoS_2%	Silicification	Qtz Veining	Perfit.	∠ to core Axis	Biotite	~~Sericitic~~ Alt-Ser	K-Spar	Kaolin Argillic	~~Chlorite~~	Pyrite	DESCRIPTION
245.0	260.0	11.4	15.0	3680	.210	.018	.3	.05	W	W	W	R	W	W	W	S		3%	ENRICHED ZONE - MIXED QTZ DIORITE 252.0 White fragd quartz granules in a white felted alt feldspar with occ diss books of light green chloritic biotite
260.0	275.0	8.3	15.0	3681	.360	.163	.4 .8	.1 .1	W W	W W	W W	R R	W W	W W	W W	M S	+	3%	Good epy with rims of chl along cracks and fract. Pervasive q-s alt along cracks and fractures. 260.0 Q-S alteration becomes stronger and more pervasive
275.0	290.0	14.3	15.0	3682	.285	.014	.3 .5	.1	W W	W W	W W	R R	W W	W M	W W	S M		3%	279 White fragd granules in a white felted alt feldspar ass flakes of ragged light brown biotite, Minor tourmaline sometimes common in narrow borders. Fine stockwork giving veining & fracturing well mineralized. Stockwork is pervasive q-s alteration
290.0	305.0	14.8	15.0	3683	.385	.014	.5	.1	W	W	M	R	W	M	W	M			Good chalcopyrite rimming epy rarely py. Moly good. Pyrite fracture weak. Sericite and chlorite the excellent fracturing has resulted in good mineralization 297+ Bands of white alt feld. rich become common - contact 35° to core axis

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf't.	∠ to core Axis	Biotite	Sericite-Qtz-Sil	K-Spar	Kaolin Argillic	Chlorite	FeS_2
					.5	.1	W	W	M	R	W	M	W	M		+	3%	
305.0	320.0	7.6	15.0	3684	.490	.018	.4	.1	W	W	M	R	W	M	W	W		3%
320.0	335.0	13.1	15.0	3685	.210	.007	.3	.05	W	W	W	R	W	W	W	W		3%
335.0	350.0	12.3	15.0	3686	.260	.011	.1	.02	W	W	W	R	W	W	W	W		1%
350.0	365.0	15.0	15.0	3687	.255	.004	.1	.02	W	W	W	R	W	W	W	W		2%

DESCRIPTION

ENRICHED ZONE - MIXED QTZ DIORITE

304.0

White fine-med grned (2mm) qtz granules in a white often blueish tinged alt feldspar (sericite) matrix with scatted flakes a light brown biotite (?). Weak fractured qtz veining Rare tourmaline
Ch. repl. cpy mainly disc. Py. stringers not common except towards bottom where qtz veining becomes prominent

PROTORE ZONE - MIXED QTZ DIORITE

317.0

Yellow med grned quartz granules in a yellow felted alt feld (sericite) matrix with occ chlorite books (2mm) often alt to sericite. Minor q-s alt bordering bands. Qtz veining and irregular qtz common, especially towards bottom
Minor disc Cpy, mod generally fine grned (.5mm) often pyrite (1mm.)

337

Med grned (3mm) quartz granules in a yellow sometimes subhedral to anhedral (3mm) alt feldspar phenocryst matrix with abundant book of pale-med green chlorite
Narrow bands of qtz-ser alt. Weak qtz veining

350.0 Bleached with weak chl

352.0

Fine-Med grned qtz and white alt feldspars with abundant (sometimes) black subhedral up to 5mm phenocrysts of chlorite with centers of chl. alt to sericite. Tourmaline common, often along hair like fract. Some hairlike q-s stringers.

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf't.	∠to core Axis	Biotite	Sericitic Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	Fe_2S_2	DESCRIPTION
							.1	.02	W	W	W	R	W	W	W	W			PROTORE ZONE - MIXED QTZ. DIORITE
365.0	380.0	15.0	15.0	3718	.330	.004													367.5 Fine grained, chloritic rich
							.4	.05	+ W	+ W	+ M	+ W	W	+++ M	W	S		5%	369.0 Pervasive q-s. alteration with some chl' alt to sericite. Mod to strong weak qtz veining Good cpy, rare cb, occ limonite along mod hair like pyrite stringer.
380.0	395.0	15.0	15.0	3719	.185	.007	.4	.05	W	W	M	R	W	M	W	S		5%	375.2 Very fine grained, minor qtz granules in a white altered feldspar (sericite) matrix with abundant fine chlorite (50-70%) Almost complete Good diss cpy and abundant py occ in stringers
							.4	.05											381.5 Med grained qtz intermingled with fold. sericite groundmass with weak-mod diss chl books. Occ. bands of fine grained chlorite rich. Bands of grey pervasive qtz-ser alteration common towards bottom.
395.0	410.0	15.0	15.0	3720	.220	.003	.4	.05	W	W	W	R	W	M	W	S		5%	397.0 Med grained, qtz-alt fold (sericite) with up to 5mm dark chlorite knots and bands of q-s. alteration
									W	W	W	R	W	W	W	M			405.0
410.0	425.0	15.0	15.0	3721	.250	.007			W	W	W	R.	W	W	W	M		5%	Grey qtz-ser alt with bands of fine and med grained quartz and altered feldspar with abundant chloritic biotite Q-ser alt generally better mineralized.

FROM.	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2 %	Est. Cu%	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	FeS_2	DESCRIPTION
																			PROTORE ZONE – MIXED QTZ DIORITE
425.0	440.0	15.0	15.0	3722	.245	.031	.2	.02	W	W	W	R	W	W	W	W		2%	–427.0– Fine quartz in a alt fld(ser) matrix with abundant 5mm. black chlorite. Cpy weak. 433.5 – sharp contact 20°
440.0	455.0	14.0	15.0	3723	.265	.010	.1	.02	W	W	W	R	W	W	W	M		1%	Fine qtd quartz granules in a white alt feldspar matrix with narrow - wide bands with grey qtz-sericite alteration around pyritic stringers. Some.
455.0	470.0	15.0	15.0	3724	.160	.017	.1	.02	W	W	W	R	W	W	W	M		2½%	–460– Strong q-s alteration with irregular bands of q-alt fld. –462– white and pale yellow. Fine – Med qtz granules in alt fld(ser). some time fld porphyritic-subhedral (5mm.). Minor pale chlo often alt to ser. Rare tourmaline Qtz-ser veinlet and irregular bands common.
470.0	485.0	14.0	15.0	3725	.175	.007	.3	.05	W	W	W	R	W	W	W	M		2%	Ch. rare

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FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	FeS_2	DESCRIPTION
																			PROTORE ZONE - MIXED QTZ DIORITE
485.0	500.0	15.0	15.0	3726	.135	.010	.3	.01	W	W	W	R	W	W	W	M		2%	
500.0	515.0	15.0	15.0	3727	.195	.021	.3	.01	W	W	W	R	W	W	W	M		2%	501.0 -- Med grnd qtz - alt fld (sil) Stockwork q-s veining Good cpy
									W	W	W	R	W	M	W	M			509.0 --
515.0	530.0	15.0	15.0	3728	.195	.021	.3	.01	S	W	W	R	W	W	W	W		2%	Strong silicification. Diss. chl. biotite to sericite 517 Numerous strong silicification veining & bands often dark grey bands - coarser grnd with diss book chlorite often going to sul Diss tourmaline becomes common
							.3	.01	S	W	W	R	W	W	W	W		2%	
530.0	545.0	15.0	15.0	3729	.185	.017	.3	.01	S	W	W	R	W	W	W	W		2%	

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Pl. - Ser	K-Spar	Kaolin Argill.	Chlorite	DESCRIPTION
																		PROTORE ZONE - MIXED QTZ DIORITE
545.0	557.0	10.6	12.0	3730	.305	.003	.3	.01	W	W	W	R	W	W	W	W		-544.5- Tourmaline along fractures common. -546- -550.0- Increasing amts of black green chloritic biotite. At bottom 70% of rock. -557.0- END OF HOLE
	557.0																	
						ASSAY SUMMARY												
19.0	125.0	66.8	106.0		.040	.002												
125.0	455.0	274.6	330.0		.327	.016												
455.0	577.0	99.6	102.0		.193	.014												
125.0	597.0	374.2	432.0		.295	.015												
19.0	557.0	441.0	538		.245	.013												
										Core Recovery			441.0 / 557.0	= 79.2	%			

P12 DATE COLLARED – AUG 22/69
DATE COMPLETED AUG 30/69
LENGTH 696.0 ft

CORE SIZE – NQ – 0.0 – 240.0 ft
BQ 240.0 – 696.0 ft

NORTHING – 22,057.45
EASTING – 364,093.1
ELEV – 4028.5
DIP – -60°
AZIMUTH – 226°-30'

LOGGED BY – M.P. Phi

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Pert.	∠ to core Axis	Biotite	Sericite	K-Spar	Kaolin Argillic	Chlorite	FeS_2	Epy	DESCRIPTION
																				Casing 0-92.0 ft.
																				Overburden 2 ft of mixed fine qtz in a yellow alt feld (sericite) mat and med grned hornblendic altered to chloritic granodiorite
																				LEACHED ZONE - QTZ DIORITE
																				-92.0
																				-94.0
92.0	105.0	13.0	15.0	3731	.140	TR	.1	.002	W	W	W	45°	W	W		M				White to dirty yellow colored, fine (0.5mm) quartz elongated to impart schistosity in a highly alt white blue white alt feldspar (sericite). Minor flaky chlor yellowish alt to sericite. Minor qtz veining and bands to 0.15 ft. Minor qtz veining and weak-mod q-s alt along and as veinlets - hairline bands. Fractures with reddish-brown ~~accessories~~ and pervasive light yellow brown sooty limonite. Dec pyrite casts reddish brown limonite pyrite cubes
105.0	120.0	15.0	15.0	3732	.085	.003	.1	.002	W	W	W	60°	W	W	W	M	+			-113.5 Fine qtz granules in an subhedral-anhedral up to 2mm alt feld (sericite) matrix. Fine qtz filled fracture stock moderately developed. Scattered limonite cubic py. Some moly -118.5
120.0	135.0	15.0	15.0	3733	.170	.005	.1	.002	W	W	W	60°	W	W	W	M				-128.0 Weak schistosity in parts. Coarser grned bands sometimes present. -133.0 – pyrite stringer

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Alt - Ser	K-Spar	Kaolin Argillic	Chlorite	Pyrite	DESCRIPTION
																			LEACHED ZONE – QTZ DIORITE
																			135.0 – 150.0 – Strong silicification and limonite staining
135.0	150.0	13.3	15.0	3734	.170	.003	.05	.01	W	W	M	60°	W	W		M	0		Yellowish white very fine grained (.5mm) clear quartz granules in a white silky alt. plagioclase with occ flakes of brown sericite (biotite?). K-spar completely alt or absent. Fine yellow brown dust throughout core with med fracturing and reddish brown limonite. Limonite with diffuses outwards from fracture. Rare speck. pyrite and pinky
																			150.0
																			ENRICHED ZONE – QTZ DIORITE
150.0	165.0	10.7	15.0	3735	.415	.003	.2	.01	W	W	M	R	W	W	W	M			150.0 – 151.0 – diffuse Poissise brown limonite; often blueish black (oxidized pyrite & cpy?) often extending outwards from a brown rimmed reddish brown center fracture. Traces of ch.
165.0	180.0	15.0	15.0	3736	.515	.008	.3	.01	W	W	M	R	W	W	W	M			
180.0	195.0	14.8	15.0	3737	.300	.008	.3	.01	W	W	W	R	W	W	W	M		½%	183.8 – White, Fine – med grained (.5 – 5mm) quartz granules (20–50%) white chalky alt plag, euhedral – anhedral up to 5mm. Grain size often changes abruptly, often across fracture. K-spar completely alt or absent. Grey color to rock often bands with prominent sericite. Weak fract and qtz veining Light rimmed yellow brown lim along fractures. Light yellow sooty lim sometimes present. Very fine diss cpy with rims ch. A few narrow bands of dusty ch. rept. py and cpy.

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Plg-Ser	K-Spar	Kaolin Argillic	Chlorite		DESCRIPTION
																			ENRICHED ZONE QTZ DIORITE
																			197.0
																			Tan brown. plagioclase. Minor K-spar. Rare biotite
195.0	210.0	14.7	15.0	3738	.365	.066	.3	.01	+ W	+ W	++ M	R R	W	W	W	M		½%	202.0 Crumbly with mud seams. Very fine grd biotite, green plag and qtz.
																			208 Crumbly with mud seams. Very fine grd biotite, green plag and qtz.
																			Yukon Group - Hornfels.
									W	W	W	R	S	W	W	M			214.0
210.0	225	15.0	15.0	3739	.230	.048	.3	.01										½	217.0
																			218 Very fine grd biotite
									W	W	W		W	W	W	M			QTZ. DIORITE
																			Approx 10% white K-Spar often with corroded rims
																			225.2 55° to core axis
																			YUKON GROUP - QTZ-FELDSPAR
																			Schistose, pale green quartz-sericite, quartz and white aft plagioclase with rare up to 5mm white aft plag plagioclase phenocryst. Minor fract with light-med brown limonite and fine less copy & ch. stns. Often blue black clay, disc around 55° to core axis fracture. Weak qtz veining
225.0	240.0	14.8	15.0	3740	.485	.024	.3	.01	W	W	W	Schist 50°	W	M	W	M		½%	234.5 Well fractured
																			239.5
																			QTZ DIORITE
																			Fine quartz granules in a white-greenish white aft plagioclase matrix with 10% white K-spar. Weak fine white diss flakes of light brown phlogopite(?). Weak fine white stringers
																			Mod. Discopy with clay often with fine pale yellow halos
240.0	255.0	11.2	15.0	3741	.335	.022	.3	.01	W	W	W	R	W	W	W	M		½%	Weak - mod. hairlike fractured cracks with qtz. Rare 5mm qtz veins
																			Some red brown lim on some stronger fractures

FROM	TO	REC.	LENGTH	SAMPLE NO.	$Cu\%$	$MoS_2\%$	Est. $Cu\%$	Est $MoS_2\%$	Silicification	Qtz Veining	Pr. ft.	∠ to core Axis	Biotite	Sericite Qtz-Ser.	K-Spar	Kaolin Argillic.	Chlorite	Fes.	DESCRIPTION
																			ENRICHED ZONE - QTZ DIORITE
255.0	270.0	15.0	15.0	3742	.230	.022	.4	.01	W	W	M	0°	W	M	W	M	-	1%	
270.0	285.0	14.5	15.0	3743	.445	.027	.4	.01	W	M	M	0°	W	M	W	M		1%	270 - - - Mod. - strong stockwork. Mod. - strong 3 mineral veining becomes common. Occ pale K-spar to 20%
285.0	300.0	14.6	15.0	3744	.690	.027	.4	.01	W	M	M	0°	W	M	W	M		1%	
																			300.0 PROTORE ZONE - QTZ DIORITE
300.0	315.0	15.0	15.0	3745	.125	.030	.4	.01	W	M	M	0°	W	M	W	M		1%	303 - - - Mod q-sp 304 - - -
																			318 - - - See next page

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericitic Alteration	K-Spar	Kaolinization/Illitic	Chloritic	Fe Sx	DESCRIPTION
																			PROTORE - QTZ DIORITE
																			Med grad o'g. - often ragged book of pale green sericite
																			Cb not common
315.0	330.0	15.0	15.0	3746	.125	.022	.3	.05	W	M	M	R	W	W	W	M		1%	
																			- 322.0 Crumbly.
																			- 324.0 Soft crumbly. (50%) white-slight green tint
							.2	.05	W	W	W	R	+S	W	W	M		1%	Fine grad (0.5mm) quartz granules in a altd plagioclase, weak K-spar and abundant fine book biotite
330.0	345.0	13.1	15.0	3747	.265	.022	.2	.05	W	W	W	R	+S+	W	W	M		1%	
345.0	360.0	15.0	15.0	3748	.090	.027	.2	.05	W	W	W	R	+S+	W	W	M		1%	
																			- 360.5 Fine-med (2mm), sub-anhedral white silky alt plagioclase fine K-spar with fine quartz granules, with pale green seric Angular inclusion of fine biotite rich rock present. Son silicification along wide bands. Fine pyrite stringers
360.0	375.0	13.8	15.0	3749	.095	.008	.2	.05	W	W	W	R	W	W	W	M		1%	- 366.9 sometimes present

See next page

P12

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perth.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	FeS_2	DESCRIPTION
																			PROTORE ZONE - QTZ DIORITE
375.0	390.0	9.7	15.0	3750	.220	.022	.3	.01	W	W	W	R	+I	W	W	W	–	1%	Dark colored, fngd. quartz and white alt plagioclase, abundant biotite with hairlike crack – strongly cal boriz. A few pyrite stringers with narrow bleached halos and other cale. Narrow qtz stringers – no alteration. Diss py and cpy weak – mod. magnetite along cracks. Rare moly on narrow qtz fract.
390.0	405.0	10.7	15.0	3751	.070	.030	.2	.01	W	W	W	R	I	W	W	W		1%	Dark colored, med grned, as above. with mod magnetic. Competent due to large amt of qtz. A few q-s-narrow pyritic bands.
405.0	420.0	10.2	15.0	3752	.075	.022	.2	.01	W	W	W	R	I+	W	W	W		1%	403.5 – Soft, highly incompetent – increase alt. Plag. Weak mag. 404.6 – Hard, med grned qtz rich, 411.0 –
420.0	435.0	15.0	15.0	3753	.045	.011	.2	.01	W	W	W	R	I	W	W	W		1%	419.5 – Hard qtz rich magnetic, med grned, mod mag. 429.3 – Soft weakly magnetic – alt plag rich with narrow bands of hard mod mag qtz rich rock. Carb on hairlike parting and assoc with qtz fract. Rare qtz veinlets and q-s-p alt bands – show weak alteration.

P12

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser.	K-Spar	Kaolin Argillic	Chlorite	$Fe S_2$	DESCRIPTION
																			Fe_2 prev.
420	435						.2	.01	+	+	+	R	++++	+	+	+	+	1%	Out
																			PROTORE ZONE - QTZ DIORITE
435.0	450.0	15.0	15.0	3754	.060	TR	.1	.01	W	W	W	R	I	W	W	W	W	½	436.5 – Hard gtz rich, biotite strong – Bleaching
																			Alteration bounded with q-s-p gtz bottom contact, strong calc at top contact. 445.5 – Soft, alt plag rich
																			449.5 – Hard, faced, black, weak mag. Kale patting and cr Weak mag.
450.0	465.0	13.5	15.0	3755	.260	.027	.3	.01	W	W	W	R	W	W	W	W	W	1%	455.5 – Strong bleached q-s-p at top with gradational change to abundant narrow py stringers with 4mm alt. envelopes. Cpy common - minor CO films strong calc at top. Some lim.
									W	W	W	R	+	W	W	W	W		461.2 – Gradational – Black fine grad gradually coarser grad. gtz rich - mi alt plag and some K-spar enaltered. Weak mag.
																			Poor min some lim
465.0	480.0	11.7	15.0	3756	.125	.008	.1	.01	W	W	W	R	++++ I	W	W	W	W	1%	471.5 – Pervasive q-s-p around py ± gtz stringers
																			473.0 – Hard gtz rich mod mag.
																			474.0 – q-s-alt around up to 2cm py stringers - Weak towards bottom as pyrite stringers narrow
																			478.0 – See next page

FROM.	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2 %	Est. Cu%	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	$Fe S_2$	DESCRIPTION
																			PROTORE ZONE - QTZ DIORITE
																			Alt. & Struc as previous desc.
																			Weakly magnetic
																			- - - 484 - - - -
480.0	495.0	15.0	15.0	3757	.155	.025	.3	.01	W	M	W	R	W	M	W	M		1%	Bleached, White, quartz grains and irregular segregation of pale cream white alt plag in fine matrix with minor chloritized ser. biotite. Stockworking fractures often pyritic and gray green g-s alt. Chl biotite. Occ larger py fractures. Chl bio common on bottom
																			- - 493 - - -
495.0	510.0	15.0	15.0	3758	.140	.028	.3	.05	W	W	W	R	W	M	W	M		2%	Soft, crumbly, bleached, weakly magnetic as previous - - 497.5 - - - White, bleached, fine (0.5) quartz grains, stard and pseudo ve in a white alt plag to clear, minor K-spar matrix. Through fine gray green g-s - alterations partings and cracks with p envelopy Alteration envelops up to max 1 cm. Pale green ser chl biotite in parts where rock is less pen becomes common. Generally more common at t and bottom contact Pervasive mod argillic alt.
510.0	525.0	14.8	15.0	3759	.175	.033	.3	.05	W	W	W	R	W	M	W	M		1½%	
525.0	540.0	15.0	15.0	3760	.285	.018	.1	.01	W	W	W	R	I	W	W	W		½%	- - 528.3 - - Alternating bands of mod bxitic alt and fine grained bleached rock - - 532.0 - - Black, fn grd (1 cm) quartz and alt plag, minor K spar with abundant black biotite. Occ veinlet and parting magnetic Occ calc. parting Occ g-s-eyes in clast up to 1 cm generally narrow. Poor spy minor co-arming py.

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FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perft.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	Fe Sx	DESCRIPTION
																			PROTORE ZONE - QTZ DIORITE
540.0	555.0	15.0	15.0	3761	.150	.008	.2	.01	W	W	W	R	I	W	W	W		½%	---- 547.0 ---- Gradational as prev. Black colored, qtz and alt plagioclase, minor K-spar with abundant black biotite. Calc. parting and veinlets common. Numerous alteration envelopes up to 3 cm. around pyritic fractures. Large cpy assoc with pyritic fractures.
555.0	570.0	13.7	15.0	3762	.120	.008	.2	.01	W	W	W	R	I	W	W	W		2%	---- 561.0 ---- Bleached, fine-med (2mm) quartz granules and pseudomorphs in a white alt plagioclase and K-spar (up to 20%) matrix. Increasing coarser grained bands K-spar up to 50%. Black biotite common in coarser grained rock in fine biotite to pale green chlorite-sericite. Poorly defined stockworked qtz and q-s-p alteration bands around pyritic stringers.
570.0	585.0	14.9	15.0	3763	.090	.015	.4	.01	W	W	W	R	M	W	M	M		2%	Good cpy. rare cc and chlorite mostly on qtz rich bands. A few undigested xenoliths of bio rich rock. Mod. Calc and qtz stringers & also as narrow film along part. ---- 584.5 ---- Fine grained biotite rich, weakly magnetic with qtz granules in a white alt plagio etc.
585.0	600.0	15.0	15.0	3764	.100	.010	.3	.01	W	W	W	R	M	M	+S+	M		1%	---- 588.5 ---- White bleached, f-med grained (2mm) irregular quartz granules and pseudomorphs in a minor alt plagioclase, strongly unattacked K-spar matrix with irregular discs and narrow bands of black biotite. In more intensely altered areas near q-s-p envelopes biotite altered to a pale green chl-sericite. Hairline narrow Near thin white bleached fine grained and q-s-p envelopes around pyritic fractures common. Weak calc. in parting. Some vugs with calcite

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Pervasive	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	F_eS_2	DESCRIPTION
																			PROTOPE ZONE - QTZ DIORITE
600.0	615.0	15.0	15.0	3765	.055	.023	.3	.01	W	W	W	R	M	M	S	M		1%	
615.0	630.0	15.0	15.0	3766	.055	.025	.4	.05	W	M	W	R	W	M	M	M		1%	619.0 — Black biotite abundant 620.4 — calcite in veg (20%) Bleached white, fine and med grad (2mm) quartz-vein granule... fine pseudovenlets in a white alt plagioclase (40%)... bleached-pink unaffected K-spar (20-40%) stockwork... and fracture up to 1 cm. qtz filled veining sometimes with fine pyrite stringer Weak-diss - fresh. biotite to bleached pale green chl...
630.0	645.0	14.9	15.0	3767	.050	.015	.4	.05	W	M	W	R	W	M	M	M		1%	A few. calc parting. Stronger argillic alt than prev. zone but less q-s-a. alt... envelope. Rare veg with calc and calc parting.
645.0	660.0	15.0	15.0	3768	.090	.028	.4	.05	W	M	W	R	W	M	M	M		1%	

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Pe. ft.	∠ to core Axis	Biotite	Sericite Qtz-Sr	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		PROTORE ZONE - QTZ DIORITE
660.0	675.0	14.3	15.0	3769	.155	.015	.4	.01	W	M	M	R	W	M	M	M		Pe prev.
675.0	690.0	15.0	15.0	3770	.090	.008	.5	.01	W	M	M	R	W	M/S	M	M		677.0 Stronger g-s-p alt. around pyrite stringers
690.0	696.0	6.0	6.0	3771	.105	.025	.5	.01	W	M	M	R	W	M/S	M	M		696 End of hole - Caved rods lost in hole

ASSAY SUMMARY

92.0	150.0	56.3	58.0		.141	.003
150.0	300.0	140.3	150.0		.401	.025
300.0	696.0	371.3	396.0		.125	.018
150.0	696.0	511.6	546.0		.200	.015

Core Recovery = 567.9 / 604.0 = 94 %

P 13, DATE COLLARED AUG 29/69 Northing – 22,835,267.4
DATE COMPLETED SEPT 10/69 Easting – 364,523.7
Elev – 4375.6
Dip – 90°
LENGTH 1255.0 ft.
CORE SIZE NQ 0.0 – 1255.0 ft

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perft.	∠ to core Axis	Biotite	Secnd. Qtz Sol.	K-Spar	Kaolin/Argillic	Chlorite	FeS_2	Mineralization/Fracturing	DESCRIPTION
0	10																			Casing – 0 – 10.0 ft
																				LEACHED ZONE – QTZ PORPHYRY
																				White, very fine quartz grains in a felted white-pale green alt. plagioclase, unattacked K-spar matr. with occ. flakes of brown biotite-phlogophite. Abunda.
																				diss. black ... hematite ... Minor tourmalin
																				Rock mod. porous with jarosite coating. Along
																				fractures yellow + black jarosite
10.0	25.0	8.5	15	3772	.070	.005			W	W	W	R	W	W	W	W/M			+	Texture appears to indicate weak – mod pervasive
																				argillic alteration.
																				– in paste, large ants. bleach K-spar
																				Pale green alt plag ofts, bordering cracks.
																				Mod. cracking & fracturing.
																				Occ acicular gypsum. (?)
10.0	25.0	8.5	15.0	3772					W	W	W	R	W	W	W	W/M			+	
25.0	40.0	11.1	15.0	3773	.120	.008			W	W	W	R	W	W	W	W/M			+	
																				Mod-strong cracking and fracturing with
																				veins at fracture junctions becoming
																				common. Goethite and jarosite
																				generally coating fractures.
																				38.0

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perft.	⊥ to core Axis	Biotite	Sericitic Qtz - Ser	K-Spar	Kaolin Argillic	Chlorite	Hematitic Pyritic	DESCRIPTION
																			LEACHED ZONE - QTZ PORPHYRY?
40.0	55.0	10.3	15.0	3774	.135	tr			W	W	R	W	W	W	W	W/M			
55.0	70.0	10.3	15.0	3775	.140	.003			W	W	R	W	W	W	W	W/M			62.0 diffuse ∧s qtz-ser alt. envelope around leached quartz-hematite stain fractures 67.0 Vugs with gypsum(?) coated by dark red limonite 68.0
70.0	85.0	13.6	15.0	3776	.175	tr			W	W	R	W	W	W	W	W/M			
85.0	100.0	15.0	15.0	3777	.210	.003			W	W	R	W	W	W	W	W/M			92.0 - cpy in qtz veinlet 96.9 - 3mm oxidized pyritic fracture

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2 %	Est. Cu%	Est MoS_2 %	Silicification	Qtz Veining	Pervasive	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	Fe Ox	Hem Tourmaline	DESCRIPTION
100.0	115.0	15.0	15.0	3778	.180	tr			W	W	W	R	W	W	W	W/M				LEACHED ZONE - QTZ PORPHYRY?
115.0	130.0	15	15	3779	.195	tr			W	W	M	R	W	W	W	W/M				
130.0	145.0	15.0	15.0	3780	.050	tr	.05	0	W	W	W	R	W	W	W	W/M				130.2 Feldspar Porphyry - lt Bleached, med grad (up to 4mm) subedral plagioclase phenocrysts, scatted fine black biotite books (1mm) and rare quartz phenocrysts in an aphanitic blue matrix. Zoned plag often green core - white rim -132.0 Minor malachite along fractures. QTZ PORPHYR
145.0	160.0	15.0	15.0	3781	.130	tr	.01	.01	W	W	W	R	W	W	W	W/M				String fracturing with smalls vugs and abundant jarosite - goethite

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FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	FeS_2	Hematite Tourmaline	DESCRIPTION
160.0	175.0	15.0	15.0	3782	.120	tr	.01		W	W	M	R	W	W	W	W/M		0	+	LEACHED ZONE - QTZ PORPHYRY?
175.0	190.0	15.0	15.0	3783	.090	tr	.01		W	W	M	R	W	W	W	W/M		0	+	---182 - fine white osicular gypsum(?) present
190.0	205.0	14.5	15.0	3784	.100	.010	.01		W	W	M	R	W	W	W	W/M		0	+	---199.3 - pyrite along oxidized fractures.
205.0	220.0	9.8	15	3785	.160	.003	.01		W	W	M	R	W	W	W	W/M		0	+	

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	FeS_2	Apy Gyp Kaol Tourmaline	DESCRIPTION
							.01		W	W	W	R	W	W	W	W/M	+	0		LEACHED ZONE - QTZ PORPHYRY?
220	235	12.2	15.0	3756	.130	tr	.1		W	W	W	R	W	W	W	W	0	0		224.7 Feldspar Porphyry
235.0	250.0	15.0	15.0	3787	.160	tr	.01		+ W	+ W	+ W	R R	+ W	+ W	+ W	+/++ W/M	+	0		234.0 Qtz Porphyry Disseminated black - jarosite-goethite. Some drusy qtz fractures.
250.0	265.0	12.7	15.0	3788	.180	.005	.01		W	W	W	R	W	W	W	W/M	+	0		266.0 fractured with minor azurite 277.0
265.0	280.0	14.6	15.0	3789	.58	tr	.5		W	W	M	R	W	W		W/M	+	0		267.0 Fl. Malachite common along fractures. 275.0 Feldspar Porphyry 276.0 278.8 QTZ. PORPHYRY

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite-Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	FeS_2	Hematite Tourmaline	DESCRIPTION
																				LEACHED ZONE - QTZ PORPHYRY
280.0	295.0	14.3	15.0	3790	.280	tr	.01		W	W	M	R	W	W	W	W/M			+++	
295.0	310.0	14.5	15.0	3791	.195	.002	.01		W	W	M	R	W	W	W	W/M		0	+++	
310.0	325.0	14.3	15.0	3792	.195	.002	.01		W	W	M	R	W	W	W	W/M		0	+++	
325.0	340.0	15.0	15.0	3793	.150	tr	.01		W	W	M	R	W	W	W	W/M		0	+++	

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf't	∠ to core Axis	Biotite	Sericite Qtz-Ser.	K-Spar	Kaolin Alpillic	Chlorite	FeS_2	Hematite Tourmaline	DESCRIPTION
																				LEACHED ZONE - QTZ PORPHYRY?
340.0	355.0	15.0	15.0	3794	.225	tr	.01		W	W	M	R	W	W	W	W/M	+	0	++ +	349.0 - 0.2' Feldspar Porphyry.
355.0	370.0	15.0	15.0	3795	.215	tr	.01		W	W	M	R	W	W	W	+ S	+	0	++ +	359.5 - 15° chill contact. QTZ PORPHYRY.? Red brown - yellow colored 0.5mm qtz granules occasional bands with up to 5mm qtz phenocryst in a yellow altered plagioclase matrix. Occ blue green alt plagioclase. Occasional fine qtz veinlets. Flakes of phlogopite not common. Minor tourmaline and orange red hematite. Pervasive yellow green epidote staining throughout rock generally fine grain. Minor in parts strong dusty hematite staining imparts red colour to rock. Along strong fracturing red brown - dark brown limonite present. Trace of molybdenite
370.0	385.0	15.0	15.0	3796	.060	tr			W	W	M	R	W	W	W	S				
385.0	400.0	15.0	15.0	3797	.160	tr			W	W	M	R	W	W	W	S				386.0 - Strong hematite staining

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser.	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		LEACHED ZONE - QTZ PORPHYRY
																		Strong hematite staining - [illegible]
400.0	415.0	15.0	15.0	3798	.180	.002			W	W	M	R	W	W	W	S		
415.0	430.0	14.4	15.0	3799	.330	.014			W	W	M	R	W	W	W	S.		
430.0	445.0	15.0	15.0	3800	.135	.007			W	W	M	R	W	W	W	S		
445.0	460.0	15.0	15.0	3801	.130	.009			W	W	M	R	W	W	W	S		

448.0

Disseminated and veinlet of magnetite common

458.0

458.0 - pyrite in center of limonitic fractures

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		ENRICHED ZONE - QTZ PORPHYRY
																		463 - disseminated pyrite and chalcopyrite appears
																		465 AI. L FELDSPAR PORPHYRY
																		467 QTZ PORPHYRY
																		Strong black speckling, orbicular, streaks blood red - hematite and black - pyrite ? chalcocite ?
460.0	475.0	14.7	15.0	3802	.340	.021			W	W	M	R	W	W	W	S		
475.0	490.0	15.0	15.0	3803	.280	.034			W	W	M	R	W	W	W	S		
490.0	505.0	15.0	15.0	3804	.285	.018			W	W	M	R	W	W	W	S		
505.0	520.0	15.0	15.0	3805	.415	.002			W	W	M	R	W	W	W	S		511:0 class chalcopyrite becomes common - thin rims of chalcocite.

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FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf't	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Arg'll'z	Chlorite	DESCRIPTION
																		ENRICHED ZONE - QTZ PORPHYRY
																		521.0 - - py and cpy shows no chalcocite. Chalcocite running cpy in fractures - still yellow-red orange jarosite goes in pores.
520.0	535.0	15.0	15.0	3806	.375	.014			W	W	M	R	S	W	W	S		522.0 clots - up to 5mm with light brown phlogophitic biotite appr
																		- - 525 - clots of brown biotite to 1cm become common altered
																		Biotite seem rims around plagioclase
535.0	550.0	15.0	15.0	3807	.355	.012			W	W	M	R	S	W	W	S		Very little pyrite, just discrete specks of chalcopyr
550.0	565.0	14.4	15.0	3808	.62	.023			W	W	M	R	W	W	W	S		- - 553.5 - - - End of strong biotite
565.0	580.0	14.9	15.0	3809	.185	.016			W	W	M	R	S	W	W	S		- 571.0 - - - - - - - -
																		Biotite clots to 5mm become common in bands separ by white bleached bands without blackspeckling
																		- 576.5 - Calcite on fract
																		- - 578.0 - -

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Hematite Argillic	Chlorite	DESCRIPTION
																		ENRICHED ZONE – QTZ PORPHYRY
580	595	15.0	15.0	3810	.230	.042			W	W	M	R	S	W	W	S		
595.0	610.0	15.0	15.0	3811	.305	.016			W	W	M	R	S	W	W	S		Irregular bands with av. 5mm. brown biotite alots. Black speckling – streak black and red common – hematite Weak pyrite ~1% – Pyrite stringers have rim of limonite Coarse porosity & stain yellow – orange jarosite. Occ. pyrite stringers. 6 – 602 – Biotite rare; red speckling more common.
610.0	625.0	14.4	15.0	3812	.370	.018			W	W	M	R	W	W	W	S		– 623.0 – Disseminated alots to leopard fine blebs & along fractures of biotite. Noticeable decrease in py and cpy mineralization
625.0	640.0	15.0	15.0	3813	.190	.014			W	W	M	R	S	M	W	S		

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Pr ft.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite
640	655	14.9	15.0	3814	.150	.007			W	W	M	R	S	W	W	S	
655.0	670.0	15.0	15.0	3815	.220	.018			W	W	M	R	S	W	W	S	
670.0	685.0	15.0	15.0	3816	.240	.012			W	W	M	R	W	W	W	W	
685.0	700.0	15.0	15.0	3817	.285	.016			W	W	M	R	S	W	W	S	

640.0 — PROTORE ZONE — QTZ PORPHYR

DESCRIPTION

641 — py rimmed by limonite

The intensity of py & cpy varies inversely with biotite content

Intensity of mineralization patchy

Some fine veinlets of magnetite

670.0 — Qtz Latite Porphyry

Weak argillic alt - plag phenocrysts

684.0

678 — K Spar and qtz with dice book biotite along fracture appear to be later than qtz-sericite envelopes

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf't.	c-to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite
700.0	715.0	15.0	15.0	3818	.235	.012			W	W	M	R	S	W	W	S	
715.0	730.0	15.0	15.0	3819	.175	.005			W	W	M	R	S	W	W	S.	
730.0	745.0	15.0	15.0	?458	.140	.019			W	W	M	R	S	W	W	S.	
745.0	760.0	15.0	15.0	459	.285	.019			W	W	M	R	W.	W	W	S	

DESCRIPTION

PROTORE ZONE - QTZ PORPHYRY?

Veinlets of magnetite common. Irregular biotite

712.5 — Feldspar Porphyry.

Yellow ised altered plag. phenocryst up to 5mm in diameter in green soft sericite ma

717.0 — QTZ PORPHYRY?

726.0 — biotite generally as thin widely disseminated fine brown colored books becomes common.

Veinlets magnetite

732.5 — Feldspar Porphyry

Dark-pale grey plagioclase

739.0 — QTZ. PORPHYRY

Dark colored, abundant biotite

746.5

Bleached, minor biotite strong argillic alteration. See first page for description

754.5 — Up to 1cm dark green plagioclase rich euhedral phenocrysts

757.0 — Minor gtz and biotite books

1255.0 – 1164 – green plag. – white glassy matrix

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Pr-ft.	∠ to core Axis	Biotite – 2nd	Sericitic Qtz – Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		PROTORE ZONE – QTZ PORPHYRY
760.0	775.0	15.0	15.0	460	.360	.082			W	W	M	R	W	W	W	S		Bleached, fine grained quartz granules (0.5mm) in a strong argillic altered felted groundmass of plagioclase. K-spar present? Occasional flake of brown biotite. vertical Good hairlike fracturing with pyrite and good disseminated pyrite and chalcopyrite. Some bleached hematite ? thin as stringers and disseminations.
																		becomes – 767 – dark green plagioclases common
775.0	790.0	10.5	15.0	461	.160	.008			W	W	M	R	W	W	W	S		– 773.0 – Strong clots up to 1cm of dark brown biotite and moderate hematite – 779.5 – Fracturing with fine qtz not common and decreases in intensity mineralization. Biotite common in widely spaced 1 ft bands. Disseminated hematite common
790.0	805.0	15.0	15.0	462	.205	.016			W	W	M	R	W	W	W	S		– 804.0 –
805.0	820.0	14.8	15.0	463	.260	.025			W	W	M	R	S	W	W	W/M		Large blebs of biotite – up to 0.1 ft disseminated and along fractures. Hematite disseminated & hairline fractures common

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Pert.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		PROTORE, ZONE - QTZ PORPHYRY?
820.0	835.0	14.4	15.0	#64	.155	.022			W	W	M	R	S	W	W	S		Widely spaced, narrow feldspar-plagioclase phenocryst to Darker color due to increasing amts biotite and irregular lighter colored biotite poor bands, generally better mineralized
835.0	850.0	1.5	15.0	465	.120	.027			W	W	M	R	S	W	W	S		
850.0	865.0	1.50	1.50	466	.175	.025			W	W	M	R	S	W	W	S		—850.0— Darker colored, purplish color due to increasing amts biotite. Magnetite hematite veinlets sometimes present. Rare narrow pyrite stringer. Lighter color more intensely altr narrow bands sometimes present.
865.0	880.0	15.0	1.50	#67	.180	.027			W	W	M	R	S	W	W	S		

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FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser.	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		PROTORE ZONE - QTZ PORPHYRY?
880.0	895.0	14.0	15.0	468	.140	.016			W	W	M	R	S	W	W	S		
895.0	910.0	15.0	15.0	469	.130	.027			W	W	M	R	S	W	W	S		
910.0	925.0	15.0	15.0	470	.145	.022			W	W	M	R	S	W	W	S		920.0 ---- light color, dsicuantin biotite - sometimes narrow biotite darker color. Good pyrite as wall veinlets along cracks & disem. Minor cpy.
925.0	940.0	15.0	15.0	471	.210	.025			W	W	M	R	S	W	N	S		

P. 13

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	<1 to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite
940.0	955.0	15.0	15.0	472	.170	.077			W	W	M	R	S	W	W	S	
955.0	970.0	15.0	15.0	473	.175	.037			W	W	M	R	W/M	W	W	W/M	
970.0	985.0	15.0	15.0	474	.225	.028			W	W	M	R	W/M	W	W	W/M	
985.0	1000.0	15.0	15.0	475	.125	.051			W	W	M	R	W/M	W	W	W/M	

DESCRIPTION

PROTORE ZONE - QTZ PORPHYRY?

To 1cm.

Some pale green euhedral-anhedral phenocrysts & Abundant disseminated pyrite. Hairlike qtz. veinlets.

955.0 Green phenocrysts become more common. Alteration intensity decreasing as pale green plagioclase becomes more common. Hematite along some fractures.

Fine biotite not common.

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	⊥ to core Axis	Biotite	~~Sericite~~ Qtz-Ser	K-Spar	Kaolin Argillic	~~Chlorite~~	DESCRIPTION
																		PROTORE ZONE - QTZ PORPHYRY?
10000	10150	15.0	15.0	476	.120	.123				W	W	M	W	W	W	W/M		One blob of biotite - Plag - white with pale green becoming common.
10150	10300	13.9	15.0	477	.145	.083				W	W	M	W	W	W	W/M		
10300	10450	15.0	15.0	478	.190	.056				W	W	M	W	W	W	W/M		
10450	10600	15.0	15.0	479	.115	.023				W	W	M	W	W	W	W/M		1055 - Dark colored, large amt of dark green alt plag.

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Pyrite	∠ to core Axis	Biotite	Sericite-Qtz-Ser	K-Spar	Kaolin-Chlorite	Epidote	DESCRIPTION
																		PROTOREIZONE - QTZ PORPHYRY?
1060.0	1075.0	15	15	480	.125	.025			W	W	W	R	M	W	W	W/M		Dark bands with fine disseminated biotite and num. dark green alt plag phenocryst become common. Porphyritic texture sometimes present. Rare pyrite stringers with narrow g-s-p alteration envelopes.
1075.0	1090.0	0.8	15.0	481	.300	.069			W	W	W	R	M	W	W	W/M		
1090.0	1105.0	11.6	15.0	482	.160	.012			W	W	W	R	M	W	W	W/M		
1105.0	1120.0	1.50	15.0	483	.110	.016			W	W	W	R	S	W	W	W/M		biotite becomes common.

P.13

FROM.	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Sr	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		PROTORE ? QTZ PORPHYRY ?
1120.0	1135.0	15.0	15.0	484	.190	.023			W	W	W	R	S	W	W	W/M		
1135.0	1150.0	15.0	15.0	485	.170	.051			W	W	W	R	S	W	W	W/M		
1150.0	1165.0	15.0	15.0	486	.190	.018			W	W	W	R	S	W	W	W/M		
																		1164.0
1165.0	1180.0	15.0	15.0	487	.130	.023			W	W	W	R	S	W	W	W/A		Numerous up to 5mm green weakly argillic altered euhedral plagioclase phenocrysts in qtz-wh plagioclase groundmass. Disseminated pyrite minor cpy and hematite.

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite	K-Spar	Kaolin	Chlorite	DESCRIPTION
																		PROTORE ZONE - QTZ PORPHYRY?
1180.0	1195.0	15	15	488	.165	.030			W	W	W	R	S	W	W	W/M		
1195.0	1210.0	14.5	15.0	489	.210	.032			W	W	W	R	S	W	W	W/M		
1210.0	1225.0	14.1	15.0	490	.140	.049			W	W	W	R	S	W	W	W/M		
1225.0	1240.0	15.0	15.0	491	.115	.030			W	W	W	R	S	W	W	W/M		

P13

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	EST Cu %	EST MoS_2 %	SILICIFICATION	BAS LEACHING	PYR FE	< TO CORE AXIS	BIOTITE	SERICITE QTZ-SER	K. SPAR	MAGNETITE		
12/0.0	1255.0	15.0	15.0	492	.095	.035			W	W	W	R.	S	W	W	W/M		

DESCRIPTION

PROTORE ZONE - QTZ PORPHYRY

ASSAY SUMMARY

10.0	265.0	223.0	255		.138	.002
265.0	625.0	355.5	465		.274	.011
625.0	1255.0	500.6	525		.179	.032
265.0	1255.0	956.1	990		.214	.027

Core Recovery 1189.1 / 1245.0 = 95.5 %

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Patton Hill
DIP -65°
CORE SIZE NQ-0.0-478.0 ft
478.0-972.0 ft

Northing 22,835,550.6
LATITUDE
Easting
DEPARTURE 365,008.5
LENGTH
ELEV. 4174.9
AZIMUTH 316°-30'
LENGTH 972.0 ft.

DATE COLLARED SEPT 2/69 HOLE No. P 14
DATE COMPLETED SEPT 10/69 PAGE No. 1 OF 17

Logged by M.P Phillips

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING		2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
0.	24.0																		Casing 0.0 - 24.0 ft
24	40.0	16.0	15.0	3820	tr	tr				W	W	WR	W	W	W	S			24.0 LEACHED ZONE - COARSE-BRECCIA QTZ PORPHYRY closely packed Up to 0.5 ft rounded to angular, generally subrounded, hard, qtz rich. qtz granules in a qtz-sericite groundmass with disseminated pyrite and yellow limonite. Matrix of breccia is a intensely argillic altered grou of yellow white silt plagioclase minor qtz and sericitized biotite. Orange yellow jarosite d throughout in fine cavities
40.0	55.0	15.0	14.3	3821	tr	tr				W	W	WR	W	W	W	S			
55.0	70.0	15.0	15.0	3822	tr	tr				W	W	WR	W	W	W	S			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P14
DATE COMPLETED _____ PAGE No. 2 OF 17

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING		2nd BIOTITE	K—SPAR	SERICITE	ARGILLIC				
70.0	85.0	15.0	15.0	3823	.010	tr				W	W	W R	W	W	W	S.				LEACHED ZONE - COARSE BREC QTZ PORPHYRY
85.0	100.0	15.0	15.0	3824	.010	tr				W	W	W R	W	W	W	S				90.5 — Fine grained allotriomorphic qtz and strongly plagioclase with abundant fine black specs — pyrite altered to limonite, Occasional breccia fragment
100.0	115.0	15.0	14.8	3825	tr	tr				W	W	W R	W	W	W	S				
115.0	130.0	15.0	15.0	3826	.010	tr				W	W	W R	W	W	W	S.				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P14

DATE COMPLETED _____ PAGE No. 3 OF 17

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING		2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
130.0	145.0	15.0	11.4	3827	.005	tr				W	W	W R	W	W	W	S				LEACHED ZONE - COARSE BRECC QTZ-PORPHYRY 131.0 Breccia fragments become more common
145.0	160.0	15.0	15.0	3828	.035	tr				W	W	W R	W	W	W	S				145.0 Breccia now closely packed as previou
160.0	175.0	15.0	15.0	3829	.005	tr				W	W	W	W	W	W	S				158.0 - Abundant tourmaline in porous roc
175.0	190.0	15.0	15.0	3830	.005	tr				W	W	W	W	W	W	S.				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P14

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 4 OF 17

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING		2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
190.0	205.0	15.0	15.0	3831	.005	tr				W	W	W R	W	W	W	S				LEACHED ZONE - COARSE BRE QTZ PORPHYRY
205.0	220.0	15.0	15.0	3832	.005	tr				W	W	W R	W	W	W	S				
220.0	235.0	15.0	15.0	3833	.005	tr				W	W	W R	W	W	W	S				
235.0	250.0	15.0	15.0	3834	.005	.003				W	W	W	W	W	W	S				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P14

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 5 OF 17

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING		2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
250.0	265.0	15.0	15.0	3835	.005	tr				W	W	W R	W	W	W	S				LEACHED ZONE - COARSE BRECCIA - QTZ PORPHYRY
265.0	280.0	15.0	15.0	3836	.060	.020				W	W	W R	W	W	W	S				
280.0	295.0	15.0	15.0	3837	.065	.003				W	W	W R	W	W	W	S				285.0 FINE BRECCIA - QTZ PORPHYRY Groundmass becomes greyer in color (as at top of leached zone) Disseminated pyrite common often having a thin film of chalcocite & limonite along some fractures. Pyrite in Plagioclases show strong argillic alteration. Average size and density of fragments decreases.
295.0	310.0	15.0	13.5	3838	.010	.007				W	W	W R	W	W	W	S				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P14
DATE COMPLETED _____ PAGE No. 6 OF 17

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING		2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
310.0	325.0	15.0	15.0	3839	.030	.017				W	W	W R	W	W	W	S				LEACHED ZONE - FINE BRECCIA QTZ PORPHYRY
325.0	345.0	20.0	15.0	3840	.115	.030				W	W	W R	W	W	W	S				
										W	W	W !	W	W	W	S				-345.0 ENRCHED ZONE - FINE BREC
345.0	355.0	10.0	9.1	3841	.255	.020														QTZ PORPHYRY
355.0	370.0	15.0	15.0	3842	.260	.033				W	W	W	W	W	W	S				--360.0-- Chalcopyrite becomes common. G having a coating of chalcocite

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est. MoS_2 %	Est. FeS_2 %		Silicification	Qtz Veining	Biotite	K-Spar	Sericite	Argillic			
370.0	385.0	15.0	15.0	3843	.250	.037					W	W	W R	W	W	W	S		
385.0	400.0	15.0	13.6	3844	.400	.083					W	W	W R	W	W	W	S		
400.0	415.0	15.0	14.0	3845	.405	.093					W	W	W R	W	W	W	S		
415.0	430.0	15.0	15.0	3846	.310	.040					W	W	W R	W	W	W	S		

ENRICHED ZONE - FINE BRECC
QTZ PORPHYRY
- Close - loosely packed, angular - rolled aver
1 cm. fragments, generally strongly altered. White in a purplish color.

381.0

388.0
Qtz phenocrysts up to 5mm; common

394.0
Diatreme - see description belo

400.0

410.0
Hematite common

416.0

Silicification
Qtz veining
Fract & < to core axis
2nd biot
K spar
Qtz-Ser
Argillic

490.0	505.0	15.0	15.0	2001	.275	.027	W	W	W R	W	W	W	S	ENRICHED ZONE - FINE BRECC QTZ PORPHYRY
505.0	520.0	15.0	14.9	2002	.305	.030	W	W	W R	W	W	W	S	
520.0	535.0	15.0	15.0	2003	.350	.027	W	W	W R	W	W	W	S	522.0 — Hematite common above here. Wisp disseminated clots up to 1cm of tourmaline. Light Yellow jarosite coating porous rock and red brown limonite around pyrite veinlets
535.0	550.0	15.0	15.0	2004	.295	.055	W	W	W R	W	W	W	S	

Silicification
Qtz Veining
Fract. & Lts core axis
Fine Biotite
K-Spar
Qtz-Ser
Argillic

550.0	565.0	15.0	9.8	2005	.195	.051	W W W W W W S R
565.0	580.0	15.0	15.0	2006	.280	.026	W W W W W W S R
580.0	595.0	15.0	14.2	2007	.235	.005	W W W W W W S R
595.0	610.0	15.0	12,2	2008	.290	.115	W W W W W W S R

ENRICHED ZONE - FINE BRECCIA QTZ PORPHYRY

White colored, granular fine grained qtz in a aphanitic qtz ± alt feldspar (20%) m
Looks like altered aplite
Good chalcopyrite with coarse and p pyrite. Some large pyrite fractures with strong ser replacement. Weak ver
Disseminated molybdenite. Limit yellow jarosite common

556.5 –
Diatreme - Purple fine grained qtz granule a qtz-sericite matrix with angular rded up to 0.1 in diameter white c strong argillic alt with abundant fi pyrite minor chalcopyrite and L/m chalcocite coating pyrite & cpy
563.0 – White Breccias

567.5 –
Diatreme - see above
570.0 –
White fine grained allotriomorphic, grey-brow qtz in an aphanitic white altered plagioc fine gr matrix Abundant disseminated pyrite, Minor chalco. Rare flakes of brown biotite
575.5 – – – – – – – – –

Diatreme – qtz and alt pl
Purple to light grey fine grained strong argillic altered matrix with 1mm to angular to rded, yellow to white int argillic altered fragments. Good c pyrite and chalcopyrite with chalc replacement. Soft yellow jarosite common and dark brown limonite pyrite stringers.

579.0 –
ENRICHED ZONE - QTZ PORPHYRY
605.0 – This Bands with strong alteration, abund chalcopyrite wi rims of chalcocite

Silicification • Qtz veining • Fract. ⊥ to core axis • 2nd Gro • K spar • Sericite • Argillic •

ENRICHED ZONE – QTZ PORPHYRY

610.0	625.0	15.0	15.0	2009	.230	.079	W W W R W W W S	White, allotriomorphic fine grained, qtz-, white moderately-strongly altered plagioc (white sericite and microcrystalline quartz) with minor diss brown phlogopitic biotite. Minor tourmaline. The light color and character of plagioclase suggest int argillic alteration. Minor tourmalin very fine Strong disseminated pyrit and mode- weak chalcopyrite. Molybdenite dis and as clusters.
625.0	640.0	15.0	15.0	2010	.330	.056	W W W R W W W S	Occas. unalt sericitized biotite or remnant flake.
640.0	655.0	15.0	14.8	2011	.255	.077	W W W R W W W S	* Note: Move up.
655.0	670.0	15.0	15.0	2012	.290	.067	W W W R W W W S	

- 639 – diss. cc. coating py & cpy. pyrite
- 640.0 – limonite along fractures to
- 640 – reddish brown limon fract.
- 654 – Hematite along fractures

829 to end - strong biotite - dark
829-715 - wk biotite - light brown
~715 white -

Silicification
Qtz Veining
Fract. < 1/2 cm
2nd Gen
K Spar
Qtz-Ser
Argillic

670.0 — PROTORE ZONE QTZ PORPHYRY

- 664 - hematite along fractures with abundant chalcopyrite pyrite stringers

- 676 - Celestite along fract
- - disseminated

670.0	685.0	15.0	15.0	2013	.240	.080	W	W	W R	W	W	W	S	
685.0	700.0	15.0	15.0	2014	.250	.074	W	W	W R	W	W	W	S	
700.0	715.0	15.0	14.3	2015	.315	.082	W	W	W R	W	W	W	S	
715.0	730.0	15.0	15.0	2016	.350	.085	W	W	W R	M	W	W	S	

---- 715.0 ---- Gradational ----

See next page

							Silicification	Qtz veining	Fracture density	2nd bio	K spar	Qtz - Ser	Argillic
730.0	745.0	15.0	14.3	2017	.220	.108	W	W	W R	M	W	W	S
745.0	760.0	15.0	14.8	2018	.160	.180	W	W	W R	M	W	W	S
760.0	775.6	15.0	13.6	2019	.420	.159	W	W	W R	M	W	W	S
775.0	790.0	15.0	15.0	2020	.215	.141	W	W	W R	M	W	W	S

PROTORE ZONE
QTZ. PORPHYRY

Light brown, fine grained allotriomorphic qtz and moderately altered plagioclase with minor K-spar (10%). Weak - moderate distributed biotite as very fine - clots up to 0.1 ft and along shears. Alternating lighter colored, biotite poor sections generally better mineralized and represent greater intensity of qtz-sericite alteration. Good disseminated chalcopyrite and weak disseminated molybdenite. Weak disseminated tourmaline

---- tourmaline weakens

PROTORE ZONE
QTZ PORPHYRY

Carbonate on fractures

							Silicification	Qtz Veining	Fract < to core axis	2nd Gio	K Spar	Qtz - Ser.	Argillic
790.0	805.0	15.0	15.0	2021	.330	.115	W	W	W R	M	W	W	S
805.0	820.0	15.0	15.0	2022	.275	.174	W	W	W R	M	W	W	S
820.0	835.0	15.0	15.0	2023	.220	.161	W	W	W R	M	W	W	S
835.0	850.0	15.0	15.0	2024	.285	.259	W	W	W R	S	W	W	S

816.0 to 854.6 - mod calc along fract.

829.0 - gradational - - - - - - - - - - - -

Brownish grey, fine grained allotriomorphic granular, grey/stream qtz, white to pale green weak-moderately argillic altered plagioclase as fresh pink K-spars (10-20%) Strong disseminated biotite as books as clots up to 0.5 cm often along shears. Biotite a light brown phlogophite. Occasional narrow feldspar porphyry bands with as. dark green aphanitic matrix — Continue next page

836 - some limonite and chalcocite coating pyrite

Some qtz grains appear to be phenocrysts

Silicification · Qtz Veining · Fract fill Bornite · 2nd bio · K Spar · Qtz - Ser · Argillic

PROTORE ZONE
QTZ PORPHYRY

850.0	865.0	15.0	13.7	2025	.295	.154	W W W S W W S	-847.0 - calcite in fracture 854.6 - gypsum
865.0	880.0	15.0	15.0	451	.245	.115	W W W S W W S	biotite is light brown phlogophite Alternating wide bands of light and dark bands which reflected varying amounts of fine brown biotite.
880.0	895.0	15.0	14.6	452	.265	.134	W W W S W W S	Pervasive qtz-sericite pyrite alteration Qtz stringers not common. Abundant eliss pyrite with chalcopyrite. Molybdenite disseminated rarely along fractures. Good porosity to rock
8950	910.0	15.0	15.0	453	.190	.101	W W W S W W S	

PROTORE ZONE
QTZ PORPHYRY

| Silicification | Qtz Veining | Fract. // to core axis | 2nd Bio | K-Spar | Qtz-Ser | Argillic | | |

PROTORE ZONE
QTZ PORPYRY

FROM	TO	LEN	REC	SAMPLE N	Cu %	Mo S2 %	Silicification
							ASSAY DATA
24.0	345.0	321.0	309.0		.016	.003	
345.0	730.0	385.0	371.9		.297	.054	
730.0	972.0	242.0	238.0		.250	.136	
345.0	972	627.0	609.0		.279	.085	
							Core Recovery $\frac{918.9}{948.0} = \frac{96.9}{}$ %

972.0 End of hole.

15-20° AREA - EAST PATTON HILL
CORE SIZE NQ - 0-1187.0 ft.

DATE COLLARED SEPT 11/69
" COMPLETED SEPT 20/69

Northing 22,834,575.1
Easting 363,941.9
Elev. 4566.8
Dip -90°
LENGTH 1187.0 ft.

LOGGED BY M.P. Phillips

Page

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Pr ft.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chloride	DESCRIPTION
0'	8																	Casing - 0-8 ft
8.0	15.0	6.4	7.0	493	.005	.002			W	W	W	R	W	W	W	M		LEACHED ZONE - GRANODIORITE F. Medium-coarse (2-6 mm, ave 3mm in diameter) quartz phenocrysts often inter to form pseudo veinlets in a white, felted structureless argillic altered plagioclase groundmass. Disseminated specks of sericitized biotite? Weak-moderate fine veinlets of black acicular tourmaline. Moderate-weak porosity with orange-yellow jarosite common along fractures and coating pores in rock
15.0	30.0	15.0	15.0	494	tr	.005			W	W	W	R	W	W	W	M		Interjoined qtz phenocrysts often aligned at small angle to core axis, the predominant fracture orientation
30.0	45.0	15.0	15.0	495	tr	tr			W	W	W	R	W	W	W	M		
45.0	60.0	15.0	15.0	496	.005	tr			W	W	W	R	W	W	W	M		

15-90°

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser.	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		LEACHED ZONE - GRANODIORITE
60.0	75.0	15.0	15.0	497	.005	.002			W	W	W	R	W	W	W	W	M	
75.0	90.0	15.0	15.0	498	.005	.005			W	W	W	R	W	W	W	W	M	
90.0	105.0	14.7	15.0	499	tr	.007			W	W	W	R	W	W	W	W	M	Qtz phenocrysts(?) tending to be aligned at steep angle to core axis - 60°-90°
105.0	120.0	15.0	15.0	500	.005	tr			W	W	W	R	W	W	W	W	M	

P 15-90°

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Pr.ft.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		LEACHED ZONE - GRANODIORITE
120.0	135.0	15.0	15.0	751	tr	tr			W	W	W	R	W	W	W	M		
135.0	150.0	15.0	15.0	752	.005	tr			W	W	W	R	W	W	W	M		138.0 – Few specks of hematite
150.0	165.0	15.0	15.0	753	tr	tr			W	W	W	R	W	W	W	M		162.0 – Fine 164.0 – Fresh pyrite in g-s alteration envelopes
165.0	180.0	11.9	15.0	754	.005	.002			W	W	W	R	W	W	W	M		

P15-90°

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2 %	Est. Cu%	Est MoS_2 %	Silicification	Qtz Veining	Pr/ft	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		LEACHED ZONE - GRANODIORITE
180.0	195.0	10.5	15.0	755	.005	.002			W	W	W	R	W	W	W	M		
195.0	210.0	13.6	15.0	756	.005	tr			W	W	W	R	W	W	W	M		196.0 Subhedral-anhedral, white-stained altered plag. phenocrysts up to 3mm in diameter become common, Sericitized book of biotite-diameter 2mm become more common. Tourmaline not as common as previous. 210.0
210.0	225.0	15.0	15.0	757	.005	.002			W	W	W	R	W	W	W	M		217.0 Hematite common. 218
225.0	240.0	10.0	15.0	758	.005	.004			W	W	W	R	W	W	W	M		227.0 Tourmaline along weak fractures. 228.0 Phenocryst often interjoined to form pseudo-. Core very qtz vein. Qtz flooding.

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf't.	∠ to core Axis	Biotite	Sericitic Qtz-Ser.	K-Spar	Kaolin Argillic	Skiterite	DESCRIPTION
																		LEACHED ZONE - GRANODIORITE
240.0	255.0	14.0	15.0	759	.005	tr			W	W	W	R	W	W	W	M		
255.0	270	15.0	15.0	760	.005	tr			W	W	W	R	W	W	W	M		260.0 - Limonite now more orange, Reddish & other than above limonite common along fractures. Tourmaline sometime present in fra
270	285	15.0	15.0	761	.005	tr			W	W	W	R	W	W	W	M		
285	300	14.7	15.0	762	.005	.001			W	W	W	R	W	W	W	S		Minor hematite 289.0 Qtz rich intergrowth of phenocrysts. Tourmal common along fractures and light - dark red brown limonite common along well developed fine fracturing.

P 15 -90°

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser.	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		LEACHED ZONE - GRANODIORITE
300.0	315.0	12.5	15.0	763	.005	.002			W	W	W	R	W	W	W	S		
																		318.0
																		Not many lim. fract, still intens. argillic altration. Highly porous. Less. qtz. flood. back to typical qtz porphyry.
315.0	330.0	8.1	15.0	764	.005	.004			W	W	W	R	W	W	W	S		
330.0	345.0	14.8	15.0	765	.010	tr			W	W	W	R	W	W	W	S		
																		345.0
																		Reddish color mainly. Light to dk red color. pr. mirror pyrite.
																		351.0
345.0	360.0	14.3	15.0	766	.020	tr			W	W	W	R	W	W	W	S		Less qtz flood granite typical porphyritic. Plagioclase white to yellow to very pale green. Yellow to dk Absence of arm. sometimes in fracture.

P15-90°

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf't	∠ to core Axis	Biotite	Sericite Qtz-Ser.	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
3600	3935	15.0	15.0	767	.005	tr			W	W	W	R	W	W	W	S		LEACHED ZONE - GRANODIORITE Some coarse brown tourmaline Tourmaline generally present in qtz rich bands
3750	3900	15.0	15.0	768	.010	tr			W	W	W	R	W	W	W	S		
3900	4050	8.5	15.0	769	.010	.004			W	W	W	R	W	W	W	S		
4050	4200	15.0	15.0	770	.010	.002			W	W	W	R	W	W	W	S		Qtz porph - narrow qtz rich bands common

DDH 15-90

Pg 6/20

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	c to core Axis	Biotite	Sericite Qtz-Sul	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		LEACHED ZONE - CRANDDIORITE
																		Silt flooding fracture formation. Plag - white to pale green. Tourmaline common.
420.0	435.0	15.0	15.0	771	.010	.002			W	W	W	R	W	W	W	S		
435.0	450.0	14.8	15.0	772	.010	.004			W	W	W	R	W	W	W	S		442 - speck of hematite.
450.0	465.0	15.0	15.0	773	.005	.010			W	W	W	R	W	W	W	S		Mainly porph with narrow qtz rich bands.
465.0	480.0	15.0	15.0	774	.005	.006			W	W	W	R	W	W	W	S		471.0 - Purplish color - strong qtz-sericite alteration resulting in qtz in a grey. 1-3 - py - Generally py as limonites. Bands with porphyritic texture common. Tourmaline disseminated mainly along fractures.

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
4860	4950	150	15.0	775	.010	.013			W	W	W	R	W	W	W	S		LEACHED ZONE - GRANODIORITE 490.0 - Qtz. Porphyry with wide bands of intense qtz sericite alteration & common Pale white plagioclase.
4950	5100	150	15.0	776	.010	.004			W	W	W	R	W	M	W	S		530 Pyrite common in q-s-i closely fine stringers Tourmaline weak-moderate disseminated
5100	5250	150	15.0	777	.145	.017			W	W	W	R	W	M	W	S		510.0 ENRICHED ZONE - GRANODIOR Chalcocite coating pyrite becomes common. Rare covellite, and chalcopyrite. Minor bladed hematite Chalco-fine disseminations generally int. assoc. pyrite stringers.
5250	5400	150	15.0	778	.150	.017			W	W	W	R	W	M	W	S		540.0 - q-s-alteration intense

P15

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est. MoS_2%	Silicification	Qtz Veining	Perf't	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
540.0	555.0	15.0	15.0	779	.195	.015			W	W	W	R	W	M	W	S		ENRICHED ZONE - GRANODIORITE Cavico core pyr = in fract w/ fine chalcos.
555.0	570.0	15.0	15.0	780	.130	.008			W	W	W	R	W	M	W	S		chalcocite does not become common. Cpy more common in gtz stringers
570.0	585.0	15.0	15.0	781	.240	.012			W	W	W	R	W	M	W	S		
585.0	600.0	15.0	15.0	782	.255	.015			W	W	W	R	W	M	W	S		

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite
600.0	615.0	15.0	15.0	783	.165	.019			W	W	W	R	W	M	W	S	
615.0	630.0	14.0	15.0	784	.270	.015			W	W	W	R	W	M	W	S	
630.0	645.0	15.0	15.0	785	.470	.019			W	W	W	R	W	M	W	S	
645.0	660.0	15.0	15.0	786	.270	.021			W	W	W	R	W	M	W	S	

DESCRIPTION

ENRICHED ZONE - GRANODIORITE

-620 - ± chalcocite rimming pyr. & py. rare. (diss.)

-615 - 1 cm vein of magnetite

PROTORE ZONE - GRANODIORIT

620.0 - chalky; wide bands of whiten fin grnd q-s-p become common. Color change due to decreasing amt of large qtz grains &c. 2 million bands. 2 wide bands. Dark green veinlets 1/16" of dark green q-s-py. Chalcocite common on pyrite. Hematite common in some narrow bands.

Mdike barely rare becomes common. Hem in parts common diss & acicular weak irreg stringers.

Rare K-spar

Slickensides on fractures at small angle to core axis common

-640 - Dark green q-s alt increases - up to 50% of rock.

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
660.0	675.0	15.0	15.0	787	.225	.017			W	W	W	R	W	M	W	S		PROTORE ZONE - GRANODIORITE White q-s good disc cpy with coating cc. - 667.0 - 1.5cm. pyrite stringer with chalcocite - 668 - Qtz. phenocrysts white matrix become common
675.0	690.0	15.0	15.0	788	.160	.015			W	W	W	R	W	M	W	S		- 685.0 - Biotite becomes common in narrow borders bordering strong q-s-py. alteration Biotite is yellow dissominated in a hypidiomorphic, pale to light grey and fresh K-spar.
690.0	705.0	15.0	15.0	789	.135	.010			W	W	W	R	W	M	W	S		- 703.0 -
705.0	715.0	9.2	10.0	790	.155	.004			W	W	W	R	W	M	W	S		bleached Yellow. bio band with white sands with black & altered biotite becoming common. Chalcocite common coating chalcopyrite

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perft.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Arg.	Chlorite	DESCRIPTION
																		PROTORE-ZONE - GRANODIORITE
715.0	730.0	10.8	15.0	791	.120	.013			W	W	W	R	W	M	W	S		
730.0	745.0	11.0	15.0	792	.120	.015			W	W	W	R	W	M	W	S		735.0 — numerous. White bleached qtz porphyry & strong blu ¼-½ py. bands. Occ narrow biotite wk alt plagioclase bands. - 10-30% K-spar
745.0	760.0	15.0	15.0	793	.105	.006			W	W	W	R	W	M	W	S		745.0 — 746.5 — Yellow and dark green altered plagioclase phenocrysts common. 749.5 —
760.0	775.0	15.0	15.0	794	.235	.088			W	W	W	R	W	M	W	S		occ up 1.0 ft 769 - Grey bands narrower & irregular av. 0.1 ft. Wk cc. coating cpy. Rare blebs

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite
775.0	790.0	14.8	15.0	795	.185	.038			W	W	W	R	W	M	W	S	
790.0	805.0	15.0	15.0	796	.185	.026			W	W	W	R	W	M	W	S	
805.0	820.0	15.0	15.0	797	.170	.013			W	W	W	R	W	M	W	S	
820.0	835.0	15.0	15.0	798	.250	.021			W	W	W	R	W	M	W	S	

DESCRIPTION

PROTORE ZONE – GRANODIORITE

Lmgn... ... ... bands up to 1.5 ft,

Calc. common on ...long pyrite stringers.

Rock type is ... fine grained qtz porphyry occ. mod 2mm.

Occ. remnant bands of wk alt plag and scattered biotite books

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Pyrite	<to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite		DESCRIPTION
																			PROTORE ZONE - GRANODIORITE
8310	8500	150	150	[illegible]99	.165	.019			W	W	W	R	W	M	W	S			
8500	8650	150	150	500	.115	.006			W	W	W	R	W	M	W	S		3%	White, fine-medium (3mm) grained, allotriomorphic-sometimes hypidiomorphic, granular qtz and white filled altered plagioclase and remnants book of bleached biotite. Irregular stockwork, weak-moderate q-s-pyrite all wall rock envelopes averaging 5mm, sometimes bands up to 1". Good pyrite, weak cpy. and molybdenite. Some chalcocite along strong. Minor hematite Rare tourmaline. Occasional slickenside strong fracture flat dipping to core axis
8650	8800	150	150	501	.170	.017			W	W	W	R	W	M	W	S			
8800	8950	150	150	502	.125	.021			W	W	W	R	W	M	W	S			

P16

1,000

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	~~Sericite~~ Qtz-Ser	K-Spar	Kaolin Argillic	~~Chlorite~~	DESCRIPTION
895.0	910.0	15.0	15.0	803	.155	.015			W	W	W	R	W	M	W	S		PROTORE ZONE - GRANODIORITE
910.0	925.0	15.0	15.0	804	.145	.019			W	W	W	R	W	M	W	S		917.0 — Qtz veins and q-s-p alteration becomes common in bands up to 1ft with abundant py, often chalcocite coating py and molybdenite. cpy more common. Fine q-s-p alteration up to 5mm still common Qtz eyes to 3mm become common
925.0	940.0	15.0	15.0	805	.125	.038			W	W	W	R	W	M	W	S		
940.0	955.0	15.0	15.0	806	.145	.021			W	W	W	R	W	M	W	S		

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perft.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		PROTORE ZONE - GRANODIORITE
955.0	970.0	14.1	15.0	807	.120	.021			W	W	W	R	W	M	W	S		
970.0	985.0	15.0	15.0	808	.050	.023			W	W	W	R	W	M	W	S		
985.0	1000.0	15.0	15.0	809	.065	.023			W	W	W	R	W	M	W	S		
1000.0	1015.0	15.0	15.0	810	.130	.025			W	W	W	R	W	S	W	S		--1004-- Alteration decreases as alt. plagioclase yellowish white & slightly hardened. Pale yellow green alteration chiefly highly alt. plagioclases. K-spar associated in previous section not present and veining have been broken down

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		PROTORE ZONE - GRANODIORITE
1015.0	1030.0	15.0	15.0	811	.140	.023			W	W	W	R	W	S	W	S		
1030.0	1045.0	15.0	15.0	812	.115	.023			W	W	W	R	W	I	W	S		1038.0 — Q-s-p becomes more intense ~50%. Altered plagioclase.
1045.0	1060.0	15.0	15.0	813	.145	.012			W	W	W	R	W	I	W	S		
1060.0	1075.0	11.5	15.0	814	.140	.023			W	W	W	R	W	I	W	S		

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Pyrite	∠ to core Axis	Biotite	Sericitic Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	DESCRIPTION
																		PROTORE ZONE - GRANODIORITE
10750	10900	15.0	15.0	815	.155	.023			W	W	W	R	W	I	W	S		
10900	11050	15.0	15.0	816	.160	.025			W	W	W	R	W	I	W	S		--1093-- intense q-c-p - 75% - Yellow mod soft alt plagio and bleached pale green biotite present in alt plagioclase sections.
11050	11200	11.3	15.0	817	.185	.017			W	W	W	R	W	I	W	S		
11200	11350	15.0	15.0	818	.190	.013			W	W	W	R	W	I	W	S		

FROM.	TO.	REC.	LENGTH.	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est. MoS_2%	Silicification	Qtz. Veining	Pr/ft.	∠ to core Axis	Biotite	Sericitic Qtz-Ser	K-Spar	Kaolinite Argillic	Chlorite	DESCRIPTION
																		PROTORE ZONE - GRANODIORITE
1135.0	1150.0	15.0	15.0	819	.125	.014			W	W	W	R	W	I	W	S		
1150.0	1165.0	13.6	15.0	820	.175	.014			W	W	W	R	W	I	W	S		
1165.0	1180.0	15.0	15.0	821	.130	.007			W	W	W	R	W	I	W	S		
1180.0	1187.0	7.0	7.0	822	.110	.007			W	W	W	R	W	I	W	S		1187 – End of hole

ASSAY DATA

8.0	510.0	5020	.006	.003
510.0	690.0	1800	.223	.016
690.0	1187.0	497.0	.142	.017
510.0	1187.0	1667.0	.163	.016

Core Recovery 1121.1 / 1179.0 = 95.1 %

P16-75°

AREA - EAST PATTON HILL LENGTH - 1418 ft

CORE SIZE NQ - 0.0 - 727.0 ft
BQ 727.0 - 1418.0 ft

DATE COLLARED SEPT 11/69
DATE COMPLETED SEPT 25/69

Northing - 23,836,514.9
Easting - 365,158.2
Elev - 4102.1
D.p. - -75°
Az - 226°-30'

Logged by M.P. Phillips

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perft.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite Ser	%FeS_2	DESCRIPTION
0	12'																		Casing - 0-12 ft.
12.0	15.0	2.0	3.0	823	0.065	.002			W	M	W	R	W	W	W	I		—	-12.0 LEACHED ZONE - QTZ PORPHYRY
15.0	30.0	13.8	15.0	824	.065	.013	.05	.01	W	M	W	R	W	W	W	I		—	Light yellowish gray colored, .05 - 5mm quartz phenos often interjoined and having a coating of secondary qua in a yellow intensely quartz-sericite altered matrix contain 10-20% fresh pink k-spars. In more siliceous less altered sections white chalky outlines of subhedral altered plagioclase. Occasional bands 1-2" of grungy-s-py. alteration. Scattered rosettes of acicular black tourmaline. Moderate stockwork of hairline-1cm average 1mm barren grey quartz veins. No visible outward change in alteration from qtz veining.
30.0	45.0	14.4	15.0	825	.085	.013	.05	.01	W	M	W	R	W	W	W	I		—	Orange yellow disseminated common in pervasively fractured. In q-s. pyrite sometimes has thin coat of chalcocite on pyrite and chalcopyrite. Carries by fa -27.0- Large qtz. phenocrysts decrease
45.0	60.0	14.8	15.0	826	.065	Tr	.05	.01	W	M	W	R	W	W	W	I		—	-55.0- Irregular bands with plagioclase become more common. Intensity of alteration decreases?

P16-75°

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Calcite	FeS_2	DESCRIPTION
																			LEACHED ZONE – QTZ PORPHYRY
60.0	75.0	13.8	15.0	827	.060	.002	.05	.005	W+	M	W	R	W	W	W	I		–	
75.0	90.0	14.2	15.0	828	.055	.004	.05	.005	W	M	W	W	W	W	W	I		–	
90.0	105.0	15.0	15.0	829	.060	TR	.05	.005	W–	M	W	W	W	W	W	I		–	
105.0	120.0	13.9	15.0	830	.070	.002	.05	.005	W	M	W	W	W	W	W	I		–	

P 16-75°

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	c-to core Axis	Biotite	Sericitic Qtz-Ser.	K-Spar	Kaolin Argillic	Chlorite	% FeS_2	DESCRIPTION
																			LEACHED ZONE - QTZ PORPHYRY
120.0	135.0	14.8	15.0	831	.060	.008	.05	.005	W	M	W	R	W	W	W	I		½%	~130 - reddish brown limonite becomes common
135.0	150.0	14.8	15.0	832	.100	0.017	.05	.005	W	M	W	R	W	W	W	M		½	
150.0	165.0	13.2	15.0	833	.0050	.010	.05	.005	W	M	W	R	W	W	W	M		½	
165.0	180.0	15.0	15.0	834	0.056	0.010	.05	.005	W	M	W	R	W	W	W	M		½	

DIL-75°

FROM	TO	REC.	LENGTH	SAMPLE NO.	$Cu\%$	$MoS_2\%$	Est. $Cu\%$	Est $MoS_2\%$	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser.	K-Spar	Kaolin Argillic	Chlorite	FeS_2
180.0	195.0	15.0	15.0	835	0.14	0.02	.20	.02	W	W	W	R	W	W	W	H		½%
195.0	210.0	15.0	15.0	836	0.285	0.010	.3	.02	W	W	W	R	W	W	W	H		1%
210.0	225.0	14.4	15.0	837	.490	.042	.45	.03	W	W	W	R	W	W	W	H		2%
225.0	240.0	12.9	15.0	838	.295	.029	.30	.03	W	W	W	R	W	W	W	W/M		2%

180.0 — DESCRIPTION

LEACHED ZONE - QTZ PORPHYRY (SACO)

Fine grained Tonalite?)
Grey fine-med grained (color change in clays from oxide, even texture subidiomorphic granular, strong pervasive q-s-p alteration. Occ. tourmaline
Towards bottom chalky plagioclase phenocrysts become common. Disp. Pyrite rarely attacked and altered to limonite

195.0 — ENRICHED ZONE - QTZ PORPHYRY

Disseminated chalcopyrite with trace of cc. Strong fracturing pyritic limonite. Cc on pyrite not common. Occ molybdenite

210.5 — Malachite along fracture

222.5 — QTZ PORPHYRY - GRANODIORITE(?)

Purplish colored, hypidiomorphic-granular qtz phenocrysts, white, yellowish white and chalky altered plagioclase. Occ pyritic limonite fracture.

237.0 —

Plagioclase chalky, strong alteration. Fine qtz veinlets 30mm with molybdenite fracture fillings

FROM	TO	REC.	LENGTH	SAMPLE NO.	Cu %	MoS_2 %	Est. Cu %	Est MoS_2 %	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	FeS_2	DESCRIPTION
																			ENRICHED ZONE - QTZ PORPHYRY
																			Clay varies from [illegible] according upon intensity of [illegible] alteration. Chalky streaks with the less abundant lenses of fine euhedral chalky plagioclase may indicate original rare sericitized biotite
240.0	255.0	13.1	15.0	839	.310	.033	.35	.05	W	M	W	R	W	W	W	S		2%	249.0 – Biotite up to 2mm, often sericitized common — 251.0
255.0	270.0	15.0	15.0	840	0.205	.010	.3	.03	W	M	W	R	W	W	W	S		2%	263.0 — 30° Feldspar Porphyry Strongly altered plagioclase phenocrysts to 3mm 265.0 — Qtz Porphyry
270.0	285.0	15.0	15.0	841	0.370	.040	.35	.05	W	W	W	R	W	W	W	S			— fine pyrite partly altered to limonite along fracture
285.0	300.0	15.0	15.0	842	0.405	0.029	.45	.03	W	W	W	R	W	W	W	S			Cc common coating pyrite 293.0 — Feldspar Porphyry strongly alt plagioclase phenocrysts with mixed disc biotite 297.0 — Qtz. Porphyry

DIL - 75°

FROM.	TO.	REC.	LENGTH	SAMPLE NO.	Cu%	MoS_2%	Est. Cu%	Est MoS_2%	Silicification	Qtz Veining	Perf.	∠ to core Axis	Biotite	Sericite Qtz-Ser	K-Spar	Kaolin Argillic	Chlorite	FeS_2	DESCRIPTION
																			Qtz Polphyry
300.0	315.0	15.0	15.0	843	0.525	0.040	.50	.05	+ W	++ M	+ W	+ W	+ W	+ W	+ W	+++ S		2%	305.0 – Rded frequent 0.1 ft diameter – med grnd gls and strongly alt. plagioclase
																			311.0 Feldspar Porphyry
																			311.5 Qtz Porphyry
315.0	330.0	15.0	15.0	844	0.53	0.010	.50	.01	W	W	W	W	W	W	W	S			315.5 Feldspar Porphyry
330.0	345.0	15.0	15.0	845	0.510	0.022	.45	.02	W	M	W	W	W	W	W	S			324.5 Qtz Porphyry
																			Hematite and tourmaline common in hairlike stringers
																			— bottom of cc being common
345.0	360.0	15.0	15.0	846	0.400	0.059	.45	.03	W	W	W	W	W	W	W	S			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 16

DATE COMPLETED _____ PAGE No. 7 OF 24

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE (Qtz-Ser)	ARGILLIC				
360.0	375.0	15.0	15.0	847	0.515	0.059	.5	.03	1%	W	M	W R	W	W	W	S				ENRICHED ZONE - QTZ PORPHYRY Pyrite increasing very fine grained Hard white porphyritic qtz matrix with occ dark - pale green alt plagioclase. Rare serrated biotite. Minor diss hematite
375.0	390.0	15.0	15.0	848	0.295	0.035	.3	.03	1%	W	M	W R	W	W	W	S				
390.0	405.0	15.0	14.0	849	0.365	0.035	.4	.03	1%	W	M	W R	W	W	W	S				Cc on preferred recent weathered fractures 402.0 Strong fracture, abundant jarosite, cpy with thin stem of cc
405.0	420.0	15.0	15.0	850	0.465	0.080	.45	.05	2%	W	M	W R	W	W	W	S				403

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. 216
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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE Qtz-Sx	ARGILLIC			
420.0	435.0	15.0	15.0	851	0.465	0.055	.5	.05	2%	W	S	W R	W	W	W	S			ENRICHED ZONE - QTZ PORPHYRY -422.0 - Qtz vein breccia, altered rock fragments
435.0	450.0	15.0	12.8	852	0.390	0.089	.45	.05	2%	W	S	W R	W	W	W	S			- Molybdenite in fine qtz fracture common
450.0	465.0	15.0	15.0	853	0.330	0.082	.45	.05	2%	W	S	W R	W	W	W	S			
465.0	480.0	15.0	15.0	854	0.330	0.049	.30	.07	2%	W	S	W R	W	W	W	S			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 16

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE-Qz-Sx	ARGILLIC			
480.0	495.0	15.0	13.6	855	0.410	0.029	.45	.05	1%	W +	M ++	W R	W +	W +	W +	S. +++			ENRICHED ZONE - QTZ PORP ~~482.0 - Qtz phenocrysts up to 5mm diameter become common, matrix rich in altered white plagioclase subedral - 2mm max. Locally network of qtz veinlets Note: in S.P. - pale green mineral with violet present
495.0	510.0	15.0	15.0	856	0.505	0.032	.45	.07	2%	W	M	R	W	W	W	M			
510.0	525.0	15.0	15.0	857	0.380	0.055	.45	.07	2%	W	M	W R	W	W	W	M			
525.0	540.0	15.0	15.0	858	0.250	0.110	.4	.1	2%	W	W	W R	W	W	W	M			525.0 PROTORE ZONE - QTZ PORPH

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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DATE COMPLETED _____ PAGE No. 10 OF 24

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE Qtz-Ser	ARGILLIC				
540.0	555.0	15.0	15.0	859	0.285	0.057	.3	.05	2%	W	W	W R	W	W	W	S				PROTORE ZONE - QTZ PORPHYR
555.0	570.0	15.0	15.0	860	0.465	0.042	.35	.05	2%	W	W	W R	W	W	W	S				--568— pyrite stringer with red-brown limonite envelope
570.0	585.0	15.0	15.0	861	0.325	0.082	.35	.08	1%	W	W	W R	W	W	W	S				— — suggestion of previously bleached and sericitized biotite
585.0	600.0	15.0	14.6	862	0.290	0.052	.3	.05	1%	W	W	W R	W	W	W	S				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P 16

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 11 OF 24

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SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE (Qtz-Ser)	ARGILLIC				
																				PROTORE ZONE - QTZ PORPHY
600.0	615.0	15.0	15.0	863.	0.230	0.041	.3	.05	1%	W	W	W R	W	W	W	S				
615.0	630.0	15.0	15.0	864	0.205	0.100	.3	.1	1%	W	W	W R	W	W	W	S				
630.0	645.0	15.0	14.0	865	0.290	0.043	.3	.1	1%	W	W	W	W	W	W	S				627.0 BRECCIA. - QTZ PORPHYR
										W	W	W R	W	M	W	S				Loose - well packed, rounded, up to 0.3 ft. fragments of coarse gra strongly altered chloritized biotite- diorite, fine grained biotite rich gra and angular, altered plagioclase & k-spar The matrix is a scattered gran phenocrysts (.05 - 2mm) in a wh hard groundmass - bleached k-spar (5mm) pink k-spar.
645.0	660.0	15.0	15.0	366	0.200	0.065	.3	.1	1%	W	W	W R	W	M	W	S				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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CORE SIZE _____ LENGTH _____

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE Qtz-Ser	ARGILLIC			
660.0	675.0	15.0	15.0	867	0.250	0.033	.3	.05	1%	W	W	W R	W	W	M	S			PROTORE ZONE - BRECCIA - QTZ PORPHYRY
675.0	690.0	15.0	15.0	868	0.240	0.053	.3	.05	1%	W	W	W R	W	W	M	S			
690.0	705.0	15.0	14.3	869	0.150	0.093	.2	.05	1%	W	M	W	W	W	W	S			697.0 Qtz Porphyry. Grey white, fine grained (0.5-1mm) quartz phenocrysts in a white hard aphanitic matrix. Rare sericitized biotite. Minor tourmaline. Strong fine qtz veining (1% often with molybdenite. Dies effervesces rare in qtz veinlets. Gypsum present along fractures
							.2	.05	1%	W	M	W	W	W	W	S			
705.0	720.0	15.0	15.0	870	.100	0.073	.15	.05	1%	W	M	W R	W	W	W	S			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

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SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE Qtz Sr	ARGILLIC				
																				PROTORE ZONE - QTZ PORPHYRY
720.0	735.0	15.0	14.0	871	.095	.033	.1	.03	1% 1/2	W	M	W R	W	W	W	S				
735.0	750.0	15.0	14.8	872	.145	.055	.15	.03	1/2 %	W	M	W R	W	W	W	S				
750.0	765.0	15.0	15.0	873	.135	.027	.15	.03	1/2 %	W	M	W R	W	W	W	S				756.0 — Breccia - Qtz Porphyry ... - Scattered, up to 0.2 gerss average .05 ft rounded fragments of white qtz porphyry, biotite rich to bleached and sericitized biotite granodiorite, Matrix in Qtz. Porphyry (same)
765.0	780.0	15.0	12.3	874	.125	.063				W	M	W R	W	W	W	S				766.0 — 1" Fracture parallel to core axis with horizontal slickenside 767.0

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE-Qtz-Sur	ARGILLIC				
																				PROTORE ZONE - BRECCIA - QTZ PORPHYRY.
																				-784.0- Well packed breccia fragments
780.0	795.0	15.0	15.0	875	.160	.134	.15	.15	1%	W	W	W R	W	W	W	M				-788.0- Rare breccia fragments.
795.0	810.0	15.0 ✓	15.0 ✓	876	.130	.052	.15	.05	1%	W	W	W R	W	W	W	M				
810.0	825.0	15.0 ✓	15.0 ✓	877	.260	.204	.15	.2	2%	W	W	W R	W	W	M	M				-814.0- Fine grained qtz porphyry breccia with soft grey-pale green pervasive alteration with trace disseminated pyrite and molybdenite. Fractures parallel to core axis with slickenside common. Abundant moly along fractures
825.0	840.0	15.0 ✓	15.0 ✓	878	.195	.224	.15	.2	2%	W	W	W R	W	W	M	M				Fine qtz grains in a pale-medium green qtz-sericite-pyrite matrix. Occ small (e.g.) breccia fragments

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P16

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SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE (Qtz-Ser)	ARGILLIC				
840.0	855.0	15.0 ✓	15.0 ✓	879	.210	.205	.2	.2	2%	W	W	W R	W	W	W	M				PROTORE ZONE - BRECCIA - QTZ PORPHYRY
																				--853.0---
855.0	870.0	15.0 ✓	10.0 ✓	880	.225	.169	.2	.2	1%	W	W	W R	W	W	W	S				Grey white, fine grained, allotomorphic-granular, qtz, white chalky altered plagioclase and diss and vein lets of pale dark green soft (altered) plagioclase common. Qtz veining wanting. Occ breccia fragments to 0.1ft. Weak sporadic biotite. Molybdenite common in cracks and disseminated.
870.0	885.0	15.0 ✓	15.0 ✓	881	.200	.082	.2	.2	1%	W	W	W R	W	W	W	S				
885.0	900.0	15.0 ✓	15.0 ✓	882	.270	.156	.2	.15	1%	W	W	W	W	W	W	S				- 895 - - - See page 16

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P16

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SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K – SPAR	SERICITE Qz-Ser	ARGILLIC				PROTOMIC ZONE - BRECCIA - QTZ PORPH Dark colored, silicified biotite [illegible] up to .15 ft become common. Sericitized biotite common.
900.0	915.0	15.0 ✓	15.0 ✓	883	.215	.150	.2	.15	1%	W	W	W R	W	W	W	S				
915.0	930.0	15.0 ✓	15.0 ✓	884	.195	.112	.2	.15	1%	W	W	W R	W	W	W	S				
930.0	945.0	15.0 ✓	14.3 ✓	885	.195	.169	.2	.15	1%	W	W	W R	W	M	M	M				
945.0	960.0	15.0 ✓	15.0 ✓	886	.295	.145	.2	.15	1%	W	W	W R	W	W	W	S.				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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CORE SIZE _____ LENGTH _____

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE (Qtz-Ser)	ARGILLIC			
																			PROTORE ZONE - BRECCIA - QTZ PORPHY
960.0	970.0	10.0 ✓	10.0 ✓	887	.215	.109	.20	.15	1%	W	W	W R	W	W	W	S			960.0 — Rare k-spar. Minor pale-med green plag
970.0	985.0	15.0 ✓	11.1 ✓	888	.150	.260	.2	.2	1%	W	W	W R	W	W	W	S			973.0 —
985.0	1000.0	15.0 ✓	14.6 ✓	889	.145	.139	.2	.2	1%	W	W	W R	W	W	W	M			989.0 — Irregular medium-pale greenish bands qtz and greenish altered plag oil esc sericitized biotite common
1000.0	1015.0	15.0 ✓	15.0 ✓	890	.145	.104	.2	.1	1%	W	W	W R	W	W	W	M			1000.5 —

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P16
DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 18 OF 24
CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE (Qtz-Ser)	ARGILLIC			
																			PROTORE ZONE - BRECCIA - QTZ PORPHYRY
1015.0	1030.0	15.0	15.0	891	.165	.136	.2	.15	1%	W	W	W R	W	W	W	M			
1030.0	1045.0	15.0	14.4	892	.150	.139	.2	.15	1%	W	W	W R	W	W	W	M			— 1030.0 — Numerous up to 0.3' rounded fragments generally qtz, chalky strong argillic altered plagioclase and moderate-abundant sericitized biotite and pink ort. k-spar. Fresh biotite sometimes present in fragments — 1038.5 — 1-0.3' Feldspar Porphyry fragment occ. pyrite stringers
1045.0	1060.0	15.0	15.0	893	.150	.112	.2	.15	1%	W	W	W R	W	W	W	M			
1060.0	1075.0	15.0	13.8	894	.185	.123	.2	.15	1%	W	W	W R	W	W	W	M.			— 1065.0 - becomes ... breccia

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
1075.0	1090.0	15.0 ✓	15.0 ✓	895	.225	.117	.25	.15		W	W	W R	W	W	W	M				PROTORE ZONE - BRECCIA - QTZ PORPHYRY. Matrix of breccia is a pinkish grey, fine grained with white to greenish (depending on color of plagioclase). Occ up to 3mm in diameter quartz phenocrysts. Fragments are fresh - chloritized biotite white chalky medium grained hypidiomorphic granular.
1090.0	1105.0	15.0 ✓	15.0 ✓	896	.260	.139	.25	.15		W	W	W R	W	W	W	M				
1105.0	1120.0	15.0 ✓	14.3 ✓	897	.220	.206	.2	.15		W	W	W R	W	W	W	M				1110.0 Darker color due to increase in soft mafics dark green up to 5cm. altered plagioclase as sparkling and streaks. Green plagioclase-? - may be sericitized biotite
1120.0	1135.0	15.0 ✓	14.6 ✓	898	.185	.151	.2			W	W	W R	W	W	W	M				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P16

DATE COMPLETED _____ PAGE No. 20 OF 24

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE Qtz-Sul	ARGILLIC			
1135.0	1150.0	15.0 ✓	15.0 ✓	899	.205	.127	.20	.15	1%	W	W	W R	W	W	W	S			PROTORE ZONE - BRECCIA QTZ PORPHYRY
1150.0	1165.0	15.0 ✓	13.6 ✓	900	.255	.210	.20	.17	1%	W	W	W R	W	W	W	S			
1165.0	1180.0	15.0 ✓	15.0 ✓	901	.210	.258	.25	.2	1%	W	W	W R	W	W	W	S			
1180.0	1195.0	15.0 ✓	15.0 ✓	902	.245	.330	.15	.25	1%	W	W	W R	W	W	W	S			1192.0 — Phenocrysts(?) and fragments of dark green altered plagioclase - Breccia?

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P16
DATE COMPLETED _____ PAGE No. 21 OF 24

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE Qtz-Sx	ARGILLIC				ZONE PROTOREK BRECCIA - QTZ. PORPHYI
																				As previous
1195.0	1210.0	15.0 ✓	15.0 ✓	903	.265	.180	.2	.15	1	W	W	W R	W	W	W	S				--1202.5-- Occ. dark green plagioclase bands lenses & 'fragments' with qtz phenocrysts.
1210.0	1225.0	15.0 ✓	15.0 ✓	904	.165	.253	.2	.15	1	W	W	W R	W	W	W	S				
1225.0	1240.0	15.0 ✓	15.0 ✓	905	.210	.164	.2	.15	1	W	W	W R	W	W	W	S				--1229.5-- Numerous well packed fragments - rich in sericitized biotites. --1235.0-- Sericitized biotite becomes comm
1240.0	1255.0	15.0 ✓	15.0 ✓	906	.160	.237	.2	.15	1	W	W	W R	W	W	W	S				--1250.5-- See page 22.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P16
DATE COMPLETED _____ PAGE No. 22 OF 24

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K – SPAR	SERICITE (Qtz-Sericite)	ARGILLIC				PROTORE ZONE - BRECCIA - QTZ PORPHYR Well packed. up to 0.3 - rounded - quartz with some light gray anh - fine to medium grained biotite in groundmass and as pervasive overprint Appears to be a secondary biotite microfracture that has been precipitated a light alteration envelope Chalcopyrite, very fine grained, up to 0.1 %, Fine to medium grained, light green
1255.0	1270.0	15.0 ✓	15.0 ✓	907	.18	.683	.2	.1	½ %	W	W	W R	S	W	W	S				
1270.0	1285.0	15.0 ✓	15.0 ✓	908	.2	.096	.2	.1	½	W	W	W R	S	W	W	S				
1285.0	1300.0	15.0 ✓	15.0 ✓	909	.25	.128	.25	.05	½	W	W	W R	S	W	W	S				
1300.0	1315.0	15.0 ✓	14.4 ✓	910	.22	.078	.2	.05	½	W	W	W R	S	W	W	S				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. D16
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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE Qtz-Ser	ARGILLIC			
1315.0	1330.0	15.0 ✓	11.3 ✓	911 ✓	.275	.023	.2	.03	½	W	W	W R	S	W	W	S			PROTORE ZONE - BRECCIA - QTZ. PORPHYRY
1330.0	1345.0	15.0 ✓	15.0 ✓	912	.220	.018	.2	.03	½	W	W	W R	S	W	W	S			-1332.5- very fine grained Dark, chloritized biotite abundant, Carbonate common along fractures -1338.5-
1345.0	1360.0	15.0 ✓	14.6 ✓	913	.150	.023	.2	.03	½	W	W	W R	S	W	W	S			
1360.0	1375.0	15.0 ✓	14.6 ✓	914	.170	.026	.2	.03	½	W	W	W R	S	W	W	S			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P16
DATE COMPLETED _____ PAGE No. 24 of 24

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE QTZ-SX	ARGILLIC		PROTORE ZONE - BRECCIA - QTZ-PORPHYRY
1375.0	1390.0	15.0	12.8	915	.210	.013	.2	.03	½	W	W	W R	S	W	W	S		
1390.0	1405.0	15.0	15.0	916	.240	.029	.2	.03	½	W	W	W R	S	W	W	S		
1405	1418	13.0	13.0	917	.325	.045	.2	.03	½	W	W	W R	S	W	W	S		--1418 - End of hole
12.0	210	198.0	190.3		.087	.008												
210.0	525.0	315.0	305.8		.402	.044												
525.0	780.0	255.0	-250.0		.255	.057												
780.0	1255.0	475.0	460.7		.200	.165												
1255.0	1418.0	163.0	155.7		.221	.039												
			1362.5															

ASSAY DATA

Core Recovery 1362.5 / 1406 = 96.9 %

AREA PATTON HILL
DIP
CORE SIZE NQ 0.0 - 636.0 ft
BQ 636.0 - 997 ft

Northing 22,835,146.0
LATITUDE EASTING
DEPARTURE 363,929.5
LENGTH
Elev 4431.8
Dip -90°
Length 997 ft

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED SEPT 21/69 HOLE No. P 7
DATE COMPLETED OCT 3/69 PAGE No. 1 of 17

Logged by M.P Mudge

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	PYRITE % ↙	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
0.0	7.0																		Casing 0.0 - 7.0 ft.
7.0	15.0	8.0	7.0	918	.025	.002	.01	.001	—	M	M	W	W	W	W	S			7.0 LEACHED ZONE - GRANODIORITE QTZ-PORPHYRY? Abundant black tourmaline in white aphanitic plagioclase matrix 8.5
15.0	30.0	15.0	13.7	919	.015	T	01	.001	—	M	M	W 30	W	W	W	S.			Yellowish colored rock of 2-4mm quartz phenocrysts in a pale yellow-white aphanitic matrix containing altered plagioclase and very fine dark quartz phenocrysts. Occ. subrounded with plag. cleaves. Qtz phenocrysts vary from angular, convoluted to rounded and from clear to intergrowing thru' occ. quartz veinlets ends orientation approx 60° to core axis
30.0	45.0	15.0	15.0	920	.020	T	.01	.001	-	M	M	W	W	W	W	S			Up to 1cm pleochroic garnet bearing Orange yellow pyrrhotite common along fractures and disseminated
45.0	60.0	15.0	10.0	921	.015	.001	.01	.001	—	M	M	W	W	W	W	S			500 - Tourmaline becomes common. Fine phenocrysts uncommon, and large phenocrysts not very prominent, otherwise unchanged

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P17

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 2 OF 17

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRAC.'s ⊥ to Core Axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
60.0	75.0	15.0	9.0	922	.035 ✓	.002 ✓	.01	.001		M	M	W	W	W	W	S		LEACHED ZONE - GRANODIORITE QTZ-PORPHYRY --64.0 - Darker limonitic becomes present. Hematite specks occ. present
75.0	90.0	15.0	10.2	923	.025 ✓	tr ✓	.01	.001		M	M	W	W	W	W	S		
90.0	105.0	15.0	15.0	924	.025 ✓	.002 ✓	.03	.001		M	M	W	W	W	W	S		--95.0 -- Reddish brown limonite on fractures and narrow (cm) qtz alteration envelopes. Qtz-ser veinlets become more common -- Occ. sericitized biotite present
105.0	120.0	15.0	15.0	925	.140 ✓	.002 ✓	.05	.003		W	W	W	W	W	S	M		Yellowish orange, qtz phenocrysts of 3 mm or generally angular-subrounded fine-grained silt plagioclase matrix. Absence of distinct fine qtz phenocrysts in groundmass separates this in rock types. May or may not be Scattered books of biotite in places alteration envelopes absent

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P17

DATE COMPLETED _____ PAGE No. 3 OF 17

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture fillings & core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
120.0	135.0	15.0	14.6	926	.240	.017	.2	.01	2%	W	W	W	W	W	S	M			PROTORE ZONE – GRANODIORITE 123.5 Strong q-s-p alteration Carbonate common upper zone - shearing
135.0	150.0	15.0	15.0	927	.230	.017	.2	.01	2%	W	W	W	W	W	M	M			134.5 Fine-med grained, hypidiomorphic Quartz and pale green-yellow altered plagioclase with weak-moderate sericite biotite. Moderate stockwork q-s-p ca. .05cm wide with bleached biotite free host wk diss. chalcopyrite minor chalcocite stringers often envelope of limonite Occ diss hematite and minor tourmaline
150.0	165.0	15.0	15.0	928	.205	.007	.2	.01	2%	W	W	W	W	W	M	M			162.0 q-s-p not as common ... and continuous ... a pyritic fracture and disseminated
165.0	180.0	15	14.5	929	.260	.012	.25	.01	2%	W	W	W	W	W	W	M			175.5 – Coarser ... present

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P17

DATE COMPLETED _____ PAGE No. 4 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract's // to core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
180.0	195.0	15.0	14.6	930	.215 ✓	.020 ✓	.2	.01	2%	W	W	W	W	W	W	M			PROTORE ZONE - GRANODIORITE
																			-- 19.0 --
																			Bleached, strong pervasive g-s alteration, often chalky, plagioclase and rare coarse grad (5mm) biotite. Random gtz stringers up to 5mm. Tourmaline common as clots along cracks. Strong disseminated pyrite. Limonite after minor pyrite stringers.
195.0	210.0	15.0 ✓	15.0 ✓	931	.295 ✓	.022 ✓	.3	.01	3%	W	W	W	W	W	S	S			-- 203.0 --
																			as prior to 191. Primary disseminated biotite and secondary (?) in clusters along fractures. Pyrite stringers, widely spaced and narrow alteration envelopes. Minor coarse gtz common.
210.0	225.0	15.0 ✓	15.0 ✓	932	.295 ✓	.017 ✓	.3	.01	2%	W	W	W	W	W	W/M	M			
225.0	240.0	15.0 ✓	15.0 ✓	933	.225 ✓	.010 ✓	.2	.01	2%	W	W	W	W	W	W/M	M			Disseminated black biotite common. Rock pulled strong grasp becomes chalky

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P17

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract. fill & core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
240.0	255.0	15.0	15.0	934	.195	.024	.25	.01	2%	W	W	W	W	W	M	M			PROTORE ZONE - GRANODIORITE Increased qtz + some fracturing extends outwards from sphalerite veining. Py only not common, mainly as pyritic fractures.
255.0	270.0	15.0	14.9	935	.255	.015	.25	.01	2%	W	W	W	W	W	M	M			--258' Dark green phenocrysts common --261.5-- --263.0 Qtz veining up to 1cm with m moly --266.0
										W	W	W	W	W	S	S			Strong alteration, bleaching & sericite common biotite & Tourmaline in fractures and disseminated common
270.0	285.0	15.0	15.0	936	.255	.030	.25	.01	2%	W	W	W	W	W	S	S			--277- fracture with horizontal slickensides
285.0	300.0	15.0	15.0	937	.155	.030	.15	.01	1%	W	W	W	W	W	S	S			--293.0--
										W	W	W	W	W	I	I			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P17

DATE COMPLETED _____ PAGE No. 6 OF 17

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract's & % core mins	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
300.0	315.0	15.0 ✓	15.0 ✓	938	.225 ✓	.008 ✓	.2	.01	2%	W	W	W	M	W	W	M				PROTORE ZONE - GRANODIORIT Gray, med grained (2-3mm) hypidiomorphic offen allotriomorphic granular, qtz, pale green plagioclase with weak - moderate dissemenated primary and fracture secondary biotite (2mm) Occ strongly altered, strong q-s chalky plagioclase bands. Wk q-s-p envelopes. Sometimes biotite bleached to light green sericite
315.0	330.0	15.0 ✓	15.0 ✓	939	.240 ✓	.027 ✓	.2	.01	2%	W	W	W	M	W	W	M				
330.0	345.0	15.0 ✓	15.0 ✓	940	.295 ✓	.055 ✓	.25	.01	2%	W	W	W	M	W	W	M				--3345--- Pale green altered plagioclase common with occ abundant secondary biotite
345.0	360.0	15.0 ✓	15.0 ✓	941	.295 ✓	.055 ✓	.25	.01	2%	W	M	W	W	W	M	I				--3440--- Strong bleached, chalky altered plagioclase strong q-s-p Qtz veining common Disseminated and vein fill tourmaline common. Gypsum up to 1cm in occ veins and along fractures.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 17
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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract. % core c/s	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
																			PROTORE ZONE - GRANODIORITE
360.0	375.0	15.0	15.0	942	.305	.023	.35	.01	3%	M	S	W	W	W	S	H			361.0 Strong qtz flooding, and strong sericitic alteration 379.0 Bleached, fine-medium grained, f pulverized granular qtz, strong sericitic alteration, clay, kaolinite clays, and quartz fracturing often. Abundant and altered biotite. Weak-moderate network 5mm qtz-s alteration stockwork veining irregular bands up to 5 ft of qtz gypsum veining. Gypsum and tourmaline veinlets occ. hematite
375.0	390.0	15.0	15.0	943	.245	.027	.25	.01		W	M	W	W	W	M	S			393.0 - strong gypsum veining - rare
390.0	405.0	15.0	15.0	944	.255	.032	.25	.01		W	M	W	W	W	M	S			
405.0	420.0	15.0	14.7	945	.285	.067	.25	.03		W	M	W	W	W	M	M/S			409 - abundant coarse qtz veining 410.0 - qtz-pebble breccia, fragments and breccia, rounded with [illegible] fragments. Secondary kaolinite alteration as hematite

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P17

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SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract. % core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
420.0	435.0	15.0 ✓	15.0 ✓	946	.220 ✓	.040 ✓	.2	.01	2%	W	W	W	W	W	M	M		
435.0	450.0	15.0 ✓	15.0 ✓	947	.150 ✓	.024 ✓	.2	.01	2%	W	W	W	W	W	M	M		
450.0	465.0	15.0 ✓	15.0 ✓	948	.295 ✓	.027 ✓	.25	.01	2%	W	W	W	W	W	S	M		
465.0	480.0	15.0 ✓	15.0 ✓	949	.205 ✓	.027 ✓				W	W	W	W	W	S	M		

DESCRIPTION

PROTORE ZONE - GRANODIORITE

423.0 ✓ fleshcolored

Pale green-wh plagioclase-bearing common. Sec. biotite-malate on fractures and diss. black biotite common. Qtz-s-p. mod w/ a fine-k of plagioclase and alteration of biot in 0.2'-3' bands.

460.0 Feldspar Porphyry.

Grey weak-moderate up to 2 mm, av 1 mm pale greenish yellow-wh plagioclase phenocrysts in dark green-grey aphanitic containing occ up to 3mm qtz phenocrysts and 1-2 mm diss. biotite.

471.5

See page 9.

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. D17

DATE COMPLETED _____ PAGE No. 9 OF 17

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract's & % core affected	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
480.0	495.0	15.0	15.0	950	.180	.024	.2	.01	2%	W	W	W	W	W	W	M		
495.0	510.0	15.0	15.0	961	.150	.013	2	.01	2%	W	W	W	W	W	W	M		
510.0	525.0	15.0	13.7	962	.245	.027	.25	.01	2%	W / W	W / W	W / W	W	W	W / S	S / S		
525.0	540.0	15.0	15.0	963	.295	.013	.25	.01	2%	W	W	W	M	W	W	M		

DESCRIPTION

PEOTORE ZONE - GRANODIORITE

Fleah grey, black specks, medium grained (?) hypidiomorphic-granular, qtz, pale green to yellowish white altered plagioclase, minor k-spar (5%) and moderate disseminated biotite Wk g-s-p where present approx 1cm wide Occ up to 1cm clots of secondary biotite

-490 - biotite after hornblende?

-516.0 Strong g-s and argillic alteration. Occ mod-dark green. Tourmaline common as disseminated and stringers

-527.5 - As prior 516.0ft. Biotite clumps and secondary biotite ? disseminated and ~~rectangular~~ irregular shaped some brown suggests alteration of hornblende

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P17

DATE COMPLETED _____ PAGE No. 10 OF 17

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract. & qtz. core pcs	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
540.0	555.0	15.0	15.0	964	.200	.021	.20	.01	2%	W	W	W	M	W	W	M		
555.0	570.0	15.0	15.0	965	.295	.024	.2	.01	2%	W	W	W	M	W	W	M		
570.0	585.0	15.0	15.0	966	.245	.016	.25	.61	2%	W	W	W	M	W	W	M		
585.0	600.0	15.0	14.3	967	.205	.011	.25	.01	2%	W	W	W	M	W	W	M		

DESCRIPTION

PROTORE ZONE - GRANODIORITE

-558.5- 0.2' bands (black + dark grey) parallel to core axis

-578.5-

Dark green, g-s - pale section parallel to core axis.

-582.0-

-591.0- 0.1' lense of hematite, [illegible]

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P17

DATE COMPLETED _____ PAGE No. 11 OF 17

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture fillings & core angle	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
600.0	615.0	15.0	15.0	968	.230	.040	.25	.03	3%	W	W	W	M	W	W	M			
615.0	630.0	15.0	15.0	969	.250	.044	.25	.03	3%	W	W	W	M	W	W	M			
630.0	645.0	11.5	15.0	970	.240	.026	.25	.02	3%	W	W	W	W	W	W	M			
645.0	660.0	15.0	15.0	971	.255	.021	.25	.02	3%	W	W	W	W/M	M	W	M			

DESCRIPTION

PROTORE ZONE - GRANODIORITE

-613.0 - vuggy qtz vein with minor molybdenite

-617.0 - 2mm chalcopyrite stringer

-620.0 Feldspar Porphyry
Pale green, fine grained matrix with fine weak disseminated biotite, one 3mm qtz and white weakly altered phenocrysts (plagioclase) Rare k-spar.

-642.0 Random hematite stain on fracture & alteration

-643.0

-647.0 GRANODIORITE
As previous to 618.0 — more chloritic secondary biotite not as much

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. 17

DATE COMPLETED _____ PAGE No. 12 OF 17

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture fillings & core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
660.0	675.0	15.0	11.1	972	.240	.021	.25	.01	3%	W	W	W	W/M	W	W	M			PROTORE ZONE - GRANODIORITE
										W	W	W	W	W	S	S			669.5 — Grey white, bleached strong qtz-sericite alteration often altered to pale green sericite Occ remants of dark biotite
675.0	690.0	15.0	15.0	973	.215	.026	.3	.01	3%	W	W	W	W	W	W	M			682.0 — Feldspar Porphyry Greenish, aphanitic, dark-pale green qtz-sericite matrix with occasional up to 3mm white-pale green altd plagioclase phenocrysts and minor 0.5mm books of black biotite Occ sec. biotite along fractures.
690.0	705.0	15.0	14.8	974	.335	.025	.3	.01	3%	W	W	W	W	W	W	M			
705.0	720.0	15.0	15.0	975	.255	.022	.2	.02	3%	W	W	W	W/M	W	W	M			705.5 — GRANODIORITE.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. 17
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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture fillings core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
720.0	735.0	15.0	15.0	976	.195	.049	.2	.02	3	W	W	W	W/M	W	W	M			
735.0	750.0	15.0	15.0	977	.265	.029	.25	.02	3	W	W	W	W/M	W	W	M			
750.0	765.0	15.0	15.0	978	.265	.020	.2	.02	3	W	W	W	W	W	M	M/S			
765.0	780.0	15.0	15.0	[illegible]	[illegible]	.172	.25	.05	3	W	M	W	W	W	M	S			

PROTORE ZONE – GRANODIORITE

Gray, black speckled, hypidiomorphic granular, qtz – dark generally pale gre... altered plagioclase and moderate pr... (?) biotite and occasional to tem vein... and clots of biotite. Moderate – ... 0.5 cm q-s.py irregular envelopes surrounded by strong argillic envelop...

– 734.0 – abundant fine grained biotite in 0.3 – band.

– 740.0 – 5mm gypsum filled fracture – 20° core axis

– 741.0 –

– 744.0 –

Bleached, white resinous altered plagio... weak loss biotite often bleached and sericitized.

– 761.0 – Strong qtz veining and q-s-p... alteration, abundant carbonate... filled fractures – to 1cm. ... other with molybdenite...

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. 17
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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract. % to core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
780.0	795.0	15.0	15.0	980	.345	.049	.3	.05	3%	W	W	W	W	W	M	S.			PROTORE ZONE - GRANODIORITE Strong argillic alteration, bands with weak moderate biotite separated by silicified and sericitized biotites. Occ. narrow - 1 ft. biotite rich bands. Rare, to 0.1 ft. secondary
795.0	810.0	15.0	15.0	981	.280	.029	.3	.02	3%	W	W	W	W	W	M	S			
810.0	825.0	15.0	15.0	982	.230	.022	.3	.02	3%	W	W	W	W	W	M	S			823.0 Lower Alternating bands of q-s-py and pale green argillic altered biotite rock and strongly altered blacked biotite rock. Carbonate common in fractures
825.0	840.0	15.0	15.0	983	.255	.051	.3	.03	3%	W	W	W	W	W	M	M/S.			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. 17

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract. 1-2% core ~15	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
840.0	855.0	15.0	9.7	984	.275	.051	.3	.03	3%	W	W	W	W	W	M/S	M/S			PEDIMENT ZONE - GRANODIORITE Molybdenite present in fracture coatings
855.0	870.0	15.0	10.0	985	.235	.039	.3	.03	3%	W	W	W	W	W	M/S	M/S			- - - Strong argillic alteration decreases slightly
870.0	885.0	15.0	15.0	986	.210	.046	.2	.03	3%	W	W	W	W	W	M/S	M			
885.0	900.0	15.0	15.0	987	.245	.056		.05	3%										887.0 - - -

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. 17
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SAMPLE AND ASSAY DATA

FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%
900.0	915.0	15.0 ✓	14.8 ✓	988	.195 ✓	.032 ✓	.2	.02	3%
915.0	930.0	15.0 ✓	15.0 ✓	989	.175 ✓	.100 ✓	.2	.02	3%
930.0	945.0	15.0 ✓	15.0 ✓	990	.215 ✓	.076 ✓	.2	.02	3%
945.0	960.0	15.0 ✓	15.0 ✓	991	.205 ✓	.042 ✓	.2	.02	3%

ALTERATION

SILICIFICATION	QTZ. VEINING	Fracturing & core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC
W	W	W	W	W	M	M
W	W	W	W	W	W	M/S
W	W	W	W	W	W	M/S
W	W	W	W	W	W	M/S

DESCRIPTION

PROTORE ZONE - GRANODIORITE

Grey, medium grained p/p chloritized granular, gtz and poikilitic K-spar altered plagioclase with moderate disseminated biotite sometimes seriate near q-s-p envelopes. Large blebs (1cm) ace. biotite common mortar fractures. Wide bands of dark colored, intense q-s alteration matrix containing weak disseminated biotite. Magnetite in hair like cracks, also common. Carbonate is present in veins and altered fractures.

900 - Grey aphanitic gtz-ser-pyrite altering

923.0 - Similar to 1st granodiorite. Lower contact strongly q-s modified biotite altered blocks with bands of moderate, weak q-s alteration. Minor ace. biotite (?)

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P17

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract. fill & core pits	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
																			PROTORE ZONE - GRANODIORITE
960.0	975.0	15.0	15.0	992	.175	.025	.2	.02	3	W	W	W	W	W	W	M/S			--965.0--- Moderate altered plagioclase in medium grained moderate biotite rock one narrow strongly altered bands
975.0	990.0	15.0	15.0	993	.201	.642	.2	.02	3	W	W	W	W	W	W	M/S			
990.0	997	7.0	7.0	994	.185	.022	.2	.02	3	W	W	W	W	W	W	M/S			-997.0-End of hole.
									ASSAY DATA										
7.0	120.0	113.0	94.9		.053	.002													
120.0	150.0	30.0	29.6		.235	.017													
150.0	997.0	847.0	825.9		.242	.032													
120.0	997	877.0	855.5		.242	.031													
																			Core Recovery 950.4 / 990.0 = 96.0%

Northing 22,935,570.0

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Klaza Mountain Area
DIP
CORE SIZE NQ 0.0 – 742.0 ft
BQ 742.0 – 868.0 ft

LATITUDE
DEPARTURE 365, 681.2
LENGTH
ELEV 1,023.1
DIP -30°
LENGTH — 880.0 ft

DATE COLLARED Sept 24/69 HOLE No. [illegible]
DATE COMPLETED Oct 4/69 PAGE No. 1 of 15

Logged by M.P. McGee

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING		2nd BIOTITE	K – SPAR	SERICITE	ARGILLIC			
0	15																		Casing 0.0 – 16.0 ft
15.0	30.0	14.0	14.0	[illegible]	.010	.200	.01	.001		W	W	W	W	W	W	I			16.0 LEACHED ZONE – GRAND DIORITE White, up to 5 mm. aggregates and to gte phenocrysts' often large and to form pseudo vacuoles in an off white groundmass which is sufficient highly altered plagioclase (gte universally). Completely sericitized biotite book. Tourmaline common. Pervasive yellow-orange veinlets cutting fine cavities and along fractures. Qtz – 20 – 60%
30.0	45.0	15.0	15.0	[illegible]	.001	tr	.01	.002		W	W	W	W	W	W	I			Fine equigranular matrix and look like fine gte phenocrysts. Suggests the original rock was a coarse grained granodiorite. The gte phenocrysts are recrystallized as recrystallized quartz feldspar. Contains [illegible] fracture fillings.
45.0	60.0	15.0	15.0	[illegible]	[illegible]	[illegible]	[illegible]	.002		W	W	W	W	W	M	I			reddish brown
																			77.0
																			Recent pipe

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. _____

DATE COMPLETED _____ PAGE No. _____ OF _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture & Vein Fillings	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
60.0	75.0	15.0	14.7	9[illegible]	.010	.002	.01	.001		M	W	W	W	W	W	I				LEACHED ZONE - A PANNINGRITE: Fractured gtz porphyry; not as much Cu, narrow alt'n section with 1-2mm gtz phenocrysts. Fractures with colour, black brown limonite common. Section with g-s alteration occasionally present
75.0	90.0	15.0	6.9	9[illegible]	.020	.4	.01	.001		M	W	W	W	W	W	I				
90.0	105.0	15.0	15.0	1[illegible]	.015	.2	.01	.001		M	W	W-I	W	W	W	I				
105.0	120.0	15.0	14.9	[illegible]	[illegible]	[illegible]	.01	.001		M	W	W	W	W	W	I				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. _____

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture & core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
120.0	135.0	15.0 ✓	11.6 ✓	2702	.010 ✓	tr ✓	.01	.001		M	W	W	W	W	M	I			LEACHED ZONE - GRANODIORITE often up to 1/4 plagioclase rich bands.
135.0	150.0	15.0 ✓	15.0 ✓	2703	.005 ✓	tr ✓	.01	.001		M	W	W	W	W	M	I			
150.0	165.0	15.0 ✓	8.0 ✓	2704	.005 ✓	tr ✓	.01	.001	½%	M	W	W	W	W	M/S	I			147.0 - Pyrite appears in sheeted-vein-py alteration bands. Qtz-vein-alteration stronger
165.0	180.0	15.0 ✓	15.0 ✓	2705	.010 ✓	tr ✓	.01	.001	½%	M	W	W	W	W	M/S	I			
180.0	195.0	15.0 ✓	15.0 ✓	2706	.010 ✓	tr ✓	.01	.001	½%	M	W	W	W	W	M/S	I			

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 12
DATE COMPLETED _____ PAGE No. 4 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING Fracture & vein core angle		2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
180.0	195.0	15.0 ✓	15.0 ✓	2706	.005 ✓	TR ✓	.05	.001	½%	M	W	W	W	W	M	H			LEACHED ZONE - GRANODIORITE
195.0	210.0	15.0 ✓	15.0 ✓	2707	.005 ✓	TR ✓	.05	.001	½	M	W	W	W	W	M	H			
210.0	225.0	15.0 ✓	15.0 ✓	2708	.030 ✓	TR ✓	.1	.001	1%	M	W	W	W	W	S	H			200.0 Pyrite common in stringers with 2-4mm reddish-brown limonite halo. Siliceous, medium-coarse type alteration. Strong stockwork of qtz stringers with 1cm - 1½ qtz-sericite-pyrite alteration. Between qtz-sp. strong argillic alteration.
										M	W	W	W	W	S	H			225.0 PROTORE ZONE - GRANODIORITE
225.0	240.0	15.0 ✓	14.5 ✓	2709	.045 ✓	TR ✓	.1	.001	1%	M	W	W	W	W	S	H			
										M	W	W	W	W	S	H			240.0 See page 5

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 14

DATE COMPLETED _____ PAGE No. 5 OF _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fine-grained % of ppt.	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				PROPYLITE ZONE + DIAMOND
240.0	255.0	15.0	15.0	270	.150	tr	.2	.001	2%	M	W	W	W	W	M	I				Thin film of fine grained often present along pyrite stringers (1-2mm) Rare pyrite stringers 1% 0.1 ft.
255.0	270.0	15.0	9.1	271	.110	.002	.1	.001	2%	M	W	W	W	W	M	I				Strong medium (5mm) grained aggregates
270.0	285.0	15.0	15.0	272	.130	tr	.1	Te	2%	M	W	W	W	W	M	S				275.0 Disseminated pale-dark green coarse biotite textures commonly Qtz-sericite pyrite alteration decreases Plagioclase + cream white - pale green.
285.0	300.0	15.0	15.0	273	.110	.002	.1	.001	2%	M	W	W	W	W	M	S				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 13

DATE COMPLETED _____ PAGE No. 6 OF _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracturing & veining	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
300.0	315.0	15.0 ✓	15.0 ✓	2714	.083 ✓	tr ✓	.1	.001	2%	M	W	W	W	W	W	S		
315.0	330.0	15.0 ✓	15.0 ✓	2715	.153 ✓	tr ✓	.1	.001	2%	M	W	W	W	W	W	S		
330.0	345.0	15.0 ✓	15.0 ✓	2716	.130 ✓	tr ✓	.1	.001	2-3%	M	W	W	W	W	M	S.		
										M	W	W	W	W	M	I		
345.0	360.0	15.0 ✓	15.0 ✓		✓	✓			2-3%	M	W	W	W	W	I	I		

DESCRIPTION

PROTORE ZONE - GRANODIORITE

321.5 – 322.5 FELDSPAR PORPHYRY
Aphanitic fine-grained matrix with fine and abundant fine-grained feldspar with rare to minor qtz phenocrysts.

GRANODIORITE

336.0 end of sec. biotite
Strong argillic alteration. Occ slickensiding along fracture-parallel to core axis

350.0 Minor physical loss, completely core axis

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P18

DATE COMPLETED _____ PAGE No. 7 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract's & K's coarse	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
360.0	375.0	15.0	14.0	2718	.160	tr	.1	.001	2% -3%	M	W	W	W	W	I	I			PROTORE ZONE - GRANODIORITE
375.0	390.0	15.0	15.0	2719	.100	tr	.1	.001	2-3	M	W	W	W	W	I	I			
390.0	405.0	15.0	15.0	2720	.230	tr	.1	.001	2-3	M	W	W	W	W	I	I			
405.0	420.0	15.0	15.0	2721	.220	tr	.1	.001	2-3	M	W	W	W	W	I	I			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P13

DATE COMPLETED _____ PAGE No. 8 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture & Core Veins	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
420.0	435.0	15.0 ✓	9.8 ✓	2722	.130 ✓	tr ✓	.1	.001	2-3%	M	W	W	W	W	I	I			PROTORE ZONE - GRANODIORITE
435.0	450.0	15.0 ✓	14.5 ✓	2723	.140 ✓	tr ✓	.1	.001	2-3	M	W	W	W	W	I	I			
450.0	465.0	15.0 ✓	13.1 ✓	2724	.065 ✓	tr ✓	.1	.001	2-3	M	W	W	W	W	I	I			
465.0	480.0	15.0 ✓	14.0 ✓	2725	.050 ✓	tr ✓	.1	.001	2-3	M	W	W	W	W	I	I			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P18

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SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracturing % Core Loss	2nd BIOTITE	K – SPAR	SERICITE	ARGILLIC			
480.0	495.0	15.0 ✓	12.6 ✓	2226	.095 ✓	tr ✓	.1	.001	2-3%	M	W	W	W	W	I	I			
495.0	510.0	15.0 ✓	15.0 ✓	2227	.080 ✓	tr ✓	.1	.001	2-3	M	W	W	W	W	S	I			
510.0	525.0	15.0 ✓	14.8 ✓	2228	.130 ✓	tr ✓	.1	.001	2-3	M	W	W	W	W	S	I			
525.0	540.0	15.0 ✓	15.0 ✓	2229	.110 ✓	tr ✓		.001	2-3	M	W	W	W	W	S	I			

DESCRIPTION

PROTORE ZONE - GRANODIORITE

- 505.0 – gradational. Yellow plagioclase feldspars more common.

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P18

DATE COMPLETED _____ PAGE No. 10 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture & core fills	2nd BIOTITE	K—SPAR	SERICITE	ARGILLIC			
540.0	555.0	15.0 ✓	15.0 ✓	>730	.060 ✓	.004 ✓	.1	.001	2-3%	M	W	W	W	W	S	I			PROTORE ZONE - GRANODIORITE
555.0	570.0	15.0 ✓	15.0 ✓	>731	.025 ✓	.002 ✓	.1	.001	2-3	M	W	W	W	W	S	I			
570.0	585.0	15.0 ✓	14.3 ✓	>732	.150 ✓	tr ✓	.1	.001	2-3	M	W	W	W	W	S	I			
585.0	600.0	15.0 ✓	15.0 ✓	>733	.100 ✓	tr ✓	.1	.001	2-3	M	W	W	W	W	S	I			Yellowish platy clear grained quartz seen w/ chalky white appearing grains enclosed 593.0 — Strong gtz-ser-pyrite alteration
										M	S	S	S	S	I	I			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. D18

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 11 OF _____

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fractures & one mins	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
600.0	615.0	15.0 ✓	15.0 ✓	2734	.040 ✓	tr ✓	.1	.001	2-3	M / W	W / W	W / W	W / W	W / W	I / S	I / S/I				PROTORE ZONE - CRANODIORI
615.0	630.0	15.0 ✓	15.0 ✓	2735	.040 ✓	tr ✓	.1	.001	2-3	W	W	W	W	W	S	S/I				-609.0 - - Yellowish to white altered plagioclase with pale-medium green sericitic biotite.
630.0	645.0	15.0 ✓	15.0 ✓	2736	.025 ✓	tr ✓	.05	.001	2-3	W	W	W	W	W	S	S/I				
645.0	660.0	15.0 ✓	14.1 ✓		.025 ✓	tr ✓	.05	.001	2-3 ✓	W	W	W	W	W	S	S/I				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 18

DATE COMPLETED _____ PAGE No. 12 OF _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture fillings core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
660.0	675.0	15.0 ✓	15.0 ✓	2738	.035 ✓	tr ✓	.05	.001	2-3	M	W	W	W	W	S	S/I		PROTORE ZONE - GRANODIORITE
																		669.5 — Abundant dark green black platy in irregular bands.
675.0	690.0	15.0 ✓	15.0 ✓	2739	.020 ✓	tr ✓	.05	.001	2-3	M	W	W	W	W	S	S/I		676.5 — — — — —
690.0	705.0	15.0 ✓	15.0 ✓	2740	.030 ✓	tr ✓	.05	.001	2-3	M	W	W	W	W	S	S/I		
705.0	720.0	15.0 ✓	15.0 ✓	2741	.020 ✓	tr ✓	.05	.001	2-3	M	W	W	W	W	S	S/I		End of blackplay zone. 707.5 — 708.0 — — —

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P13

DATE COMPLETED _____ PAGE No. 13 OF _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture fillings & core veins	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
720.0	735.0	15.0	15.0	2743	.020	tr	.05	.001	2-3	M	W	W	W	W	S	S		PROTORE ZONE - GRANODIORITE
735.0	750.0	15.0	14.3	2743	.010	tr	.05	.001	2-3	M	W	W	W	W	M/S	I		- 736.0 qtz-ser-py alteration weaken slightly.
750.0	765.0	15.0	14.1	2744	.025	tr	.05	.001	2-3	M	W	W	W	W	M/S	I		
765.0	780.0	15.0	15.0				.05	.001	2-3	M	W	W	W	W	M/S	I		

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P-13

DATE COMPLETED _____ PAGE No. 14 OF _____

SAMPLE AND ASSAY DATA										ALTERATION							DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract. < 45° to core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC	
780.0	795.0	15.0 ✓	15.0 ✓	2746	.025 ✓	.004 ✓	.05	.001	2%	M	W	W	W	W	M/S	I	PROTORE ZONE - GRANODIORITE
										M	W	W	W	W	W & M	W/M & S	787.0 --- Grey colored, hypomorphic granular pale-dark, mesoth. plagioclase and weak disseminated biotite band comm occasionally appear. Very narrow bands with black-green plagioclase occasionally present. Grey-Alternates irregularly with chalky argillic alteration in wide band, well spaced.
795.0	810.0	15.0 ✓	14.3 ✓	2747	.035 ✓	.003 ✓	.05	.001	2	M	W	W	W	W	W & M	W/M & S	
810.0	825.0	15.0 ✓	15.0 ✓	2748	.03 ✓	.017	.05	.001	2	M	W	W	W	W	W & M	W/M & S	
825.0	840.0	15.0 ✓	15.0 ✓	2749	.025 ✓	.007 ✓	.05			M	W	W	W	W	W & M	W/M & S	

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P-13

DATE COMPLETED _____ PAGE No. 15 OF _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture & Quartz	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
840.0	855.0	15.0 ✓	14.9 ✓	2750	.035 ✓	.002 ✓				M	W	W	W	W	W & M	W/M & S		PROTORE ZONE - GRANODIORIT
855.0	870.0	15.0 ✓	14.6 ✓	2751	.020 ✓	.002 ✓				M	W	W	W	W	W & M	W/M & S		
870	885	15.0 ✓	15.0 ✓	2752	.030 ✓	tr ✓				M	W	W	W	W	W & M	W/M & S		
885.0	888.0	3.0 ✓	2.7 ✓	2753	.015 ✓	tr ✓				M	W	W	W	W	W & M	W/M & S		888.0 End of hole
ASSAY DATA																		
15.0	210.0	194.0	168.7		.010	TR.												
210.0	540.0	330.0	311.0		.124	TR.												

Core Recovery $\frac{821}{873} = .9\ldots$ %

AREA Parson Hill
DIP
CORE SIZE NW - B.O. - 52.0 ft

Approximate 22,034,997.7
LATITUDE
DEPARTURE 363,344.76
LENGTH

Azimuth 40°
Dip -90°
Length 52.0 ft

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED Oct 4/69
DATE COMPLETED Oct 9/69
HOLE No. P-11
PAGE No. 1 of 10

Logged by M.P. Phelps

SAMPLE AND ASSAY DATA

FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%
12.0	15.0	3.0	3.0	2754	.060	.006	.05	.001	—
15.0	30.0	15.0	14.0	2755	.040	.006	.05	.001	—
30.0	45.0	15.0	15.0	2756	.010	.002	.05	.001	—
45.0	60.0	15.0	13.3	2757	.015	.004	.05	.001	—

ALTERATION

SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K — SPAR	SERICITE	ARGILLIC
M	W	W	W	W	W	S
M	W	W	W	W	W	S
M	W	W	W	W	W	S
S	W	W	W	W	S	T/S

DESCRIPTION

Casing 0-12 ft

12.0 LEACHED ZONE - SPHALERITE

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. _____

DATE COMPLETED _____ PAGE No. _____ of 10

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
60.0	75.0	15.0	15.0	2758	.015	.006	.05	.002	—	S	W	W	W	W	S.	W/H				LEACHED ZONE - GRANODIORI
75.0	90.0	15.0	15.0	2759	.020	TR.	.05	.002	—	S	W	W	W	W	S	W/I				
										W	W	W	W	W	S.					
90.0	105.0	15.0	13.8	2760	.055	.009	.05	.002	—	W	W	W	W	W	W	H/E				92.0
105.0	120.0	15.0	12.0	2761	.060	TR.	.05	.002	—	W	W	W	W	W	W	H/S				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. _____

DATE COMPLETED _____ PAGE No. 2 OF 10

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
120.0	135.0	15.0	12.3	2762	.050	TR	.05	.002	—	W	W	W	W	W	W	M/S				LEACHED ZONE - QUARTZ DIORITE
135.0	150.0	15.0	10.9	2763	.045	TR	.05	.002	—	M	W	W	W	W	W	S				140.0 Commencement of Mineralization (Could not be determined)
150.0	165.0	15.0	15.0	2764	.040	TR	.05	.002	—	M	W	W	W	W	W	S				
165.0	180.0	15.0	7.8	2765	.050	TR	.05	.002	—	M	W	W	W	W	W	S				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. _____

DATE COMPLETED _____ PAGE No. 3 OF 16

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K—SPAR	SERICITE	ARGILLIC		
180.0	195.0	15.0	11.5	2766	.080	TR.	.05	.001	—	M	W	W	W	W	W	I		LEACHED ZONE - OXIDATION
195.0	210.0	15.0	13.4	2767	.010	.002	.05	.001	—	M	W	W	W	W	W	I		
210.0	225.0	15.0	15.0	2768	.015	TR	.05	.001	—	M S	W W	W W	W W	W W	W W	I I		218.0 Fault
225.0	240.0	15.0	[illegible]	27[illegible]	.005	[illegible]	[illegible]	[illegible]	—	M	W	W	W	W	W	I		

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. _____

DATE COMPLETED _____ PAGE No. 15 of 15

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
2460	2550	15.0	8.2	2770	.025	.002	.05	.002		M	W	W	W	W	W	I				LEACHED ZONE - CONTINUED
2550	2700	15.0	13.0	2771	.035	TR	.05	.002		M	W	W	W	W	W	I				
2700	2850	15.0	15.0	2772	.030	.006	.05	.002		M	W	W	W	W	W	I				
2850	3000	15.0	15.0	2773	.020	.002	.05	.002		M	W	W	W	W	W	I				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. _____

DATE COMPLETED _____ PAGE No. 1 OF 15

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
										M	W	W	W	W	W	S				LEACHED ZONE - CHALCOPYRITE?
	330.0	15.0	14.6	2774	.045	.010	.05	.002	—	M	W	W	W	W	W	M/S				
		15.0	14.7	2775	.055	.015	.05	.002	—	M	W	W	W	W	W	M				
		15.0	14.7	2776	.045	.015	.05	.002	—	M	W	W	W	W	W	M/S				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. _____

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. _____ OF _____

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA

FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%
360.0	375.0	15.0	15.0	2778	.150	.021	.1	.02	1%
375.0	390.0	15.0	15.0	2779	.165	.017	.1	.02	1%
390.0	405.0	15.0	15.0	2780	.120	.021	.1	.02	1%
405.0	420.0	15.0	15.0	2781	.150	.028	.1	.02	1%

ALTERATION

SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
M	W	W	W	W	W	W/M			
M	W	W	W	W	S	W/M			
W	W	W	W	W	W	W/M			
W	W	W	W	W	W	W/M			

DESCRIPTION

Porphyritic Quartz Monzonite

Dark grey-green aphanitic groundmass with phenocrysts of quartz (20-30%) and feldspar (50-70%) and mafics (biotite and hornblende) (10-20%). Feldspar phenocrysts are commonly altered to sericite and clay minerals. Mafics are commonly altered to chlorite and biotite. Quartz phenocrysts are commonly embayed.

-364.5 Sharp contact

-374.5

Dark grey-green aphanitic groundmass with phenocrysts of quartz (20-30%) and feldspar (50-70%) and mafics (biotite and hornblende) (10-20%). Feldspar phenocrysts are commonly altered to sericite and clay minerals. Mafics are commonly altered to chlorite and biotite. Quartz phenocrysts are commonly embayed.

-389.5

Dark grey-green aphanitic groundmass with phenocrysts of quartz (20-30%) and feldspar (50-70%) and mafics (biotite and hornblende) (10-20%). Feldspar phenocrysts are commonly altered to sericite and clay minerals. Mafics are commonly altered to chlorite and biotite. Quartz phenocrysts are commonly embayed.

-404.5

Dark grey-green aphanitic groundmass with phenocrysts of quartz (20-30%) and feldspar (50-70%) and mafics (biotite and hornblende) (10-20%). Feldspar phenocrysts are commonly altered to sericite and clay minerals. Mafics are commonly altered to chlorite and biotite. Quartz phenocrysts are commonly embayed.

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. C-13

DATE COMPLETED _____ PAGE No. 3 OF 7

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	Cu%	MoS2 %	EST. Cu%	EST. MoS2 %	EST. FeS2 %	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	End GIOTTE	K-SPAR	SERICITE	ARGILLIC			
420.0	435.0	15.0	15.0	2782	.245	.038	.2	.03	2%	W	W	W	W	W	W	W			
435.0	450.0	15.0	14.7	2783	.164	.015	.2	.03	2%	W	W	W	W	W	W	W			
450.0	465.0	15.0	15.0	2784	.215	.004	.2	.03	2%	W	W	W	W	W	W	W			
465.0	480.0	15.0	15.0	2785	.205	.013	.2	.03	2%	W	W	W	W	W	W	W			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P15

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 3 OF 15

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K—SPAR	SERICITE	ARGILLIC				
480.0	495.0	15.0	15.0	2786	.290	.038	.25	.02	2-3%	W	W	W	W	W	W	W				PROTORE ZONE - GRANODIORITE Alt plag - white occ yellowish
495.0	510.0	15.0	15.0	2787	.245	.004	.25	.02	2-3	W	W	W	W	W	W	W/M				495.0 — — Gradational Slightly coarser with plagioclase altered yellowish - brown spots strong argillic alteration
510.0	525.0	15.0	14.8	2788	.285	.012	.25	.02	2-3	W	W	W	W	W	W	M				519.5 — — — Alternating irregular bands of fine grained biotite, feldspar matrix occ. with quartz and brown-grey glasses - pyrite
525.0	540.0	15.0	15.0	2789	.275	.015	.25	.02	2-3	W	W	W	W	W	W	M				523.0 — — — Dark chloritic, strongly altered dominant pale green sericitized biotite. Occ pyrite at margins generally matched by core above
										W	W	W	W	W	W	S				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 19
DATE COMPLETED _____ PAGE No. 10 OF 10

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
540.0	555.0	15.0	15.0	2790	.280	.017	.25	.02	2-3	W	W	W	W	W	W	I			
555.0	570.0	15.0	15.0	2791	.465	.087	.5	.05	2-3	W	W	W	W	W	W	I			
570.0	584.0	14.0	14.0	2792	.550	.629	.5	.05	2-3	W	W	W	W	W	W	I			
									ASSAY DATA										
12.0	360.0	348.0	314.7		.035	.004													
360.0	584.0	224.0	222.5		.260	.024													

DESCRIPTION

PROTORE ZONE - GRANODIORITE

548.0 — ENRICHED ZONE - GRANODIORITE

White, chalky colored, hypidiomorphic granular qtz (minor - 10-20%) to 3 mm diameter and highly altered plagioclase (80-90%) with long axis up to 5 mm (av. 2-3 mm). Chalcocite coating pyrite and completely replacing chalcopyrite.

This rock may be equivalent to the medium biotite, plagioclase-rich silica-qtz. intrusives.

Qtz. granular, angular to plumose in shape.

Dec. pink k-spar attacked along cleavage planes.

Pyrite stringers not common.

Qtz. not common.

Dec. blackening along fractures not parallel to core axis.

End of hole — Rock stuck, hole abandoned.

Core Recovery $\frac{537.2}{572} = 93\%$

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Patton Hill
DIP
CORE SIZE NQ - 0.0 - 434.0ft
BQ - 434.0 - 707.0ft

NORTHING 23,835,018.9
LATITUDE
EASTING
DEPARTURE 365,047.1
ELEV
LENGTH 4255.1

DIP -90°
LENGTH - 707.0ft

DATE COLLARED Oct 6/69
DATE COMPLETED Oct 13/69

HOLE No. P20
PAGE No. 1 OF

Logged by M. Phillips

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract. # ≤ 15 core cm	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
0	13.0																		Casing - 0.0 - 12.0ft
12.0	15.0	3.0	2.3	2793	.005	tr	.01	.001	—	W	W	W	W	W	W	M			LEACHED ZONE - GRANODIORITE Grey, siliceous quartz phenocrysts, 10% convoluted, angular and interstitial up 1 cm in diameter with white, generally soft yellow, subhedral to euhedral, altered (medium) to 5mm plagioclase phenocrysts. Plagioclase often exhibit yellow sparkling of Disp up to 2mm centers with white veins of sericitized steeply dipping biot
15.0	30.0	15.0	14.8	2794	.005	tr	.01	.001	—	W	W	W	W	W	W	M			Weak-moderate stockwork of leached fractures coated with soft yellow jarosite coarse qtz boxwork with dark brown Limonite (goethite-hematite) staining Rare bloodred hematite sparkling. Generally limonitic fractures represent leached pyrite stringers with irregular qtz-sericite envelopes.
30.0	45.0	15.0	12.7	2795	.005	tr	.01	.001	—	W	W	W	W	W	W	M			
45.0	60.0	15.0	14.5	2796	.005	tr	.01	.001	—	W	W	W	W	W	W	M			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Patton Hill
DIP
CORE SIZE NQ - 0.0 - 434.0 ft
BQ - 434.0 - 707.0 ft

NORTHING 22,835,018.9
LATITUDE
EASTING
DEPARTURE 365,047.1
ELEV
LENGTH 4255.1

DIP -90°
LENGTH - 707.0 ft

DATE COLLARED Oct 6/69 HOLE No. P20
DATE COMPLETED Oct 13/69 PAGE No. 1 OF

Logged by M. P. Phillips

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fract. # ≤ 15 core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
0	13.0																	Casing - 0.0 - 12.0 ft
12.0	15.0	3.0 ✓	2.3 ✓	2793	.005	tr	.01	.001	—	W	W	W	W	W	W	M		LEACHED ZONE -GRANODIORITE Grey, siliceous quartz phenocrysts, 10% convoluted, angular and interstitial, up 1 cm in diameter with white, generally soft yellow, subhedral to euhedral, altered 1-3 diam. to 5 mm plagioclase phenocrysts. Plagioclase often exhibit yellow sparkling cores with white veins; of sericitized Disc up to 2mm steeply dipping biot
15.0	30.0	15.0 ✓	14.8 ✓	2794	.005	tr	.01	.001	—	W	W	W	W	W	W	M		Weak-moderate stockwork of fracture fractures coated with soft yellow jarosite coarse qtz bowork with dark brown Limonite (goethite-hematite) staining hematite Rare bloodred specking. Generally limonitic fractures represent leached pyrite stringers with irregular qtz-sericite envelopes.
30.0	45.0	15.0 ✓	12.7 ✓	2795	.005	tr	.01	.001	—	W	W	W	W	W	W	M		
45.0	60.0	15.0 ✓	14.5 ✓	2796	.005	tr	.01	.001	—	W	W	W	W	W	W	M		

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. 32

DATE COMPLETED _____ PAGE No. 2 OF _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracturing & core mixing	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
60.0	75.0	15.0 ✓	12.8 ✓	2797	.005	tr	.01	.01	—	W	W	W	W	W	W	M				LEACHED ZONE - GRANODIORITE
75.0	90.0	15.0 ✓	15.0 ✓	2798	.005	tr	.01	.01	—	W	W	W	W	W	W	M				
90.0	105.0	15.0 ✓	15.0 ✓	2799	.005	tr	.01	.01	—	W	W	W	W	W	W	M				
105.0	120.0	15.0 ✓	W.V ✓	2800	.005	tr	.01	.01	—	W	W	W	W	W	W	M				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. 32

DATE COMPLETED _____ PAGE No. 2 OF _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracturing & core mixing	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
60.0	75.0	15.0 ✓	12.8 ✓	2797	.005	tr	.01	.01	—	W	W	W	W	W	W	M				LEACHED ZONE - GRANODIORITE
75.0	90.0	15.0 ✓	15.0 ✓	2798	.005	tr	.01	.01	—	W	W	W	W	W	W	M				
90.0	105.0	15.0 ✓	15.0 ✓	2799	.005	tr	.01	.01	—	W	W	W	W	W	W	M				
105.0	120.0	15.0 ✓	W.V ✓	2800	.005	tr	.01	.01	—	W	W	W	W	W	W	M				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 20

DATE COMPLETED _____ PAGE No. 3 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracturing in core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
120.0	135.0	15.0 ✓	15.0 ✓	2802	.005	tr	.01	.001	—	W	W	W	W	W	W	M			LEACHED ZONE - GRANODIOR
135.0	150.0	15.0 ✓	15.0 ✓	2803	.005	tr	.01	.001	—	W	W	W	W	W	W	M			
150.0	165.0	15.0 ✓	13.4 ✓	2804	.005	tr	.01	.001	—	W	W	W	W	W	W	M			
165.0	180.0	15.0 ✓	8.4 ✓	2805	.010	tr	.01	.001	—	W	W	W	W	W	W	M			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P20

DATE COMPLETED _____ PAGE No. 1 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Black fine core mic	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
180.0	195.0	15.0 ✓	8.4 ✓	2806	.015	tr	.01	.001	—	W	W	W	W	W	W	M.			LEACHED ZONE - GRANODIORITE
195.0	210.0	15.0 ✓	14.0 ✓	2807	.015	tr	.01	.001	—	W	W	W	W	W	W	M			
210.0	225.0	15.0 ✓	18.0 ✓	2808	.020	tr	.01	.001	—	W	W	W	W	W	W	M			
225.0	240.0	15.0 ✓	13.3 ✓	2809	.015	tr	.01	.001	—	W	W	W	W	W	W	M			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P20

DATE COMPLETED _____ PAGE No. 5 OF _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture & vein fillings	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		DESCRIPTION
240.0	255.0	15.0 ✓	13.5 ✓	2810	.015	tr	.01	.001	—	W	W	W	W	W	W	M		LEACHED ZONE - GRANODIORITE
255.0	270.0	15.0 ✓	15.0 ✓	2811	.015	tr	.01	.001	—	W	W	W	W	W	W	M		
270.0	285.0	15.0 ✓	15.0 ✓	2812	.015	tr	.01	.001	—	W	W	W	W	W	W	M		
285.0	300.0	15.0 ✓	15.0 ✓	2813	.015	tr	.01	.001	—	W	W	W	W	W	W	M		

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P-20

DATE COMPLETED _____ PAGE No. 6 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	fracturing to core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
																			LEACHED ZONE - GRANODIORITE
300.0	315.0	15.0 ✓	14.6 ✓	2814	.015	tr	.01	.001	—	W	W	W	W	W	W	M			
315.0	330.0	15.0 ✓	15.0 ✓	2815	.015	tr	.01	.001	—	W	W	W	W	W	W	M			
																			327.0
330.0	345.0	15.0 ✓	13.0 ✓	2816	.015	tr	.01	.001	—	W	W	W	W	W	W	M			whitish colored rock, grey vitreous qtz phenocrysts up to 5 mm in a white chalky, mod altered plagioclase matrix containing clots books of sericitized biotite(?). Irregular up to 1 inch qtz-sericite alteration envelopes around leached pyritic stringers. Rare fine stringers of hematite-altered magnetite
345.0	360.0	15.0 ✓	14.8 ✓	2817	.010	tr	.01	.001	—	W	W	W	W	W	W	M			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P20

DATE COMPLETED _____ PAGE No. 7 OF _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture fillings core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		DESCRIPTION
360.0	375.0	15.0	13.5	2818	.015	tr	.01	.001	—	W	W	W	W	W	W	M		LEACHED ZONE - GRANODIORITE
375.0	390.0	15.0	14.2	2819	.010	tr	.01	.001	—	W	W	W	W	W	W	M		
390.0	405.0	15.0	13.6	2820	.040	tr	.05	.001	1%	W	W	W	W	W	W	M		384.0 — Qtz Porphyry(?) Granodiorite Grey vitreous quartz up to 3mm, in an euhedral-anhedral white, up to 3mm in diameter, weak-mod altered plagioclase matrix, containing less books of sericitized biotite?(chlorite). Narrow irregular bands with abundant black euhedral biotite after hornblende weak pervasive sericite Pyrite stringers minor envelope wk limonite after pyrite, Minor chalcocite coating pyrite. Rare blebs of very fine disseminated magnetite.
405.0	420.0	15.0	10.3	2821	.050		.05	.001	1%	W	W	W	W	W	W	M		

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P20

DATE COMPLETED _____ PAGE No. 8 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracturing & core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
420.0	435.0	15.0 ✓	12.9 ✓	2822	.095	tr	.1	.001	1%	W	W	W	W	W	W	S			
435.0	450.0	15.0 ✓	12.4 ✓	2823	.120	tr	.1	.001	1%	W	W	W	W	W	W	M			
450.0	465.0	15.0 ✓	15.0 ✓	2824	.130	.002	.1	.001	1%	W	W	W	W	W	W	M			
465.0	480.0	15.0 ✓	11.6 ✓	2825	.115	.002	.1	.001	1%	W	W	W	W	W	W	M			

434.0

PROTOREX ZONE - CRANIODIORITE

Dark colored, med grained hypidiomorphic granular, plagioclase darkened indicating weak alt and chloritized hornblende up to 1 cm.

Irregular pale-sericite alteration around envelopes pyrite stringers.

449.0

Med grained white-greyish quartz and moderately alt. subhedral-anhedral, white plagioclase and fresh K-spar. Interlocking dark green chloritized books of biotite? (hornblende).

Narrow twisted bands of hypidiomorphic granular texture, pale-dark green plagioclase and chloritized books of biotite? (hornblende)

Weak stockwork of fine pyrite stringers from 2mm, rarely up to 0.1 ft with indistinct poorly defined envelopes of pale-coloured disseminated pyrite. Occ. fine disseminated pyrite alt. of magnetite. Trace molybdenite

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P20

DATE COMPLETED _____ PAGE No. 9 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture & vein core veins	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
																			PROTORE ZONE - GRANODIORITE
480.0	495.0	15.0 ✓	15.0 ✓	2826	.140	.002	.1	.005	1%	W	W	W	W	W	W	M			
495.0	510.0	15.0 ✓	13.7 ✓	2827	.125	.002	.1	.005	1%	W	W	W	W	W	W	M			
510.0	525.0	15.0 ✓	15.0 ✓	2828	.170	.006	.1	.005	1%	W	W	W	W	W	W	M			
525.0	540.0	15.0 ✓	15.0 ✓	2829	.125	.002	.1	.005	1%	W	W	W	W	W	W	M			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P20

DATE COMPLETED _____ PAGE No. 10 of _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2 %	EST. FeS2 %	SILICIFICATION	QTZ. VEINING	fracture fillings & core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
540.0	555.0	15.0 ✓	15.0 ✓	2830	.130	.004	.1	.002	1-2	W	W	W	W	W	W	M			PROTORE ZONE - GRANODIORITE
555.0	570.0	15.0 ✓	14.2 ✓	2831	.085	.002	.1	.002	1-2	W	W	W	W	W	W	M			-567.0 - Strong shearing and brecciation -569.0 - mylonite.
570.0	585.0	15.0 ✓	15.0 ✓	2832	.145	.004	.1	.002	1-2	W	W	W	W	W	W	M			
585.0	600.0	15.0 ✓	14.2 ✓	2833	.13	.002	.1	.002	1-2	W	W	W	W	W	W	M			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 20

DATE COMPLETED _____ PAGE No. 11 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture fillings core only	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
600.0	615.0	15.0 ✓	15.0 ✓	2834	.115	.002	.1	.002	1-2	W	W	W	W	W	W	M			PROTORE ZONE - GRANODIORITE
615.0	630.0	15.0 ✓	15.0 ✓	2835	.080	tr	.1	.002	1-2	W	W	W	W	W	W	M			
630.0	645.0	15.0 ✓	15.0 ✓	2836	.105	tr	.1	.002	1-2	W	W	W	W	W	W	M			
645.0	660.0	15.0 ✓	13.9 ✓	2837	.115	tr	.1	.002	1-2	W	W	W	W	W	W	M			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P20

DATE COMPLETED _____ PAGE No. 12 OF _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	Fracture & core axis	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
																		PROTORE ZONE - GRANODIORITE
660.0	675.0	15.0 ✓	9.0 ✓	2838	.080	tr	.1	.002	1-2	W	W	W	W	W	W	M		
675.0	690.0	15.0 ✓	15.0 ✓	2839	.085	tr	.1	.002	1-2	W	W	W	W	W	W	M		
690.0	705.0	15.0 ✓	14.7 ✓	2851	.100	tr	.1	.002	1-2	W	W	W	W	W	W	M		
705.0	707.0	2.0	2.0	2852	.045	tr	.1	.002	1-2	W	W	W	W	W	W	M		---707.0-End of hole
									Assay Data									
12.0	390.0	378.0	352.2		.011	.TR												
390.0	435.0	45.0	34.3		.062	.001												
435.0	705.0	270.0	259.4		.112	.002												
390.0	707.0	317.0	296.2		.105	.002												

Core Recovery $\frac{639}{695} = 91.8\%$

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Canadian Creek
DIP
CORE SIZE NQ - 0.0 - 418.0 ft

NORTHING 22,837,042.2
LATITUDE
EASTING
DEPARTURE 360,736.2
LENGTH
ELEV. 3949.7
DIP - 90°
LENGTH 418.0 ft

DATE COLLARED Oct 11/69 HOLE No. P 21
DATE COMPLETED Oct 23/69 PAGE No. 1 OF 7

Logged by. M.P. Phillips

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
																				Casing - 0.0 - 94.0 ft.
94.0	105.0	11.0	16.0	3987			.05	.002	2%	W	W	W	W	W	W	W				94.0 PROTORE ZONE MIXED QTZ DIORITE Light grey, fine grained granular qtz, very minor altered plagioclase with disseminated and stringer pyrite. Pyrite along fract altered to dark reddish brown limon Narrow sections of soft gouge by mec hypidiomorphic granular grained quartz altered plagioclase (5 and weak-moderate primary biotite.
105.0	120.0	15.0	2.5	3988			.05	.002	2%	W	W	W	W	W	W	W				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 21
DATE COMPLETED _____ PAGE No. 2 OF 7

128.0-150-89

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
																		PROTORE ZONE - MIXED QTZ DIORITE
~~128.0~~	~~150.0~~	~~1.6~~	~~22.0~~	~~3989~~			.05	.002	2	W	W	W	W	W	W	W		
150.0	165.0	15.0	2.1	3990			.05	.002	2	W	W	W	W	W	W	W		
165.0	180.0	15.0	5.7	3991			.05	.002	2	W	W	W	W	W	W	W		

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P21

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 3 OF 7

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
180.0	195.0	15.0	0.7	3992			.05	.002	2	W	W	W	W	W	W	W			
195.0	210.0	15.0	6.4	3993			.05	.002	2	W	W	W	W	W	W	W			
210.0	225.0	15.0	4.8	3994			.05	.002	2	W	W	W	W	W	W	W			
225.0	240.0	15.0	3.9	3995			.15	.002	2	W	W	W	W	W	W	W			

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIORITE

193.0

Yellowish weathering

203.0

Dark blueish grey, fine-med grained soft, allotriomorphic quartz, white-pale green altered plagioclase and abundant books of black primary biotite Wk pyrite disseminated and along fractures.

214.5

Grey, fine grained allotriomorphic quartz and altered plagioclase with disem. pyrite. Minor pyrite stringers, part. altered to limonite

233.0

Dark colored fine grained allotriomorph quartz, white altered plagioclase and abundant fine grained biotite. Weak pyrite, disc and stringer. Minor limonite alteration in stringer

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P21

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 4 OF 7

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
240.0	255.0	15.0	8.3	3996			.1	.002	2	W	W	W	W	W	W	W				PROTORE ZONE - MIXED QTZ DIORITE 253.0 (2mm) Grey, fine-medium grained allotriomorphic-granular qtz and white pale green tinged altered plagioclase with 1% Wk. pyrite and minor coating of chalcocite along pyritic fractures. Minor tourmaline and fine qtz. veins
255.0	270.0	15.0	5.7	3997			.15	.002	1-2	W	W	W	W	W	W	W				
270.0	285.0	15.0	7.4	3998			.15	.002	1-2	W	W	W	W	W	W	W				272.0 Coarse grained (3mm) with dominant black biotite common. 275.0 281.0 Dark colored, abundant fine grained biotite. Minor qtz & fracture fill. 285.0
285.0	300.0	15.0	9.0	3999			.15	.002	1-2	W	W	W	W	W	W	W				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P21

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 5 OF 7

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
300.0	315.0	15.0	10.0	4000			.15	.002	1-2	W	W	W	W	W	W	W			
315.0	330.0	15.0	12.2	2101			.15	.002	1 1-2	W	W	W	W	W	M	W			
										W	W	W	W	W	M	W			
330.0	345.0	15.0	14.7	2102			.1	.002	1-2	W	W	W	W	W	W	W			
345.0	360.0	15.0	14.2	2103				.002	1-2	W	W	W	W	W	W	W			

DESCRIPTION

PROTORE ZONE — MIXED QTZ DIORITE

--- 302.0 ---

Dark colored, allotriomorphic granular, f grained quartz, fresh-weakly altered plagioclase and abundant fine biotite. Diss and stringer pyrite present with s ≤ 5mm q-s-p alteration envelope. Minor tourmaline.

– 315.0 –

allotrio

Grey white, fine-med (some) grained quartz and altered white plagioclase with mo diss and rare stringer pyrite. Chalcocite coating some of the pyrite along frac

--- 322.5 ---

Mottled black, fine grained, allotriomorph granular qtz, white-yellowish altered plagioclase and abundant (20-50%) fine black biotite. Wk. disseminated and stringers of pyrite have narro irregular alteration envelopes.

--- 337.0 --- contact 90° to core axis and sharp

Grey white, fine-med grained allotrio qtz, resinous altered plagioclase and mod disseminated pyrite, minor cpy

– 345.0 – – – ground

Dark colored, med grained qtz, resinous altered plagioclase and abundant diss p black biotite. Weak pyrite, occasional pyrite stringers with narrow irregular q-s-p alteration envelope.

– 350.0

Biotite up to 1cm, disseminated with weak lineation. Pyrite present in the biotite.

– 355.0 – – – – Alteration decreases

Bleached, qtz and altered plagioclase

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 21
DATE COMPLETED _____ PAGE No. 6 OF 7

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
360.0	375.0	15.0	15.0	2104			.1	.002	1-2	W	W	W	W	W	W	W			
375.0	390.0	15.0	14.4	2165			.1	.002	1-2	W	W	W	W	W	W	W			
390.0	392.0	2.0	2.0	2166															
392.0	405.0	13.0	0.0																
405.0	415.0	15.0	15.0																

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIORITE

361.0 — Light colored upto 1cm biotite showing some lineation present. Large altered plagioclase up to 1cm pale green in color present

369.0 — Grey med grained allotriomorphic granular quartz, resinous felted altered plagioclase with bands up to 2ft of weak-moderate light colored biotite. Weak diss pyrite rarely in stringers

375.0 Biotite becomes coarser. Tourmaline present in the q-s-p alteration envelopes around pyrite stringers

378 Dark colored med grained hypidiomorphic with dark green and white altered plagioclase, qtz and strong pale green biotite clusters. Diss pyrite in biotite clusters.

392.0 — No core recovered...

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P21
DATE COMPLETED _____ PAGE No. 7 OF 7

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
415.0	418.0	3.0	00																	End of hole.

Core Recovery 146.7 - 45.3
324.0

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA East Patton Hill
DIP
CORE SIZE NQ 0.0 - 423.0 ft
BQ 423.0 - 1200.0 ft.

NORTHING 23,836,148.2
~~LATITUDE~~
EASTING
~~DEPARTURE~~ 366,199.9
~~LENGTH~~
ELEV 3774.0
DIP -90°
LENGTH 1200.0 ft

DATE COLLARED Oct 14/69 HOLE No. D 22
DATE COMPLETED Oct 26/69 PAGE No. 1 OF 21

Logged by M.P. Phillips

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
																				Casing 0 – 21 ft.
21.0	30.0	✓ 9.0'	✓ 4.7'	2953	✓ .095	✓ .007	.6	.01	3%	W	W	W	W	W	W	S				21.0 float Granodiorite – Dark to light medium grained hypidiomorphic granular fresh grained with moderate-strong black biotite 24.0 ENRICHED ZONE – BRECCIA – MINE QTZ DIORITE Light grey fine grained allotriomorphic granular quartz often appears as planar resinous chalky veinlets folded strongly altered plagioclase and fresh k-spar with bleached biotite weak-sparsely present, Qtz veinings cdm Qtz-sericite pyrite alteration envelopes narrow widely spaced and irregular in outline
30.0	45.0	15.0' ✓	7.7' ✓	2954	.560 ✓	.017 ✓	.6	.01	3%	W	W	W	W	W	W	S				Chalcocite common as thin-film replacement cpy and pyrite. Very strong along py stringers. Orange brown limonite after pyrite common along fractures. Disseminated bright yellow jarosite common.
45.0	60.0	✓ 15.0	✓ 15.0'	2955	1.580 ✓	.017 ✓	.6	.01	3%	W	W	W	W	W	W	S				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. 722

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 2 OF 21

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
60.0	75.0	15.0' ✓	4.9' ✓	2956	.980 ✓	.012 ✓	.6	.01	¼%	W	W	W	W	W	W	S			ENRICHED ZONE - BRECCIA - MIXED QTZ DIORITE --66.0-- Bleached
75.0	90.0	15.0' ✓	9.8' ✓	2957	.930 ✓	.007 ✓	.6	.01	¼%	W	W	W	W	W	W	W			--73.0-- Dark colored, fine-med (3mm) grained hypidiomorphic granular quartz, white waxy altered plagioclase, fresh k-spar and abundant primary biotite. Fractures with pale green altered plagioclase, envelopes 5mm in wide. Minor pyrite.
										W	W	W	W	W	W	W/M			--84'-- Plagioclases start to show increasing alteration with pale green core and clear white rim around fractures. Epidote often present along fracture. Decreasing biotite and euhedral plagioclase.
90.0	105.0	15.0' ✓	5.1' ✓	2958	.850 ✓	.002 ✓	.6	.01	½%	W	W	W	W	W	W	W/M			
105.0	120.0	15.0 ✓	3.1' ✓	2959	.920 ✓	.007 ✓	.4	.01	½%	W	W	W	W	W	W	M.			--104.0-- Light colored, med-coarse grained with biot sometimes bleached. Occasional bleached biotite Occ pyrite stringer with Mn coating of chalcocite sometimes present.
										W	W	W	W	W	W	S.			--113.0-- See page 3.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. D22
DATE COMPLETED _____ PAGE No. 3 OF 21

SAMPLE AND ASSAY DATA

FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%
120.0	135.0	15.0' ✓	8.6' ✓	2960	.980 ✓	.017 ✓	.3 .05	.02	1% ¼%
135.0	150.0	15.0' ✓	4.6' ✓	2961	1.380 ✓	.021 ✓	.4	.02	2% 1%
150.0	165.0	15.0' ✓	9.2' ✓	2962	1.620 ✓	.021 ✓	.05	.02	2%
165.0	180.0	15.0' ✓	6.8' ✓	2963	1.170 ✓	.048 ✓	.5	.02	2%

ALTERATION

SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC
W	W	W	W	W	W	S.
W	W	W	W	W	W	W
W	W	W	W	W	W	W
W	W	W	W	W	W	W/M
W	W	W	W	W	W	W
W	W	W	W	W	W	W

DESCRIPTION

ENRICHED ZONE - BRECCIA - MIXED QTZ D

Grey, fine grained, strong alteration of biotite almost completely bleachy plag becoming chalky. Pyrite apy with thin - film of chalcocite around. Marg

Irregular Qtz-ser-pyrite alteration enve

122.5 — Transition

128.0

2mm

Dark colored, fine-med grained hypidio granular matrix of dark green altered plagioclase, abundant black book biotite with scattered-moderate white euhedral-subhedral mod?-ver altered plagioclases.

133.0 — See pyrite stringers.

Biotite partly or completely bleached white resorbed, sometimes chalky folds

135.5 — Qtz-ser alt. bands with pyrite miner apy. Narrow pyrite stringers common

Yellowish, medium grained plagioclase slight greenish tinge and biotite part bleached. Towards bottom alteration increases. Minor pyrite

149.0 — T

Dark yellowish green fine-med (5mm) grained hypidio-anorphic granular. light-dark green altered plagioclase quartz and abundant primary black biotite. Carbonate common in fractures.

Good diss pyrite rare chalcopyrite

One narrow - 1ft bands bleached & with plagioclase white and biotite pale green.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. D22

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 4 OF 21

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
180.0	195.0	15.0' ✓	13.5' ✓	2964	1.000 ✓	.024 ✓	.05	.02	1%	W	W	W	W	W	W	W			
							.3		3%	W	W	W	W	W	W	St			
195.0	210.0	15.0' ✓	13.8' ✓	2965	1.220 ✓	.024 ✓	.1	.02	3%	W	W	W	W	W	W	W			
							.1		3%	W	W	W	W	W	W	W/M			
210.0	225.0	15.0' ✓	12.5' ✓	2966	1.130 ✓	.026 ✓	.4	.02	3%	W	W	W	W	W	W	M			
										W	W	W	W	W	W	W/M			
225.0	240.0	15.0' ✓	10.2' ✓	2955	.355 ✓	.017 ✓	.4		3%	W	W	S. 0°	W	W	W	W/M			

DESCRIPTION

DIOR

ENRICHED ZONE - BRECCIA - MINERALIZED

181.0 — Dark color due to strong biotite, alteration of plagioclase not as strong

185.0 — Decrease in biotite, altered plagioclase pale green, indicating increasing alteration

192.0 — Strong q-s alteration Good Py cpy

193.0 — cc

195.0 — Transition - decreasing alteration

Dark colored slight alt. white plag and abundant black biotite. Impregnation silver grey sericite where alteration strongest along fractures. Section where biotite bleached. Carbonate along hairline fractures

201.5 —

Olive green plagioclase and carbonate stringers common. Biotite weak and commonly bleached. Carbonate common

209.0 —

Light grey fine grained, altered aphanitic granular quartz and white-very pale green plagioclase. Mottled white and dark grey (stronger alteration throughout

Blobs of pyrite along fractures and also as form. Diss py strong and cpy. Chalcocite sometimes present along pyritic fractures, weak diss molybdenite

218.0 —

Olive green plagioclase, with minor black biotite. Carbonate common.

223.5 —

Carbonate along fractures becomes common

Slickensiding parallel to core axis common along fractures.

235.0 — Narrow bands with moderate fine biotite common - generally sharp contact with host rock. Lack any mineral

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P-22
DATE COMPLETED _____ PAGE No. 5 OF 11

Alteration breccia.

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				PROTORE ZONE - BRECCIA - MIXED QTZ. DIORITE
240.0	255.0	15.0' ✓	15.0' ✓	2956	.620 ✓	.036 ✓	.05		1/4%	W	W	S 0°	W	W	W	W/M				240.0 — Transition Dark olive green color - yellow green resinous altered plagioclase, biotite common with occasional narrow stronger altered light grey bands with py and cpy. Carbonate in fracture stockwork common Slickensides along fractures common
255.0	270.0	15.0' ✓	15.0' ✓	2337	.680 ✓	.040 ✓	.4	.05	3%	W W	W W	S 0°	W W	W W	W W	W/M S				260.0 — fine grained Yellow - blue grey, slightly mottled, altered granular quartz and white altered plagioclase and occasional bleached biotite. Fractures and bands with sharp contact of darker dark - yellowish green alt plagioclase abundant biotite and sparse pyrite. "Breccia"? Pyrite cpy and molybdenite along fracture common. Weak qtz veining. Carbonate common. Slickenside present along some fractures
270.0	285.0	15.0' ✓	13.5' ✓	2988	1.340 ✓	.045 ✓	.4	.05	3%	W	W	S 0°	W	W	W	S				273.5 — Dark colored dark green alt plagioclase abundant biotite. 276.5 — Inclusions common. 281.0 — Inclusions not common.
285.0	300.0	15.0' ✓	12.8' ✓	2959	.500 ✓	.050? ✓	.05	—	1/4%	W W W	W W M	S 0°	W W W	W W W	W W W	S M M				295.0 — Green plagioclase and biotite common 298.3 —

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. 22

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 6 OF 21

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K—SPAR	SERICITE	ARGILLIC		
300.0	315.0	15.0' ✓	13.8' ✓	2990	.460 ✓	.024 ✓	.5% / .1	.02	4 / 1	W / W / W	M / W / W	S 0°	W / W / W	W / W / W	W / W / W	M / W/M / S/W		PROTOREZONE - BRECCIA-MIXED QTZ DIOR Sulfide mostly disseminated, carbonate sometimes present along fractures. In some parts large 0.1 ft qtz veining with pyrite 307.0 — Gradational Very fine grained felted pale grey banded becoming darker towards bottom with bleached carbonate biotite wide 310.0 — Alternating bands of dark green - green altered plagioclase with biotite and light grey allotriomorphic quartz and white altered plagioclase and generally minor pyrite and chalcopyrite Laminated texture sometimes pres-
315.0	330.0	15.0' ✓	12.7' ✓	2991	.290 ✓	.002 ✓	.1	.02	1	W	W	S 0°	W	W	W	S/W		
330.0	345.0	15.0' ✓	9.6' ✓	2992	.255 ✓	.007 ✓	.1	.02	1	W	W	S 0°	W	W	W	S/W		338.6 — White - yellowish green, alt plagioclase, gran- texture with 1-2mm. leaf & book biotite 344.0 — White fine grained granular. Moly sometime along fracture
345.0	360.0	15.0' ✓	15.0' ✓	2993	.247 ✓	.048 ✓	.4	.02	3	W / W	W / W	0°	W / W	W / W	W	S / W		348.0 — Often greenish tinge to plagioclase. Qtz veining with moly common. Carbonate along fractures - thickness less than 1/4 inch and gauge often present

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 22
DATE COMPLETED _____ PAGE No. 7 OF 21

SAMPLE AND ASSAY DATA

FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%
360.0	375.0	15.0' ✓	15.0' ✓	2994	.432 ✓	.024 ✓	.35	.05	2
375.0	390.0	15.0' ✓	15.0' ✓	2995	.372 ✓	.117 ✓	.2	.05	2
390.0	405.0	15.0' ✓	14.3' ✓	2996	.300 ✓	.040 ✓	.5	.1	2-3
405.0	420.0	15.0' ✓	13.2' ✓	2997	.445 ✓	.021 ✓	.5	.1	2-3

ALTERATION

SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC
W	W	W	W	W	W	W & M
W	W	W	W	W	W	M
W	W	W	W	W	W	M
W	W	W	W	W	W	M

DESCRIPTION

PROTORE ZONE - BRECCIA - MINED QTZ DIOR

Irregular, alternating laminations to shade bands of dark green, fine grained, altered pale green plagioclase and abundant biotite and green plagioclase stringers - veining as stringers - weak pyrite and chalcopyrite with stockwork of carbonate veinings; fg to dk grey fine grained quartz and mod altered plagioclase with moderate disseminated pyrite & chalcopyrite

--- 379.0 ---

Medium grained, white - med green plagioclase and moderate biotite with bands and inclusions and fragments of fine grained biotite rich, green plagioclase

Occ up to 0.2 ft. q-c-p altered trachyte

Often plagioclase phenocrysts with white rim

Mineralization better developed in coarser rock.

--- 392.5 ---

Grey white, fine grained allotriomorphic-granular sometimes with sugg texture, qtz, with yellow resinous altered feldspars and containing good pyrite chalcopyrite and fracture mats of pyrite. Throughout are numerous bands up to 8 ft and angular fragments - 0.1 ft in diameter of fine grained dark green felted alt plagioclase rock containing seams up to 1 cm. yellow altered plagioclase; fine to medium grained, dark biotite abundant and yellow plagioclase. Mineralization (pyrite, minor chalcopyrite in dotted bands) Mineralization better where alteration has set in.

Carbonate common along fractures

Slickensides sometimes present

415.0 --- Dark bands become very common

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P 22

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 8 OF 21

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
420.0	435.0	15.0' ✓	4.3' ✓	2998	.435 ✓	.024 ✓	.25	.1	2	W	W	W	W	W	W	M		PROTORE ZONE - BRECCIA - MIXED QTZ. DIORITE
435.0	450.0	15.0' ✓	7.8' ✓	2999	.500 ✓	.017 ✓	.25	.1	2	W	W	W	W	W	W	M		
450.0	465.0	15.0' ✓	14.3' ✓	3000	.415 ✓	.071 ✓	.25	.1	2	W	W	W	W	W	W	M		
465.0	480.0	15.0' ✓	15.0' ✓	3357	.350 ✓	.040 ✓	.5	.1	3	W	W	W	W	W	W	M.		

464.0 — See next page.

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DRILL HOLE LOGS.

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
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SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
480.0	495.0	15.0' ✓	15.0' ✓	3358	.360 ✓	.052 ✓	.5	.1	3%	W	W	W	W	W	W	M			
495.0	510.0	15.0' ✓	14.8' ✓	3359	.385 ✓	.024 ✓	.5	.1	3%	W	W	W	W	W	W	M			
510.0	525.0	15.0' ✓	15.0' ✓	3360	.425 ✓	.029 ✓	.5	.1	3%	W	W	W	W	W	W	M			
525.0	540.0	15.0' ✓	14.0' ✓	3361	.430 ✓	.043 ✓	.5	.1	3%	W	W	W	W	W	W	M			

DESCRIPTION

PROTORE ZONE - BRECCIA - MIXED QTZ

DIORITE

Light grey fine grained allotriomorphic-gran sometimes with sago texture. quartz and slight yellowish tinge altered plagioclase. Occa bleached remnant of biotite. Numerous, small (0.2 ft) rarely up to 1 ft of dark biotite rich fine and medium grained weakly altered fragments and bands mottled appearance to rock due to irregular gas. alteration and granular qtz.

Mineralization in hairline rock work. Carbonate present a long fracture.

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DRILL HOLE LOGS.

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P 22

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 10 OF 20

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
540.0	555.0	15.0' ✓	14.3' ✓	3362	1.000 ✓	.098 ✓	.5	.1	3	W	W	W	W	W	W	M				PROTORE - BRECCIA - MIXED QTZ DIO
555.0	570.0	15.0' ✓	15.0' ✓	3363	1.100 ✓	.067 ✓	.5	.1	3	W	W	W	W	W	W	M				555.0 — Dark colored, abundant black biot stringers carbonate, Weak mineralization as discs py. 562.0
570.0	585.0	15.0' ✓	14.6' ✓	3364	.450 ✓	.095 ✓	.5	.1	3	W	W	W	W	W	W	M				
585.0	600.0	15.0' ✓	15.0' ✓	3365	.380 ✓	.021 ✓	.1	.02	1	W	W	W	W	W	W	M.				585.5 — Dark colored, abundant black biotite, stringers carbonate, Weak mineralization as discs py. 597.5

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DRILL HOLE LOGS.

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P22

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CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			DESCRIPTION
600.0	615.0	15.0' ✓	14.6' ✓	3366	.640 ✓	.084 ✓	.1	.05	1	W	W	W	W	W	W	M			PROTORE ZONE - BRECCIA - MIXED QT DIORITE
																			610.5 Numerous fragments and bands up to 0.5ft of dark colored fine and medium grained (2mm) biotite rock. Alteration not as pervasive. Fine grained weak alt. med grained good alt.
615.0	630.0	15.0' ✓	15.0' ✓	3367	.455 ✓	.064 ✓	.4	.05	2%	W	W	W	W	W	W	S			
630.0	645.0	15.0' ✓	15.0' ✓	3368	.175 ✓	.021 ✓	.15	.05	1%	W	W	W	W	W	W	W			635.0 Latite Porphyry. Dis's black biotite and euhedral grey euhedral k-spars in a dark green aphanitic matrix. At upper contact plagioclase weakly altered. Weak mineralization
645.0	660.0	15.0' ✓	14.8' ✓	3369	.270 ✓	.021 ✓	.3	.05	1%	W	W	W	W	W	W	W			650.0 Transition - up to 3mm bleached altered plagioclase phenocryst
										W	W	W	W	W	W	S.			654.0

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P22

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 12 OF 21

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
660.0	675.0	15.0' ✓	15.0' ✓	3370	.395 ✓	.043 ✓	.5	.05	3%	W	W	W	W	W	W	S			
675.0	690.0	15.0' ✓	10.2' ✓	3371	.475 ✓	.058 ✓	.35	.05	1%	W	W	W	W	W	W	W			
										W	W	W	W	W	W	S			
690.0	705.0	15.0' ✓	15.0' ✓	3372	.455 ✓	.053 ✓	.35	.05	1%	W	W	W	W	W	W	S			
705.0	720.0	15.0' ✓	15.0' ✓	3373	.390 ✓	.086 ✓	.6	.05	2%	W	W	W	W	W	W	S			

PROTORE ZONE - BRECCIA - MIXED

DESCRIPTION

DIORITE fragments and beads

Alternating fine grained allotriomorphic granular well mineralized and strongly altered medium grained hypidiomorphic with weak-moderate biotite and weak-moderate mineralization and light-dark fine grained allotriomorphic biotite mod-strongly altered weakly mineralized rock

Rapid alternation from one rock type to another suggesting breccia. Wide (5mm) carbonate stringers often present.

672.5

Dark colored biotite rich

680.0

Wide biotite bands not as common. Mainly av. 0.1 ft. angular-rounded fragments

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. D22
DATE COMPLETED _____ PAGE No. 13 OF 21

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
720.0	735.0	15.0' ✓	15.0' ✓	3374	.485 ✓	.095 ✓	.6	.05	2	W	W	W	W	W	W	S		PROTOREZONE - BRECCIA - MIXED QTZ DIORITE
735.0	750.0	15.0' ✓	14.6' ✓	3375	.485 ✓	.101 ✓	.45	.05	2	W	W	W	W	W	W	S		743.5 - Dark brown biotite rock wk min carbonate on fractures 748.0 - Med grnd, hypidiomorphic granular weak-mod biotite common rock type. Chalcopyrite tends to be coarse.
750.0	765.0	15.0' ✓	14.5' ✓	3376	.430 ✓	.123 ✓	.6	.65	2	W	W	W	W	W	W	S		
765.0	780.0	15.0' ✓	15.0' ✓	3377	.430 ✓	.123 ✓	.6	.05	2	W	W	W	W	W	W	S		

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 22
DATE COMPLETED _____ PAGE No. 14 OF 21

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
780.0	795.0	15.0' ✓	14.8 ✓	3378	.680 ✓	.123 ✓	.6	.05	2	W	W	W	W	W	W	S				PROTORE ZONE - BRECCIA - MIXED QTZ. DIORITE
795.0	810.0	15.0' ✓	15.0' ✓	3379	.530 ✓	.119 ✓	.6	.05	2	W	W	W	W	W	W	S				
810.0	825.0	15.0' ✓	15.0' ✓	3380	.370 ✓	.086 ✓	.6	.05	2	W	W	W	W	W	W	S				
825.0	840.0	15.0' ✓	15.0' ✓	3381	.320 ✓	.043 ✓	.6	.1	2	W	W	W	W	W	W	S				--- 828.0 --- Molybdenite common in widely spaced qtz veinlets and fractures.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P22

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 15 OF 21

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
840.0	855.0	15.0 ✓	13.0 ✓	3382	.390 ✓	.146 ✓	.6	.1	2	W	W	W	W	W	W	S			
855.0	870.0	15.0 ✓	14.8 ✓	3383	.570 ✓	.097 ✓	.6	.1	2	W	W	W	W	W	W	S			
870.0	885.0	15.0' ✓	15.0' ✓	3384	.620 ✓	.080 ✓	.6	.1	2	W	W	W	W	W	W	S			
885.0	900.0	15.0' ✓	15.0' ✓	3385	.400 ✓	.031 ✓	.6	.05	2	W	W	W	W	W	W	S			

DESCRIPTION

PROTORE ZONE - BRECCIA - MIXED QTZ DIORITE

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P22
DATE COMPLETED _____ PAGE No. 16 OF 21

SAMPLE AND ASSAY DATA										ALTERATION											DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC					
900.0	915.0	15.0' ✓	15.0' ✓	3386	.245 ✓	.023 ✓	.6	.07	2	W	W	W	W	W	W	S					PROTORE ZONE - BRECCIA - MIXED QTZ DIORITE
915.0	930.0	15.0' ✓	15.0' ✓	3387	.280 ✓	.078 ✓	.6	.07	2	W	W	W	W	W	W	S					
930.0	945.0	15.0' ✓	15.0' ✓	3388	.275 ✓	.082 ✓	.6	.07	2	W	W	W	W	W	W	S					
945.0	960.0	15.0' ✓	15.0' ✓	3389	.385 ✓	.066 ✓	.6	.07	2	W	W	W	W	W	W	S					

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 22
DATE COMPLETED _____ PAGE No. 17 OF 21

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING ⊥ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
960.0	975.0	15.0' ✓	14.8' ✓	3390	.350 ✓	.058 ✓	.6	.07	2	W	W	W	W	W	W	S			PROTORE ZONE BRECCIA - MIXED QTZ DIORITE
975.0	990.0	15.0' ✓	14.6' ✓	3391	.270 ✓	.064 ✓	.6	.07	2	W	W	W	W	W	W	S			
990.0	1005.0	15.0' ✓	15.0' ✓	3392	.295 ✓	.078 ✓	.6	.07	2	W	W	W	W	W	W	S			
1005.0	1020.0	15.0' ✓	15.0' ✓	3393	.325 ✓	.041 ✓	.6	.07	2	W	W	W	W	W	W	S			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 22
DATE COMPLETED _____ PAGE No. 18 OF 29

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
																			PROTORE ZONE - BRECCIA - MIXED C DIORITE
1020.0	1035.0	15.0' ✓	15.0' ✓	3394	.265 ✓	.043 ✓	.6 .4	.07 .07	2% 1%	W	W	W	W	W	W	S.			---1026.0--- abundant white colored, black biotite speckled, medium-coarse (6mm) hypidiomorphic granular white bleached, strongly (10-20%) limonite stained altered plagioclase-quartz with very moderate primary biotite. Not as well mineralized. In parts even darker color due to green color of altered plagioclase. Finer grained white (partly mineralized) highly altered rock as matrix for breccia. Occ. small fragment of very fine grained biotite rich
1035.0	1050.0	15.0' ✓	14.6' ✓	3395	.240 ✓	.043 ✓	.4	.1	1%	W	W	W	W	W	W	S			
1050.0	1065.0	15.0' ✓	15.0' ✓	3396	.225 ✓	.027 ✓	.4	.1	1%	W	W	W	W	W	W	S			
1065.0	1080.0	15.0 ✓	15.0 ✓	3397	.295 ✓	.080 ✓	.4	.1	1%	W	W	W	W	W	W	S			---1077.0--- See next page

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P22
DATE COMPLETED _____ PAGE No. 19 OF 21

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
1080.0	1095.0	15.0 ✓	14.3 ✓	3398	.525 ✓	.139 ✓	.4	.1	2%	W	W	W	W	W	W	S				PROTORE ZONE - BRECCIA - NIKED QTZ Alternating irregular dark blue-grey (very silicified microcrystalline) and white altered aggregate, generally weakly mineralized and fine-medium (3mm) allotriomorphic quartz and chalky white altered plagioclase, rare remnant of bleached biotite, weak-moderate mineralization Slickenside along fractures parallel to core axis sometimes present.
1095.0	1110.0	15.0 ✓	15.0 ✓	3399	.345 ✓	.058 ✓	.3	.1	1%	W	W	W	W	W	W	M				1100.0 Black-white with black speckled; fine allotriomorphic, green altered plagioclase and fresh black biotite; fine-medium (3mm) hypidiomorphic granular white bleached altered plagioclase, weak-moderate biotite. Weakly mineralized. Carbonate along fractures
1110.0	1125.0	15.0 ✓	15.0 ✓	3400	.460 ✓	.072 ✓	.6	.1	2%	W	W	W	W	W	W	S				1110.0
1125.0	1140.0	15.0 ✓	14.5 ✓	3410	.290 ✓	.041 ✓	.4	.1	1%	W	W	W	W	W	W	S				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 22
DATE COMPLETED _____ PAGE No. 20 OF 24

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
1140.0	1155.0	15.0 ✓	15.0 ✓	3411	.195 ✓	.041 ✓	.4	.1	1%	W	W	W	W	W	W	S			PROTORE ZONE - BRECCIA - MIXED. QTZ DIORITE
1155.0	1170.0	16.0 ✓	14.9 ✓	3412	.225 ✓	.060 ✓	.4	.1	1%	W	W	W	W	W	W	S			
1170.0	1185.0	15.0 ✓	12.2 ✓	3413	.170 ✓	.016 ✓	.4	.1	1%	W	W	W	W	W	W	S			--1174-- Light-dark grey, hyp'd amorphic granular med-coarse grid, mod up to 5mm. diorite
1185.0	1200.0	15.0 ✓	15.0 ✓	3414	.355 ✓	.082 ✓	.4	.1	1%	W	W	W	W	W	W	S			--1184--
																			1200.0 End of hole

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P22
DATE COMPLETED _____ PAGE No. 21 of 21

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
								ASSAY DATA											
30.0	240.0	210.0	124.8		.1048	.0185													
240.0	1200.0	960.0	910.2		.424	.0591													
30	1200	1170.0	1035.0		.536	.0517													

DESCRIPTION

PROTORE ZONE - BRECCIA - MIXED QTZ DIORITE

Core Recovery $\frac{1039.7}{1179} = 88.1$

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA East Patton Hill
DIP
CORE SIZE NQ 0.0 - 489.0 ft
BQ 489.0 - 908.0 ft

NORTHING 22,836,728.4
~~LATITUDE~~
EASTING
~~DEPARTURE~~ 365,599.2
~~LENGTH~~
ELEV 3871.0
DIP -90°
LENGTH 908.0 ft

DATE COLLARED Oct 28/69 HOLE No. P23
DATE COMPLETED Nov 13/69 PAGE No. 1 OF 15

Logged by M.P. Phillips

* move down 15 ft

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
30.0	45.0	15.0 ✓	2.6 ✓	3501	.025 ✓	.002 ✓	.05	.002	—	W	W	W	W	W	W	M				LEACHED ZONE - MIXED QTZ DIORITE White with black speckling fine-medium grained hypidiomophic granular quartz white soft altered plagioclase, k-spar, moderate-abundant fine dark green chloritized biotite book (remn) weak-absent disseminated limonite & along fractures which are not common reddish brown limonite after sulfide present.
45.0	60.0	15.0 ✓	9.4 ✓	3502	.040 ✓	.005 ✓	.05	.002	—	W	W	W	W	W	W	M				
60.0	75.0	15.0 ✓	4.0 ✓	3503	.060 ✓	.002 ✓	.05	.02	—	W	W	W	W	W	W	M				
75.0	90.0	15.0 ✓	13.5 ✓	3504	.070 ✓	.014 ✓	.05	.02	—	W	W	W	W	W	W	M				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P23
DATE COMPLETED _____ PAGE No. 2 OF 15

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
90.0	105.0	15.0	8.0	3505	.030	.010	.05	.002	—	W	W	W	W	W	W	M				LEACHED ZONE - MIXED QTZ DIORITE
105.0	120.0	15.0	11.7	3506	.065	.004	.05	.002	—	W	W	W	W	W	W	M				
120.0	135.0	15.0	15.0	3507	.025	.005	.05	.002	—	W	W	W	W	W	W	M				
135.0	150.0	15.0	11.8	3508	.020	.007	.05	.002	—	W	W	W	W	W	W	M				

--- 130.5 ---
Grey white weak-moderate biotite speck medium grained hypidiomorphic granular vitreous quartz, soft-med hard white argill. plagioclase and weak-moderate disseminations chloritic biotite.
narrow
occasional ± alteration band with disseminated pyrite. Light-dark reddish brown limonite after pyrite along fractures.

--- 148.0 ---
See next page

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P23
DATE COMPLETED _____ PAGE No. 3 OF 15

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
150.0	165.0	15.0	15.0	3509	.040	.002	.05	.002	—	W	W	W	W	W	W	M			
165.0	180.0	15.0	13.5	3510	.030	.002	.05	.002	—	W	W	W	W	W	W	M			
180.0	195.0	15.0	13.6	3511	.125	.012	.3	.03	2-3	M	W	W	W	W	W	S			
195.0	210.0	15.0	15.0	3512	.110	.012	.3	.03	2-3	M	W	W	W	W	W	S			

DESCRIPTION

LEACHED ZONE - MIXED QTZ DIORI
Chloritic biotite becomes more common -

Mike Carr - mixed qtz diorite - not part o
porphyry and unlike granodiori
characterized by large mod alt
plagioclase phenocrysts ≠5 m
variable texture suggesting an
unusual rock, irregular foliatio
maybe a hybrid intrusive ph

sharp contact
179.0
ENRICHED ZONE -
MIXED QTZ DIORITE
remnants of above 179.0

185.0

Whitish grey fine grained, allotriomorphic, bleached quartz and most strongly altered white plagioclase often subhedral up to 3 mm phenocrysts. Qtz-ser-py alteration, strong gradually weakening. Hair like - 5 mm qtz veining common. Pyrite with abundant thin coatings of cc and minor cpy with cc veins. Mos diss thru rock. Pyritic limonite along fractures. Jarosite diss thru out rock.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P23
DATE COMPLETED _____ PAGE No. 4 OF 15

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
210.0 ✓	225.0	15.0 ✓	15.0 ✓	3513	.065 ✓	.010 ✓	.25	.07	1-2	M	W	W	W	W	W	S			ENRICHED ZONE - MIXED QTZ DIOR 215.0 - Pyrite decrease and cc not as abundant. Moly. becomes more common.
225.0	240.0	15.0 ✓	13.9 ✓	3514	.090 ✓	.019 ✓	.25	.07	1-2	M	W	W	W	W	W	S			237.0 - and inclusions Narrow bands, av. 0.3 ft, with wk-mod biotite and av. 2mm mod alt. plagioclase phenocrysts. This is the same as 0-187 ft - biotitic granodiorite - M Carr - hybrid diorite - Bands 40° to core #313
240.0	255.0	15.0 ✓	14.1 ✓	3517	.110 ✓	.014 ✓	.25	.07	1-2	M	W	W	W	W	W	S			
255.0	270.0	15.0 ✓	15.0 ✓	3518	.225 ✓	.021 ✓	.25	.07	1-2	M M	W W	W W	W W	W W	W W	S M/W.			258.5 - M-coarse grained up to 5mm. biotite (?= hornblende??) in av. qtz + white alt. plag. matrix 260.0 - Green plag. and remnant biotite good alteration - well mineralized 263.0 -

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P23
DATE COMPLETED _____ PAGE No. 5 OF 15

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
270.0	285.0	15.0 ✓	14.4 ✓	3519	.200 ✓	.014 ✓	.25	.07	1	M	W	W	W	W	W	M/W			
285.0	300.0	15.0 ✓	13.6 ✓	3520	.230 ✓	.019 ✓	.25	.07	1	M	W	W	W	W	W	M/W			
300.0	315.0	15.0 ✓	15.0 ✓	3521	.200 ✓	.012 ✓	.2	.05	½	W	W	W	W	W	W	W			
315.0	330.0	15.0 ✓	15.0 ✓	3522	.190 ✓	.010 ✓	.2	.05	½	W	W	W	W	W	W	W			

DESCRIPTION

ENRICHED ZONE - MIXED QTZ DIO

Biotite rich, med-coarse grad with narrow 2ft-bands of mod-strong alteration & remnant bleached biotite. Good mineral py cc. cpy. and abundant molybdenite in good alteration.

300.0 PROTORE ZONE - MIXED QTZ DIORIT

Dark colored, med.-generally coarse grad/sm hypidiomorphic granular. qtz and weak white-pale green, mod hard, plag: oclase abundant biotite (often hornblende.) a crude lineation parallel to core axis. wk cpy, cc. on py and cpy as thin film. Weak-moderate molybdeni

Narrow bands of q-s-d alteration.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P23
DATE COMPLETED _____ PAGE No. 6 OF 15

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
330.0	345.0	15.0 ✓	12.5 ✓	3523	.200 ✓	.012 ✓	.4	.03	½	W	W	W	W	W	W	W			
345.0	360.0	15.0 ✓	13.0 ✓	3547	.315 ✓	.005 ✓	.4	.03	½	W	W	W	W	W	W	W			
360.0	375.0	15.0 ✓	8.6 ✓	3548	.205 ✓	.005 ✓	.4	.01	½	W	W	W	W	W	W	W			
375.0	390.0	15.0 ✓	15.0 ✓	3549	.195 ✓	.005 ✓	.4	.01	½	W	W	W	W	W	W	W			

DESCRIPTION

PROTOPE ZONE - MIXED QTZ. DIO

fault?

Coarse apy along fractures becomes common. Minor molybdenite. Strongly chloritic

-- 371.0 --

Shears parallel to core axis with horizontal slickensides common.

-- 378.0 --

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P23
DATE COMPLETED _____ PAGE No. 7 OF 15

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
390.0	405.0	15.0 ✓	9.7 ✓	3250	.325 ✓	.020 ✓	.4	.03	½	W	W	W	W	W	W	W			PROTORE ZONE – MIXED QTZ DIORITE
405.0	420.0	15.0 ✓	9.0 ✓	3251	.250 ✓	.003 ✓	.4	.03	½	W	W	W	W	W	W	W			
420.0	435.0	15.0 ✓	10.5 ✓	3252	.075 ✓	.003 ✓	.4	.03	½	W	W	W	W	W	W	W			
435.0	450.0	15.0 ✓	15.8 ✓	3253	.005 ✓	.005 ✓	.2	.02	½	W	W	W	W	W	W	V			-- 440.0 -- Bottom of cpy in fracture, Pyrite common along fractures w/ cpy. Rare moly.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P23

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 8 OF 15

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K—SPAR	SERICITE	ARGILLIC			
450.0	465.0	15.0 ✓	13.3 ✓	3854	.425 ✓	.027 ✓	.2	.02	½	W	W	W	W	W	W	W			
465.0	480.0	15.0 ✓	13.8 ✓	3855	.185 ✓	.005 ✓	.2	.02	½	W	W	W	W	W	W	W			
480.0	495.0	15.0 ✓	15.0 ✓	3856	.580 ✓	.008 ✓	2	.02	½	W	W	W	W	W	W	W			
495.0	510.0	15.0 ✓	16.7 ✓	3857	.325 ✓	.008 ✓	.25	.03	2%	W	W	S 0°	W	W	W	S			

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIO

488 - Strong fracturing and fine brecciation with pyrite common as fracture fill. Structures parallel to core axis

494.5 - Dark green, very fine grained, all traces of granular qtz and pale-dark green plag with irregular dark green aphanitic to irregular shaped and along fractures. Strong fracturing with carbonate fill. Stringer and disc pyrite common.

508.5 - gradational/ See Page 9.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P23
DATE COMPLETED _____ PAGE No. 9 OF 15

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K—SPAR	SERICITE	ARGILLIC				
510.0	525.0	15.0 ✓	15.0 ✓	3353	.215 ✓	.021 ✓	.1	.02	1/4%	W	W	W 45°	W	W	W	W				PROTORE ZONE - MIXED QTZ DIO Dark green fine grained, allotriomorphic granu qtz-pyrite, wk-mod plagioclase and abundant chlori biotite. Wk - moderate fracturing, often co filling. Wk pyrite. Occ. g-s. along fract.
525.0	540.0	15.0 ✓	15.0 ✓	3359	.170 ✓	.024 ✓	.1	.02	1/4%	W	W	W 45°	W	W	W	W				-- 528.0 -- Med-coarse grad, euhedral-sub hedral wea alt plagioclase. Chloritized bio in irregula clots often terminating sharply on fracture -- 532.0 -- -- 533.5 -- Med-coarse grad. pale green euhedra -- 535.0 -- plagioclase common Bleached, minor biotite, pale-dark gre plagioclase. Strong pyrite stringers
							.15	.05	2%	M	M	W 0°	W	W	W	M				-- 540 -- Irregular bands of alteration
540.0	555.0	15.0 ✓	15.0 ✓	3360	.080 ✓	.019 ✓	.15	.05	2%	W	W	W	W	W	W	W				-- 545.0 -- = fine grained, dark colored
							.1	.02	1/4 10											-- 551.0 -- Grey-green ish tinge (3mm). Grey, fine-medium grained, hypidiomorp allotriomorphic qtz, pale grey-white alte plagioclase with weak foliation and irregula narrow bands with chloritic biotite, pyrite & veinlets. Chalcopyrite and occas molybdenite in wide (2cm.) qtz vein Fracturing weak
555.0	570.0	15.0 ✓	14.3 ✓	3361	.165 ✓	.029 ✓	.25	.05	2%	W	W	W	W	W	W	S				-- 568.0 --

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P23
DATE COMPLETED _____ PAGE No. 10 OF 15

SAMPLE AND ASSAY DATA										ALTERATION										
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				DESCRIPTION
570.0	585.0	15.0 ✓	15.0 ✓	3862	.170 ✓	.058 ✓	.25	.07	2	M	M	W	W	W	W	S				PROTORE ZONE - MIXED QTZ DIORITE Grey, fine grained generally medium grained hypidiomorphic granular, qtz rich, white altered plagioclase and occasional disc on narrow bands with chloritic biotite Slicken on fracture horizontal. Carbonate in fr common. Moly common in crack and qtz vein, mi disseminated
585.0	600.0	15.0 ✓	15.0 ✓	3863	.180 ✓	.127 ✓	.25	.07	2	M	M	W	W	W	W	S				-- 597 -- Med green altered plagioclases common Pyrite mineralization poorer
600.0	615.0	150 ✓	15.0 ✓	3864	.140 ✓	.036 ✓	.1	.07	1	M	M	W	W	W	W	M				-- 611.0 --
615.0	630.0	150 ✓	15.0 ✓	3865	.180 ✓	.054 ✓	.25	.05	2	M ⌐	M 45°	W 60°	W	W	W	S				-- 615.5 -- Up to 0.2 ft qtz veins become common

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P23
DATE COMPLETED _____ PAGE No. 11 OF 15

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
630.0	645.0	15.0 ✓	15.0 ✓	3826	.160 ✓	.033 ✓	.25	.05	2%	M	M	W 0°	W	W	W	S				PROTORE ZONE - MIXED QTZ DIORI Fine speckling of hematite sometimes p
							.15	.02	1%	M	M	W	W	W	W	W				-639.0 Greenish plagioclase common. Wea mineralization
							.25	.05	2%	M	M	W	W	W	W	S				-649.0 Good up to 1cm qtz veining wit moly & chalcopyrite as blebs
645.0	660.0	15.0 ✓	15.0 ✓	3867	.175 ✓	.064 ✓	.25	.05	2%	M	M	W 0°	W	W	W	S				-657.5 Abundant green plagioclase, acc. blo -659.0 — and sericitized biotite -660.5 - 0.05 ft pyrite 45° to core axis
660.0	675.0	15.0 ✓	15.0 ✓	3868	.165 ✓	.069 ✓	.1	.02	1%	W	W	W	W	W	W	W				-662.5 GRANODIORITE - MIXED QTZ D Dark colored, fine-medium (4mm) g hypidiomorphic granular qtz, pale-n green plagioclase and weak-moder books of black biotite discs and in poorly defined irregular bands.
675.0	696.0	15.0 ✓	15.0 ✓	3869	.150 ✓	.033 ✓	.1	.02	1%	W	W	W	W	W	W	W				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P23

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 12 OF 15

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
690.0	705.0	15.0 ✓	12.3 ✓	3870	.195 ✓	.031 ✓	.15	.05	1%	W	M	M 0°	W	W	W	M				PROTORE ZONE A GRANODIORITE - MIXED QTZ DIOR Grey, fine - medium (2mm) grained, hypidiomorphic granular, quartz and pale occ. zones with dark green moderately (5%) altered plagioclase and occasional 6% pale green sericitized biotite. Carbonate in fractures. Distinct euhedral plagioclase Qtz veins common and often good molyb with fracturing affecting qtz veins One unaltered K-spar = 10%
705.0	720.0	15.0 ✓	15.0 ✓	3871	.125 ✓	.030 ✓	.15	.05	1%	W	M	M 0°	W	W	W	M				— 5% biotite becomes absent.
720.0	735.0	15.0 ✓	15.0 ✓	3872	.185 ✓	.095 ✓	.15	.1	1%	W	M	M 0°	W	W	W	M				— 723 — shearing along cleavage planes with slickenside becomes common
735.0	750.0	15.0 ✓	15.0 ✓	3873	.140 ✓	.031 ✓	.2	.05	1%	W	M	M 0°	W	W	W	M				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P23

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 13 OF 15

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
										W	M	M 0°	W	W	W	W			PROTORE ZONE ^ GRANODIORITE-MIXED QTZ DIOR
750.0	765.0	15.0 ✓	14.2 ✓	3874	.450 ✓	.031 ✓	.20	.05	½	W	M	M 0°	W	W	S	S			755.0 Grey fine grained pervasive qtz-ser-py. alteration. Occ pyrite stringer parallel to core axis. Sometime qtz rounded and rock appears to look porphyritic - probable altered feature - mobilization to fine grained qtz and breakdown of plagioclase
765.0	780.0	15.0 ✓	15.0 ✓	3875	.540 ✓	.044 ✓	.3	.05	½	W	M	M	W	W	W	S			768.0 Narrow irregular bands of grey qtz-ser-pyrite alteration. Slight increase in qtz veinlets with moly. Slickensided fractures common. Strong alteration, slight decrease in intensity towards bottom. Fine grained 0.5mm and medium grained (1mm) core representing difference in original texture of rock.
780.0	795.0	15.0 ✓	15.0 ✓	3876	.325 ✓	.046 ✓	.3	.05	½	W	M	M	W	W	W	S			
795.0	810.0	15.0 ✓	14.7 ✓	3877	.310 ✓	.079 ✓	.3	.05	½	W	M	M	W	W	W	S			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P23
DATE COMPLETED _____ PAGE No. 14 OF 15

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
810.0	825.0	15.0 ✓	15.0 ✓	3878	.240 ✓	.028 ✓	.25	.03	½	+ W	+ W	+ W	+ W	W	W	+++ S		PROTORE ZONE - GRANODIORITE - M QTZ DIORITE --814.5-- Narrow irregular bands of alkies black biotite become common --823.0-- Dark green alt plagioclase with biotite
825.0	840.0	15.0 ✓	15.0 ✓	3879	.160 ✓	.031 ✓	.15	.03	½	W	W	W	W	M	W	M		--826.0-- Pink grey, equigranular, biotite absent K-spar veinlets. -838.0- Numerous fine grained biotite rich bands, in a strong-weak altered grey rock as 826.-838.6
840.0	855.0	15.0 ✓	15.0 ✓	3880	.245 ✓	.044 ✓	.15	.03	½	I W	W	W	W	W	W	W/M		--847.0- Black fine grained, biotite rich, soft p green waxy plagioclase. --853.0-- Strong alt chalky plag, med grad.
855.0	870.0	15.0 ✓	15.0 ✓	3881	.125 ✓	.046 ✓	.15	.03	½	W	W	W	W	W	W	W & M.		--857.0-- wide bands Alternating bands of grey, black biot 10-30%, (3mm) speckled, med grad hypidi morphic granular, weakly altered granodiorite and grey, biotite fr moderately alt plag with moly in fractures and qtz veinlets Biotite rock coarse biotite

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P23
DATE COMPLETED _____ PAGE No. 15 OF 15

SAMPLE AND ASSAY DATA										ALTERATION											DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC					
870.0	885.0	15.0 ✓	15.0 ✓	3882	.105 ✓	.012 ✓				W	W	W	W	W	W	W & M					PROTORE ZONE - GRANODIORITE - MINE QTZ DIORITE
																					878.0 Gradation - L. Black biotite speckled, med-dark green plagioclase with narrow bands of moderately altered argillic alteration - biotite free.
885.0	900.0	15.0 ✓	15.0 ✓	3883	.170 ✓	.072 ✓				W	W	W	W	W	W	W & M					
										W	W	W	W	W	W	S					896.0 Moderate - strong argillic alteration. Medium grained 1-2mm, hypidiomorphic granular.
900.0	908.0	8.0 ✓	7.6 ✓	3884	.190 ✓	.022 ✓				W	W	W	W	W	W	W					903.0
									ASSAY DATA												908.0 End of hole
30.0	255.0	225.0 ✓	177.0		.063	.008															
255.0	908.0	653.0	614.6		.221	.032															

Core Recovery = $\frac{791.6}{878.0} = 9$

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Patton Gulch
DIP
CORE SIZE NQ 0.0 - 488.0 ft

NORTHING 22,835,730.0
~~LATITUDE~~
EASTING
DEPARTURE 362,831.4
~~LENGTH~~
ELEV. 4175.5
DIP -90°
LENGTH 488.0 ft

DATE COLLARED Oct 30/69 HOLE No. P24.
DATE COMPLETED Nov 8/69 PAGE No. ____ OF ____

245; 2E.
Logged by - M.P Phillips

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
																			Casing 0-15.0 ft
15.0	30.0	15.0 ✓	12.9 ✓	3524	.040 ✓	.002 ✓	.05	.002	—	W	W	M	W	W	W	M			LEACHED ZONE - FELDSPAR PORPHYRY — abundant, crowded light-dark colored, 0.5-5mm. euhedral to often zoned altered plagioclase phenocrysts in soft white-bleached sericitic aphanitic dark green matrix containing assessional irregular blebs of dark green/chloritized biotite. dark reddish brown Limonite after pyrite common mainly as fracture generally vertical to core axis and pervasive dirty orange limonite.
30.0	45.0	15.0 ✓	15.0 ✓	3525	.035 ✓	.010 ✓	.05	.002	—	W	W	M	W	W	W	M			
45.0	60.0	15.0 ✓	15.0 ✓	3526	.045 ✓	.014 ✓	.05	.002	—	W	W	M	W	W	W	M			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P29
DATE COMPLETED _____ PAGE No. 2 OF _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
60.0	75.0	15.0 ✓	11.6 ✓	3527	.025 ✓	.002 ✓	.05	.002	—	W	W	W	W	W	W	M				LEACHED ZONE ∧ FELDSPAR PORPHYRY -69.0 - Biotite prominent. Occ. 1-2mm grs. phenocryst. Lighter colored rock biotite has been sericitized alternating light & dark color depending on alteration
75.0	90.0	15.0 ✓	13.0 ✓	3528	.020 ✓	.002 ✓	.05	.002	—	W	W	W	W	W	W	M				
90.0	105.0	15.0 ✓	15.0 ✓	3529	.025 ✓	.002 ✓	.05	.002	—	W	W	W	W	W	W	M				
105.0	120.0	15.0 ✓	14.6 ✓	3530	.020	.002 ✓	.05	.002	—	W	W	W	W	W	W	M				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 24
DATE COMPLETED _____ PAGE No. 3 OF _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		LEACHED ZONE ^ FELDSPAR PORPHYRY
120.0	135.0	15.0 ✓	15.0 ✓	3531	.025 ✓	.002 ✓	.05	.002	—	W	W	W	W	W	W	M		
135.0	150.0	15.0 ✓	13.2 ✓	3532	.025 ✓	.002 ✓	.05	.002	—	W	W	W	W	W	W	M		
150.0	165.0	15.0 ✓	14.7 ✓	3533	.025 ✓	.002 ✓	.05	.002	—	W	W	W	W	W	W	M		
165.0	180.0	15.0 ✓	14.6 ✓	3534	.025 ✓	.002 ✓	.05	.002	—	W	W	W	W	W	W	M		

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P24
DATE COMPLETED _____ PAGE No. 4 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
180.0	195.0	15.0 ✓	15.0 ✓	3536	.020 ✓	.005 ✓	.05	.002	—	W	W	W	W	W	W	M			
195.0	210.0	15.0 ✓	15.0 ✓	3537	.015 ✓	.019 ✓	.05	.002	—	W	W	W	W	W	W	M			
210.0	225.0	15.0 ✓	10.8 ✓	3538	.030 ✓	.040 ✓	.05	.002	—	W	W	W	W	W	W	M			
225.0	240.0	15.0 ✓	9.0 ✓	3539	.145 ✓	.040 ✓	.2	.03	½	W	W	W	W	W	W	M			

LEACHED ZONE DESCRIPTION
FELDSPAR PORPHYRY

^
--182.0 - disseminated pyrite with occasional film

Dark sections due to increase in fine biotite in less altered bands between strong alteration

-240.0

ENRICHED ZONE -
FELDSPAR PORPHYR

--235.0 - cc coating pyrite becomes common

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P24

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 5 OF _____

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
240.0	255.0	15.0 ✓	10.7 ✓	3539 ✓	.375 ✓	.048 ✓	.25	.03	½%	W	W	W	W	W	W	M				ENRICHED ZONE - FELDSPAR PORPHYRY --245.0--- Matrix darker color
255.0	270.0	15.0 ✓	8.3 ✓	3540 ✓	.215 ✓	.107 ✓	.25	.03	1%	W	W	W	W	W	W	M				Occ. 0.2" band of q-s-p
270.0	285.0	15.0 ✓	7.2 ✓	3541 ✓	.240 ✓	.055 ✓	.20	.04	1%	W	W	W	W	W	W	M				--277.0 - limonite not common on pyrite st Aphanitic gtz common in matrix. Occ gtz phenocrysts 1-2mm
285.0	300.0	15.0 ✓	10.8 ✓	3542 ✓	395 ✓	.067 ✓	.1	.05	1%	W	W	W	W	W	W	M				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P24
DATE COMPLETED _____ PAGE No. 6 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
300.0	315.0	15.0	11.1	3543	.360	.032	.1	.03	1-2	W	W	W	W	W	W	M			
315.0	330.0	15.0	8.5	3544	.640	.022	.1	.03	1-2	W	W	W	W	W	W	M			
330.0	345.0	15.0	11.5	3545	.105	.022	.1	03	1-2	W	W	W	W	W	W	M			
345.0	360.0	15.0	11.6	3546	.170	.034	.1	0	1-2	W	W	W	W	W	W	M			

DESCRIPTION

ENRICHED ZONE

FELDSPAR PORPHYRY

311.0 — Tourmaline in one fracture

316.0 — cpy becomes more common along fracts
Cc film on pyritic fracture

330.0 — PROTORE ZONE - FELDSPAR PORPHYRY

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P24
DATE COMPLETED _____ PAGE No. 7 OF _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				PROTORE ZONE - FELDSPAR PORPH
360.0	375.0	15.0	14.4	3885	.130 ✓	.049 ✓	.1	.03	1-2	W	W	W +	W	W	W	M				Fractures with pyrite and thin coating of cc common Up to 1cm plagioclase phenocrysts beco common - upper contact?
375.0	390.0	15.0	11.8	3886	.165 ✓	.034 ✓	.1	.03	1-2	W	W	W	W	W	W	M				-- Coarse cpy on fracture
390.0	405.0	15.0	11.4	3887	.140 ✓	.044 ✓	.05	.03	1-2	W	W	W	W	W	W	M				-- Up to 1cm. plagioclase phenocrysts common Cc. on pyritic fractures not common.
405.0	420.0	15.0	4.7	3888	.245 ✓	.022 ✓	.05	.03	1-2	W	W	W	W	W	W	M				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 24
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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
																			PROTORE ZONE
																			^ FELDSPAR PORPHYRY
420.0	435.0	15.0	11.0	3889	.155 ✓	.029 ✓	.1	.03	1-2	W	W	W	W	W	W	M			
																			--431.0 - Course cpy on fracture
435.0	450.0	15.0	10.7	3890	.145 ✓	.007 ✓	.1	.03	1-2	W	W	W	W	W	W	M			
450.0	465.0	15.0	11.6	3891	.095 ✓	.002 ✓	.05	.03	½	W	W	W	W	W	W	M			--456 - contact dip parallel to core axis biotite rich Very fine grained green matrix with 0.5 - 3mm 1 mm plagioclase phenocrysts. Fine pyrite stringers
465.0	480.0	15.0	14.7	3892	.135 ✓	.002	.05	.03	½	W	W	W	W	W	W	M			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P24
DATE COMPLETED _____ PAGE No. 9 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
480.0	488.0	8.0	7.1	3893	.015	.002	.05	.002	½	W	W	W	W -	W	W	M			PROTORE ZONE - FELDSPAR PORPHYRY - 488.0 - End of hole
								ASSAY DATA											
15.0	225.0	210.0	195.4		.027	.008													Core Recovery $\frac{381.5}{473.0}$ = 80
225.0	330.0	105.0	65.6		.339	.053													
330.0	488.0	158.0	120.5		.136	.022													
			381.5																

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA EAST PATTON HILL
DIP
CORE SIZE NQ 0.0-602.0 ft
BQ 602.0-1004.0 ft

NORTHING 22,837,294.8
~~LATITUDE~~
EASTING
DEPARTURE 365,092.0
~~LENGTH~~
ELEV 3945.5
DIP -9.0°
LENGTH - 1004.0 ft.

DATE COLLARED NOV 3/69 HOLE No. P25
DATE COMPLETED NOV 29/69 PAGE No. 1 OF

LOGGED BY M.P. Phillips

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
										W	W	W	W	W	W	W			Casing - 0-94 ft.
94.0	105.0	9.0	7.8	3894	.235	.013	.25	.03	1-2	W	M	W	W	W	W	S			94.0 — PROTORE ZONE MIXED QTZ DIORITE 2mm Dark colored, fine - medgrained hypidiomorphic granular qtz white mod hard - greenish sericitic weakly alt plagioclase and abundant 2-3mm biotite 98.0 — 0.5 ft blue gouge on contact
111.5	120.0	15.0	12.6	3895	.135	.010	.25	.03	1-2%	W	M	W	W	W	W	S			111.5 — White, fine grained allotriomorphic-granular qtz and highly altered groundmass of plagioclase with occ up to 2mm subhedral plagioclase phenocryst. Fine qtz veining common. Alteration replaces impartz banding - 45° to core axis. Pyrite 1-2 % with minor cc. coating and minor chalcopyrite. Diss moly moderate and with qtz veins common. Post mineral fractures with slickensides occasionally present.
120.0	135.0	15.0	13.6	3896	.080	.013	.25	.03	1%	W	M	W	W	W	W	S			
135.0	150.0	15.0	10.3	3897	.090	.023	.25	.07	1%	W	M	W	W	W	W	S			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 25
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SAMPLE AND ASSAY DATA										ALTERATION										
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				DESCRIPTION
150.0	165.0	15.0 ✓	10.5 ✓	3898	.095 ✓	.015 ✓	.4	.1	1-2%	M	M	W	W	W	M	S				PROTORE ZONE - MIXED QTZ DI Moly common in qtz stringers. Coarse cpy. with moly in stringers.
165.0	180.0	15.0 ✓	13.0 ✓	3899	.115 ✓	.020 ✓	.25	.05	2%	M	M	W	W	W	M	S				Rare bleached fine book of. biotite
180.0	195.0	15.0 ✓	5.8 ✓	3900	.095 ✓	.013 ✓	.2	.05	2%	M	M	W	W	W	M	S				
							.1	.01	1%	W	W	W	W	W	W	W				
195.0	210.0	15.0 ✓	14.8 ✓	3904	.230 ✓	.041 ✓	.2	.05	2%	M	M	W	W	W	M	S				Cc. still present as thin film usually along fracture

187.0 — 3mm. bleached and chloritic biot. occ. veins
188.0 — Qtz Diorite? - Biotitic Monz
190.5 — ground
No core — fault?
Dark colored fine-med (4mm) grained hypidiomorphic gra strong gtz and chloritic brown biotite and weak-moderate minor plagioclase. M. not spar? Some 2cm k-spar veining. Pyrite common on vein & fracture syste

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P25

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SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				PROTORE ZONE - MIXED QTZ DIOR
210.0 ✓	225.0 ✓	15.0 ✓	12.2 ✓	3905	.115 ✓	.008 ✓	.15	.03	2%	M	M	W	W	W	M	S				Rare tourmaline and chalcocite
225.0	240.0	15.0 ✓	12.2 ✓	3906	.115 ✓	.003 ✓	.3	.03	3%	W +	W +	M ++ 40°-90°	W	W +	W +	W +				-225.0- ~~contact~~ ~~aligned~~ - dip 45° to core axis? Dark colored, fine-medium grained (3 hypidiomorphic granular quartz, white-pale green weakalt. plagioclase and abundant chloritic biotite well fract with carbonate common as filling. Mi up to 1cm qtz veining. Fracturing to core axis Pyrite diss and common along fracture Coarse cpy. 2mm. patchy along fract Rare molybdenite.
240.0	255.0	15.0 ✓	12.2 ✓	3907	.275 ✓	.010 ✓	.3	.03	3%	W	W	M 40°-90°	W	W	W	W				-247.0- fractures parallel to core axis -249.0- Pale green. alt. plagioclase speck Slickensides on fractures common- to
							.15	.03	2%	M	M	M 0-45°	W	W	M	S				
255.0	270.0	15.0 ✓	14.4 ✓	3908	.175 ✓	.015 ✓	.15	.1	2%	M	M	M 0°	W	W	M	S				-257.0- ~~alteration~~ - alteration bands & veining common. -261.5- Rare scattered flakes of biotite -267.0 - 0.3' Qtz Diorite wedge between gouge fractures

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

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298.0 –

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
270.0	285.0	15.0	15.0		✓	✓	.15	.05	2%	M	M	M 0°	W	W	W	S		PROTORE ZONE - MIXED QTZ DIORITE
285.0	300.0	15.0	15.0		✓	✓	.15	.05	2%	M	W	M 0°	W	W	M	S		
										M	W	S	W	W	M	M		
										M	W	M	W	W	M	C		
										M	W	S	W	W	M	M		
300.0	315.0	15.0	15.0			✓	.15	.05		W	W	S 0°	W	W	W	M		
315.0	330.0	15.0	15.0		✓	✓	.2	.1		W	W	S 0°	W	W	W	M		

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

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SAMPLE AND ASSAY DATA										ALTERATION											DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			Magnetism		
																					PROTOREZONE - MIXED QTZ DIOR
330.0	340.0	10.0 ✓	10.0 ✓	3913	.280 ✓	.038 ✓	.35	.03	½°	W	W	M 0-30°	W	W	W	M			W		
340.0	355.0	15.0 ✓	12.8 ✓	3914	.150 ✓	.008 ✓	.4	.01	½	+ W	+ W	++ 0°-30° M 0°-30°	+ W	+ W	+ W	++ M			M		
355.0	370.0	15.0 ✓	15.0 ✓	3915	.270 ✓	.013 ✓	.45	.02	½	W	W	M 0°-30	W	W	W	M			W/M		
370.0	375.0	5.0	5.0	3916	.185 ✓	.006 ✓				W	W	M 0-30°	W	W	W	M			W		
					5	5	.45	.02	½												

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P25
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SAMPLE AND ASSAY DATA										ALTERATION											DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			Magnetism		
375.0	390.0	15.0 ✓	14.2 ✓	3917	.180 ✓	.012 ✓	.35	.05	1/2	W	S	W	W	W	W	M			W		PROTORE ZONE - MIXED QTZ DIOR --- 376.0 Strong qtz veining and flooding with g-s alteration. Cpy and py. common in qtz veins --- 386.0
390.0	405.0	15.0 ✓	15.0 ✓	3918	.340 ✓	.026 ✓	.4	.03	1/2	W	W	M 0-30	W	W	W	M			W/M		--- 394 - Fracture 5° to core axis with mois --- 395 smeared on slickenside 45° to core Stockwork of 2mm. fibrous gypsum v which cut qtz vein. Sometimes diss cpy and pyrite in gypsum veinlets. Slickenside fracture offset gypsum vei
405.0	420.0	15.0 ✓	14.2 ✓	3919	.380 ✓	.020 ✓	.45	.03	1/2	W	W	M 0-3°	W	W	W	M			S		2cm. Change from mottled to even dark green due to increase chlorite an biotite
420.0	435.0	15.0 ✓	15.0 ✓	3920	.220 ✓	.015 ✓	.5	.03	1/2	W	W	M	W	W	W	M			M		--- 420.0 - Cpy and molite in gypsum. --- 432.0 - Occasional, .1 - .5 ft, widely sepa bands of grey g-s and qtz with n specking. Band 90° to core axis

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P25

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CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION											DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd. BIOTITE	K-SPAR	SERICITE	ARGILLIC			Magnetics		
435.0	450.0	15.0 ✓	14.0 ✓	3921	.295 ✓	.013 ✓	.5	.05	1%	W	W	M 0°-30°	W	W	W	M			M		PROTORE ZONE - MIXED QTZ DIOR very qtz rich
450.0	465.0	15.0 ✓	.5 ✓	3922	.260 ✓	.026 ✓	.5	.02	1%	W	W	M 6°-30°	W	W	W	M			M		
465.0	480.0	15.0 ✓	15.0 ✓	3923	.200 ✓	.051 ✓	.2 .4	.1 .05	½ 1%	M W	M W	W M 0°-30°	W W	W W	S W	W M			M		466.5 Grey fine grained intense q-s-alt with remnant speckling of chlor biotite. Qtz flooding strongest molybdenite. Sparse pyrit 471.0 Gradational Irregular narrow 0.1-0.2 ft qtz bands with cpy and molybdenite. Gypsum veinlet decrease in intensi & width. Often mottled appearance by the biotit with disc cpy and moly.
480.0	495.0	15.0 ✓	15.0 ✓	3924	.155 ✓	.020 ✓	.20	.02		W	W	M 0-30°	W	W	W	M			—		

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P25

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CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				DESCRIPTION
495.0	510.0	15.0 ✓	15.0 ✓	3925	.105 ✓	.046 ✓	.15	.02	½%	W	W	M 0-30°	W	W	W	M				PROTORE ZONE - MIXED QTZ DIO Fine euhedral bleached twinned k-spars sometimes seen - 5-15%. Biotite appears to be two varities - 1. 1-3 mm book biotite 2. fine matt of chloritized biotite
510.0	525.0	15.0 ✓	11.8 ✓	3926	.150 ✓	.036 ✓	.15	.02	½%	W	W	M	W	W	W	M				Sec. bleached band .1-.3 ft. - sericite biotite
525.0	540.0	15.0 ✓	15.0 ✓	3927	.175 ✓	.013 ✓	.3	.03	½%	W	W	M	W	W	W	M				-- 525.0' Gypsum filled stockwork fracturing increases Moly sometimes present in gypsum. Mineralization increases
540.0	555.0	✓ 15.0	✓ 15.0	3928	.190 ✓	.051 ✓	.25	.03	½%	W	W	M	W	W	W	M.				-- 541.0 Strong slickensiding along fractures. not parallel to core axis.

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DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

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SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
555.0	570.0	15.0 ✓	15.0 ✓	3929	.245 ✓	.023 ✓	.15 .15	.02 .03	¼% ¼%	W	W	M 0-30°	W	W	W	M			
570.0	585.0	15.0 ✓	15.0 ✓	3930	.215 ✓	.003 ✓	.15	.01	½%	W	W	M	W	W	W	W/M			
585.0	595	10.0 ✓	10 ✓	3931	.120 ✓	.073	.15	.02	½%	W	W	M	W	W	W	W/M			
							.2	.05	½%	W	W	M	W	W	W	M			
595	610.0	15.0	14.0	2051.0	.090	.050												start hole move everything down 5 ft divisions	

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIOR

- Strong silicification/fracture 0° to core axis.?
- 552.0
- 564.0 – Mottled medium Qtz and pale green altered plagioclase with weak to moderate biotite. Occ. bands of strong biotite. Fracturing weak and gypsum filled fractures as strong as previously. Irregular up to 0.1 ft. bleached alteration bands sometimes present.
- 585.0 – fine grained Black abundant biotite, med green alt with narrow bands (up to 2 ft) wk to mod strong argillic alteration and good epy molybdenite
- 595.0 – Gradational Bleached, fine grained, grey, alteration - hypidiomorphic granular, qtz, mod alt biotite, white plagioclase. Qtz veins with moly & calcite. Gypsum and calcite common along fractures Wk epy.
- 600 – Mud
- 602.0 – NQ / BQ
- 610.0 – gradational Occ. black fine grained, biotite bands up to 0.5 ft present.

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DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P25

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SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
616.0	625.0	15.0	15.0	2052	.150	.023	.15	.02	1%	W	W	M	W	W	W	W/M +/-				PROTOREZONE - MIXED QTZ DIOR 622.5 Black fine grained biotite rich and sec med (2mm) mod biotite. Weak-mo alteration.
625.0	640.0	15.0	15.0	2053	.150	.023	.15	.03	1%	W	W	M	W	W	W	M				639.0 Grey mod alt, Gypsum and carbonate common. Slickensided step. fracture
640.0	655.0	15.0	12.0	2054	.110	.020	.15	.02	1%	W	W	M	W	W	W	W				654.0 Fine, some medium grad. black colors Narrow med alt bands.
655.0	670.0	15.0	15.0	2055	.110	.025	.1	.01	1%	W	W	M	W	W	W	W				674.0 Grey, fine grad mod alt.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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CORE SIZE _____ LENGTH _____

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SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
670.0	685.0	15.0	15.0	2056	.190	.023	.2	.02	1	W	W	M	W	W	W	W			
685.0	700.0	15.0	13.3	2057	.180	.028	.2	.02	1	W	W	M	W	W	W	W			
700.0	715.0	15.0	9.3	2058	.255	.025	.2	.02	1	W	W	M	W	W	W	W			
715.0	730.0	15.0	75.0	2059	.130	.078	.2	.02	1	W	W	M	W	W	W	W			

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIOR

Sedimentary page

676.0
Black, fine grained biotite rich, wk alt in parts slightly greyish where slight better alteration. Biotite 20-40%
Slickensided fracturing parallel to core axis common. Gypsum common in fractures
Occ narrow better altered, biotite less bands

719.0
Biotite decreases, slightly coarser text Plagioclase weakly altered.
Bands slightly lighter colored, less and better altered often present.
Gypsum in 2-3mm fractures x-t

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AREA _____ LATITUDE _____
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CORE SIZE _____ LENGTH _____

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
730.0	745.0	15.0	14.5	2060	.145	.076	.15	.02	1	W	W	M	W	W	W	W/			PROTORE ZONE - MIXED QTZ DIOR
																			--748 Black fine grnd alte. Qtz. veinlets with moly. some pyrite present. Wk stockwork with gypsum veins
745.0	760.0	15.0	15.0	2061	.150	.030	.15	.02	1	W	W	W	W	W	W	W			
760.0	775.0	15.0	8.1	2062	.080	.005	.15	.01	½-1%	W	W	W	W	W	W	W			--779.5 — ground - appears to be 90° to core
775.0	790.0	15.0	14.1	2063	.075	.030	.15	.1	1% ½	W	M	W	W	W	W	≤			white, chalky colored, allotriomorphic granular fine grained (.5mm average) qtz 50%; soft waxy white plagioclase. Rare sericitized biotite. Disseminated cpy and py. Cracks - 2mm qtz veinlets with molybdenite

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DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

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DATE COMPLETED _____ PAGE No. 13 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
790.0	805.0	15.0	10.7	2064	.065	.023	.15	.15	½%	W	M	W	W	W	W	S			PROTORE ZONE - MIXED QTZ DIORITE 800.0 Mud - 8.0 ft Core loss 808 often hypidiomorphic granular
805.0	820.0	15.0	12.1	2065	.095	.045	.15	.1	½%	W	M	W	W	W	W	S			
820.0	835.0	15.0	15.0	2066	.090	.038	.15	.1	½%	W	M	W	W	W	W	S			
835.0	850.0	15.0	14.9	2067	.085	.043	.15	.1	½%	W W	M M	W W	W W	W W	W W	W/M S			~~Granitoid~~ Grey gradually darker, with biotite 839.5 840.5 Black fine grained, abundant bio 844.0 Gradational change as above 845.0 Mainly hypidiomorphic-granular

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P25

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 14 OF _____

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
							.15	.1	½	W	M	W	W	W	W	S		PROTORE ZONE — MIXED QTZ DIO-
																		859.5 — Grey, equigranular, fine grained, pale med grained altered plagioclase. Occ twinned plagioclase. Moly along fractures and qtz veins and disc c Weak disc biotite
850.0	865.0	15.0	14.6	2068	.065	.055	.1	.1	½%	W	W	W	W	W	W	M		Bands of white strong argillic altera become common
																		879.5 — Fine and med (2mm) biotite rich band and xenoliths
865.0	880.0	15.0	15.0	2069	.065	.025	.1	.1	½%	W	M	W	W	W	W	S		As previous mainly hypidiomorph granular — sericitized biotite com widely spaced fractures 0-30° to core axis with gouge and slickens
880.0	895.0	15.0	15.0	2070	.080	.030	.1	.1	½%	W	M	W	W	W	W	S		
895.0	910.0	15.0	15.0	2071	.075	.134	.1	.1	½%	W	M	W	W	W	W	S		

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P25
DATE COMPLETED _____ PAGE No. 15 OF _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K—SPAR	SERICITE	ARGILLIC				
910.0	925.0	15.0	15.0	2072	.130	.078	.1	.1	½%	W	M	W	W	W	W	S				PROTORE ZONE - MIXED QTZ-DIORITE -923.5- Gradational with Granodiorite fine grained, dk biotite, Qtz veining by sometimes Qtz veinlets present -926.5- bleached -928.5-
925.0	940.0	15.0	15.0	2073	.125	.078	.1	.1	½%	W	W	W	W	W	W	W/M				Carbonate common along fr -936.0- Pink grey, fine grained equigranular mod. hard silt plagioclase -939.0-
940.0	955.0	15.0	14.4	2074	.105	.048	.1	.03	½°	W	W	W	W	W	W	W/M				Becomes slightly coarser grained than fine grained chloritic biotite rich. Coarse epy
955.0	970.0	15.0	15.0	2075	.100	.073	.1	.03	½°	W	W	W	W	W	W	W/M				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P25
DATE COMPLETED _____ PAGE No. 16 OF _____

SAMPLE AND ASSAY DATA

FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%
970.0	985.0	15.0	15.0	2076	.065	.036	.1	.05	½°
985.0	1000.0	15.0	15.0	2077	.105	.019	.05	.01	½%
1000.0	1004.0	4.0	4.0	2078	.080	.024	.05	.01	
94.0	715.0	621.0			.184	.022			
715.0	1004.0	289.0			.096	.048			
94.0	1004.0	910.0			.154	.030			

ASSAY DATA

ALTERATION

SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC
W	M	W	W	W	W	S
W	M	W	W	W	W	W/M

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIORITE

As previous. Strong qtz veinlet (5mm) parallel to core axis.
Hole system common in altered zone

-994.0 - 1' Gradational

-996.0 -

Granodiorite Grey, black spots
Fine grained, pale dark grey ortho-plagioclase Carbonate common also fractures

1004 End of hole.

Core Recovery $\frac{830.6}{910.0} = 91.2$

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA East Patton Hill
DIP
CORE SIZE NQ - 0.0 - 688.0 ft
BQ 688.0 - 757.0 ft

NORTHING
~~LATITUDE~~ 22,837,933.5
EASTING
DEPARTURE 364,600.4
~~LENGTH~~
ELEV 4030.1
DIP -90
LENGTH 757.0 ft

DATE COLLARED NOV 10/69 HOLE No. P 26
DATE COMPLETED NOV 27/69 PAGE No. 1 OF 13

LOGGED BY M.P. Phillips

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
0 -	46.0																			Casing 0.0 - 46.0 ft
46 -	48.0	2.0	2.0	2932	.06	.002														MIXED QTZ DIORITE
48.0	76.0	28.0	0	—																
76.0 ✓	90.0 ✓	14.0 ✓	9.6 ✓	2933 ✓	.155	.012	.15	.001	½%	S	W	W	W/M	W	W	W				76.0 LEACHED ZONE - MIXED QTZ DIORITE Grey quartz with scattered up to 3m clots of chloritized ? secondary fine biotite. Py silver grey pyrite, rare thin qtz ac. Rare stringer pyrite. Biotite along fractures. Very minor alt. plagioclase may be sericitized biotite. - Yellowish jarosite weakly developed along fracture
90.0 ✓	105.0 ✓	15.0 ✓	7.0 ✓	2934 ✓	.135	.019	.2	.01	½%	S	W	W	W/M	W	W	W				103.0 0.5' - qtz and abundant yellow ja alt yellow strongly alt plagioclase with chloritized biotite spo Moly present. Minor gypsum

CASINO SILVER MINES LTD.

DRILL HOLE LOGS.

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P26
DATE COMPLETED _____ PAGE No. 2 OF 13

PROTORE ZONE - MIXED QTZ DIORITE

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
105.0 ✓	120.0 ✓	15.0 ✓	5.5 ✓	2935 ✓	.105	.012	.15	.001	1%	W	W	W	W/M	W	W	M			
120.0 ✓	135.0 ✓	15.0 ✓	7.3 ✓	2936 ✓	.115	.010	.15	.001	1%	S	W	W	M	W	W	M			
135.0 ✓	150.0 ✓	15.0 ✓	11.1 ✓	2937 ✓	.195	.019	.25	.02.	1%	S	W	W	M	W	W	M			
150.0 ✓	165.0 ✓	15.0 ✓	8.3 ✓	2938 ✓	.165	.012	.3	.02	1%	S	W	W	M	W	W	M++			

DESCRIPTION

Carbonate and gypsum now present in fracture. Scarce speckling sometimes present. Molybdenite weakly in gtz. Rare tourmaline

--120.0-- Jarosite and reddish brown staining along fractures becomes more prominent. Biotite less sericitized, larger plates (up to ~ and more abundant

--135.0-- bottom of jarosite and limonite staining.

--140.0-- up to 1ft band ±5ft with pale green abundant altered plagioclase become present. Pale sericitized biotite in these sections

--160.0-- pale green altered plagioclase becomes more common

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. PZ6

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 3 OF 13

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
165.0 ✓	180.0 ✓	15.0 ✓	10.7 ✓	2939	.172	.012	.4	.01	1%	S	W	W	M	W	W	M			
180.0 ✓	195.0 ✓	15.0 ✓	11.4 ✓	2940 ✓	.120	.045	.3	.1	1%	S	W	W	M	W	W	W/M			
195.0 ✓	210.0 ✓	15.0 ✓	10.2 ✓	2941 ✓	.125	.010	.25	.01	½	S	W	M	W	W	W	W/M			
210.0 ✓	225.0 ✓	15.0 ✓	10.7 ✓	2942 ✓	.110	.014	.1	.02	½	S	W	M	W	W	W	M			

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIORITE

Altered plagioclase bands more numerous. Gypsum veining stronger and mineralization better. Molybdenite dissemination slightly better developed.

Albite twinned feldspars surrounded by pale green anhedral altered plagioclase suggests twinned feldspar is microcline present towards bottom. Chl appears to be better developed on weakly pyritic fractures and also in gypsum veinlets

Grey, fine - medium grained hypidiomorphic granular qtz and microcline twinned feldspar with moderate disseminated chloritized biotite. pale green and pink sometimes present

Pyrite and epy mainly along cracks and hairlike fractures.

Narrow gypsum filled fractures weak slickensiding along fractures

200.0 - biotite lessens and completely sericitized leaving a scattered black speckling

210 - Gypsum veining increases

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P26

DATE COMPLETED _____ PAGE No. 4 OF 13

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
225.0 ✓	240.0 ✓	15.0 ✓	5.2 ✓	2943 ✓	.20	.012	.25	.02	½	S	W	M	W	W	W	M			
240.0 ✓	255.0 ✓	15.0 ✓	10.4 ✓	2944 ✓	.160	.017	.25	.02	½	S	W	M	W	W	W	M			
255.0 ✓	270.0 ✓	15 ✓	18. ✓	2945 ✓	.160	.017	.35	.02	1%	S	W	W	W	W	W	M			
270.0 ✓	285.0 ✓	15.0 ✓	13.4 ✓	2946 ✓	.140	.005	.35	.03	1%	S	W	W	W	W	W	M			

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIO

--264.0--

Intensity of gypsum veining decreases. More competent

Altered plagioclase bands, .5 ft, occasionally present. Tourmal occ present

Strong fracturing and slickensiding p to core axis

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. D26
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SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				PRATDRE ZONE - MIXED QTZ DIORITE
285.0 ✓	300.0 ✓	15.0 ✓	14.3 ✓	3947 ✓	.165	.017	.35	.05	1%	S	W	W	W	W	W	M				Irregular plagioclase rich bands up to 2" wide - generally poorly mineralized that qtz rich rock Spy in fine blebby strong disseminated fractures
300.0 ✓	315.0 ✓	15.0 ✓	4.3 ✓	3948 ✓	.280	.017	.4	.02	1%	S	W	W	W	W	W	M				313.0 Black biotite, look, 2mm, become more common.
315.0 ✓	330.0 ✓	15.0 ✓	15.0 ✓	3949 ✓	.180	.012	.4	.03	1%	S	W	W	M	W	W	M				330.0 Biotite increasing generalized to pa green and tourmaline more commo Pinkish bleached k-spar 5-15
330.0 ✓	345.0 ✓	15.0 ✓	15.0 ✓	3950 ✓	.175	.012	.35	.03	1%	S	W	W	W	W	W	M				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P26

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SAMPLE AND ASSAY DATA

FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%
345.0 ✓	360.0 ✓	15.0 ✓	15.0 ✓	3959 ✓	.150	.012	.3	.03	1%
360.0 ✓	375.0 ✓	15.0 ✓	15.0 ✓	3960 ✓	.155	.017	.25	.02	1%
375.0 ✓	390.0 ✓	15.0 ✓	15.0 ✓	3961 ✓	.185	.007	.25	.02	1%
390.0 ✓	405.0 ✓	15.0 ✓	15.0 ✓	3962 ✓	.265	.021	.25	.02	1%

ALTERATION

SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
S	W	M	W	W	W	M			
S	W	M	W	W	W	M			
S	W	M	W	W	W	M			
S	W	M	W	W	W	M			

DESCRIPTION

PROTORE ZONE - MIXED QTZ. DMP

Altered plagioclase bands increase in number with generally poorer P/S & cpy mineralization

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P26
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SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
405.0 ✓	420.0 ✓	15.0 ✓	15.0 ✓	3963 ✓	.185	.021	.35	.03	½%	S	W	M	W	W	W	M			
420.0 ✓	435.0 ✓	15.0 ✓	14.0 ✓	3964 ✓	.155	.026	.4	.03	½%	S	W	M	W	W	W	M			
435.0 ✓	450.0 ✓	15.0 ✓	15.0 ✓	3965 ✓	.160	.024	.45	.05	½%	S	W	M	W	W	W	M			
450.0 ✓	465.0 ✓	15.0 ✓	15.0 ✓	3966 ✓	.120	.010	.35	.03	½%	S	W	M	W	W	W	M			

DESCRIPTION
PROTORE ZONE - MIXED QTZ DIOR

Copy related to competency of rock with greater quartz.
Good hard rock fractures well

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P26

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SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
465.0 ✓	480.0 ✓	15.0 ✓	15.0 ✓	3967 ✓	.090	.005	.35	.03	½	M	W	W	W	W	W	M			
480.0 ✓	495.0 ✓	15.0 ✓	15.0 ✓	3968 ✓	.135	.021	.35	.03	½	M	W	W	W	W	W	W/M			
495.0 ✓	510.0 ✓	15.0 ✓	15.0 ✓	3969 ✓	0.145	.007	.4	.03	½	M	W	W	W	W	W	W/M			
510.0 ✓	525.0 ✓	15.0 ✓	15.0 ✓	3970 ✓	.215	.014	.4	.03	½	M	W	W	W	W	W	W/M			

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIOR

-467.5 - Veinlet of magnetite

Med-coarse grained. even textured - medium Grey, medium grained, pale green aphanitic quartz-sericite matrix with sericite biotite remnants. Occ in slightly less altered irregular bands flakes up to 2mm of black biotite wk disseminated pyrite, occasional Gyps and calcite common along fractures Slickensides along fractures parallel to core axis common.

Quartz rich -60-70° - Alternating irregular band fresh biotitic and weak-mod. altered sericitic biotite.

Tourmaline only rarely present in better altered rock.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P26
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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			PROTORE ZONE - MIXED QTZ DIORI
525.0	540.0	15.0	15.0	3971	.155	.007	.15	.03	½°	M	W	W	W	W	W	W/M			
540.0	555.0	15.0	15.0	3972	.110	.005	.15	.03	½°	M	W	W	W	W	W	W/M			
555.0 ✓	570.0 ✓	15.0 ✓	14.7 ✓	3973 ✓	.150	.019	.15	.03	½%	M	W	W	W	W	W	M			- 560.0 - alteration improves slightly Chalcopyrite sometimes occurs as microscopic blebs
570.0 ✓	585.0 ✓	15.0 ✓	15.0 ✓	3974 ✓	.155	.005	.2	.03	½%	M	W	W	W	W	W	M.			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
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CORE SIZE _____ LENGTH _____

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SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		PROTORE ZONE - MIXED QTZ DIOR
585.0	595.0						.15	.03	½	++	+	+	+	+	+	+ ++	-	Pale-med green altered plagioclase
						←								no ore up 15 ft.				
585.0	600.0	15.0	15.0	3975	.265	.005	.2	.03	½	M	W	W	W	W	W	W/M		
600.0 ✓	615.0 ✓	15.0 ✓	15.0 ✓	3976 ✓	.175	.005	.25	.03	½	M	W	W	W	W	W	W/M		--608.0 Bleached, mod-strong alt. Coarse --610.0 cpy
615.0 ✓	630.0 ✓	15.0 ✓	15.0 ✓	3977 ✓	.115	.005	.1	.03	½	M	W	W	W	W	W	W/M		

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P26

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			PROTORE ZONE - MIXED QTZ DIOR
630.0	645.0	15.0	15.0	3978	.215	.012	.15	.03	½%	W	W	M	W	W	W	S			~~FELDSPAR PORPHYRY~~ Scattered up to 5mm alt. f. & up to 1mm qtz phenocs. in a med green aphanitic qtz-ser matrix 630.5 631.3 635.0 Deficient in silica and strong sericitic alteration combined with strong fracturing results in incompetent rock. Pyrite often stringer, cubic. Biotite bands common.
645.0 ✓	660.0 ✓	15.0 ✓	15.0 ✓	3979 ✓	.095	.019	.2	.03	½%	W	W	M	W	W	W	S			
660.0	675.0	15.0	11.6	3980	.115	.002	.1	.03	½%	W	W	S	W	W	W	M			658.0 Polygonal, coarse grained, mod alt. mixed biotite. Strong fracture alteration may be result of strong shearing along fractures 771.0 Greenish grey, aphanitic qtz-ser groundmass with sericitized biotite and less alt bands with twinned plag and occ med grained flakes of biotite
675.0	690.0	15.0	15.0	3981	.145	.012	.1	.03	½	W	W	S	W	W	W	M			670.0 Strong white alt plagioclase (635-658) and well fractured with slickenside and gouge 688.0 gradational see next page

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P-26
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PROTORE ZONE - MIXED QTZ DIOR

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
690.0	705.0	15.0 ✓	13.4 ✓	3982 ✓	.085	.015	.1	.03	½%	M	W	W	W	W	W	W/M				Grey, med-coarse grnd (w 3-4mm med- dark green aphanitic qtz-se matrix and qtz with weak-mod alt plagioclase. Sericitized and fresh biotite weakly disseminated throughout,
																				696 1ft mud 697 700.0
																				Pass, up to 3mm. black biotite becomes more common and weaker alt'd
705.0	720.0	15.0 ✓	13.0 ✓	3983 ✓	.105	.002	.1	.03	½	M	W	W	W	W	W	W				
720.0	735.0	15.0 ✓	13.9 ✓	3984 ✓	.105	.010	.1	.03	½	M	W	W	W	W	W	W				
735.0	750.0	15.0 ✓	15.0 ✓	3985 ✓	.115	.010	.1	.03	½	M	W	W	W	W	W	W				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P26

DATE COMPLETED _____ PAGE No. 13 OF 13

PROTORE ZONE - MIXED QTZ DI

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
750.0	757.0	7.0	7.0	3986	.155	.013	.1	.03	½	M	W	W	W	W	W	W			— 757.0 End of hole. - Hole stopped due to caving conditions.
								ASSAY		DATA									
76.0	757.0	681.0			.152	.013													

Core Recovery $\frac{592.8}{711.0} = 83\%$

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA East Patton Hill
DIP -
CORE SIZE NQ 0-428.0 ft
BQ 428.0-891.0

NORTHING 23,836,716.2
LATITUDE
EASTING
DEPARTURE 366,794.6
ELEV
LENGTH 3808.4

DIP -90°
LENGTH 891.0 ft

DATE COLLARED Nov 25/69 HOLE No. P27
DATE COMPLETED DEC. 10/69 PAGE No. 1 OF 14

LOGGED BY - M.R. Phillips

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
0	72.0																		
72.0	75.0	3.0	1.7	2079	.040	.004	.25	.01	1										
75.0	90.0	15.0 ✓	3.5 ✓	2080 ✓	.105	.002	.25	.01	1-2%	W	W	W	W	W	W	M/S			
90.0	105.0	15.0 ✓	12.6 ✓	2081	.070	.002	.1	.01	3-4%	W	W	W	W	W	W	W/M			
							.15	.01	1%	W	W	W	W	W	W	M/S			
105.6	120.0	15.0 ✓	14.1 ✓	2082	.195	.002	.1	.01	2%	W	W	W	W	W	W	W/M			

DESCRIPTION

Casing - 0.0-72.0 ft

72.0 — PROTORE ZONE - MIXED QTZ DIO

Cream yellow, fine grained (0.5-1 mm) hypidiomorphic granular quartz, anhedral-occ sub-euhedral altered plagioclase, pale green-chalky and fresh unaltered k-spar. Qtz - 50%, Altered plagioclase 40-50%, 0-10% k-spar. Diss fine apy, py with film of cc. Tourmaline diss common. Occ brown limonite along py. fractures.

82.0 — contact ground

Weakly altered

83.5 — strong alt. chalky plagioclase in partings

89.5 — contact ground

As: 72.0 - 83 ft

90.0 — contact ground

Pinkish-grey fine-medium (up to 3mm, av 1mm) hypidiomorphic-granular qtz, pale green alt plagioclase, and 10-20% altered twinned k-spar and moderate black biotite. Occ bands (xenoliths) with abundant biotite fine grained < 0.5 mm. Often bands and inclusions up to 0.2 ft at 45° to core axis. Diss apy and py, wisp py cracks and fracs.

102.5 — contact ground

Altered Granodiorite - equigranular & seams with hematite

105.5 — 30° to core axis - sharp contact - v.c. magnetite.

As above - carbonate common along fractures. Slightly coarse grain, biotite more abundant. 20-40% Magnetite stringers sometimes present.

CASSIO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P27
DATE COMPLETED _____ PAGE No. 2 OF 14

SAMPLE AND ASSAY DATA

FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%
120.0	135.0	15.0	14.5	2083	.195	.002	.1	.001	½%
135.0	150.0	15.0	15.0	2084	.080	.002	.1 .2	.001 .001	2% 2%
150.0	165.0	15.0 ✓	15.0 ✓	2085 ✓	.120	.002	.1	.001	2-3%
165.0	180	15.0 ✓	15.0 ✓	2086 ✓	.110	.002	.1	.001	3%

ALTERATION

SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
W	W	W	W	W	W	W/M			
W	W	W	W	W	W	O/W			
W	W	W	W	W	W	O/W			
W	W	W	W	W	W	O/W			

DESCRIPTION

PROTORE - MIXED QTZ DIORITE

...along fractures plagioclase dark green with pale green alt plagioclase in groundmass of rock.

127.5' Contact lost

narrow bands of altered rock veinlets of magnetite, wk pyrite

131.5' contact ground

Biotite often dark-medium greenish color probably high in chlorite.

133.0 Altered

133.5

142.0 Rock becomes fresher - more twinned K-spars and plag. clase. Occasional coarse cpy. in fracture sometimes associated with calcite contact fractures. Pyrite fractures more common and very coarse.

Rock is generally highly siliceous 40-70% qtz. Biotite up to 50

Rock color - black sprekled - dar grey.

170.0 - biotite near and along pyrite stringers med green - chlorite

Biotite pseudomorphic after hornblende in appearance.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P27
DATE COMPLETED _____ PAGE No. 3 OF 14

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC	Fine biotite		
180.0	195.0	15.0 ✓	15.0 ✓	2087 ✓	.080	.002	.1	.001	3	W	W	W	W	W	W	%W			PROTORE ZONE - MIXED QTZ. DIORITE
195.0	210.0	15.0 ✓	15.0 ✓	2088 ✓	.155	.002	.1	.001	3	W	W	W	W	W	W	%W			
210.0	225.0	15.0 ✓	15.0 ✓	2089 ✓	.090	.002	.1	.001	3	W	W	W	W	W	W	W			216.0 - Argillic alteration increases 217.5 - as previous w Weak argillic alteration - pale green soft vesicinous plagioclase.
225.0	240.0	15.0 ✓	11.0 ✓	2090 ✓	.085	.004	.1	.001	1	W	W	W	W	W	S	S	+		226.0 - Mud seam = fault? 228.0 - Grey quartz-sericite pyrite alteration with calcite veinlets 234.5 - gradational - - - -
										W	W	W	W	W	W	W	+		Weak argillic alteration of plag closes

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P27
DATE COMPLETED _____ PAGE No. 4 OF 14

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
240.0	255.0	15.0 ✓	14.6 ✓	2091 ✓	.075	.004	.1	.001	2	W	W	W	W+	W+	W+	W+		PROTORE ZONE – MIXED QTZ DIORITE
										W	W	W	W	W	W	O/W		-248.0- Biotite becomes coarser - av 2mm and slightly less in amount. In part: qtz diorite almost bla due to large amounts of biotit Stockwork (0.1 - 0.5 ft interval) frac wires with weak-strong coarse- grained pyrite. Very minor chalcopyr
255.0	270.0	15.0 ✓	10.1 ✓	2092 ✓	.055	.010	.1	.001	.2	W	W	W	W	W	W	O/W		
270.0	285.0	15.0 ✓	15.0 ✓	2093 ✓	.040	.002	.1	.001	2	W	W	W	W	W	W	O/W		280.5 - 0.1 ft pyritic seam with 0.5 ft qtz-ser-py envelope
285.0	300.0	15.0 ✓	15.0 ✓	2094	.065	.002	.1	.001	3	W	W	W	W	W	W	O/W		

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 27
DATE COMPLETED _____ PAGE No. 5 OF 14

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
300.0	315.0	15.0 ✓	15.0 ✓	2095 ✓	.075	.002	.1	.001	3% - 4%	W	W	W	W	W	W	O/W			
315.0	330.0	15.0 ✓	13.6 ✓	2096 ✓	.075	.002	.1	.001	3	W	W	W	W	W	W	O/W			
330.0	345.0	15.0 ✓	12.1 ✓	2097 ✓	.215	.003	.1	.001	3	W	W	W	W	W	W	O/W			
345.0	360.0	15.0	15.0	2098	.060	.003	.1	.001	3	W	W	W	W	W	W	O/W			

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIORITE

Dark colored, medium grained, hypidiomorphic granular, qtz, fresh-weakly altered (pale) twinned plagioclase and abundant 30-50% chloritized fine grained shredded biotite (secondary). Fractures with coarse pyrite and filling common. Calcite common along hairlike fractures

-343.0-
Highly chloritic and gouge - Fault

-350.0-

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P27

DATE COMPLETED _____ PAGE No. 6 OF 14

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
360.0	375.0	15.0	11.8	2099	.060	.003	.1	.001	3	W	W	W	W	W	W	O/W				PROTORE ZONE – MIXED QTZ DIORITE
375.0	390.0	15.0	13.5	2100	.170	.003	.1	.001	3	W	W	W	W	W	W	O/W				
390.0	405.0	15.0	14.5	2107	.055	.003	.15	.001	1%	W	W	W	W	W	W	M				388.5 – ~90° – sharp contact – Grey white, fine grained, allotriomorphic granular qtz, white mod. soft alt. plagioclase and occ. sericitized ; weak stockwork of grey alte envelope, sericitization and hair pyrite stringers
405.0	420.0	15.0	14.6	2108	.075	.003	.1 .1	.001	3% 1% -2%	W	W	W	W	W	W	M W				413.0 – contact sharp ~90° Black, very fine grained – as prev. to 388.5 416.5 – Grey, hard qtz alt. plagioclase, minor k-spar – Appears to be q-s alte w/ less alt. 388.5 – 413.0

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P27
DATE COMPLETED _____ PAGE No. 7 OF 14

SAMPLE AND ASSAY DATA

FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%
420.0	435.0	15.0	12.5	2109	.110	.005	.1	.002	1%
435.0	450.0	15.0	15.0	2110	.120	.003	.1	.002	1%
450.0	465.0	15.0	13.1	2111	.105	.005	.1	.002	1%
465.0	480.0	15.0	10.7	2112	.195	.013	.1	.002	1%

ALTERATION

FROM	TO	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC
420.0	435.0	W	W	W	W	W	W	W
		W	W	W	W	W	W	W/M
435.0	450.0	W	W	W	W	W	W	W/M
450.0	465.0	W	W	W	W	W	W	W/M
465.0	480.0	W	W	W	W	W	W	W/M

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIORITE

-422.0-

Alternating light-dass bio and dark fine grained abundant biotite

-431.0-

Speckled

Med. grained grey black biotite speckled hypidiomorphic granular qtz weakly altered white pale green plagioclase and fresh tetrahedral k. (?) common. Chloritized biotite (?) common. Occ. hairline pyritic stringers. Gypsum occas present along fractures

-465.0-

Plagioclase better altered - pale green and sericitized biotite. Occ narrow fresh-weakly altered bands

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P27
DATE COMPLETED _____ PAGE No. 3 OF 14

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
480.0	495.0	15.0	15.0	2113	.200	.003	.1	.001	1%	W	W	W	W	W	W	W/M			PROTORE ZONE - MIXED QTZ DIOR
																			--493.0---
495.0	510.0	15.0	15.0	2114	.115	.010	.1	.001	2%	W	W	W	W	W	W	W			Dark colored, fine-med (2mm) grain hypidiomorphic granular gtz-pale green weakly altered plag-feldspar (? original bleached=pale pink K-spar (primary?) and disseminated zinc fresh biotite (primary) and bleached biotite. Occ. light colored, porphyritic plag weak diss. biotite, bleached altered bands and hard, fine grain K-spar (?) narrow bands, pale green plag also present to 510.0 ft
510.0	525.0	15.0	14.5	2115	.185	.005	.1	.001	2	W	W	W	W	W	W	O/W			--518.0 - becomes weaker altered
525.0	540.0	15.0	15.0	2116	.140	.003	.1	.001	2	W	W	W	W	W	W	O/W			

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P27

DATE COMPLETED _____ PAGE No. 9 OF 14

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
540.0	555.0	15.0	15.0	2117	.140	.003	.1	.001	2	W	W	W	W	W	W	%W			
555.0	570.0	15.0	15.0	2118	.280	.003	.1	.001	2	W	W	W	W	W	W	%W			
570.0	585.0	15.0	14.1	2119	.165	.003	.1	.001	2	W	W	W	W	W	W	%W			
585.0	600.0	15.0	12.8	2120	.155	.005	.1	.001	2	W	W	W	W	W	W	W			
										W	W	W	W	W	W	%W			

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIORI

-568.0- Coarser grained.

-569.0

-584.5- Waxy, weathered white resinous plagioclase. Fine grained.

-591.5-

-596.0- As 584.5 - 591.0 - Harder more K-spar (?)

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P27
DATE COMPLETED _____ PAGE No. 10 OF 14

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
600.0	615.0	15.0	14.8	2121	.065	.005	.1	.001	2	W	W	W	W	W	W	%W		
615.0	630.0	15.0	13.6	2122	.055	.005	.1	.001	2	W	W	W	W	W	W	%W		
630.0	645.0	15.0	15.0	2123	.130	.005	.1	.001	2	W	W	W	W	W	W	%W		
645.0	660.0	15.0	15.0	2124	.145	.003	.1	.001	2	W	W	W	W	W	W	%W		

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIO

-603.0-

Fine grained Black/strong biotite separate b coarse bands

-614.0-

-632.0- Coarse grained

-635.0-

-639.0- Coarse grained

-641.0-

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P 28

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 11 OF 14

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
660.0	675.0	15.0	14.8	2125	.155	.005	.1	.001	2	W	W	W	W	W	W	P/W		PROTORE ZONE - MIXED QTZ DIORITE
675.0	690.0	15.0	15.0	2215	.130	.020	.1	.001	2	W	W	W	W	W	W	P/W		
690.0	705.0	15.0	14.4	2216	.120	.005	.1	.001	2	W	W	W	W	W	W	P/W		
705.0	720.0	15.0	15.0	2217	.210	.020	.1	.001	2	W	W	W	W	W	W	P/W		

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P28
DATE COMPLETED _____ PAGE No. 12 of 14

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
720.0	735.0	15.0	15.0	2218	.150	.010	.1	.001	2	W	W	W	W	W	W	o/w			PROTORE ZONE - MIXED QTZ DIORITE
735.0	750.0	15.0	15.0	2219	.190	.005	.1	.001	2	W	W	W	W	W	W	o/w			
750.0	765.0	15.0	15.0	2220	.305	.626	.1	.001	2	W	W	W	W	W	W	o/w			
765.0	780.0	15.0	15.0	2221	.230	.010	.1	.001	2	W	W	W	W	W	W	o/w			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P27

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 13 OF 14

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
780.0	795.0	15.0	15.0	2222	.170	.020	.1	.001	2	W	W	W	W	W	W	%W				PROTORE ZONE - MIXED QTZ DIORITE
795.0	810.0	15.0	13.8	2223	.190	.010	.1	.001	2	W	W	W	W	W	W	%W				
810.0	825.0	15.0	15.0	2224	.130	.010	.1	.001	2	W	W	W	W	W	W	%W				
825.0	840.0	15.0	14.0	2225	.200	.010	.1	.001	2	W	W	W	W	W	W	%W				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P27

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 14 OF 14

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
840.0	855.0	15.0	14.6	2251	.225	.005	.1	.001	2	W	W	W	W	W	W	%W				PROTORE ZONE - MIXED QTZ DIORITE
855.0	870	15.0	15.0	2252	.120	.020	.1	.001	2	W	W	W	W	W	W	%W				
870.0	885	15.0	15.0	2253	.120	.005	.1	.001	2	W	W	W	W	W	W	%W				
885	891.0	6.0	5.6	2254	.135	.005	.1	.001	2	W	W	W	W	W	W	%W				891.0 End of hole
										ASSAY DATA										
72.0	645.0	573.0			.117	.003														
645.0	891.0	246.0			.172	0168														
72.0	891.0	819.0			.134	.005														

Core Recovery 765.5 / 819.0 = 93.5

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Patton Hill
DIP -90°
CORE SIZE NQ-0.0-577.0

NORTHING
LATITUDE 22,836,143.4
EASTING
DEPARTURE 367,343.1
LENGTH 577.0 ft

DATE COLLARED Dec 5/69 HOLE No. P 28
DATE COMPLETED Dec 11/69 PAGE No. 1 OF 9

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
																				Casing 0-62.0 ft.
																				62.0 ENRICHED ZONE - MIXED QTZ DIOR
62.0	75.0	13.0 ✓	3.0 ✓	2176 ✓	.310	.003	.1	.002	1%	W	W	W	W	W	W	M				68.0 Greywhite, fine grained ± ill. to aphi granular, qtz and pale green plagioc and fine med grained (2mm) quartz anhedral interstitial to plagioclase with sericitized biotit the fine grained appears to be ark equivalent to f-med grained vari Diss pyrite, very minor chalcopy.
75.0	90.0	15.0 ✓	5.7 ✓	2177 ✓	.125	.003	.1	.002	1%	W	W	W	W	W	W	M				83.0 bottom of strong limonite PROTORE ZONE - MIXED QTZ DIOR
90.0	105.0	15.0 ✓	4.5 ✓	2178 ✓	.060	.003	.1	.002	1%	W	W	W	W	W	W	M				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 28
DATE COMPLETED _____ PAGE No. 2 OF 9

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
105.0	120.0	15.0 ✓	3.8 ✓	2179 ✓	.070	.003	.1	.002	1	W	W	W	W	W	W	M			PROTORE ZONE - MIXED QTZ DIORITE
120.0	135.0	15.0 ✓	3.2 ✓	2180 ✓	.040	.003	.1	.002	1	W	W	W	W	W	W	M			
135.0	150.0	15.0 ✓	9.0 ✓	2181 ✓	.055	.003	1	.002	1	W	W	W	W	W	W	M			--139.0-- Fine grained grey even textured gravel become infrequent.
150.0	165.0	15.0 ✓	-8.6 ✓	2182 ✓	.075	.005	.1	.002	1	W	W	W	W	W	W	M			--159.0--- Fine grained granular - well altered becomes common.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P28
DATE COMPLETED _____ PAGE No. 3 OF 9

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
165.0	180.0	15.0 ✓	10.5 ✓	2183 ✓	.060	.003	.1	.002	1	W	W	W	W	W	W	M			PROTORE ZONE - MIXED QTZ DIORITE
180.0	195.0	15.0 ✓	9.2 ✓	2184 ✓	.080	.003	.1	.002	1	W	W	W	W	W	W	M			180.0 - Fine grained sericitized biotite - originally Qtz Diorite?
195.0	210.0	15.0 ✓	11.0 ✓	2185 ✓	.090	.005	.1	.002	1	W	W	W	W	W	W	M			200.0
210.0	225.0	15.0 ✓	9.8 ✓	2186 ✓	.075	.003	.1	.002	1	W	W	W	W	W	W	M			202.0 Feldspar Porphyry. 203.5 hypid-gran. Yellowish grey, medium grained (1-2 mm) qtz and pale green-yellowish resinous plagioclase with grey [illegible] and allotriomorphic granular [illegible] around pyrite stringers also present. Sericitized biotite present in moderate Post mineral fractures with [illegible] also present

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P28
DATE COMPLETED _____ PAGE No. 1 OF 9

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
225.0	240.0	15.0 ✓	15.0 ✓	2187 ✓	.055	.005	.1	.002	1	W	W	W	W	W	W	M			PROTORE ZONE - MIXED QTZ DIORITE
240.0	255.0	15.0 ✓	14.7 ✓	2188 ✓	.335	.005	.1	.002	1	W	W	W	W	W	W	M			
255.0	270.0	15.0 ✓	14.0 ✓	2189 ✓	.040	.005	.1	.002	1	W	W	W	W	W	W	M			
270.0	285.0	15.0 ✓	15.0 ✓	2190 ✓	.030	.003	.1	.002	1	W	W	W	W	W	W	M			-273.0 — Sericitized biotite becomes more common -282.0 — occ. chloritized biotite with rims of sericitized biotite

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P28
DATE COMPLETED _____ PAGE No. 5 of 9

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
																			PROTORE ZONE - MIXED QTZ DIORITE
285.0	300.0	15.0 ✓	15.0 ✓	2191 ✓	.030	.003	.1	.002	1	W	W	W	W	W	W	M			
																			299.0
300.0	315.0	15.0 ✓	15.0 ✓	2192 ✓	.040	.003	.1	.002	1	W	W	W	W	W	W	M			Dark green, fine grained diorite rock but ground altered plagioclase with strong foliation parallel to core axis. Moderate-strongly calcareous
315.0	330.0	15.0 ✓	15.0 ✓	2193 ✓	.040	.005	.1	.002	1	W	W	W	W	W	W	M			317.0 Bleached - minor biotite with lilac pink altered plagioclase and inclusions of chl. biotite altering 319.5 Foliation developed in rock is a dark green aphanitic plagioclase - rich abundant chloritized biotite. Occ narrow lighter color bands altered envelopes. Pyrite stringers occ present. Calcareous fractures and open present
330.0	345.0	15.0 ✓	15.0 ✓	2194 ✓	.030	.003	.1	.002	1	W	W	W	W	W	W	M			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P28
DATE COMPLETED _____ PAGE No. 6 OF 9

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
345.0	360.0	15.0 ✓	15.0 ✓	2195 ✓	.030	.003	.1	.002	1	W	W	W	W	W	W	M			PROTORE ZONE - MIXED QTZ DIORITE 348.0 Grey bitt altered as below 349.0 352.0 Grey bitt altered) as below
360.0	375.0	15.0 ✓	15.0 ✓	2196 ✓	.025	.003	.1	.002	1	W	W	W	W	W	W	M			355 Grey, fine grained abundant sericite - after biotite white resinous altered plagioclase
375.0	390.0	15.0 ✓	15.0 ✓	2197 ✓	.030	.003	.1	.002	1	W	W	W	W	W	W	M			371.5 irregular Alternating bands of weakly altered pale grey plagioclase and white resinous plagioclase
390.0	405.0	15.0 ✓	15.0 ✓	2198 ✓	.020	.003	.1	.002	1	W	W	W	W	W	W	S			392.0 White-yellowish grey, hypidiomorph granular qtz resinous-chalky plagioclase with weak weak stockwork of fine qtz-ser-ass. start of hole occ. sericitized biotite

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P28
DATE COMPLETED _____ PAGE No. 7 of 9

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
																			PROTORE ZONE - MIXED QTZ DIORITE
																			410.0 and older fractures along clay-filled fractures at ∠ strongly cleaved/sheared parallel to core axis with horizontal slickenside
405.0	420.0	15.0 ✓	15.0 ✓	2199 ✓	.025	.003	.1	.002	1	W	W	W	W	W	W	S			
420.0	435.0	15.0 ✓	14.5 ✓	2200 ✓	.030	.003	.1	.002	1	W	W	W	W	W	W	S			
435.0	450.0	15.0 ✓	15.0 ✓	2201 ✓	.025	.005	.1	.002	1	W	W	W	W	W	W	S			
450.0	465.0	15.0 ✓	14.8 ✓	2202 ✓	.025	.005	.1	.002	1	W	W	W	W	W	W	S			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 22
DATE COMPLETED _____ PAGE No. 8 OF 9

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
465.0 ✓	480.0 ✓	15.0 ✓	15.0 ✓	2203 ✓	.025	.003	.1	.002	1-2	W	W	W	W	W	W	S				PROTORE ZONE - MIXED QTZ DIORITE
480.0 ✓	495.0 ✓	15.0 ✓	13.9 ✓	2204 ✓	.015	.003	.1	.002	1-2	W	W	W	W	W	W	S				
495.0 ✓	510.0 ✓	15.0 ✓	14.4 ✓	2205 ✓	.010	.003	.1	.002	1-2	W	W	W	W	W	W	S				
510.0 ✓	525.0 ✓	15.0 ✓	15.0 ✓	2206 ✓	.015	.005	.1	.002	1-2	W	W	W	W	W	W	S				

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P28

DATE COMPLETED _____ PAGE No. 9 of 9

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
525.0	540.0	15.0 ✓	15.0 ✓	2207 ✓	.015	.003	.1	.002	1-2	w	w	w	w	w	w	s			
540.0	555.0	15.0 ✓	15.0 ✓	2208 ✓	.030	.003	.1	.002	1	w	w	w	w	w	w	f/w			
555.0	570.0	15.0 ✓	15.0 ✓	2209 ✓	.035	.003	.1	.002	1	w	w	w	w	w	w	f/w			
570.0	577.0	7.0	7.0	2210	.025	.003	1	.002	1	w	w	w	w	w	w	f/w			
62.0	90.0	28.0			.217	.003			ASSAY DATA										
90.0	577.0	487.0			.048	.003													

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIORITE

542.0 — F — — — — — — — —

Grey, medium grained hypomorphic granular weakly-moderately altered fresh-white resinous altered plagioclase with mode abundant chloritized 6.0

549.0 — bottom of highly cleaved

562.0 — — —

Dark fine grained weakly altered abundant chl biotite

567.0 — Altered with sericitized biotite

573 Mod qtz weak-mod altered

577.0 — End of hole

Core Recovery 426.6 / 515.0 = 82.8

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Patton Hill
DIP -90°
CORE SIZE —

NORTHING
~~LATITUDE~~ 22,835,859.1
EASTING
~~DEPARTURE~~ 366,482.3
LENGTH 3734.7

DATE COLLARED Dec 3/69 HOLE No. P29
DATE COMPLETED JAN 6/69 PAGE No. 1 OF —
LENGTH — 857.0 ft Core Size NQ-0.0-85

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
																		Casing 0-54ft
54.0	65.0	11.0 ✓	2.0 ✓	2126 ✓	.125	.003	.2	.002	—	W	W	W	W	W	W	M		54.0 ENRICHED ZONE — MIXED QTZ DIOR Grey fine grained, minor qtz, mod altered plagioclase, chalky and pink green with chalk rims and abundant lath like biotite.
65.0	80.0	15.0 ✓	2.3 ✓	2127 ✓	.145	.003	.2	.002	—	W	W	W	W	W	W	M		
80.0	95.0	15.0 ✓	7.5 ✓	2128 ✓	.195	.003	.25	.002	1	W	W	W	W	W	W	M		-89.0 Limonitic pyrite present.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P29
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SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
95.0 ✓	110.0 ✓	15.0 ✓	7.0 ✓	2129 ✓	.085	.003	.25	.002	1	W	W	W	W	W	W	M				ENRICHED ZONE - MIXED QTZ DIO
110.0 ✓	125.0 ✓	15.0 ✓	6.5 ✓	2130 ✓	.405	.003	.25	.002	1	W	W	W	W	W	W	M / S				119.5 - strongly altered yellowish chalky plagioclase and bleached sericitized biotite
125.0 ✓	140.0 ✓	15.0 ✓	11.3 ✓	2131 ✓	.095	.003	.1	.002	1	W	W	W	W	W	M	S				128.0 PROTORE ZONE - MIXED QTZ D Slight increase in grain size - chan in rock type. ? Stockwork of granular grey qtz-sericite alteratio around fine pyrite stringers
140 0 ✓	155.0 ✓	15.0 ✓	8.8 ✓	2132 ✓	.065	.003	.1	.002	1	W	W	W	W	W	M	S				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P-9
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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
155.0	170.0	15.0 ✓	6.0 ✓	2133 ✓	.070	.003	.1	.002	1	W	W	W	W	W	M	A			PROTORE ZONE - MIXED QTZ DIORITE
170.0	185.0	15.0 ✓	6.2 ✓	2134 ✓	.060	.003	.1	.002	2	W	W	W	W	W	I	I			171.0 — Intense qtz-ser alt around hairline pyrite stringers. All trioctahedric ferromagnesian gtz (40%) and white powdery altered plagioclase
185.0 ✓	200.0 ✓	15.0 ✓	14.3 ✓	2135 ✓	.085	.005	.1	.002	2	W	W	W	W	W	I	I			
200.0	215.0	15.0 ✓	15.0 ✓	2136 ✓	.055	.003	.1	.002	1	W	W	W	W	W	M	S			201.6 — Fine-med (2mm) gtz and yellowish white chalky-resinous altered plagioclase and pale green sericitized biotite. Normal 1.5cm gtz-ser (as 171.0 to 201.5 ft) pyrite alteration envelopes around pyrite stringers

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. D 29

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 4 OF _____

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION									
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
215.0	230.0	15.0	14.6	2137	.060	.003	.1	.002	1-2	W	W	W	W	W	W	M			
230.0	245.0	15.0	13.6	2138	.060	.008	.1	.002	1-2	W	W	W	W	W	M	M			
245.0	260.0	15.0	15.0	2139	.065	.003	.1	.002	1-2	W	W	W	W	W	M	M			
260.0	275.0	15.0	15.0	2140	.035	.003	.1	.002	1-2	W	W	W	W	W	W	W			
															M	M			
										W	W	W	W	W	M	M.			

DESCRIPTION

PROTORE ZONE - MIXED QTZ DIO

216.5

Greenish grey, fine grained, med green altered plagioclase and abundant sericit biotite

228.0 — GRANODIORITE ~ 3mm

Yellowish fine - medium (3mm) qtz, yellow and pale green with yel lim plagioclase with sericitized biotite common Mod stockwo qtz-ser-pyrite alteration envelo around pyrite stringers

Plagioclase often euhedral and subhedral and

Qtz Diorite

258.0 — Gray band - dark greenish grey, with disseminate med green and blackish green chloritized and sericitized biot in thin books up to 3mm. Often fresh twinned feldspars (plagioc One upto 1ft fresh band

267.5 — Granodiorite - as 228

258.0 ft.

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P29

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
																			PROTORE ZONE - GRANODIORIT
275.0 ✓	290.0 ✓	15.0 ✓	14.8 ✓	2141 ✓	.080	.003	.1	.002	2%	W	W	W	W	W	M	M			
290.0 ✓	305.0 ✓	15.0 ✓	14.5 ✓	2142 ✓	.035	.003	.05	.002	2.	W	W	W	W	W	M	M			
305.0 ✓	320.0 ✓	15.0 ✓	15.0 ✓	2143 ✓	.035	.003	.05	.002	1	W	W	W	W	W	W	W			307.0 Gradational MIXED QTZ DIORITE Greenish, fine grained hypidiomorphi granular, dark green plagioclase. W altered at top contact gradually weakening alteration to 311 ft wh rock becomes weak-fresh altere Abundant sericitized where well a and dark green chloritic biotite i fresher rocks
320.0 ✓	335.0 ✓	15.0 ✓	14.0 ✓	2144 ✓	040	.003	.1	.002	½	W	W	W	W	W	W	S.			333 alteration increases Gradatio Strong alteration, pale green seric biotite common: Wk stockwork q-s-p 832.0 Granodiorite

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

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SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC		
335.0	350.0	15.0	11.6	2145	.040	.003	.05	.002	½	W	W	W	W	W	M	S		PROTORE - GRANODIORITE
																W		336.0 Gray band
																S		340.0 Strongly altered Wk-mod g-s-p
350.0	365.0	15.0	14.6	2146	.030	.003	.05	.002	½	W	W	W	W	W	M	S		
															W	W		359.0 Gray band
365.0	380.0	15.0	15.0	2147	.030	.003	.05	.002	½	W	W	W	W	W	W	W		365.0 Band with moderate argillic alteration
															M	S		367.0 Strong-mod argillic alteration
380.0	395.0	15.0	14.0	2148	.265	.003	.05	.002	½	W	W	W	W	W	W	W & S		MIXED QTZ DIORITE
																		381.5 Bot chopped Black green fine grained qtz, dark green altered plagioclase with black and medium-light green biotite and altered eq

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
395.0	410.0	15.0 ✓	15.0 ✓	2149 ✓	.045	.003	.05	.002	1	W	W	W	W	W	W	M / W				PROTORE ZONE - MIXED QTZ D 397.5 Dark colored biotite rich wkly moderate alteration to 407.0ft Gypsum occ present along fra 407.0
410.0	425.0	15.0 ✓	15.0 ✓	2150 ✓	.060	.003	.05	.002	1	W	W	W	W	W	W	W				
425.0	440.0	15.0 ✓	15.0 ✓	2151 ✓	.025	.003	05	002	1	W	W	W	W	W	W/M	M				434.0 Alteration increases. Qtz-se more common
440.0	455.0	15.0 ✓	15.0 ✓	2152 ✓	.025	.005			½%	W	W	W	W	W	W/M / W	M / S				448.5 GRANODIORITE As previous - strongly altered. Occ narrow weakly altered bands Weak narrow g-s-b

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. 29
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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K—SPAR	SERICITE	ARGILLIC			
455.0	470.0	15.0 ✓	15.0 ✓	2153 ✓	.040	.003	.05	.002	½	W	W	W	W	W	W	S			PROTORE ZONE - GRANODIORITE Biotite 2-3mm
470.0	485.0	15.0 ✓	10.0 ✓	2154	.030	.003	.05	.002	1	W	W	W	W	W	W	W			472.0 — MIXED QTZ DIORITE Dark green, fine-med (2mm) appears to be finer grained than typical granodiorite, qtz med-dark green plagioclase and fine greenish chloritic biotite. 0.5% pyrite stringers. Becomes fine grained towards bottom and typical diorite text
485.0 ✓	500.0 ✓	15.0 ✓	15.0 ✓	2155	.025	.003	.05	.002	1	W	W	W	W	W	W	W			496.5 strongly altered 498.0 — Gradational GRANODIORITE As previous. Occasional weak-moderately altered band.
500.0	515.0	15.0	13.8	2156	.080	.002	.05	.002	1	W	W	W	W	W	W	S			

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____ DATE COLLARED _____ HOLE No. P29

DIP _____ DEPARTURE _____ DATE COMPLETED _____ PAGE No. 3 OF _____

CORE SIZE _____ LENGTH _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
515.0	530.0	15.0	13.9	2157	.020	.002	.05	.002	1	W	W	W	W	W	W	S				PROTORE ZONE - GRANODIORITE 519.5 - 521.5 Weakly altered
530.0	545.0	15.0	15.0	2158	.025	.002	.05	.002	1	W	W	W	W	W	W	S				538.0 - Bent up to 3 ft stringers cleaved parallel to core axis with horizontal slickenside common
545.0	560.0	15.0	12.7	2159	.030	.002	.05	.002	1	W	W	W	W	W	W	S				
560.0	575.0	15.0	15.0	2166	.050	.002	.05	.002	1	W	W	W	W	W	W	S				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P29
DATE COMPLETED _____ PAGE No. 15 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
575.0	590.0	15.0	15.0	2161	.070	.062	.05	.002	1	W	W	W	W	W	W	S			PROTORE ZONE - GRANODIORITE
590.0	605.0	15.0	14.2	2162	.070	.003	.05	.002	1	W	W	W	W	W	W	S			
605.0	620.0	15.0	15.0	2163	.120	.002	.05	.002	1	W	W	W	W	W	W	M			605.0 - Gradational - - - Abundant black sometimes greenish shredded clots and white resinous plagioclase.
620.0	635.0	15.0	13.6	2164	.070	.002	.05	.002	1	W	W	W	W	W	W	M/W			627.5 - - - Plagioclase generally pale green color imparting dark color to rock and brittle mode but in amount and increasing alteration

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P 29
DATE COMPLETED _____ PAGE No. 11 OF _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
635.0	650.0	15.0	15.0	2165	.165	.003	.05		1	W	W	W	W	W	W	W				PROTORE ZONE - GRANO DIORITE
650.0	665.0	15.0	14.2	2166	.175	.002	.1	.002	½	W	W	W	W	W	W	S				651.5 — Strong argillic alteration - white resinous plagioclase and pale green sericitized biotite. One narrow (1.0 ft) fine grained bands
665.0	680.0	15.0	14.0	2167	.100	.002	.1	.002	½	W	W	W	W	W	W	S				
680.0	695.0	15.0	13.5	2168	.200	.002	.15	.002	½	W	W	W	W	W	W	S				694.5 — MIXED QTZ DIORITE

AREA _____ LATITUDE _____

DIP _____ DEPARTURE _____

CORE SIZE _____ LENGTH _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. D29

DATE COMPLETED _____ PAGE No. 12 OF _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				PROTORE ZONE - MIXED QTZ DIOR
695.0	710.0	15.0	15.0	2169	.090	.007	.1	.002	½	W	W	W	W	W	W	M				Fine grained strong argillic alteration and absence of pale green sericitic biotite. Finer grained may be altered feature. Hypidiomorphic granular, white resinous altered plagioclase. Weak q-s-pyrite alteration.
710.0	725.0	15.0	15.0	2170	.120	.006	.1	.002	½	W	W	W	W	W	W	M				
725.0	740.0	15.0	15.0	2171	.105	.003	.1	.002	½	W	W	W	W	W	W	M				
																				739.0 — Gradational GRANODIORITE
740.0	755.0	15.0	15.0	2172	.180	.005	.1	.002	½	W	W	W	W	W	W	S				Med grey white resinous altered plagioclases gradually become more common. Narrow fine grained bands occas present.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P29
DATE COMPLETED _____ PAGE No. 13 OF _____

SAMPLE AND ASSAY DATA										ALTERATION										DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC				
755.0	770.0	15.0	15.0	2173	.170	.002	.1	.002	½	W	W	W	W	W	W	S				PROTORE ZONE - GRANODIORITE 759.0 - Disseminated chloritic biotite 761.5 - Dark colored, med grained altered fe 763.0 - plagioclase with primary chl bi resinous white Plagioclase to 5mm. with dics c biotite with biotite gradually becoming sericitized 767 - gradational -
770.0	785.0	15.0	14.6	2174	.115	.003	.1	.002	½	W	W	W	W	W	W	S				MIXED QTZ DIORITE Grey white, hypidiomorphic - allotrio granular qtz and white mod soft wh resinous plagioclase. Occ narrow qtz vein with minor molybden
785.0	800.0	15.0	15.0	2175	.115	.002	.1	.002	½	W	W	W	W	W	W	S W				792.0 - - Black green, fine grained. weak med green plagioclase and abundant chloritized biotite. Gypsum along fractures.
800.0	815.0	15.0	14.2	2176	.260	.004	.2	.002	½	W	W	W	W	W	W	W S				804.0 - - Veiloticles BRECCIA 805.0 - Dark green aren altered mainly do very fine grained altered plagioc and minor qtz with bands of fine-med grain white-dark gr alt plagioclase and qtz -

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ LATITUDE _____
DIP _____ DEPARTURE _____
CORE SIZE _____ LENGTH _____

DATE COLLARED _____ HOLE No. P30
DATE COMPLETED _____ PAGE No. 14 OF _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	REC.	SAMPLE NO.	CU%	MoS2%	EST. CU%	EST. MoS2%	EST. FeS2%	SILICIFICATION	QTZ. VEINING	FRACTURING & ∠ CORE AXIS	2nd BIOTITE	K-SPAR	SERICITE	ARGILLIC			
815.0	830.0	15.0	15.0	2212	.235	.002	.2	.002	½	W	W	W	W	W	W	S			PROTORE ZONE - BRECCIA - GRANODIORITE 822.5 – Black green fine grained qtz diorite with veining to 0.2ft ø & bottom altered - Granodiorite 827.0 – Grey very fine grained with occ narrow bands of granodiorite Occ darker more chl. biotite
830.0	845.0	15.0	14.0	2213	.295	.002	.2	.002	½	W	W	W	W	W	W	S			
845.0	857.0	12.0	11.2	2214	.095	.002	.2	.002	½	W	W	W	W	W	W	S			857.0 End of hole
54.0	857.0	803.0			.099	.003			ASSAY DATA										

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA Patton Hill — NORTHING 22,836,706.1 — DATE COLLARED Jan. 7/70 — HOLE No. P 30
DIP -90° — EASTING 367,348.1 — DATE COMPLETED Feb 11/70 — PAGE No. 1 of 10
AZIMUTH — — ELEVATION - 3759.3 — LENGTH 641.0 ft — CORE SIZE 00-6410-NQ

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
63.0	80.0	17.0 ~~15~~	14.0	2719	.043 ✓	.004 ✓	.05	-	Tr	+++		+ 60-85		+					PROTORE ZONE - MIXED QTZ DIORITE w. chlorite
80.0	95.0	15.0	13.0	2720	.045 ✓	.007 ✓	.05	-	Tr	+++		+		+					
95.0	110.0	15.0	12.0	2721	.051 ✓	.002 ✓	.05	-	Tr	+++		+		+					
110.0	125.0	15.0	12.0	2722	.037 ✓	.002 ✓	.05	-	1.0	+++		+		+					

EA _____ NORTHING _____

_____ EASTING _____

MUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. 130

DATE COMPLETED _____ PAGE No. 2 of 10

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
125.0	140.0	15.0	13.0	2723	.043 ✓	TR ✓	0.05	-	2.0	+++		+		+					PROTORE ZONE - MIXED QTZ DIORITE w chlorite
140.0	155.0	15.0	13.0	2724	.050 ✓	TR ✓	0.05	-	2.0	+++		+		+					
155.0	170.0	15.0	11.0	2725	.002 ✓	TR ✓	0.05	-	2.0	+++		+		+					
170.0	185.0	15.0	13.0	2726	.110 ✓	TR ✓	0.05	-	2.0	+++		+		+					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P30

DATE COMPLETED _____ PAGE No. 3 of 10

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
185.0	200.0	15.0	14.0	2277	.038 ✓	TR ✓	.05	–	2.0	++		+		+					PROTORE ZONE - MIXED QTZ DIORITE w chloritic
200.0	215.0	15.0	14.0	2278	.046 ✓	TR ✓	.05	–	2.0	++		+		+					w chloritic
215.0	230.0	15.0	14.0	2279	.030 ✓	TR ✓	.05	–	2.0	++		+		+					w chloritic
230.0	245.0	15.0	14.0	2280	.055 ✓	TR ✓	.05	–	2.0	++		+		+					w chloritic

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P30

DATE COMPLETED _____ PAGE No. 4 of 10

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
245.0	260.0	15.0	14.0	2281	.058 ✓	TR /	.05	-	2.0										PROTORE ZONE - MIXED QTZ DIORITE w. chloritic
260.0	275.0	15.0	14.0	2282	.030 ✓	TR ✓	.05	-	2.0										w. chloritic
275.0	290.0	15.0	14.0	2283	.020 ✓	.003 ✓	.05	-	2.0										w. chloritic
290.0	305.0	15.0	14.0	2284	.030 ✓	TR ✓	.05	-	2.0										w. chloritic

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 30

DATE COMPLETED _____ PAGE No. 5 of 10

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
305.0	320.0	15.0	14.0	2285	.022 ✓	TR ✓	.05	-	2.0	++		+		+					PROTORE ZONE - MIXED QTZ DIORITE v. chloritic
320.0	335.0	15.0	14.0	2286	.029 ✓	TR ✓	.05	-	2.0	++		+		+					
335.0	350.0	15.0	14.0	2287	.025 ✓	TR ✓	.05	-	2.0	++		+		+					
350.0	365.0	15.0	14.0	2288	.025 ✓	TR ✓	.05	-	2.0	++		+		+					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P30

DATE COMPLETED _____ PAGE No. 6 of 10

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
365.0	380.0	15.0	14.0	2288	.020 ✓	.003 ✓	.05	–	2.0	++		+		+					PROTORE ZONE- MIXED QTZ DIORITE w. chlorite
380.0	395.0	15.0	14.0	2290	.032 ✓	TR. ✓	.05	–	2.0	++		+		+					
395.0	410.0	15.0	14.0	2291	.039 ✓	TR ✓	.05	–	2.0	++		+		+					
410.0	425.0	15.0	14.0	2292	.040 ✓	TR ✓	.05	–	2.0	++		+		+					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P30

DATE COMPLETED _____ PAGE No. 7 of 10

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
425.0	440.0	15.0	14.0	2293	.040 ✓	TR ✓	.05	-	2.0	++		+		+					PROTORE ZONE - MIXED QTZ DIORITE contact from granodiorite to qtz-ser. rock fairly sharp at 437-38
440.0	455.0	15.0	14.0 x	2294	.016 ✓	TR ✓	.05	-	2.0	++		+	+++						
455.0	470.0	15.0	15.0	2295	.015 ✓	.003 ✓	.05	-	2.0	+		+	+++						
470.0	485.0	15.0	15.0	2296	.022 ✓	TR ✓	.05	-	2.0	+		+	+++						

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P30
DATE COMPLETED _____ PAGE No. 8 of 10
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
485.0	500.0	15.0	15.0	2297	.010 ✓	TR. ✓	.05	-	2.0			+	+++						PROTORE ZONE - MIXED QTZ DIORITE
500.0	515.0	15.0	15.0	2298	.011 ✓	TR. ✓	.05	-	2.0			+	+++						
515.0	530.0	15.0	15.0	2299	.033 ✓	TR. ✓	.05	-	2.0			+	+++						
530.0	545.0	15.0	15.0	2300	.040 ✓	TR. ✓	.05	-	2.0			+	+++						

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. _____

DATE COMPLETED _____ PAGE No. 9 of 10

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
545.0	560.0	15.0	15.0	2301	.055 ✓	.003 ✓	.05	-	2.0			+	++						PROTORE ZONE - MIXED QTZ DIORITE
560.0	575.0	15.0	15.0	2302	.020 ✓	TR ✓	.05	-	2.0			+	++						
575.0	590.0	15.0	15.0	2303	.029 ✓	.003 ✓	.05	-	2.0			+	++						
590.0	605.0	15.0	15.0	2304	.035 ✓	.003 ✓	.05	-	2.0			+	++						

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. _____

DATE COMPLETED _____ PAGE No. 10 of 10

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
605.0	620.0	15.0	15.0	2305	.035 ✓	TR ✓	.01	-	2.0			+	+++					PROTORE ZONE- MIXED QTZ DIORITE
620.0	641.0 ~~635~~	21.0	20.0	2306	.052 ✓	TR	.05	-	2.0			+	+++					
~~635~~	~~650~~																	-641.0 - End of hole
63.0	641.0	578.0			.035	.001												

AREA Dr Hon Hill
DIP -90
AZIMUTH —

NORTHING 22,832,472.4
EASTING 365,924.9
ELEVATION 3825.3

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED JAN 7/70
DATE COMPLETED Feb 8/70
LENGTH 1231.0 ft.

HOLE No. P 31
PAGE No. 1 of 20
CORE SIZE NQ-0.0-50
BQ-506.0-1231

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
0.0	65.0	CASING - FRAGS																
65.0	80.0	15.0	10	x 2501	.224	.014	c.s	th.	1	+	+	45-60	+	+	+	+++		
80.0	95.0	15.0	13.0	2502	.158	.021	c.6	th.	c.5	+	+	50-70	+++	++		+		
95.0	110.0	15.0	13.0	2503	.418	.038	6.0	th.	1.0	+			++	++		+		

DESCRIPTION

65.0 ENRICHED ZONE - BRECCIA - MIXED QTZ. DIOR.

Enriched Zone - Mod. bleaching
Carbonate - veiny & nodul

Mod. cracked, nubbly; limonite stronger on all fractures - mod. brown vein blebs py-cpy-co up to 3/8" ϕ

Breccia - frags up to 1" across, strongly angular, large vug up to 1/2 across; sulphides finely disseminated also in coarse blebs oriented along fractures and contacts

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P31
DATE COMPLETED _____ PAGE No. 2 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
110.0	125.0	15.0	13.0	2504	.424	.007	0.8	tr.	1.0	+	+	60-90	++	++					ENRICHED ZONE - BRECCIA - MIXED QTZ DIORITE Brecciation ~~flow~~. very faint brown grey gouge 133-135 - ~~lamprophyre~~ dike 125-129.0. dense co + coating py.
125.0	140.0	15.0	10.0	2505	.720	.073	0.4	tr.	1.0	+	+	45-90	++	++					3" gouge - dk grey @ 137 - 137.4 alteration zone hard + very rubbly soft section 137-145 — 2.5 ~~core~~ rubble.
140.0	155.0	15.0	4.0	2506	.700	.033	0.3	tr.	1.0	+	+	45-90	++	++					very rubbly + soft with secondary brown limonite - probably alt. lamprophyre dike brecciation very faint dense co and thin coating pyrite
155.0	170.0	15.0	4.0	2507	.972	.113	0.4	tr.	1.0	+	+	45-90	++	++					buggy + brecciation 158-160.

AREA _____ NORTHING _____

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P31

DATE COMPLETED _____ PAGE No. 3 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
170.0	185.0	15.0	8.0	2508	.680	.127	~~0.5~~	tr.		+	+	60-90	+	++					ENRICHED ZONE - BRECCIA - MIXED QTZ DIORITE med coarse cpy in breccia - frags up to 2" across. - mod oxidized. occ. co coating py.
185.0	200.0	15.0	12.0	2509	.602	.075	0.5	tr.		+	+	60-90	+	+++					breciation very vague - finely dissem. cpy.
200.0	215.0	15.0	7.0	2510	.410	.204	0.6	tr.		+			+	++++					stons, fine brecciation, dissem cpy + occ. dissem co.
215.0	230.0	15.0	13.0	2511	.600	.359	0.6	0.03		+			+	++++					rubbly, probably breccia. finely dissem. MoS_2 on shear planes.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
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DATE COLLARED _____ HOLE No. P31
DATE COMPLETED _____ PAGE No. 4 of 20
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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
230.0	245.0	15.0	13.0	2512	.680	.138	0.6	0.02	0.5				+	+++					ENRICHED ZONE - BRECCIA - MIXED QTZ DIORITE 1/4" seam py @ 13°. finely dissem. MoS_2, small lenses cpy, tr. co.
245.0	260.0	15.0	14.0	2513	.510	.087	0.6	0.03	0.5	+	++	15-60	++						weakly brecciated, finely dissem MoS_2, Co, cpy.
260.0	275.0	15.0	14.0	2514	.440	.115	0.5	0.04	1.0	+	++	15-60	++						sulfides finely dissem; gtz veins random up to 1/2" wide some bl. biotite bands at 269-270. short sections fine brecciation
275.0	290.0	15.0	13.0	2515	.690	.162	0.4	0.02	1.0	+	+++	15-60	++						Copper mainly cpy. Or chalcocite

AREA _____ NORTHING _____

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
290.0	305.0	15.0	15.0	2516	.610	.125	0.5	0.04	1.0	+	+		++	++					ENRICHED ZONE – BRECCIA-MIXED QTZ. DIORITE breccia frags up to 3" across, sheet within bands, coarse black biotite
305.0	320.0	15.0	15.0	2517	.1080	.162	0.3	0.08	1.0	+			+++	+					as above black coating on core – MoS_2 sludge ? strongly sheared
320.0	335.0	15.0	15.0	2518	.400	.073	0.3	0.05	1.0				+++	+					fairly massive, mod hard, b.f.g. short sections of fine breccia-ing and black biotite
335.0	350.0	15.0	15.0	2519	.340	.089	0.5	0.04	1.0				+++	+					as above

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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DATE COLLARED _____ HOLE No. 131
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SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
350.0	365.0	15	15	2520	.430	.087	0.5	0.03	1.0		+	30-80	+++	+	+			
365.0	380.0	15.0	13.0	2521	.240	.075	0.3	0.02	1.0		+	30-60	++	+	+++			
380.0	395.0	15.0	13.0 @	2522	.160	.006	0.3	0.02	1.0			40-60	+	+	+++			
395.0	410.0	15.0	12.0	2523	.180	.012	0.3	0.02	1.0						++			

DESCRIPTION

ENRICHED ZONE - BRECCIA - MIXED QTZ DIORITE
rounded gy blue-grey and patches brown
fractures, occ. traces grey on Tuff (?).
~~6" gouge @ 366~~

365.0
PROTORE ZONE - BRECCIA - MIXED QTZ DIORITE
slightly muddy and more broken.

6" gouge @ 366
2" " @ 368.5
3" " @ 374

3' gouge at 382
3" " @ 391

3" gouge at ~~403~~ - ground core 401-403.
fracture ends at about 409 - green tremolite
veins contorted ~~and~~ harder and
more pyritic

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
410.0	425.0	15.0	14.0	3524	.245	.017	0.2	0.02	3.0	++	+		+	+					PROTORE ZONE – BRECCIA – MIXED QTZ DIORITE contorted, dense, pyritic, black bands (chlorite?). ~~not bar core-gritty, short lit~~
425.0	440.0	15.0	14.0	3523	.280	.044	0.2	0.02	2.0	++	+		+	+	+				becoming very soft, sheared & broken at end
440.0	455.0	15.0	12.0	2026	.260	.121	0.2	0.02	1.0	++	+	40	+	+	+				shattered, often rubbly.
455.0	470.0	15.0	15.0	2027	.250	.079	0.2	0.02	1.0	+	+			+	++				as above

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
470.0	485.0	15.0	14.0	2028	.190	.062	0.2	0.02	1.0	+	+	30-8	+	+	+++			
485.0	500.0	15.0	14.0	2029	.262	.191	0.2	0.02		+	+			++	++			
500.0	515.0	15.0	14.0	2030	.370	.021	0.2	0.01		+	+	40-70		++	+++			
515.0	530.0	15.0	14.0	2031	.250	.025	0.2	0.01										

DESCRIPTION

PROTORE ZONE - BRECCIA - MIXED QTZ DIORIT

3" gouge at 486.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
530.0	545.0	15.0	14.0	20332	.290	.033	0.2	0.01			+			++	++				PROTORE ZONE - BRECCIA - MIXED QTZ DIORITE
545.0	560.0	15.0	14.0	20333	.150	.021	0.2	0.01			+			++	++				
560.0	575.0	15.0	14.0	20334	.190	.021	0.2	0.01			+			++	++				
575.0	590.0	15.0	14.0	20335	.280	.015	0.2	0.01			T			++	++				

AREA _____ NORTHING _____

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
590.0	605.0	15.0	14.0	2036	.196	.042	0.3	0.02	1.0				+4	+4	+				PROTORE ZONE - BRECCIA - MIXED QTZ DIORIT breccia starts at 596 with occas. ~~short~~ mauve dike sections ~~to 600~~ to 615
605.0	~~620.0~~	15.0	14.0	2037	.200	.116	0.4	0.03	1.0				+4	+4	+				massive sections & short breccia zones trace gypsum on occ. fracture
620.0	~~635.0~~ 635.0	15.0	14.0	2038	.270	.027	0.4	0.03	1.0				+4	+4	+				as above
~~635.0~~ 635.0	~~650.0~~ 650.0	15.0	14.0	2039	.300	.021	0.4	0.03	1.0				+4	+4	+				as above

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
~~652.0~~ 655.0	665.0	15.0	15.0	2040	.140	.019	0.4	0.03	1.0	++	+		++	++	+				PROTORE ZONE - BRECCIA - MIXED QTZ DIOR
665.0	680.0	15.0	15.0	2041	.280	.048	0.4	0.03	1.0	++			++	+	+				as above
680.0	~~695.0~~ 695.0	15.0	15.0	2042	.160	.044	0.3	0.03	1.0	++			++	+	+				as above
~~695.0~~ 695.0	710.0	15.0	15.0	2043	.150	.037	0.3	0.02	1.0	++			++	+	+				as above

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
720.0	735.0	15.0	15.0	2044	.220	.046	0.3	0.02	1.0	++			+	++	+				PROTORE ZONE - BRECCIA-MIXED QTZ DIORIT
735.0	750.0	15.0	15.0	2045	.136	.033	0.3	0.02	1.0	++			+	++	+				on hepon
750.0	765.0	15.0	15.0	2046	.140	.029	0.3	0.02	1.0	+			+	++	+				
765.0	770.0	15.0	15.0	2047	.140	.029	0.3	0.02	1.0	++			+	++	+				

AREA _____ NORTHING _____

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
~~770.0~~ ~~785~~	785.0	15.0	15.0	2048	.200	.017	0.3	0.02	1.0	++			++	+	+				PROTORE ZONE - BRECCIA - MIXED QTz DIOR a little
785.0	800.0	15.0	15.0	2049	.160	.073	0.3	0.02	1.0	++			++	+	+				
800.0	815.0	15.0	15.0	2050	.204	.017	0.3	0.02	1.0	++			++	+	+				
815.0	~~830.0~~ ~~830~~	15.0	15.0	2526	.116	.071	0.3	0.02	1.0	++			++	+	+				Brecciation more obvious after 835, Thin gypsum veins common throughout

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SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
830.0	845.0	15.0	15.0	2527	.220	.054	0.4	0.02	1.0	++			+	+	+			
845.0	860.0	15.0	15.0	2528	1.630	.085	0.4	0.02	1.0	++			+	+	+			
860.0	875.0	15.0	15.0	2529	.250	.079	0.4	0.02	1.0	++			+	+	+			
875.0	890.0	15.0	15.0	2530	.144	.040	0.3	0.02	1.0	++			+	+	+			

DESCRIPTION

PROTORE ZONE - BRECCIA - MIXED QTZ DIORIT

weakly brecciated

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CASINO SILVER MINES LTD.

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
890.0	905.0	15.0		2531	.240	.102	0.3	0.02	1.0										PROTORE ZONE - BRECCIA - MIXED QTZ. DIORITE brecciation becoming stronger
905.0	920.0	15.0		2532	.300	.083	0.4	0.02	1.0										
920.0	935.0	15.0		2533	.220	.050	0.4	0.03	1.0										
935.0	950.0	15.0		2534	.160	.050	0.5	0.03	1.0										

AREA _____ NORTHING _____

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
950.0	965.0	15.0	15.0	←2535	.220	.104	0.6	0.05	1.0	++			+	+	+				PROTORE ZONE – BRECCIA – MIXED QTZ DIORIT well-developed breccia. occas. gypsum
965.0	980.0	15.0	15.0	←2536	.354	.027	0.7	0.05	1.0	++			+	+	+				
980.0	995.0	15.0	15.0	←2537	.330	.069	0.7	0.05	1.0	++			+	+	+				
995.0	1010.0	15.0	15.0	←2538	.330	.065	0.7	0.05	1.0	++			+	+	+				

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1020.0	1025.0	15.0	15.0	2539	.210	.060	0.6	0.05	1.0	++		+	+	+	+				PROTORE ZONE - BRECCIA - MIXED QTZ. DIORIT vein-enclosed breccia
1025.0	1040.0	15.0	15.0	2540	.260	.042	0.6	0.05	1.0	++		+	+	+	+				
1040.0	1055.0	15.0	15.0	2541	.400	.019	0.8	0.05	1.0	++		+	+	+	+				breccia veins becoming weaker
1055.0	1070.0	15.0	15.0	2542	.226	.029	0.5	0.05	1.0	++		+	+	+	+				

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1070.0	1085.0	15.0	15.0	2543	.180	.123	0.4	0.05	1.0	++			++			+			PROTORE ZONE - BRECCIA - MIXED QTZ DIORITE breccia fading out
1085.0	1100.0	15.0	15.0	2544	.168	.100	0.4	0.05	1.0	++			++			++			1085.0 PROTORE - MIXED QTZ DIORITE no breccia
1100.0	1115.0	15.0	15.0	2545	.215	.098	0.3	0.05	1.0	++			+			++			
1115.0	1130.0	15.0	15.0	2546	.112.	.031	0.3	0.05	1.0	++			+			++			

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1130.0	1145.0	15.0	15.0	2547	.085	.069	0.3	0.05	1.0	++			+		+	H			PROTORE ZONE - MIXED QTZ DIORITE
1145.0	1160.0	15.0	15.0	2548	.135	.041	0.3	0.05	1.0	+			+	++	+				mafic banding
1160.0	1175.0	15.0	15.0	2549	.151	.022	0.2	0.05	1.0	+			+	++	+				
1175.0	1190.0	15.0	15.0	2550	.110	.016	0.2	0.05	1.0	+			+	++	+				

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1190 ~~1195~~	1205 ~~1210~~	15	15	2551	.065 ~~0.2~~	.039 ~~0.05~~	0.2	0.05	1.0	++				+	+	++			PROTORE ZONE - MIXED QTZ DIORITE
1205	1220 ~~1230~~	15	15	2552	.050 ~~0.2~~	.027 ~~0.05~~	0.2	0.05	1.0	++				+	+	++			
1220	1231	11	11	2553	.108	.042	.02	.05	1.0	++				+	+	++			1231.0 End of Hole
65.0	95.0	30.0			.191	.018													
95.0	380.0	285.0			.576	.113													
380.0	1231.0	851.0			.234	.052													
95.0	1231.0	1136.0			.319	.067													

AREA Patlon Hill
DIP -90°
AZIMUTH —

NORTHING 22,335,879.2
EASTING 365,908.5
ELEVATION 3887.5

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED Jan 30/76 11'
DATE COMPLETED Feb 11/76
LENGTH 1202.5

HOLE No. P32
PAGE No. 1 of 20
CORE SIZE NQ 0.0-488.6
BQ 488.0-1202.

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
20.0	35.0	15.0	9.0	2631	.004	.002							++						LEACHED ZONE - GRANODIORITE leached, thin limonite on fractures badly broken
35.0	50.0	15.0	9.0	2632	.005	.002							++						
50.0	65.0	15.0	3.0	2633	.008	.015							+++						rubbly sandy,
65.0	80.0	15.0	3.0	2634	.020	.006							+++						

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 2 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
80.0	95.0	15.0	3.0	2635	.021	.008	0.1		1.0				++						LEACHED ZONE - GRANODIORITE Start of enriched zone th. co covering ppy.
95.0	110.0	15.0	3.0	2636	.020	.002	0.2		1.0				++						
110.0	125.0	15.0	3.0	2637	.032	.012	0.2		1.0				++						
125.0	140.0	15.0	3.0	2638	.089	.608	0.2		1.0				++						

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 3 of 10

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
140.0	155.0	15.0	5.0	2639	.061	.002	0.2		1.0				+++						LEACHED ZONE - GRANODIORITE
155.0	170.0	15.0	8.0	2640	.245	.017	0.2		1.0				+++						155.0 ENRICHED ZONE - GRANODIORITE
170.0	185.0	15.0	8.0	2641	.240	.008	0.2		1.0				+++						
185.0	200.0	15.0	6.0	2642	.250	.002	0.2		1.0				+++						

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 4 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
200.0	215.0	15.0	6.0	2643	.155	.010	0.2	-	1.0									
215.0	230.0	15.0	7.0	2644	.132	.004	0.2	-	1.0									
230.0	245.0	15.0	8.0	2645	.111	.006	0.2	-	1.0									
245.0	260.0	15.0	9.0	2646	.270	.006	0.2	-	1.0									

DESCRIPTION

ENRICHED ZONE - GRANODIORITE

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 5 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
260.0	275.0	15.0	9.0	2649	.210	.015	.02		1.0										ENRICHED ZONE - GRANODIORITE
275.0	290.0	15.0	12.0	2648	.395	.004	0.2		1.5	++									weak enrichment ends about 285
290.0	305.0	15.0	14.0	2649	.063	.002	0.1		2.0	+++									235.0 PROTORE ZONE - GRANODIORITE
305.0	320.0	15.0	14.0	2650	.085	.002	0.1		2.0	++									

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P32
DATE COMPLETED _____ PAGE No. 6 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
320.0	335.0	15.0	14.0	2651	.107	.002	1.0		2.0	++									PROTORE ZONE – GRANODIORITE
335.0	350.0	15.0	14.0	2652	.060	.002	1.0		2.0	+++									
350.0 ~~350~~	365.0 ~~350~~	15.0	14.0	2653	.053	.006	1.0		2.0	+++									
365.0 ~~350~~	380.0 ~~370~~	15.0	14.0	2654	.083	.002	1.0		2.0	+++									

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 7 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
380.0	395.0 ~~410~~	15.0	14.0	2655	.014	.004	0.1		3.0	++									PROTORE ZONE - GRANODIORITE
395.0 ~~410~~	410.0 ~~425~~	15.0	14.0	2656	.014	.004	0.1		3.0	++									
410.0 ~~425~~	425.0 ~~440~~	15.0	14.0	2656	.022	.004	0.1		3.0	++									
425.0 ~~440~~	440.0 ~~455~~	15.0	14.0	2657	.019	.004	0.1		3.0	++									

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 8 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
440.0	455.0	15.0	14.0	2658	.016	.002	0.1		3.0	+++									PROTORE ZONE - GRANODIORITE
455.0	470.0	15.0	14.0	2659	.036	.004	0.1		3.0	+++									
470.0	485.0	15.0	14.0	2660	.040	.002	0.1		3.0	+++									
485.0	500.0	15.0	14.0	2661	.037	.002	0.1		3.0	+++									

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 9 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
500.0	515.0	15.0	14.0	2662	.035	.002	0.1		3.0	+++									PROTORE ZONE - GRANODIORITE
515.0	530.0	15.0	14.0	2663	.045	.002	0.1		3.0	++									
530.0	545.0	15.0	14.0	2664	.015	.004	0.1		3.0	++									
545.0	560.0	15.0	14.0	2665	.010	.004	0.1		3.0	+++									

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 10 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
560.0	575.0	15.0	15.0	2666	.009	.003	0.1		3.0	+++									PROTORE ZONE - GRANODIORITE
575.0	590.0	15.0	15.0	2667	.019	.007	0.1		3.0	+++									
590.0	605.0	15.0	15.0	2668	.017	.004	0.1		3.0	+++									
605.0	620.0	15.0	15.0	2669	.019	.006	0.1		3.0	+++									

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 11 of 29

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
620.0	635.0	15.0	15.0	2670	.030	.009	0.1	-	3.0	++									PROTORE ZONE - GRANODIORITE
635.0	650.0	15.0	15.0	2671	.020	.004	0.1		3.0	++									
650.0	665.0	15.0	15.0	2672	.018	.002	0.1		3.0	++									
665.0	680.0	15.0	15.0	2673	.010	.006	0.1		3.0	++									

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. 132

DATE COMPLETED _____ PAGE No. 12 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
680.0	695.0	15.0	15.0	2674	.010	.004	0.1		3.0	++								
695.0	710.0	15.0	15.0	2675	.020	.002	0.1		3.0	++								
710.0	725.0	15.0	15.0	2676	.027	.004	0.1		3.0	++								
725.0	743.0	15.0	15.0	2677	.020	.004	0.1		3.0	++								

DESCRIPTION

PROTORE ZONE - GRANODIORITE

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 13 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
740.0	755.0	15.0	15.0	2678	.015	.002	0.1		3.0	+++									PROTORE ZONE - GRANODIORITE
755.0	770.0	15.0	15.0	2679	.008	.004	0.1		3.0	+++									
770.0	785.0	15.0	15.0	2680	.003	.002	0.1		3.0	+++									
785.0	800.0	15.0	15.0	2681	.002	.006	0.1		3.0	+++									

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32.

DATE COMPLETED _____ PAGE No. 14 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
800.0	815.0	15.0	15.0	2682	.060	.002	.07	.01	3-4	S	M	W	W	S	—	—		
815.0	830.0	15.0	15.0	2255	.002	TR	.07	.01	3-4	S	M	W	W	S	—	—		
830.0	845.0	15.0	15.0	2256	.005	.006	.07	.01	3-4	S	M	W	W	S	—	—		
845.0	860.0	15.0	14.5	2257	.007	.003	.07	.01	3	S	M	W	W	S	—	—		

DESCRIPTION

Protore – Granodiorite - Dark grey, medium grained (2mm) green-white altered plagioclase (30-40%) and quartz with strong silicification (qtz flooding) Rare acicular tourmaline rosettes. Sericitized biotite are present as black chloritic biotite rare
Pyrite stockwork well developed with up to .15ft pyrite seams at low angle to core axis.
Irregular up to 3 ft strong silicified and moderate silicified bands
Sericitized biotite well shaped

-835.5- Dark fine grained, abundant fine pyrite
--837.0-

- - - - Pyrite veinlets decreases slightly.

-845.5- 0.15 fine grained qtz diorite breccia fragment

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 32

DATE COMPLETED _____ PAGE No. 15 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
860.0	875.0	15.0	15.0	2258	.008	TR	.07	.01	3	S	M	W	W	S	—	—			Protore - Granodiorite Qtz veinlets and silicification around pyrite stringers - sericite envelopes absent.
875.0	890.0	15.0	14.5	2258	.008	TR	.07	.01	3	S > M	M	W	W	S	—	—			--888.0 - silicification weakens and in bands alternating moderate and strong.
890.0	905.0	15.0	15.0	2259	.016	TR	.07	.01	3	S = M	M	W	W	S	—	—			--891.5 - core below --913.5 - dark green altered plagioclase
905.0	920.0	15.0	15.0	2260	.009	TR	.07	.01	3	S > M	M	W	W	S	—	—			

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P32
DATE COMPLETED _____ PAGE No. 16 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
920.0	935.0	15.0	15.0	2261	.007	.003	.07	.01	2	S	M	W	W	S	—	—		
935.0	950.0	15.0	15.0	2262	.010	.003	.07	.01	2-3	M	M	W	W	S	—	—		
950.0	965.0	15.0	15.0	2263	.006	TR	.07	.01	2-3	M	M	W	W	S	—	—		
965.0	980.0	15.0	15.0	2264	.015	TR	.07	.01	2-3	M	M	W	W	S	—	—		

DESCRIPTION

Protore - Granodiorite

-933.0 - pyrite stockwork weakens slightly

--936.0--
Dark green altered plagioclases (Fe or green sericite) often present.

--946.0

-962.5 - contact 20°
· Dark green plagioclase to 5mm.

-963.5 - - contact

--966.5 - - rounded fine grained qtz diorite breccia fragment - 0.1 ft

--971.5 - altered volcanic? Yukon Group fragment

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P32
DATE COMPLETED _____ PAGE No. 17 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
980.0	995.0	15.0	15.0	2265	.008	.003	.07	.01	2-3	M	M	W	W	S	1	1		
995.0	1010.0	15.0	15.0	2266	.003	.003	.07	.01	2-3	M	M	W	W	S	1	1		
1010.0	1025.0	15.0	15.0	2267	.010	.003	.07	.01	2-3	M	M	W	W	S	1	1		
1025.0	1040.0	15.0	15.0	2268	.002	.003	.07	.01	2-3	M	M	W	W	S	1	1		

DESCRIPTION

Pretoria - Granodiorite

--982.5 --- 0.1 ft rounded fine grained qtz diorite fragment - bre

--995.0 -- rounded 0.1 ft diameter fine grained qtz diorite fragment breccia

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 18 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
1045.0	1055.0	15.0	15.0	2270	.009	.003	.07	.02	2-3	M	M	W	W	S/M	—	—		
1055.0	1070.0	15.0	15.0	2271	.006	003	.07	.02	2-3	M	M	W	W	S/M				
1070.0	1085.0	15.0	14.5	2272	.018	.003	.07	.02	2-3	M	M	W	W	S/M				
1085.0	1100.0	15.0	12.0	2273	.015	.003	.07	.02	2-3	M	M	W	M	S				

DESCRIPTION

Protore Granodiorite

--1059.0-- Dark green plagioclase abundant

-1063.0 0.1 ft rounded fragment - volcanic(?) granodiorite? - breccia

--1065.0

--1078.0- Dark green plagioclase abundant.

--1075.5-

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P32

DATE COMPLETED _____ PAGE No. 19 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
1100.0	1015.0	15.0	12.0	2273	015	.003	.07	.02	2	M	M	W	W	S	—	—		Protore - Granodiorite 1103.0 - 0.1 ft rhded qtz diorite fragment
1115.0	1130.0	15.0	10.0	2274	.010	.003	.07	.02	2	M	M	W	W	S	—	—		
1130.0	1145.0	15.0	14.0	2275	.015	.003	.07 —	.02 —	2 —	M —	M —	W —	W —	S S	— —	— —		1139.0 — chilled contact 40° Andesite - Brown aphantic with scattered 1mm soft altered feldspar phenocrysts.
1145.0	1160.0	15.0	14.0	2326	.010	.003	—	—	—	—	—	—	—	S				1157.0 — chilled contact ~20°

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P32.
DATE COMPLETED _____ PAGE No. 20 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
1160.0	1175.0	15.0	14.5	2327	.007	.003	.07	.02	2-3	M	M	W	W	S	1	1		
1175.0	1190.0	15.0	14.0	2328	.005	.003	.07	.02	2-3	M	M	W	W	S	—	—		
1190.0	1202.5	12.5	10.0	2329	.004	.003	.07	.02	2-3	M	M	W	W	S	—	—		
							Assay Summary											
20.0	155.0	135.0			.029	.006												
155.0	290.0	135.0			.220	.008												
290.0	1200.0	910.0			.021	.003												
155.0	1200.0	1045.0			.047	.004												

DESCRIPTION

Pretore - Granodiorite

1202.5 End of hole

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA Dahon Hill
DIP -90°
AZIMUTH —

NORTHING 22,836,512.8
EASTING 364,744.4
ELEVATION 4214.8

DATE COLLARED Feb 3/70
DATE COMPLETED Feb 15/70
LENGTH 1183.0

HOLE No. P34
PAGE No. 1 of 20
CORE SIZE NQ 0.0 - 1183

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
18.0	30.0	12.0	11.0	2683	.042	.009				++				++				
30.0	45.0	15.0	14.0	2684	.039	.066				++				++				
45.0	60.0	15.0	14.0	2685	.053	.002				++				++				
60.0	75.0	15.0	11.0	2686	.058	.015				++				++				

DESCRIPTION

LEACHED ZONE - GRANODIORITE

Qtz-eye porphyry - ~~[illegible]~~
weakly brecciated locally
dk-brown limonite on fractures
weakly leached

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P 34.
DATE COMPLETED _____ PAGE No. 2 of 26
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
75.0	90.0	15.0	14.0	2687	.048	.004	1		1	++				++					LEACHED ZONE - GRANODIORITE
90.0	105.0	15.0	14.0	2688	.060	.002	—		—	++				++					
105.0	120.0	15.0	14.0	2689	.041	.002	—		—	++				++					
120.0	135.0	15.0	14.0	2690	.040	.002	—		—	++				++					

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. 134
DATE COMPLETED _____ PAGE No. 3 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
135.0	150.0	15.0	14.0	2691	.062	.004	-		-	++				++					LEACHED ZONE – GRANODIORITE
150.0	165.0	15.0	14.0	2692	.075	.015	-		-	++				++					
165.0	180.0	15.0	14.0	2693	.068	.018	-		-	++				++					
180.0	195.0	15.0	14.0	2694	.051	.009	-		-	++				++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P34

DATE COMPLETED _____ PAGE No. 4 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
195.0	210.0	15.0	14.0	2695	.045	.006	-		-	++				++					LEACHED ZONE - GRANODIORITE
210.0	225.0	15.0	14.0	2696	.050	.007	-		-	++				++					
225.0	240.0	15.0	14.0	2697	.059	.015	-		-	++				++					
240.0	255.0	15.0	14.0	2698	.080	.024	-		-	++				++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 34

DATE COMPLETED _____ PAGE No. 5 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
255.0	270.0	15.0	15.0	2699	.080	.031	-		.1	++				++					LEACHED ZONE - GRANODIORITE Trace of sulfide appearing - mainly py.
270.0	285.0	15.0	15.0	2700	.160	.029	-		.1	++				++					
285.0	300.0	15.0	15.0	2701	.175	.029	-		.1	++				++					
300.0	315.0	15.0	15.0	2702	.140	.037	-		.1	++				++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P34

DATE COMPLETED _____ PAGE No. 6 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
315.0	330.0	15.0	15.0	3703	.390	.105	.1	.01	.3	++				++					ENRICHED ZONE - GRANODIORITE
330.0	345.0	15.0	15.0	3704	.500	.061	.1	.01	.3	++				++					
345.0	360.0	15.0	15.0	3705	.425	.052	.1	.01	.5	++				++					
360.0	375.0	15.0	15.0	3706	.516	.100	.1	.01	.5	++				++					

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P34
DATE COMPLETED _____ PAGE No. 7 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
375.0	390.0	15.0	15.0	2707	.540	.163	.1	.01	.5										ENRCHED ZONE - GRANODIORITE
390.0	405.0	15.0	15.0	2708	.350	.005	.1	.01	.5										
405.0	420.0	15.0	15.0	2709	.420	.100	.1	.01	.5										
420.0	435.0	15.0	15.0	2710	.450	.109	.1	.01	.5										

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. 134

DATE COMPLETED _____ PAGE No. 8 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
435.0	450.0	15.0	15.0	2711	.540	.093	.1	.01	.5										ENRICHED ZONE - GRANODIORITE
450.0	465.0	15.0	15.0	2712	.520	.039	.1	.01	.5										450.0 PROTORE - GRANODIORITE
465.0	480.0	15.0	15.0	2713	.225	.035	.1	.01	.5										
480.0	495.0	15.0	15.0	2714	.240	.056	.1	.01	.5										

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P34
DATE COMPLETED _____ PAGE No. 9 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
495.0	510.0	15.0	15.0	2715	.230	.074	.15	.02	1.0	++				++					PROTORE ZONE - GRANODIORITE
510.0	525.0	15.0	15.0	2716	.249	.149	.15	.02	1.0	++				++					
525.0	540.0	15.0	15.0	2717	.205	.052	.15	.02	1.0	++				++					
540.0	555.0	15.0	15.0	2718 2308 Balance of 540-555	.161	.057	.15	.02	1.0					+		+++			

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P34
DATE COMPLETED _____ PAGE No. 10 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
555.0	570.0	15.0	14.0	2308	.210	.038	.15	.03	1	W	W	W	W	W/M	W	1			Protore Zone Granodiorite - Grey, medium grained (3mm), hypidiomorphic granular. qtz. (60%), altered plagioclase - pale green (30%), bleached k-spar (5%) and lath like chloritized black biotite (10%). Cpy in fine cracks and diss. with minor cc along stronger fractures. Moite disseminated and along fine cracks. Very mi bright red zeolites (heulandite
																			--569.0 - chill contact - 90°
570.0	585.0	15.0	14.0	2309	.120	.005	.05	.03	½	W	W	W/M	W	W	M				Feldspar Porphyry - Latite Porphyry. - Dark colored, white plagioclases - 2-5 mm often hard core soft altered rims 30% in a glassy matrix. Book biot 1-2mm and fine shredded (secondary biotite (20%). Often fine vugs. Rare qtz phenocrystal (1mm) Weak py. and cpy. Moite common along cracks. Along stronger fractures. goerthitic limonite (after pyrite) present.
585.0	600.0	15.0	12.0	2310	.155	.018	.05	.03	½	W	W	W/M	W	W	M				
600.0	615.0	15.0	10.0	2311	.255	.031	.05	.03	½	W	W	W/M	W	W	M				

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P34

DATE COMPLETED _____ PAGE No. 11 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
615.0	630.0	15.0	13.0	2312	.105	.003	.05	.03	½	W	W	W	W	W/M	M	—		
630.0	645.0	15.0	11.0	2313	.147	.018	.05	.03	½	W	W	W	W	W/M	M	—		
										W	W	W	W	M/S	W			
										W	W	W	W	M	W			
645.0	660.0	15.0	14.5	2314	.160	.021	.05	.03	½	W	W	W	W	M	W	—		
660.0	675.0	15.0	15.0	2315	.140	.025	.1	.05	½	M/S	W/M	W	S	S	—	—		

Protore Zone

Feldspar Porphyry. - as previous

637.5 - contact partially missing and along 20° fracture - 70-80

Mixed Qtz Diorite - Grey, fine-med grained granular w/ sericitized biotite

640.0 - Lathlike black chloritized biotite become common.

644.5 - Breccia - Bands up to 2ft with rounded and angular up to 0.1ft fine grained biotite rich (40-50%) qtz dio. in a grey medium grained (2mm) hypidiomorphic granular qtz, pale green sericitized? altered plagioclase and lathlike chloritized biotite (5-10%) often part or completely sericitized

654.0 - sharp contact - 80°

Mixed Qtz Diorite? - Light colored, fine-medium grained (2mm) quartz and pale green - chalky altered plagioclase. Moderate network of narrow (3mm) quartz veining with moly. Calcareous fractures ca, sometimes a vug lining. Minor cc. replacing py and jarosite along stronger fractures and vugs. Moly along fractures common. Rare pyrite stringers

673.5 - Euhedral plagioclases - porphyritic become common. Intensity and wid of qtz veining increases

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 34
DATE COMPLETED _____ PAGE No. 12 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
675.0	690.0	15.0	14.5	2316	.105	.025	2	.1	1	M/S	M/S	W	W	S	1	1		
690.0	705.0	15.0	14.5	2317	.140	.028	.2	.07	1	M/S	M	W	W	S	—	—		
705.0	720.0	15.0	15.0	2318	.100	.082	.2	.07	1	M	W/M	W	W	S	—	—		
720.0	735.0	15.0	15.0	2319	.110	.021	.2	.07	1	W	W	W	W	M	—	—		

DESCRIPTION

Protore Zone - Mixed Qtz Diorite - as previous

689.0 — — — — — — irregular sharp contact — — —
Dark green soft altered plagioclase and sericitized biotite becomes common in narrow irregular less silicified sections. Minor chloritized biotite

710.0 — —
Gypsum as fracture filling occasionally present qcc cyst in open fracture.

724.0 — —
Silicification weakens, pale - med green soft altered plagioclases and chloritized biotite occasionally present. Along fractures strong argillic chalky alteration - supergene? with very weak limonite staining

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 34

DATE COMPLETED _____ PAGE No. 13 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
735.0	750.0	15.0	13.0	2320	.140	.338	.2	.07	1	W M	W W/M	W W	W W	M M	– W/M	I S		PROTORE Zone - Mixed Qtz Diorite 739.5 745.0 - 5mm secondary k-spar phenocryst. Light - medium grey, fine - med (2mm) grained, hypidiomorphic granular, hard, qtz 3 minor (dark green altered plagioclase and abundant sec. k-spar, and irregular, lath like shredded chloritized biotite (after hornblende) and sericitized biotite, Biotite sec(?). Irregular biotite stringers where qtz veining and silicification well developed. Plagioclase varies from pale-med green and sec. resinous-chalky grey. Diss cpy and moly diss and along cracks and fractures Trace pyrite stringers Gypsum, crystalline and fibrous common along fractures in veins, along strong fractures fine sericite common.
750.0	765.0	15.0	13.0	2321	.100	.052	.3	.1	1	M	W/M	W	W	M	W/M	S		748.0 Breccia? - strong fracturing with triangular veins and 754.0 biotite rich qtz diorite (?) rounded and angular to 1 inclusions. alteration contacts 45° dark green altered plagioclase and bleached. Chloritized biotite now not very common. 767 - occ fragments? - rounded altered fine grained biotite rich qtz-d average size 1 cm. - breccia -
765.0	780.0	15.0	14.0	2322	.105	.062	.3	.2	1-2 1-2	S S	M M	W W	W W	M M	W –	S S		775.0 Light grey, medium to coarse grained (5mm) quartz with sec. silica and sub-euhedral up to 5 mm hard, slight greenish grey and pink sec. k-spar(?) 50%, occ. pale green soft altered plagioclase. Often granular texture to qtz suggesting porphyry. Weak cpy and abundant Moly d and along cracks - not very common in qtz veinlets
780.0	795.0	15.0	13.0	2323	.095	.115	.2	.3	1	S	M/W	W	W	M	W	S M/W		782 rounded fragment 1cm - chloritic biotite rich fine grained qtz-d 0.2ft breccia with sec biotite and hypo altered shredded biotite irregular Calcite? Gypsum common in fractures 785.0 sec k spar decrease, increase in soft pale green plagio 794.0 – See next page

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P34
DATE COMPLETED _____ PAGE No. 14 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
795.0	810.0	15.0	14.0	2324	.082	.027	.2	.1	1	M	W	M/W	W	W	S/M	S		
810.0	825.0	15.0	12.0	2325	.110	.120	.25	.1	1	M	W	M/W	W	W	S/M	S		
825.0	840.0	15.0	12.0	6801	.100	.120	.3	.2	1	W M	W M	W	W	M	S W	M W/M		
840.0	855.0	15.0	13.5	6802	.218	.252	.8	.25		M W	M M	W W	W W	M S	S S	S W		

DESCRIPTION

Protore Zone. - Mixed Qtz Diorite - Dark grey, f
medium grained, hypidiomorphic - quartz (30%), bleache
sec. k-spar (50%), rare pale green altered plagioclas
and ragged book, shredded chloritic (?) sec. biotite (15%
K-spar appear along fractures. Gypsum and calcareou
material common along fractures. Vague foliation to
biotite - 45° to core axis. Some fine (2mm) qtz veining

- 809.0 - strong biotite in fracture with qtz veining - 45°

- 820.0 - bright red zeolite (heulandite) along fracture

- 821.0 - k-spar alteration decreases and soft narrow crumbly bands
become common - increasing soft pale-med green alter
plagioclase

- 826.0 - become very crumbly with narrow, hard k-spar, silic
bands. Up to 0.1 ft rounded and angular fragments
of biotite rich fine grained qtz diorite. Soft rock
due to increase in altered plagioclase and weak k
alteration and increasing gypsum in fractures.

- 833.0 - Stronger silicification and qtz veinlets and in parts minor
biotite

- 838.0 - bottom of crumbly section.
Hard, strong k-spar alteration

- 848.0 Weak k-spar, strong alter white chalky euhedral-subhedral
plagioclase and qtz granular. Strong qtz veining

- 853.0 - Alternating soft crumbly & hard k-spar altered

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P34

DATE COMPLETED _____ PAGE No. 15 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
855.0	870.0	15.0	12.5	6803	.120	.252	.25	.25	1	W	M/S	W	W	S	S	S		
870.0	885.0	15.0	10.0	6804	.195	.167	.25	.3	1	W	M	W	W	S	W	W > S/M		
885.0	900.0	15.0	14.5	6805	.220	.125	.2	.4	1	W	S	W	W	S	W	W > M/S		
900.0	915.0	15.0	15.0	6806	.118	.110	.2	.35	1	W	M	W	W	S	S	W/M		

Pretore. - Mixed Qtz Diorite

861.5 – Breccia - scattered, rounded up to 0.15ft rounded, subidal fine grained biotite rich qtz-diorite

864.0

869.5 – Green, clayey sand moderate biotite (?) rare

Variable k-spar alteration, mod. biotite, resinous white and pale gra... fine-coarse grained plagioclase altered. Better qtz veining with moite. Finer grained bands(?) fragments suggest minor breccia or alteration feature. Occ up to 5mm feldspar phenocryst(?) qtz Qtz. grained angular-rounded sug... a breccia cement. Qtz veins terminate on hair like fractures.

874.0

878.0 – Green clayey sand Moderate biotite

882.0

886.5 – Breccia - numerous up to 0.2ft ided and qtz veined biotite rich, fine grained qtz diorite.

891.0 – 1" Qtz Porphyry? - Mixed Qtz Diorite Occasional qtz phenocrysts (?) in aphanitic groundmass

903.5 – Breccia - numerous up to 1.0 ft. med grained, resinous chalky plagioclase, abundant. coarse - 5mm ragged book and fine stressed biotite fragments and rare rounded apha... rock.

913.5

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 34

DATE COMPLETED _____ PAGE No. 16 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
915.0	930.0	15.0	14.5	6807	.075	.123	.2	.3	1	S	M/S	W	W	S	W	S		
930.0	945.0	15.0	13.0	6808	.090	.123	.15	.25	1	S	M/S	W	W	S	W	S		
945.0	960.0	15.0	14.0	6809	.110	.100	.15	.2	1	W/M	W	W	W	S	M/S	I		
960.0	975.0	15.0	14.5	6810	.090	.305	.15	.3	1	W	S.	W	W	S	W	W.		

DESCRIPTION

Protore - Mixed Qtz Diorite

--917-- Breccia - numerous - up to 1ft. rded and irregular fragment of med grain (3mm) strong argillic altered, weak-med sec chloritic biotite qtz-diorite and aphanitic qtz rich fragments rare. Breccia fragments have generally vague outline. Groundmass is an fine grained k-spar strong, strong silicified and qtz veinlets with minor strong altered plagioclase sec. biotite altered to a pale green sericite Rare py stringer

--934.5-- Med grained, strong argillic altered, hypiomorphic granular
--936.0-- weak k-spar alteration - boulder.

--950.0-- bottom of strong argillic - weak k-spar. biotite rich fragm Hard. brecciated, strong k-spar, minor altered plagioclase and chl sec biotite 20%. K-spar flooding prominent irregular up to 1cm. blebs. of sec biotite commonly Breccia? - may just be qtz diorite seperated by. up to 0.1ft k-spar veins Gypsum in veinlets becomes more common.

--960--
bottom of breccia
Grey, med grained (5mm) hypidiomorphic granular qtz and pale-med green altered plagioclase. Fine irregular network of qtz veining with abundant biotite. Minor k-spar alteration near top contact. Biotite sericitic Vague suggestion of brecciation

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P34

DATE COMPLETED _____ PAGE No. 17 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
975.0	990.0	15.0	13.5	6811	.180	.321	.15	.35	1	W	S	W	W	S	W	W			Photoic - Mixed Qtz Diorite - as previous -975.0- Finer grained, brecciated and silicified - strong moite as fra -990.0- filling -992.0- as before 975.0ft. K-spar veining and sec. biotite (15%) -987.0- Med grained strong argillic alteration, sericitized biotite
										W	W	W	W	S	M/S	M			
										W	W	W	W	S	W	W			
990.0	1005.0	15.0	14.5	6812	.345	.128	.15	.15	1	W	W	W	W	S	W/M & W	W/M & M			-992.0- Qtz Porphyry? - moderate up to 2mm qtz phenocrysts (?) m -994.0- a white soft altered plagioclase matrix. 2nd plag phenocryst Alternating bands of med grained strong argillic, weak-m kspar, weak-strong sec. biotite 5-30% and fine grained moderate to strong kspar altered with minor sec biotite - Breccia zones at between rock types sharp. Gypsum sometimes present along fractures. Finer grained bands not as common.
1005.0	1020.0	15.0	13.0	6813	.230	.120	.15	.25	1	W	W	W	W	S	W/M & W	W/M & M			-1012.0- mainly med grained, stronger k-spar alteration
										M	M	W	W	S	M	M/S			
1020.0	1035.0	15.0	13.0	6814	.110	.100	.15	.30	1	M	M	W	W	S	M	M/S			-1026.5- Increase in altered plagioclase. -1029.0- Crumbly rock - weak k-spar alt, qtz veining and silicification. Med grained, weak sec. biotite in parts mod. Pale yellowish green plagioclase
										W	W	W	W	S	W	W			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P34

DATE COMPLETED _____ PAGE No. 18 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
1035.0	1050.0	15.0	10.0	6815	.107	.100	.2	.2	1	W / M	W / M	W / W	W / W	S / S	M to W / M	W / S		
1050.0	1065.0	15.0	14.0	6816	.095	.110	.2	.3	1	M	M	W	W	S	M	S		
1065.0	1080.0	15.0	15.0	6817	.130	.086	.2	.3	.1	M	M	W	W	S	W to M	W		
1080.0	1095.0	15.0	14.0	6818	.165	.072	.2	.2	1	M / M	M / M	W / W	W / W	S / S	W / M	M / M		

DESCRIPTION

Protore Mixed Qtz Diorite

--1043.0--

Hard, dark colored, hypidiomorphic granular, quartz (40% see k-spar (40-50%) up to 1cm in diameter and see chloritic biotite (5-15%). Often vague brecciation Occ narrow bands of fine grained qtz feld porphyry(?) + fine grained qtz diorite

--1057.0--

Breccia - coarse and fine grained dark colored, qtz diorit with abundant biotite in a fine grained k-spar rich, groundmass.

--1066.0--

Gradational decrease in k-spar-sec biotite alte

-1071.0- bottom of breccia?

Alternating fine (2mm) and medium (5mm) grained + minor sec biotite Breccia?

--1082.0--

Sec biotite becomes common in med grained rock - Breccia(?)

--1087.0--

Generally medium grained with 20% chloritic sec. biotite. Occ. breccia fragments - biotite rich fine grained qtz diorite. Moderate k-spar alteration.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P34

DATE COMPLETED _____ PAGE No. 19 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
1095.0	1110.0	15.0	12.0	6819	.120	.074	.2	.2	1	M	M	W	W	S	M	M		
1110.0	1125.0	15.0	15.0	6820	.145	.110	.15	.15	½	W	W	W	W	S	W	W		
1125.0	1140.0	15.0	15.0	6821	.092	.115	.15	.15	½	W	W	W	W	S	W	W		
1140.0	1155.0	15.0	15.0	6822	.119	.127	.2	.35	1	S	S	W	W	S	W	W		

DESCRIPTION

Protore. - Mixed Qtz Diorite

--1103.0-- bottom of breccia?

--1108.0-- gradational Granodiorite?
Grey, medium grained grained, hypidiomorphic gra... qtz, pale - medium green alt plagioclase and mino... sericitized biotite. Occ minor qtz veining. Occ. fine grained bands generally with sharp, fra... contact with med grained) - breccia feature?
In parts weakly developed sec. k-spar.

--1140.0-- Qtz Diorite
Fine grained, strong qtz veining often brecciated. Plagioclase two types - light green soft and cream white med hard. Irregular bands (breccia?) of. medium grained. Rare sec biotite and k-spar alteration

--1153.0-- Granodiorite
Medium grained as 1108.0 ft.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA I
DIP
AZIMUTH
NORTHING
EASTING
ELEVATION

DATE COLLARED
DATE COMPLETED
LENGTH

HOLE No. P 34
PAGE No. 20 of 20
CORE SIZE

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE NO.	Cu %	MoS2 %	EST. Cu	EST. MoS2 %	EST. FeS2	SILICIFICATION	SERICITIC	FRACTURING & CORE ANG.	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
								4							W	W		Protero- Granodiorite with occasional bleached bands of gtediorite
1155.0	1170.0	15.0	15.0	6823	.105	.177										M		1162.0 — Brecciated granodiorite and gte diorite with moderate k-spar alteration
																		1166.0 — Bleached, medium often approaching coarse grained qtz, pale green - white resinous hypidomorphic granular with trace of scolites (hornblende) magnetite.
1170.0	1183.0	13.0	13.0	6824	.120	.140												1183.0 — End of hole
																		SUMMARY
18.0	315.0	297.0			.071	.013												
315.0	465.0	150.0			.105	.177												
1165.0	1183.0	18.0			.146	.094												
315.0	1183	868.0			.101	.071												

AREA Patton Hill
DIP -90°
AZIMUTH —

NORTHING 22,836,189.2
EASTING 365,651.5
ELEVATION 3937.3

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED Feb 5/70
DATE COMPLETED Feb 18/70
LENGTH 1506.0'

HOLE No. P 35
PAGE No. 1 of 25
CORE SIZE NQ 0.0-633.0 ft
633.0-1506 ft

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
48.0	60.0	12.0	7.0	2330	.040	.003	—	—	—	W	W	W	W	S.	W/M	—		
60.0	75.0	15.0	9.0	2331	.059	.008	—	—	—	W	W	W	W	S	W/M			
75.0	90.0	15.0	8.0	2332	.055	.006	—	—	—	W	W	W	W	S	W/M			
90.0	105.0	15.0	9.0	2333	.080	.017	.03	.03	2	W/M	M	W	M	I	—	—		

DESCRIPTION

Casing - 0 - 48.0.

48.0
49.0 Leached Zone - Granodiorite(?) Light grey, hard, well silicified, porous with orange yellow goerthite and minor FeS_2
- Possible cored sliderock.

Mixed Qtz Diorite - Brown colored fine grained qtz (30-50%) white-pale yellow altered plagioclase and fine sericitized ser(?) biotite. Occ narrow band with fresh chloritized biotite. Biotite in fish-like habit. Moderate fracturing with sericite - goerthitic limonite. Minor qtz veins.
Ser biotite - supergene altered to sericite

72.0 Breccia? - fractured and cemented with limonite
73.0

81.0 - rock becomes more competent.

89.0 Mixed Qtz Diorite - Granodiorite(?) granular
Grey, fine - rarely medium grained (2 mm) qtz, altered plagioclase. Moderate qtz veining and silicification around leached or fresh pyrite stringers.
Occ. strong fracturing cemented with sericite - goerthitic limonite. Fractures leached and fresh pyrite common away from fractures. Rare tourmaline and zeolite (Heulandite?).
Biotite completely altered to sericite. Occ [illegible] qtz veined or silicified bands

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P35

DATE COMPLETED _____ PAGE No. 2 of 25

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION							DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	
105.0	120.0	15.0	15.0	2334	.031	.011	.05	.03	3	W/M	M	W	M	I	—	—	Leached Zone Mixed Qtz Diorite - Granodiorite (?) Scattered up to 3mm euhedral alt. plagioclase - feature mixed qtz diorite. Silicification has poorly defined gray qtz-ser. envelopes. - 110.0 - pyrite along fractures becomes common. Rare cc.
120.0	135.0	15.0	14.0	2335	.098	.008	.15	.03	3	W/M	M	W	M	I	—	—	- 128.0 - occ thin film of cc on pyrite and rare epy.
135.0	150.0	15.0	12.0	2336	.120	.006	.35	.03	3	W/M M	M W/M	W W	M M	I I	— —	— —	Enriched Zone - 133.5 - Alternating bands of mixed qtz diorite and med. grn. fine grained granodiorite (?) does appear to be breccia. Cc replacing epy becomes common. Limonite still common along stronger fractures. - 139.5 - Mixed qtz diorite - strong silicification, poorer cc replacement - result silicification - 145.0 - pyr limonite along fracture and intensity of pyrite vein decreases.
150.0	165.0	15.0	13.0	2337	.085	.006	.2	.03	4	S	W/M	W	M	I	—	—	- 156.0 - limonite along fractures now becomes infrequent

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P35

DATE COMPLETED _____ PAGE No. 3 of 25

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
165.0	180.0	15.0	15.0	2338	.057	.003	.3	.03	3-4	S	W/M	W	W	I	—	1			Enriched zone - Mixed Qtz Diorite -173.0-?- Cpy. become infrequent and cc. not as abundant - mainly thin film on cc. pyrite along fractures. py. grains completely coated with cc.
180.0	195.0	15.0	14.0	6825	.215	.006	.35	.03	3-4	W/M	W/M	W	W	I	—	—			-180.0-?- Cpy with film cc. in matrix becomes common. Weak diss mo ite. Silicification weakens slightly. Occ. coarse cpy assoc with qtz veinlets.
195.0	210.0	15.0	13.5	6826	.280	.006	.35	.05	3-4	W/M	W/M	W	W	I	—	1			
210.0	225.0	15.0	0.5	6827	.220	.003	.2	.03	3	W/M	W/M	W	W	I	—	—			-216.5- Drilling mud, -220.0- Breccia - fine angular fragments - mainly qtz in a dark colored mylonite -221.0 Drilling mud

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 35

DATE COMPLETED _____ PAGE No. 4 of 25

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
225.0	240.0	15.0	3.5	6828	1.20	1.025	.15	.03	3	W/M	W/M	W	W	L	—	—		
240.0	255.0	15.0	11.0	6829	.390	.003	.15 .35	.03 .03	3 3	W	W	W	W	S	—	—		
255.0	270.0	15.0	13.0	6830	.335	.003	.35	.03	3	W M	W M	W W	W M	S H	— —	— —		
270.0	285.0	15.0	14.5	6831	.310	.003	.2	.03	4	M	M	W	M	H	—	—		

DESCRIPTION

Enriched Zone - Mixed Qtz Diorite

Drill mud

234.0 — Cc. mainly along strong fractures - coating py. Limo along fractures not common.

247.0 — Granodiorite(?) Grey hypidiomorphic medium-grain granular qtz (50%) pale green with white kaolinite clay and white chalky altered plagioclase with sericitized biotite books common. Cc common as filmy discs and veinlet pyrite. Rare tourmaline as acicular rosettes and zeolites. Rare limonite on fracture. Decrease in silicification and qtz veining.

Continuous veinlets py not common mainly as crack and disc py.

263.0 — Protore - Mixed Qtz Diorite Silicification, qtz veining and qtz alteration as pyrite. Becomes finer grained, crystal outlines less - intensely altered granodiorite or mixed qtz d... Cc. mainly on strong fractures.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P35
DATE COMPLETED _____ PAGE No. 5 of 25
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
285.0	300.0	15.0	12.0	6832	.335	.003	.25	.03	4	S/M	W	W	M	S	1	1		Protore - Mixed Qtz Diorite -289.5 -- Intense silicification -295.0 - Silicification decreases, occ. film of cc on cpy, on pyrite. Med grained - granodiorite? - med gra pale green - cream colored plagioclase.
										M	W	W	W	S/M	-	-		
300.0	315.0	15.0	13.5	6833	.220	.003	.25	.03	4	M	W	W	W	S/M	-	-		
315.0	330.0	15.0	7.0	6834	.240	.003	.25	.03	4	M	W	W	W	S/M	1	1		
330.0	345.0	15.0	9.0	6835	.170	.006	.25	.03	4	M	W	W	W	S/M	-	-		

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P37

DATE COMPLETED _____ PAGE No. 6 of 25

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
345.0	360.0	15.0	9.0	6836	.200	.006	.25	.03	4	M/S	M/W	W	M	M/S	—	—			Proto ic - Mixed Qtz Diorite(?) — 349.0 — silicification increases — 0.1 pyrite vein with film of cc
360.0	375.0	15.0	5.0	6837	.152	.008	.25	.03	3	M/S	W/M	W	M	M/S	—	—			
375.0	390.0	15.0	7.0	6838	.145	.002	.25	.03	2	M/S	W/M	W	M	M/S	—	—			Cc now not common on fractures and diss cpy — 385.0 — Silicification, qtz veining and q-s alteration decr - mainly present in bands Granodiorite - Grey, medium grained, hypidiomorp granular - generally euhedral plagioclase, qtz 15-20%, white mod soft alt plagioclase and occ sericitic biotite. No tourmaline. Narrow qtz veinlets in weak-mod stockwork. Rare pyrite stringer Cu mineralization better in silicified section - c cpy.
390.0	405.0	15.0	12.0	6839	.182	.002	.2	.03	2-3	W/M	W/M	W	W	M	—	—			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 35

DATE COMPLETED _____ PAGE No. 7 of 25

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
405.0	420.0	15.0	13.0	6840	.161	.610	.2	03	2-3	M/S	W/M	W	W	M	1	1		Pipotite - Granodiorite ~412.0 - Silicification decreases - generally in bands up to 5ft in length - strong silicification - strong argillic alt. to plag'oclase
										W	W	W	W	M	-	-		
420.0	435.0	15.0	14.0	6841	.093	.002	.2	.01	2-3	W	W	W	W	M	-	-		~423.0 Strong silification ~428.0
435.0	450.0	15.0	14.5	6842	.122	.025	.2	.01	2-3	W/M	W/M	W	W/M	M/S	1	1		
450.0	465.0	15.0	14.5	6843	.100	.002	.2	.01	2-3	W/M	W/M	W	W/M	M/S				~451.0 - fractured contact - 45° Qtz-feldspar Porphyry - scattered qtz and feldspar phenocrysts in brown aphanitic matrix. Scattered pyrite. ~453.0 - chill contact - 80° ~455.0 - bottom contact? - cc film on pyrite - diss. and fracture. Tourmaline in fractures and diss

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P35

DATE COMPLETED _____ PAGE No. 3 of 25

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
465.0	480.0	15.0	15.0	6844	.127	.002	.2	.01	2-3	W/M	W/M	W	W/M	M/S	1	1		
							.1	.01	1	M	W	W	W	W/M	—	—		
480.0	495.0	15.0	8.0	6845	.090	.002	.1	.01	1	M	W	W	W	W/M	—	—		
495.0	510.0	15.0	13.6	6846	.100	.008	.1	.01	1	M	W	W	W	W/M	—	1		
									2	S	W/M	W	W/M	W/M	—	—		
510.0	525.0	15.0	13.7	6847	.139	.002	.1	.01	2	S	W/M	W	W/M	W/M	—	—		
									1	S/M	W	W	W	S	—	—		

DESCRIPTION

Protore - Granodiorite

-471.0-

Granodiorite - Grey black speckled, med-coa (5mm) hypidiomorphic granular qtz(50-60% pale-dark green often with white rim altere plagioclase and ragged chloritic book biotite (10-15% - primary?) Strong silicification Occ gypsum along fracture. Primary k-spar Poorly developed fine pyrite stockwork.

-500.0-

Stronger silicification and qtz-ser alteration - biot often sericitized - black biotite 5%. Plagioclase generally dark green and soft - montmor, illaite

-515.0- 0.2 ft round fine grained qtz diorite fragment -

-521.0- Plagioclase (?) - hard with cloudy appearance - k spar or weaker alteration, biotite more common - less alteration in euhedral book.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
525.0	540.0	15.0	14.2	6848	.090	.002	.1	.01	1	S	W	W	W	W	—	—			Protore - Granodiorite ~530.0~ rounded 0.2 ft fragment fine grained-qtz dio breccias. ~534.0~ Strong silicific biotite - often lathlike suggests altered hornblende. Plagioclase show weak striations w/ slight green tinge centers and white rims
540.0	555.0	15.0	13.7	6849	.100	.008	.1	.01	1	S	W	W	W	W	—	—			
555.0	570.0	15.0	14.3	6850	.180	.002	.1	.01	1	S	W	W	W	W	—	—			fine grained ~555.5~ 0.05 ft qtz diorite rounded fragment - breccia ~559.0~ - as above
570.0	585.0	15.0	13.1	6851	.140	.002	.15	.01	1	S	W	W	W	M					~571.0~ - slightly stronger alteration - plagioclase pale med-dk green ~574.0~ - 0.2 ft rounded fine grained qtz diorite ~582.0~ - 0.2 ft rounded qtz diorite fragment breccias - Gradational over 1 ft to stronger alteration resinous and chalky, plagioclase as sericitized ghost
										S	W	W	W	S					

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SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
585.0	600.0	15.0	14.0	6852	.120	.006	.1	.02	1	S/M	W	W	W	S	-	-		Protore - Granodiorite
600.0	615.0	15.0	14.1	6853	.218	.003	.1	.02	1	S/M M S/M	W W W	W W W	W W W	S W W/M	- - -	- - -		-604.0- Alteration decreases - med green soft (50%) and hard cloudy white plagioclase. -607.0- Plagioclases soft pale - med green - Part - complete sericitized biotite
615.0	630.0	15.0	12.6	6854	.165	.031	.1	.02	1	S/M S/M	W W	W W	W W	W/M S W/M	- -	- -		-621.5- Strong alteration in plagioclase - chalky - biotite sericitized -628.5 Weaker alteration - plagioclase pale green & moderately he
630.0	645.6	15.0	13.8	6855	.210	.006	.1	.02	1	S/M				W/M				-633.0 NQ BQ -635- Biotite almost sericitized and dark green alt plagioc

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SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
645.0	660.0	15.0	13.7	6856	.240	.003	.1	.02	1	M	W	W	W	W/M	—	—		Proton - Granodiorite 15% Dark green plagioclase - 50%. Inconspicuous silicification and qtz-sericite alteration better developed plagioclase become white and chalky.
660.0	675.0	15.0	14.4	6857	.280	.003	.1	.02	1	M	W	W	W	W/M	—	—		
675.0	690.0	15.0	13.6	6858	.170	.003	.1	.02	1	M	W	W	W	W/M				
690.0	705.0	15.0	13.3	6859	.540	.031	.1	.02	1	M	W	W	W	W/M				

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SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
705.0	720.0	15.0	12.8	6860	.220	.008	.1	.02	1	M/W	W	W	W	M	—	—		705.0 Protovc - Granodiorite Stronger alteration, biotite completely sericitized and plagioc pale green to white and soft
720.0	735.0	15.0	14.3	6861	.185	.003	.1	.02	1	M/W	W	W	W	M	—	—		729.0 Abundant dark green altered plagioclase 731.0 734.0 Abundant dark green altered plagioclase
735.0	750.0	15.0	13.8	6862	.220	.003	.2	.04	2	M	W	W	W	M	—	—		737.0 Stronger silicification, tourmaline as veinlets and diss common. Improving cpy and molte
750.0	765.0	15.0	14.1	6863	.230	.003	.15	.02	1	W to M	W	W	W	W	—	—		755.0 Weakening alteration - dark green. soft. alt plagioclo Calcareous fractures common.

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SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
765.0	780.0	15.0	14.5	6864	.140	.003	.2	.02	1-2	S.	W	W	W	W/M	-	I		
780.0	795.0	15.0	9.6	6865	.270	.003	.2	.02	1-2	S	W	W	W	W/M				
									2	I	W	W	W	M	-	-		
795.0	810.0	15.0	12.5	6866	.130	.006	.2	.02	2	I	W	W	W	M	-	-		
810.0	825.0	15.0	13.8	6867	.130	.003	.25	.02	2	S	W	W	W	S	-	-		

Pretore - Granodiorite

--768.0 - silicification increases - slightly better mineralization

--791.0 - one dark green.

Fractured, in parts brecciated, pale green and white altered plagioclase and sheared dark green chloritic biotite wrapped around qtz grains. Intense silicification

--800.0 - 0.2 ft rounded fine grained qtz diorite fragment.

--814.5 - Abundant up to 10 mm. chloritized biotite (altered hornblende)

--817.5 - Strong altered - pale green - white chalky plagioclase biotite completely altered. Coarse cpy and moly ass with qtz veinlets sometimes

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SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
825.0	840.0	15.0	13.7	6868	.220	.003	.1	.02	1-2	S / S	W / W	W / W	W / W	S / W/M	1 / 1	1 / 1		
840.0	855.0	15.0	14.4	6869	.156	.003	.1	.02	1-2	S	W	W	W	W/M	—	—		
855.0	870.0	15.0	14.5	6870	.245	.003	.1	.02	1-2	S / T	W / W	W / W	W / W	W/M / S	— / —	— / —		
870.0	955.0	15.0	14.6	6871	.119	.003	.1	.02	1-2	S / S	W / W	W / W	W / W	S / M				

Pretore - Granodiorite

830.0 — Alteration weakens - dark colored, pale - dark green plagioclase and abundant chloritized biotite (hornBiotite secondary? appears to be primary. Core highly fractured and recemented together Occ. slightly better altered bands.

840.0 - 2 rounded 0.2 ft fragments. fine grained qtz dior

866.0 — Intense silicification and strong argillic alteration. C fine breccia fragment.

871.5 — Qtz. Diorite? (breccia) Very fine grained granular qtz and strongly altered plagioclase

881.0 — Dark green plagioclase - biotite absent or very m

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SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
885.0	900.0	15.0	14.1	6872	.157	.003	.1	.02	1-2	S	W	W	W	M	–	–		
900.0	915.0	15.0	14.2	6873	.190	.003	.1	.02	1	S/M	W	W	W	M/S	–	–		
915.0	930.0	15.0	13.1	6874	.100	.003	.1	.02	1	M/S	W	W	W	M/S	–	–		
930.0	945.0	15.0	14.7	6875	.270	.003	.1	.02	1	S/M	W	W	W	M	–	–		

	S	W	W	W	M	–	–		
	S/M	W	W	W	M/S	–	–		

DESCRIPTION

Picture – Granodiorite

--840.0 – 0.2 ft round fragment fine grained qtz diorite

--897.0 – Stronger alteration – pale green – occ dark green coft altered plagioclase. Biotite varies from white sericitized to dark green book chloritic biotite (1. (may be see wherever sericitized is primary?) Minor hematite

--915.0 – 0.2 ft rounded fragment fine grained qtz diorite

--930.5 – 0.2 ft rounded fragment fine grained qtz diorite Biotite generally sericitized. Dark green plagioclase more common

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SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
945.0	960.0	15.0	14.2	6876	.149	.003	.1	.02	1	M/W	W	W	W	M	—	—		Pretore Granodiorite 955.0 — 0.3 Ft rounded fragment of fine grained qtz diorite. Dark green altered plagioclase common. Black and sericitized biotite
										M/W	W	W	W	W/M	—	—		
960.0	975.0	15.0	14.5	6877	.168	.003	.1	.02	1	M/W	W	W	W	M/S	—	—		960.0 — Pale green - cream white soft. Minor fresh chl. bio abundant sericitized biotite. 966.5 — Med - dark green plagioclase, Biotite completely sericitized. Abundant bleached zeolite - (heulandite)
										M/W	W	W	W	W/M	—	—		
975.0	990.0	15.0	14.0	6878	.130	.002	.1	.02	1	M/W	W	W	W	M	—	—		972.0 — Med - pale green, altered plagioclase - weak fine diss chl. biotite books (primary? - secondary??) + sericitized biotite (10%) 982.0 — Pale green soft plagioclase. Stronger silicification. Scattered fine chl biotite and abundant (10%) sericitized biotite
										M	W	W	W	S/M	—	—		
990.0	1005.0	15.0	15.0	6879	.128	.002	.1	.02	1	M	W	W	W	S/M	—	—		998 — Dark colored Med - dark green plagioclase. Fine square shaped chloritic biotite. Occ narrow slightly bleached altered plagioclase.
										W	W	W	W	W/M	—	—		

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1005.0	1020.0	15.0	14.6	6880	.090	.005	.1	.02	1	W/M	W	W	W	M	–	–			Pale-med green plagioclase with scattered euhedral hexagonal shaped chloritic biotite in more silicified section completely sericitized.
										W/M	W	W	W	W/M	–	–			1008.0 – 1014 – plagioclase slightly darker-med-dark green in bands up to 2 ft. wide. Biotites generally sericitized. Darker color to plagioclase may be montmorillonite or green sericite
1020.0	1035.0	15.0	14.7	6881	.140	.027	.15	.02	1	W/M	W	W	W	M	–	–			1024 – 0.7 ft. fine grained strongly altered breccia(?) fragment with abundant pyrite. – 3%
1035.0	1050.0	15.0	14.6	6882	.115	.025	.15	.02	1	W/M	W	W	W	M	–	–			1044.0 – 1044.2 ft. gtz-abundant feldspar porphyry – breccia fragment
																			1047.0 – Dark green plagioclase common.
1050.0	1065.0	15.0	14.4	6883	.085	.002	.15	.02	1	W/M	W	W	W	M	–	–			

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1065	1080.0	15.0	14.6	6884	.095	.003	.15	.02	1	W/M	W	W	W	M?	—	—			Protore - Granodiorite
1080.0	1095.0	15.0	14.7	6885	090	.005	.15	.02	1	W/M	W	W	W	M	—	—			-1081.0- Dark green plagioclase abundant.
1095.0	1110.0	15.0	15.0	6886	.065	.019	.15	.02	1	W/M	W	W	W	M	—	—			-1098.0- rounded fragment 0.1ft fine grained gte diorite --1103.0- rounded fragment fine grained gte diorite --1105.0- as above
1110.0	1125.0	15.0	14.6	6887	.035	.003	.15	.02	1	W/M	W	W	W	W	—	—			----1095--- Grey, biotite speckled, weakly altered - plag. pale green-white - hard and 1% biotite (10%) c appears pseudomorphic after. with.
																			--1123.0-- See next page.

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SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
1125.0	1140.0	15.0	14.7	6888	.105	.005	.15	.02	1	W W	W W	W W	W W	W/M M/S	– –	– –		Piotove - Granodiorite Dark green - gradually becoming light green with chl bio partially sericitized. – 1128.5 – gradational. – – –

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1185.0	1206.0	15.0	14.8	6892	.027	.002	.1	.02	1	W M M	W W W	W W W	W W W	W W-M S	– – –	– – –			Protore – Granodiorite --1192.0-- Transitional – bands with cream white, soft plagioclase. --1197.5-- Cream white resinous, soft plagioclase and sericitized biotite. Occ. medium green altered plagioclase and fine chloritized biotite. Zeolites (heulandite) common. Pale green-altered biotite??
1200.0	1215.0	15.0	14.7	6893	.639	.002	.15	.02	2	M	W	W	W/M	S	–	–			
1215.0	1230.0	15.0	14.8	6894	.023	.002	.15	.02	2	M	W	W	W/M	S	–	–			
1230.0	1245.0	15.0	14.7	6895			.15	.02	2	M	W	W	W/M	S	–	–			--1243.0-- See next page

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1245.0	1260.0	15.0	14.8				.15	.02	2	W/M	W	W	W	M/S	—	—			Protore - Granodiorite -1250.6- Drilling mud. -1252.6- Pale-medium grain plagioclase and chl biotite become more common. Slightly sheared. Background speckling - plag and/or sericitized chloritic biotite: Zeol (Heulandite) common.
1260.0	1275.0	15.0	13.9				.15	.02	2	W/M	W	W	W	M/S					-1266.0 Drilling mud. -1268.0
1275.0	1290.0	15.0	9.5				.15	.02	2	W/M	W	W	W	M/S					-1281.0- Fine breccia in mylonite.
1290.0	1305.0	15.0	14.8				.15	.02	2	W/M	W	W	W	M/S					

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SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
1305.0	1320.0	15.0	14.5				.15	.02	2	W/M	W	W	W	M/S	—	—		
1320.0	1335.0	15.0	14.3				.15	.02	2	W/M	W	W	W	M/S	—	—		
1335.0	1350.0	15.0	14.5				.15	.02	2	W/M	W	W	W	M/S	—	—		
1350.0	1365.0	15.0	14.5				.15	.02	2	W/M	W	W	W	M/S	—	—		

DESCRIPTION

Pictofe - Granodiorite

-1355.0 - Increasing chloritized biotite. Pyrite preferentially replaces biotite as weak speckling. Plagioclase still white resinous and soft.

-1 - 0.1 ft breccia fragment fine grained qtz diorite

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1365.0	1380.0	15.0	14.6				.15	.02	2	W/M	W	W	W	M/S	—	—			Protore — Granodiorite -- chloritic biotite weakens.
1380.0	1395.0	15.0	14.8				.15	.02	2	W/M	W	W	W	M/S					
1395.0	1410.0	15.0	14.8				.15	.02	2	W/M	W	W	W	M/S					
1410.0	1425.0	15.0	14.5				.15	.02	2	W/M	W	W	W	M/S					-- 1420.5 -- 0.5 ft fragment of fine grained qtz. diorite

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P35

DATE COMPLETED _____ PAGE No. 24 of 25

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1425.0	1440.0	15.0	14.3				.15	.02	2	W/M	W	W	W	M/S					Protore - Granodiorite -1432.6 Breccia with mylonite in upper 1ft. Remainder highly fractured -1439.0
1440.0	1455.0	15.0	14.5				.15	.02	2	W/M	W	W	W	M/S					
1455.0	1470.0	15.0	14.7				.15	.02	2	W/M	W	W	W	M/S					--1463.0 - 0.5 ft rded fragment f.m.grained qtz diorite --1468.0 Dark green plagioclase and chloritized biotite and chloritized biotite becomes more common
1470.0	1485.6	15.0	14.7				.1	.02	1	W/M	W	W	W	M					-1473.0 - 0.1 ft rounded fragment fine grained qtz diorite --1476.5 - 0.2 ft rounded fragment fine grained quartz diorite often pale green core and dark green rim to plagioclase in bands up 2 ft

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P35

DATE COMPLETED _____ PAGE No. 25 of 25

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
1485.0	1500.0	15.0	4.0				.1	.02	1	W/M	W	W	W	M	-	-		
1500.0	1506.0	6.0	5.0				.1	.02	1	W/M	W	W	W	M	-	-		

DESCRIPTION

Pioture - Granodiorite

1506.0 End of hole

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Dalton Hill
DIP -90°
AZIMUTH

NORTHING 22,836,491.5
EASTING 365,375.5
ELEVATION 3976.1

DATE COLLARED Jan 9/70
DATE COMPLETED Feb 4/70
LENGTH 1200.0 ft

HOLE No. ~~L-38~~ ~~E-33~~ P 3
PAGE No. 1 of 20
CORE SIZE ND-6.0 - 1200.

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
43	60	17.0	13.0	25-55	.030	.002				+++		++	++						LEACHED ZONE - QTZ PORPHYRY? bleached - dk brown limonite on fractures strongly fractured
60	75	15.0	13.0	25-55	.029	.002				++		++	++						bleached - - - - - -
75	90	15.0	10	25-56	.026	.002													bleached - - - - - broken & rubbly
90	105	15.0	14.0	25-57	.025	.008													bleached - - - - -

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. ~~P36~~ ~~P33~~ P5
DATE COMPLETED _____ PAGE No. 2 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
105	120	15	15	2558	.030	.020			0.5	+++		+	++						LEACHED ZONE - QTZ PORPHYRY? Leached, limonite staining by wks + strongly fractured Brecciated
120	135	15	15.0	2559	.059	.012			0.5	+++		+	++						
135	150	15	15.0	2560 & 2561	.228	.018			0.5	+++		+	++						
150	165	15	15.0	2562	.360	.045			0.5	+++		+	++						

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P36 P3
DATE COMPLETED _____ PAGE No. 3 of 10
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
165	180	15.0	15.0	2563	.158	.016			0.5	+++			++					LEACHED ZONE - QTZ PORPHYRY ? bleached, a.h. pale
180	195	15.0	13.0	2564	.396	.019			0.5	+++			++					ENRICHED ZONE ~ QTZ PORPHYRY ~~fracture zone ends 190 and~~ ~~limonite ceases by end.~~
195	210	15.0	15.0	2565	.560	.019			1.0	++			+	+				
210	225 ~~215~~	15	15.0	2566	.700	.021			1.0	+++			+	+				

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. ~~P-36~~ P33

DATE COMPLETED _____ PAGE No. 4 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
225 ~~215~~	240 ~~230~~	15.0	14.0	2567	.460	.031			1.0	+++			+	++	+				ENRICHED ZONE - QTZ PORPHYRY becoming more mafic
240 ~~230~~	255 ~~245~~	15.0	14.0	2568	.310	.002			1.5				+	+ ~~++~~	++				MIXED QTZ DIORITE mid green
255 ~~245~~	270 ~~260~~	15.0	14.0	2569	.271	.002			1.5				+	+ ~~++~~	++				
270 ~~260~~	285 ~~275~~	15.0	14.0	2570	.280	.002			2.0				+	+ ~~++~~	++				

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. ~~P36~~ P33
DATE COMPLETED _____ PAGE No. 45 of 20
LENGTH _____ CORE SIZE _____

P3

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
285 ~~275~~	300 ~~290~~	15.0	14.0	2571	.238	.002	0.2		1.5	+			++	++	+				ENRICHED ZONE - MIXED QTZ DIORITE colour changes from green to white
300 ~~290~~	315 ~~305~~	15.0	15.0	2572	.315	.018	0.2		1.0	+			+++	++					white
315 ~~305~~	330 ~~320~~	15.0	15.0	2573	.192	.009	0.3		1.0				+++	++					PROTORE ZONE - MIXED QTZ DIORITE
330 ~~320~~	345 ~~335~~	15.0	15.0	2574	.135	.021	0.3		1.0	+			+++	++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P36 ~~P33~~

DATE COMPLETED _____ PAGE No. 6 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
345 ~~335~~	360 ~~350~~	15.0	15.0	3575	.139	.019	0.2	0.01	1.0				+++	++					PROTORE ZONE - MIXED QTZ DIORITE
360 ~~350~~	375 ~~365~~	15.0	15.0	3576	.265	.010	0.2	0.01	1.0				+++	++					tr. cc cacking pyrite
375 ~~365~~	390 385	15.0	15.0	3577	.138	.018	0.2	0.02	1.0				+++	++					
390 380	405 ~~395~~	15.0	15.0	3578	.115	.018	0.2	0.02	1.0				+++	++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. ~~P36~~ ~~P35~~ P3

DATE COMPLETED _____ PAGE No. 1 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
405 ~~395~~	420 ~~410~~	15.0	15.0	2579	.230	.059	0.2	0.0%	1.0				+++	-					PROTORE ZONE - MIXED QTZ DIORITE 3" qtz vein with coarse moly @ 407
420 ~~410~~	435 ~~425~~	15.0	15.0	2580	.440	.039	0.2	0.0%	1.0				++	+++					
435 ~~425~~	450 ~~440~~	15.0	15.0	2581	.255	.019	0.2	0.0%	1.0										
450 ~~440~~	465 ~~455~~	15.0	15.0	2582	.355	.015	0.3	0.0%	1.0				++	++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. ~~L56~~ P3 ~~P33~~

DATE COMPLETED _____ PAGE No. 8 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
465 ~~441~~	480 ~~460~~	15.0	15.0	2583	.225	.017	0.3	0.02	1.0				++	+++					PROTORE ZONE – MIXED QTZ DIORITE
480 ~~460~~	495 ~~475~~	15.0	15.0	2584	.205	.004	0.3	0.02	1.0				++	+++					
495 ~~475~~	510 ~~490~~	15.0	15.0	2585	.230	.004	0.3	0.02	1.0				++	+++					
510 ~~490~~	525 ~~505~~	15.0	15.0	2586	.310	.038	0.3	0.02	1.0				++	+++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P3 ~~P37~~ T36

DATE COMPLETED _____ PAGE No. 9 of ~~20~~

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
525 ~~505~~	540 ~~520~~	15.0	15.0	2587	.330	.021	0.2	0.01	1.0				+	++					PROTORE ZONE - MIXED QTZ DIORITE
540 ~~520~~	555 ~~535~~	15.0	15.0	2588	.265	.017	0.2	0.02	1.0				++	++					
555 ~~535~~	570 ~~550~~	15.0	15.0	2588	.265	.017	0.2	0.02	1.0				++	++					
570 ~~550~~	585 ~~565~~	15.0	15.0	2589	.275	.014	0.3	0.02	1.0				++	++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. 136 (S)

DATE COMPLETED _____ PAGE No. 10 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
585 ~~595~~	600 ~~600~~	15.0	15.0	2590	.270	.043	0.2	0.02	1.0				++	++					PROTORE ZONE - MIXED QTZ DIORITE
600 ~~600~~	615 ~~615~~	15.0	15.0	2591	.240	.021	0.2	0.02	1.0				++	++					
615 ~~615~~	630 ~~630~~	15.0	15.0	2592	.170	.100	0.2	0.02	1.0				++	++					
630 ~~630~~	645 ~~645~~	15.0	15.0	2593	.328	.035	0.2	0.02	1.0				++	++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. ~~DDH R35~~

DATE COMPLETED _____ PAGE No. 11 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
695 ~~675~~	660 ~~660~~	15.0	15.0	25-94	.200	.010	0.2	0.02	1.0				++	++					PROTORE ZONE - MIXED QTZ DIORITE
660 ~~660~~	675 ~~675~~	15.0	15.0	2595	.200	.015	0.2	0.02	1.0				++	++					
675 ~~675~~	690 ~~690~~	15.0	15.0	25-96	.250	.018	0.2	0.03	1.0				++	++					
690 ~~690~~	705 ~~705~~	15.0	15.0	2597	.225	.021	0.2	0.03	1.0				++	++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. 236 P3

DATE COMPLETED _____ PAGE No. 12 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
705 ~~685'~~	720 ~~700~~	15.0	15.0	2598	.221	.008	0.3	0.03	1.0				++	++					PROTORE ZONE - MIXED QTZ DIORITE
720 ~~700~~	735 ~~715'~~	15.0	15.0	2599	.260	.018	0.3	0.03	1.0				++	++					
735 ~~715'~~	750 ~~730~~	15.0	15.0	2600	.460	.047	0.3	0.03	1.0				++	++					
750 ~~730~~	765 ~~745'~~	15.0	15.0	2601	.420	.043	0.3	0.03	1.0				++	++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P36 ~~P33~~

DATE COMPLETED _____ PAGE No. 13 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
765 ~~745~~	780 ~~760~~	15	15	2602	.300	.034	0.4	0.03	1.0				++	++					PROTORE ZONE - MIXED QTZ DIORITE
780 760	795 ~~775~~	15	15	2603	.260	.037	0.4	0.03	1.0				++	++					
795 ~~775~~	810 ~~790~~	15	15	2604	.375	.057	0.4	0.03	1.0				++	++					
810 ~~790~~	825 ~~805~~	15	15	2605	.200	.039	0.4	0.04	1.0				++	++					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. ~~P36~~ ~~P37~~ P36

DATE COMPLETED _____ PAGE No. 14 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
825 ~~825~~	840 ~~840~~	15.0	15.0	2606	.240	.029	0.4	0.04	1.0	+			+	++					PROTORE ZONE - MIXED QTZ DIORITE
840 ~~840~~	855 ~~855~~	15.0	15.0	2607	.282	.031	0.4	0.04	1.0	++			+	++					
855 ~~855~~	870 ~~870~~	15.0	15.0	2608	.355	.039	0.4	0.04	1.0	++			+	++	+				
870 ~~870~~	885 ~~885~~	15.0	15.0	2609	.392	.039	0.3	0.03	1.0				+	++	+				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. 138-155
DATE COMPLETED _____ PAGE No. 15 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
885 ~~865~~	900 ~~880~~	15.0	15.0	2610	.358	.051	0.3	0.03	1.0	++			+	+	+			
900 ~~880~~	915 ~~895~~	15.0	15.0	2611	.180	.018	0.3	0.03	1.0	++			+	+	+			
915 ~~895~~	930 ~~910~~	15.0	15.0	2612	.340	.021	0.3	0.03	1.0	++			+	+	+			
930 ~~910~~	945 ~~925~~	15.0	15.0	2613	.295	.023	0.3	0.03	1.0	++			+	+	+			

DESCRIPTION

PROTORE ZONE - MIXED QTZ. DIORITE

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. ~~L36P~~ P

DATE COMPLETED _____ PAGE No. 16 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
945	960	15	15	2614	.198	.018	0.3	0.03	1.0	++			+	+	+				PROTORE ZONE – MIXED QTZ DIORITE
960	975	15	15	2615	.250	.023	0.2	0.03	1.0	++			+	+	+				
975	990	15	15	2616	.365	.041	0.2	0.03	1.0	++			+	+	+				
990	1005	15	15	2617	.160	.008	0.2	0.03	1.0	++			+	+	+				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. 136 ~~P3~~
DATE COMPLETED _____ PAGE No. 17 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1005 ~~985~~	1020 ~~1000~~	15.0	15.0	2618	.162	.023	0.2	0.03	1.0	++			+	+	+				PROTORE ZONE - MIXED QTZ DIORITE
1020 ~~1000~~	1035 ~~1015~~	15.0	15.0	2619	.180	.017	0.2	0.03	1.0	++			+	+	+				
1035 ~~1015~~	1050 ~~1030~~	15.0	15.0	2620	.170	.025	0.2	0.02	1.0	++			+	+	+				
1050 ~~1045~~	1065 ~~1045~~	15.0	15.0	2621	.148	.019	0.2	0.03	1.0	++			+	+	+				

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. ~~236~~ ~~P3~~

DATE COMPLETED _____ PAGE No. 18 of 2c

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1065 ~~1045~~	1080 ~~1060~~	15.0	15.0	2622	.215	.015	0.3	0.02	1.0	++			T	T	+				PROTORE ZONE - MIXED QTZ DIORITE
1080 ~~1060~~	1095 ~~1075~~	15.0	15.0	2623	.180	.023	0.3	0.02	1.0	++			+	+	+				
1095 ~~1075~~	1110 ~~1090~~	15.0	15.0	2624	.107	.015	0.3	0.02	1.0	++			+	+	+				
1110 ~~1090~~	1125 ~~1105~~	15.0	15.0	2625	.170	.015	0.3	0.02	1.0	++			+	T	+				

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. C36 ~~P3~~
DATE COMPLETED _____ PAGE No. 19 of 20
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1125 ~~1105~~	1140 ~~1120~~	15.0	15.0	2626	.200	.019	0.2	0.02	1.0	+			+	+	+				PROTORE ZONE - MIXED QTZ DIORITE
1140 ~~1120~~	1155 ~~1135~~	15.0	15.0	2627	.212	.042	0.2	0.02	1.0	+			+	+	+				
1155 ~~1135~~	1170 ~~1150~~	15.0	15.0	2628	.220	.017	0.2	0.02	1.0	+			+	+	+				
1170 ~~1150~~	1185 ~~1165~~	15.0	15.0	2629	.240	.019	0.2	0.02	1.0	+			+	+	+				

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. 136 F

DATE COMPLETED _____ PAGE No. 20 of 20

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1185 1165	1200 1180	15	15	2630 END	.300	.615	e.2	e.02	1.0	++			+	+	+				PROTORE ZONE - MIXED QTZ DIORITE 1200 0 - End of hole
~~1180~~	~~1195~~	~~15~~	~~15~~							++			+	+	+				
~~1195~~	~~1200~~	~~5~~	~~5~~				e.2	e.02	1.0	++			+	+	+				
						ASSAY SUMMARY													
43.0	150.0	107.0			.061	.009													
150.0	315.0	165.0			.368	.016													
315.0	1200.0	885.0			.248	.025													
150.0	1200.0	1050.0			.267	.024													

AREA Patton Hill
DIP -90°
AZIMUTH —

NORTHING 22,836,440.7
EASTING 366,500.1
ELEVATION 3833.0

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED Feb 12/70
DATE COMPLETED Feb 28/70
LENGTH 948.0 ft

HOLE No. P37
PAGE No. 1 of 16
CORE SIZE NQ 0-948.0

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
																			Leached Zone - Mixed Qtz Diorite
50.0	60.0	10.0	4.0	5014	.050	.002	.03	.01	—	W	W	W	W	W	S				48.0 - 1.0 ft sand 50.0 Fresh. 52.0 Light colored, fine grained hypidiomorphic - allotriomorphic (when intensely altered) qtz (40%) and cream colored soft plagioclase. Narrow bands where altered is not as intense and biotite is present. Weak goethitic limonite. Rare sooty cc.
60.0	75.0	15.0	4.0	5015	.040	.002	.03	.01	—	W	W	W	W	W	S				
																			73.0 Enriched Zone - Mixed Qtz Diorite
75.0	90.0	15.0	4.9	5016	.125	.017	.6	.02	½	W	W	W	W	W	I				Light colored, fine grained, intense alteration to very fine grained qtz-sericite (5). Cc dusting on pyrite and probable complete replacement of cpy. Minor blood'ed hematite.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P37

DATE COMPLETED _____ PAGE No. 2 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
90.0	105.0	15.0	6.5	5017	.245	.020	.6	.02	1-2	W	W	W	W	I	—	—		
105.0	120.0	15.0	7.4	5018	.620	.015	.45	.02	1-2	W	W	W	W	S.	—	—		
120.0	135.0	15.0	4.2	5019	1.200	.041	.4	.02	1	W	W	W	W	M	—	—		
									2	W	W	W	W	M/S	—	-		
135.0	150.0	15.0	4.7	5020	.501	.023	.4	.02	2	W	W	W	W	M/S	—	-		
									1	W	W	W	W	M	—	—		

DESCRIPTION

Enriched Zone - Mixed Qtz. Diorite

-95.0- Fresh pyrite becomes more abundant and cc. form thin layer on cpy. Goethite not common. Yellow jarosite often forms halo around pyrite. Cc. coating py common along fracture.

100.0 - 0.5 ft medium grad (2-3mm) with book of sericitized biotite - breccia fragment? or altered feature.

107.0 - Alteration intensity decreases as sub-euhedral 2-3 mm plagioclases and dark green altered biotite speckling becomes prominent. Occ. fine grained intensely altered narrow bands. Mineralization weaker in medium grained. Sericitized biotite (tough) bottom become more prominent. Pale green plagioclase more common. Intensity of alteration gradually decreasing towards bottom.

118.0 - Breccia? Hypidiomorphic granular, fine-medium grained soft white sub-anhedral altered plagioclase and 1.5 ragged book weakly chloritic biotite. Weaker mineral Cc not very prominent except along fracture coating py

127.0 - Biotite hereafter weakly disseminated, mineralization improves with stronger alteration. Some coarse cc along fractures. In parts intense alteration

-148.0- Abundant thin ragged book chloritic biotite. Weak mine Breccia?

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. D37

DATE COMPLETED _____ PAGE No. 3 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
150.0	165.0	15.0	6.6	5021	.740	.018	.4	.04	2	W	W	W	W	M	—	—			Enriched Zone - Mixed Qtz Diorite 158.0 - gradational contact / Protore - Mixed Qtz Diorite Intensely altered. Moly common. Cp not very c Rare goethite 160.5 - contact ground Chloritized biotite abundant - Breccia 164.0 - contact ground —
165.0	180.0	15.0	8.7	5022	.455	.103	.45	.05	3	W	W	W	W	I	—	—			167.0 Three up to 1 ft rounded fragment of fine grained, abundant dark-med green sericitized biotite 170.0
180.0	195.0	15.0	7.1	5023	.600	.117	.45	.05	3	W	W	W	W	I	-	—			178.5 Rounded up to 1 ft. fragments of hypidiomorphic medium grained, cream altered plagioclase and abundant pale greenish sericitized biotite. Distr approximately 2 per 5 ft. Groundmass is allotriomorphic intensely altered plagioclase and quart weak-rare sericitized biotite present. Strong mineral Moly common along fine crack and disseminated. Fragments generally poorly mineralized
195.0	210.0	15.0	6.2	5024	.385	.023	.35	.03	2	W	W	W	W	S	-	—			Alteration weaker - less silicification with weakening cpy and moly mineralization. Breccia fragments incre sericitized biotite often present

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P37

DATE COMPLETED _____ PAGE No. 4 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
210.0	225.0	15.0	10.0	5025	.315	.029	.35	.03	2	W	W	W	W	S	–	–			Protore – Mixed Qtz Diorite -218.0- Up to 5ft. breccia fragments. Weaker mineralization. Sericitized biotite common. Fragments and black breccia have distinctive coarser grained texture and spotting of purple sericitized biotite Slickenside (horizontal) fractures.
							.3	.02	1-2	W	W	W	W	S	–	–			
225.0	240.0	15.0	10.1	5026	.270	.025	.3	.02	1	W	W	W	W	S ≥ W/M	–	–			-234.0 - Numerous well packed fragments - up to 5ft. Mat. generally well mineralized. Smaller fragments generally more abundant
240.0	255.0	15.0	9.5	5027	.680	.055	.3	.05	1	W	W	W	W	S ≥ W/M					
255.0	270.0	15.0	13.5	5028	.270	.029	.25	.03	1	W	W	W	W	S ≥ W/M					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P37

DATE COMPLETED _____ PAGE No. 5 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
270.0	285.0	15.0	14.8	5029	.270	.029	.35	.05	1-2	W	W/M	W	W	W/M ∠ S.	-	—		
285.0	300.0	15.0	14.1	5030	.640	.044	.35	.05	1-2	W	W/M	W	W	W/M ∠ S.				
300.0	315.0	15.0	13.9	5031	.280	.055	.25	.02	1	W	W/M	W	W	W/M ∠ S.				
315.0	330.0	15.0	12.7	5032	.300	.029	.35	.02		W	W	W	W	M				

Pretore - Mixed Qtz Diorite

Fine qtz veining with mafic common. Groundmass often slightly weaker alteration (pale-med green) and sericite biotite more common. Zeolites (heulandite?) common groundmass. Occ. fracture with slickenside.

-306.0 - - -

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP. _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P37
DATE COMPLETED _____ PAGE No. 6 of 16
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
330.0	345.0	15.0	11.5	5033	.345	.035	.3	.02	1	W	W	W	W	W to S	—	—			Protore - Mixed Qtz. Diorite - Breccia Blocks of dark colored fine grained slight porphyritic diorite with qtz, weakly altered plagioclase (50%) and biotite (10-15%) in length from 2-10 ft. Throughout up to 0.3 ft better altered with scattered biotite (same rock type). Matrix between fragment is a 5 ft, strongly altered qtz diorite with fine disseminated cpy and py. Dark rock often has coarse cpy along fractures.
345.0	360.0	15.0	11.6	5034	.415	.038	.35	.02	1	W	W	W	W	W to S M to S					355.0 Dark colored, fine grained, porphyritic (3 mm) med. green altered plagioclase and chloritized biotite generally pervasively sericitized. Narrow bands (matrix) with intense argillic alteration and qtz-sericite contain cpy and py. Better pervasive alteration than previous section. Qtz. veins rare but have good fine matrix and coarse cpy mineralization. Dark colored rock coarse speckling of cpy along fracture
360.0	375.0	15.0	12.5	5035	.400	.035	.35	.02	1	W	W	W	W	M to S					
375.0	390.0	15.0	14.8	5036	.385	.055	.35	.02	1	W	W	W	W	M to S					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P37

DATE COMPLETED _____ PAGE No. 7 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
390.0	405.0	15.0	10.2	5037	.435	.032	.35	.02	1	W	W	W	W	M	—	—		
405.0	420.0	15.0	12.9	5038	.330	.064	.25	.02	1	W	W	M	W	M	—	—		
420.0	435.0	15.0	12.8	5039	.285	.058	.25	.02	1	W	W	W	W	M	—	—		
435.0	450.0	15.0	12.6	5040	.400	.027	.3	.02	1/2 1	— W	— W	— W	— W	M I	—	— S		

DESCRIPTION

Protore - Mixed Qtz Diorite - Breccia

-- Breccia matrix appears to weaken (?)

-420.5 — — — Up to 4 ft. bands. fine grained, dark colored, strongly biotitic (chloritic after hornblende) with fresh - slightly altered plagioc

-425.5 — — — — — Strong K-spar. alteration Pinkish tinge to Matrix strongly altered 50% of core.

-442.0

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P37
DATE COMPLETED _____ PAGE No. 8 of 16
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
450.0	465.0	15.0	12.9	5041	.255	.020	.2	.02	1	W	W	W	W	f/W	–	–			Protore - Mixed Qtz Diorite - Breccia 452.0 – Fresh - weakly altered chloritic biotite (after hornblende) fine grained weak - moderately porphyritic qtz. diorite. Coarse cpy along fracture
465.0	480.0	15.0	13.5	5042	.360	.041	.35	.03	1	W	W	W	W	S W/M	–	M			463.0 – Numerous rounded fragments 0.1 to 1 ft average 0.5 ft, of weakly altered chloritic qtz. diorite/f in an fine grained, pinkish well mineralized matrix speckling of chl. biotite & abundant K-spar. Pink rock also as fragments. Dark rock has coarse cpy along fractures.
480.0	495.0	15.0	14.6	5043	.415	.032	.2	.03	1	W	W	W	W	S W	–	M			
495.0	510.0	15.0	13.8	5401	.235	.037	.15	.03	1	W	W	W	W	W	–	M			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P37

DATE COMPLETED _____ PAGE No. 9 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
510.0	525.0	15.0	11.5	5402	.310	.019	.2	.02	1	W	W	W	W	W to M	–	M		
525.0	540.0	15.0	11.9	5403	.345	.017	.2	.02	1-2	W	W	W	W	W to M	–	W/M		
540.0	555.0	15.0	13.5	5404	.290	.038	.15	.02	1	W	W	W	W	W	–	M		
555.0	570.0	15.0	14.5	5405	.345	.014	.1	.01	1	W	W	W	W	F/W	–	–		

DESCRIPTION

Protore - Qtz Diorite - Breccia

Strong gouge fractures with horizontal slickenside -

Alteration features: 1. biotite - euhedral plagioclase - soft clear green with vague cleavage - c white kaolinized rims.

2. biotite partly sericitized - plagioclase medium - dark green

3. biotite completely sericitized - plagioc soft, chalky white color.

Dark qtz diorite also brecciated and forming fragments. Occ white strongly altered fragments. Gypsum comma along fractures. Black chloritic biotite fragments.

– 530.0 – decrease pink k-spar fragments.

– 540.0 – breccia fragments decrease. Black diorite

– 553.0 – Up to 2.0 pink sec k-spar, weak biotite - very fine diss fragments

– 556.0 – bottom of breccia?

Strong gypsum filled fractures. Rare hematite - magnetite veinlet.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P37

DATE COMPLETED _____ PAGE No. 10 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
570.0	585.0	15.0	14.3	5406	.360	.021	.15	.03	1	W	W	S	W	S/W	—	W		Protore - Qtz Diorite - Breccia ? (Very weak) Strong fracturing with gypsum common as fracture filling. Often seek-spar veining with cpy and moite. Occ diss moite in gysum. Occ k-spar veining looks like breccia - fragments of black qtz diorite - or alteration feature. Pyrite - yellow color. Biotite up to 3mm and poikolitic
585.0	600.0	15.0	13.9	5407	.290	.014	.2	.02	1-2	W	W	M/S	W	S/W	—	W		
600.0	615.0	15.0	14.7	5408	.299	.019	.2	.03	1-2	W	W	M/S	W	S/W	—	W		
615.0	630.0	15.0	14.6	5409	.335	.017	.2	.03	1-2	W	W	M/S	W	S/W	—	W		622.0 Breccia Strong seek-spar minor fine biotite matrix and breccia with up to 0.2ft fragments of altered qtz diorite

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P37

DATE COMPLETED _____ PAGE No. 11 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
630.0	645.0	15.0	14.5	5410	.270	.041	.3	.03	1	W	W	S	W	W/M	-	M		Protore - Qtz Diorite Breccia --644.0 - chilled slightly porphyritic qtz diorite
645.0	660.0	15.0	14.7	5411	.190	.052	.3	.05	1	W	W	W		W/M	-	M/S		-653.0 - fine grained qtz - seck-spar alteration becomes strong
660.0	675.0	15.0	14.8	5412	.330	.033	.1	.02	½	W	W	W	W	S	-	-		-661.5 - sheared gouge contact - 45°? Feldspar Porphyry - white, highly altered, up to 3mm plagioclase phenocryst and fine (1mm) black book biotite in a greenish grey aphanitic groundmass.
675.0	690.0	15.0	14.9	5413	.600	.031	.3	.05	3	W	W	W	W	S	-	M		-674.0 sheared gouge contact Protore - Qtz Diorite - Breccia Light colored, fine grained qtz - white - pale green sericitized altered plagioclase and minor biotite with weak-mod seck-spar. Fragments up to 0.2ft of moderate-dark chloritic (biotite) qtz diorite Strong py and mafic more common. Slickensided fracs common.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P37

DATE COMPLETED _____ PAGE No. 12 of 16

LENGTH _____ CORE SIZE _____

* Typist - note everything in descrip^{t} moved up. - error in footages

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
690.0	705.0	15.0	14.9	5414	.760	.021	.3	.05	3	W / W / W	W / W / W	W / W / M	W / W / W	S / W/M / S	- / - / -	M / - / -			Porfoic - Qtz Diorite - Breccia Coarse py common along fractures. 693.0 - Very fine grained abundant chl biotite, pale green plagioclase - white rims - Fine grained qtz diorite 698.0 - Grey, fractured and brecciated, competent rock, biotite generally completely silicified, plagioclase - resin white and minor sec K-spar veining. Darker chloritic fragments common. Coarse (3-4mm) cpy in fractures and diss moly in stronger altered bands and generally associated with stronger silicification and qtz veining. K-spar v. weak? Fragments to 0.2 ft.
705.0	720.0	15.0	13.8	5415	.980	.071	.25	.05	3	M/S	W	M	W	S	-	-			
720.0	735.0	15.0	14.3	5416	.660	.060	.3	.05	3	M/S	W	M	W	S	-	-			
735.0	750.0	15.0	14.7	5417	.250	.011	.25	.03	3 / 3	M/S / W	W / W	M / W	W / W	S / W/M	- / -	- / -			737.0 - Bottom Breccia Zone? alteration weakening Abundant amorphous green chlorite in a white altered plagioclase and qtz. Gradational to irregular chloritized biotite (hornblende)

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P37
DATE COMPLETED _____ PAGE No. 13 of 16
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION							DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR	
750.0	765.0	15.0	14.6	5418			.2	.02	3	W	W	W	W	W/S	–	–	Protore – Qtz Diorite – 755.0 – gradational – 45° Greenish gray – dirty green altered plagioclase and abundant sericitized biotite
							.3	.02	3	W	W	W	W	M/S	–	–	
765.0	780.0	15.0	14.8	5419			.2	.02	2	W	W	W	W	M/S	–	–	772.5 – Breccia – Angular, 2m – 0.1ft, well packed quartz and diorite fragments, with abundant interfragmental pyrite –
							.15	.02	2	W	W	W	W	S	–	–	
780.0	795.0	15.0	14.9	5420			.15	.02	2	W	W	W	W	M	–	–	780.0 – Pale satin green plagioclase and abundant sericitized biotite.
							.1	.01	1	W	W	W	W	W/M	–	–	788.0 – gradational (2-3mm) Dark colored, medium grained, hypidiomorphic granu whitish green resinous, often zoned altered plagioclas minor quartz, chloritic biotite often partly or completely sericitized
795.0	810.0	15.0	14.5	5421			.1	.01	1	W	W	W	W	W/M	–	–	

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P37
DATE COMPLETED _____ PAGE No. 14 of 16
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
810.0	825.0	15.0	14.8	5422	.235	.013	.1	.01	1	W	W	W	W	W/M	–	–		Protore - Qtz Diorite - Occ. rounded-angular up to 0.1 ft fragment of grey qtz and medium-dark green fine grained plagioclase qtz-diorite
																		824.0 – Abundant fine black chloritic biotite
																		829.0 – fragment - finely banded alt biotite - Yukon Group.? Qtz diorite?
825.0	840.0	15.0	14.6	5423	.200	.009	.1	.01	1	W	W	W	W	W/M	–	–		gradational ___ ___ ___ ___ ___ zeolts. chlorite
							.1	.01	½	W	W	W	W	f/W				Fine-med grained - abundant fine ragged book biotite. Plagioclase slightly altered. Occ. medium grained - to 0.2" rounded fragment.
																		837.0
840.0	855.0	15.0	14.7	5424	.120	.015	.1	.01	½	W	W	W	W	f/W	–	–		
																		858.0 – Biotite sericitized, plagioclase white resinous. Alteration banding 45° to core axis. Dark green plagioclase impart dark color.
855.0	870.0	15.0	14.3	5425	.195	.077	.15	.03	1	W	W	W	W	M	–	–		

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P37

DATE COMPLETED _____ PAGE No. 15 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
870.0	885.0	15.0	14.8	5426	.260	.020	.15	.03	1	W	W	W	W	M	–	–			Protore - Qtz Diorite
885.0	900.0	15.0	14.8	5427	.240	.022	.15	.03	1	W	W	W	W	M	–	–			
900.0	915.0	15.0	14.4	5428	.195	.010	.15	.03	1	W / W	W / W	W / W	W / W	M / W	– / –	– / M?			903.0 Weaker alteration - biotite slightly to completely altered to sericite. Gypsum veining common. Silicification ?? Appears to be slightly better mineralized than previous section - slight pink tinge - see k-spar?
915.0	930.0	15.0	14.9	5429	.145	.012	.15	.03	1	W	W	W	W	W	–	M?			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P37

DATE COMPLETED _____ PAGE No. 16 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
930.0	945.0	15.0	14.6	5430	.195	.602	.15	.03	1	W	W	W	W	W	–	M?		
945.0	948.0	3.0	2.5	5431	.235	.009	.15	.03	1	W	W	W	W	W	–	M		
						ASSAY SUMMARY												
50.0	105.0	55.0			.115	.010												
105.0	300.0	195.0			.553	.043												
300.0	948.0	648.0			.339	.029												
105.0	948.0	8430			.388	.032												

DESCRIPTION

Protore Zone - Qtz Diorite

948.0 - End of hole

AREA Patton Hill
DIP -90°
AZIMUTH —

NORTHING 22,836,107.7
EASTING 366,761.5
ELEVATION 3768.0

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED Mar 17/70
DATE COMPLETED Mar 21/70
LENGTH 243.0 ft

HOLE No. P39
PAGE No. 1 of 4
CORE SIZE NQ - 0.6 - 243.0

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
																			Casing 0.0 to 6.4
64.0	75.0	7.0	0.8	5377	.130	.009	.1	.01	1-2	W	W	W	M	S	-	-			68.0 – Broken zone at top of core
75.0	90.0	15.0	1.5	5378	.070	.002	.1	.01	1-2	W	W	W	M	S	-	-			Very broken core and very hard core very well mineralized
90.0	105.0	15.0	2.0	5379	.060	.002	.1	.01	1-2	W	W	W	M	S	-	-			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P39

DATE COMPLETED _____ PAGE No. 2 of 4

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
105.0	120.0	15.0	1.0	5380	015	.004	.1	01	1-2	W	W	W	M	S	—	—			Porta. Zone. Mixed Qtz Monte
120.0	135.0	15.0	0.9	5381	.015	.002	.1	.01	1-2	W	W	W	M	S	—	—			
135.0	150.0	15.0	9.3	5382	.135	.004	.1	.01	1-2	W	W	W	M	S	—	—			Very soft medium grained chloritic sericitic [illegible] 2 cm ± to [illegible] gouge Fault Zone?
150.0	165.0	15.0	7.5	5383	.095	.011	.1	.01	1-2	W	W	W	M	S					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P39

DATE COMPLETED _____ PAGE No. 3 of 4

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
135.0	150.0	15.0	7.9	5384	.105	.002	.1	.01	1-2	W	W	M	W	W	-	-			Pretore Zone - Mixed Qtz Diorite 170.0 – Alteration as Bleached groundmass, fractured, 1-4mm pale green and white quartz veinlets, 1-2% pyrite, 1% pyrrhotite, 1% chalcopyrite, 1% galena, trace sphalerite, trace molybdenite
150.0	165.0	15.0	11.4	5385	.030	.006	.1												
165.0	180.0	15.0	9.9	5386	.020	.011	.1	.01	2	W	W	M							190.0 – Mixed Qtz Diorite Bleached groundmass, fractured, 1-4mm pale green and white quartz veinlets, 1-2% pyrite, 1% pyrrhotite, 1% chalcopyrite, 1% galena, trace sphalerite, trace molybdenite 195.0 – Alteration as above, moderate argillic alteration 208.0 –
210.0	225.0	15.0	14.1	5387	.030	.004	.1	.01	2	W	W	M	W	W	-	-			Fractured and broken by quartz veinlets to core axis

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P39

DATE COMPLETED _____ PAGE No. 4 of 4

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
[illegible]	[illegible]	15.0	12.0	5358	.025	.009	1	.01	2	W	W	M	W/M	S	–	–		Footwall Zone - Argillite Shale
210.0	242.0	32.0	30.0	5359	.010	.002	1	.01	2	W	W	M	W/S	S	–	–		243.0 – End of hole. Hole temporarily stopped
							ASSAY SUMMARY											
68.0	242.0	174.0			.005	.002												

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Patton Hill
DIP -90°
AZIMUTH —

NORTHING 22,835,591.7
EASTING 365,058.1
ELEVATION 4165.6

DATE COLLARED Mar 15/70
DATE COMPLETED Mar 25/70
LENGTH 553.0 ft

HOLE No. P-40
PAGE No. 1 of 10
CORE SIZE NQ 0.0 - 418.0
BQ 418.0 - 553.0

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
																		Casing 0 - 15.0
15.0	30.0	15.0	7.5	5331	.005	.007												Fractured Core (Partly Crushed) Rock is light grey and fine grained. Quartz veining is common and consists of fine stringers and irregular veinlets. Pyrite is present as fine disseminations and in veinlets. Chalcopyrite is present in minor amounts. Core is fractured at 45° to core axis.
30.0	45.0	15.0	12.2	5332	.005	.010												
45.0	60.0	15.0	16.9	5333	.005	.002												49 - Normal Intermediate Argillic

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P40

DATE COMPLETED _____ PAGE No. 2 of 10

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
[illegible]	[illegible]	15.0	14.6	5334	.005	.005												Cracked Zone - Porphyry - Breccia
[illegible]	90.0	15.0	14.2	5335	.010	.005												
90.0	105.0	15.0	10.7	5336	.015	.002												
105.0	120.0	15.0	12.0	5337	.005	.002												

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P40

DATE COMPLETED _____ PAGE No. 3 of 10

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
120.0	135.0	15.0	12.8	5338	.005	.002													Leucocratic Hornblende - Porphyry - Breccia
135.0	150.0	15.0	10.7	5339	.005	.002													
150.0	165.0	15.0	14.4	5340	.005	.002													
165.0	180.0	15.0	12.1	5341	.005	.007													

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P40

DATE COMPLETED _____ PAGE No. 4 of _____

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
180.0	195.0	15.0	11.1	5342	.025	.005												Leached Zone - Porphyry - Breccia Fracture Zone - Porphyry - Breccia 188.0' Disseminated pyrite ~1% and veining limonite. Wellpacked breccia
195.0	210.0	15.0	15.0	5343	.005	.005												195.0 Soft material mixed with fracture clay matrix
210.0	225.0	15.0	14.4	5344	.001	.002												217.0 Mainly gray-yellow hard aphanitic fragments containing phenocrysts and scattered fine subhedral feldspar. Pyrite 3% Tourmaline are present
225.0	240.0	15.0	14.8	5345	.010	.002												

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P41

DATE COMPLETED _____ PAGE No. 5 of _____

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
240.0	255.0	15.0	14.3	5346	.005	.010													Pioton Zone —
255.0	270.0	15.0	15.0	5347	.015	.002													
270.0	285.0	15.0	13.7	5348	.010	.005													278.0 Soft yellow [illegible]
285.0	300.0	15.0	14.2	5349	.005	.007													291.0 See next page

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P4b

DATE COMPLETED _____ PAGE No. 6 of _____

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
[illegible]	[illegible]	15.0	15.0	5350	.040	.607													Protore Zone. - Porphyry - Breccia Soft yellow grey, aphanitic groundmass with occ. qtz phenocrysts and irregular pinkish feldspar phenocrysts. Mod brecciated
[illegible]	[illegible]	15.0	13.8	5351	.065	.010													- 313.0 - [illegible]
[illegible]	[illegible]	15.0	14.9	5352	.090	.012													- 318.0 - [illegible]
[illegible]	[illegible]	15.0	13.8	5353	.120	012													

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P40

DATE COMPLETED _____ PAGE No. 7 of _____

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
360.0	375.0	15.0	14.0	5354	.110	.007	.1											Pistora - Porphyry - Breccia fine Breccia is white granitic porphyritic gneiss fragments stringers in greenish matrix with scattered up to 0.1" aug. fine pyrite and pyrrhotite Pyrite 2-3% Pyrrhotite
375.0	390.0	15.0	15.0	5355	.115	.015												
390.0	405.0	15.0	13.9	5356	.075	.010												
405.0	420.0	15.0	13.0	5357	.075	.005												

-420 NQ BQ

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P40

DATE COMPLETED _____ PAGE No. 3 of _____

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
430.0	445.0	15.0	3.5	5358	.205	.012													Intense Fracturing + Stockwk
445.0	460.0	15.0	11.0	5359	.165	.005			3										445' Fragments to 0.5" in coarse comminuted matrix of fine chloritic material in contact with core, very rare.
450.0	465.0	15.0	14.0	5360	.135	.012													
465.0	480.0	15.0	13.3	5361	.020	.002													Rare pale green sericitized dacite

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P-40

DATE COMPLETED _____ PAGE No. 9 of _____

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
480.0	495.0	15.0	14.8	5362	.040	.005													
495.0	510.0	15.0	14.9	5363	.045	.005													
510.0	525.0	15.0	13.8	5364	.675	.002													
525.0	540.0	15.0	14.9	5365	.130	.007													

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P40

DATE COMPLETED _____ PAGE No. 10 of _____

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
540.0	553.0	13.0	13.0	5366	.048	.006												-553 - End of hole - skyrn and dark quartzite
						ASSAY SUMMARY												
15.0	553	538			.048	.006												

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA Po Hon Hill
DIP -90°
AZIMUTH
NORTHING 22,836,749.5
EASTING 365,040.5
ELEVATION 4032.8

DATE COLLARED Mar 12/70
DATE COMPLETED Mar 18/70
LENGTH 301.0 ft
HOLE No. P41
PAGE No. 1 of 6
CORE SIZE NQ - 0.0 - 301.0 ft

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
23.0	30.0	7.0	4.5	5475	.065	.003	.05	.001	–	W	W/M	M	–	S	–	–		
30.0	45.0	15.0	10.4	5476	.080	.002	.05	.001	–	W	W/M	M	–	S	–	–		
45.0	60.0	15.0	9.6	5477	.200	.002	.15	.001	–	W	W/M	M	–	S	–	–		

DESCRIPTION

Casing 0.0 - 23.0 ft.

Reach of Zone. Exploded Breccia. - Mixed Qtz. Diorite? - Breccia

Yellow, fine grained quartz granules 0.5 mm - ave. pseudo-phenocrysts in a soft yellow clay matrix with scattered white 2mm. pale green soft altered phenocrysts. Breccia fragments to 1 cm. white, rich, mineralized quartz veins, up to 0.3 ft - highly altered qtz diorite ?. Other veins of fine white fractures. Some veinlets 5 mm qtz veins getting at least to long fractures and at 40° to core axis. Specking of pyrite in qtz veining core axis. Rare sericitized biotite fragments. Rare hematite.

49.0 - fragments up to 0.2 ft with mineral qtz and soft yellow highly altered become common.

47.0 - gradational? ——

Mixed Qtz Diorite

Brecciated fine grained mixed qtz diorite, occ. fragments of grey feldspar porphyry - very fine yellow - white mineralized specking. Biotite moderate - completely sericitized. Disseminated specking of molybdenite?

58.0' - Brecciated K-spar and qtz - up to 1 cm. - 1-2% bond

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. C41

DATE COMPLETED _____ PAGE No. 2 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
60.0	75.0	15.0	13.5	5478	.425	.004	.15	.001	—	I	W	+1	I	S	—	—		
75.0	90.0	15.0	13.8	5479	.085	.002	.15	.001	—	I	W	M		M S	—	—		
90.0	105.0	15.0	14.0	5480	.645	.008	.05	.01	—									
105.0	120.0	15.0	11.9	5481	.080	.002	.05	.01	—	—	—	S	—	W S	—	—		

DESCRIPTION

Leached light-fine gr. Qtz diorite - fracture

-70.0 - brecciated fracture to upto 0.1 - Biotite bearing - some clay fracture

-73.0 - rock becomes harder

-90.0 — Transition

-91.0 — Qtz. Porphyry - ? Hydrothermal - Aplite?

Numerous fine grained quartz phenocrysts with

-103.0 Strongly silicified, biotitic mixed qtz diorite

-106.0 Chilled edge? - Grey aphanitic with very fine white specking - altered ? plagioclase phenocrysts and occ. qtz phenocryst. Fragments of biotitic and amphibolitic qtz diorite. Sericite common along fractures and rings

-109.0 Mixed Qtz Diorite - breccia aplite fragment in upper ft. At 111 - aplite vein - 1cm cutting thru rock. Biotite weakly altered previously plagioclases become strongly altered

-119.0 Mixed feldspar porphyry - grey aphanitic with number plagioclase phenocrysts and qtz diorite

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P41

DATE COMPLETED _____ PAGE No. 3 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
120.0	135.0	15.0	13.8	5482	.740	.019	.05	.01	1	1	W	M	1	S	1	1		
135.0	150.0	15.0	14.2	5483	.450	.003	.05	.01	1	1	W	M–S	1	S	1	1		
150.0	165.0	15.0	11.0	5484	.120	.005	.05	.01	1	1	W	S	1	S	1	1		
165.0	180.0	15.0	12.1	5485	.190	.008	.05	.01	1	1	W	S	1	S	1	1		

Leached Zone – Mixed Qtz Diorite – Breccia

123.0 – contact 70° – – –

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P-41

DATE COMPLETED _____ PAGE No. 4 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
180.0	195.0	15.0	10.5	5486	.660	.016	1	.02										Leached Zone - Mixed Qtz Diorite - Breccia (Weak) Soft greenish tinge around fractures with stained and bleached appearance of soft black manganese oxide? 195.0 – Fractured and brecciated bands silicified fine pyrite and coating of cc. Rare cpy. cc pyrite stringer 191.0 –
195.0	210.0	15.0	14.1	5487	.255	.020	.5	.05	1	W/M	M	S	–	S	–	–		Enriched Zone - Mixed Qtz Diorite - Breccia (Weak?) Fine - medium (3mm) grained, partly-completely sericitized biotite with weak diss pyrite cubes with coating of cc. Often up to 1 ft hard silicified bands with qtz veining containing moly and coarse cpy with coating of cc. Rare py. stringer. Brecciation appears weak or absent - no foreign rock types. 205.0 – Fine grained, qtz, white argillized plagioclase weakened by weak silicification.
210.0	225.0	15.0	9.9	5488	.860	.043	.35	.03	½	I	I	W	–	S	–	–		210.0 – Fine grained abundant fine weak-partly sericitized biotite Minor diss py, rare cc.
									3	S	S	S	–	S	–	–		218.0 – Strongly fractured, strong silicification with abundant moly and cc coarse streaks of cpy with film of cc. Pyrite with coating of cc. Rare sooty cc.? - 'oolitic' dark brown hematite?
225.0	240.0	15.0	13.5	5489	.150	.085	.4	.05	2-3	W	M	W	–	I	–	–		225.0 – Silicification weakens - cc running cpy. not common. Diss moly still common 234.0 Fine grained qtz diorite? - aplite Breccia contact 235.0

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P41

DATE COMPLETED _____ PAGE No. 5 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
240.0	255.0	15.0	13.2	5490	.495	.031	.1	.53	1	W	W	W	–	S	–	–		
255.0	270.0	15.0	12.7	5491	.370	.069	.2	.08	1-2	W/M	M	S	–	M	–	–		
270.0	285.0	15.0	5.3	5492	.465	.045	.3	.05	1-2	W/M	M	S	–	M	–	–		
285.0	300.0	15.0	11.0	5493	.560	.063	.25	0.3		W	W	W	–	S	–	–		

DESCRIPTION

Enriched Zone - Mixed Qtz Diorite Breccia (Weak)

247.0 - Pioteria Zone - Mixed Qtz Diorite - Breccia (weak)

244.0 - Altered Intrusive - Feldspar Qtz Porphyritic Intrusive - Fine grained Intrusive texture

Blebs averaging up to 5mm. at 5mm. with fine grained, siliceous matrix. Weak diffuse network and minor epy. Occ. narrow irregular veinlets with epy. Minor weak silicification and impregnated mineralization.

257.5 - Strong silicification and stockworking. Local white veining of quartz

259.0 - Mineralization

261.0 - Zone of strong brecciation and silicification

Mixed Qtz Diorite - Breccia

Mainly fine grained matrix with up to 5% of fragments of andesite, quartz veins, quartz-sericite altered fragments and rock fragments. Minor weak network of epy. veinlets and epy. Occ. narrow irregular veinlets with epy. Minor weak silicification and impregnated mineralization.

289.0 -

Med grained biotite partly - completely recrystallized. Occ. fine grained band. Diss py. and cpy with occ. veinlets along fractures.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P41

DATE COMPLETED _____ PAGE No. 5 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
300	301	1.0	1.0	5494	.700	.040													- Mixed [illegible]
																			[illegible]
																			[illegible]

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Patton Hill
DIP -90°
AZIMUTH —

NORTHING 22,836,749.5
EASTING 365,040.5
ELEVATION 4032.8

DATE COLLARED Mar 19/70
DATE COMPLETED Mar 21/70
LENGTH 156.0 ft

HOLE No. 41A
PAGE No. 1 of 3
CORE SIZE NQ - 0.0 - 156.0 ft

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
20.0	30.0	10.0	6.2	5367	.070	.009													20.0 — See log ft. P 41
30.0	45.0	15.0	9.7	5368	.075	.012													
45.0	60.0	15.6	7.0	5369	.200	.007													

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P41 A

DATE COMPLETED _____ PAGE No. 2 of 3

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
60.0	75.0	15.0	14.5	5370	.220	.010													
75.0	90.0	15.0	11.7	5371	.065	.002													
90.0	105.0	15.0	14.1	5372	.055	.010													
105.0	120.0	15.0	15.0	5373	.070	.010													

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P41A

DATE COMPLETED _____ PAGE No. 3 of 3

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
120.0	135.0	15.0	13.9	E374	.140	.024													
135.0	150.0	15.0	7.0	5375	.330	.015													
150.0	156.0	6.0	2.5	5367	.200	.086													-156.0 – Hole stopped due to shut down
						ASSAY		SUMMARY											
20.0	156.0	136.0			.143	.019													

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA Pa Hon Hill
DIP -90°
AZIMUTH —

NORTHING 22,835,944.1
EASTING 364,722.6
ELEVATION 4409.4

DATE COLLARED Feb 15/70
DATE COMPLETED Mar 6/70
LENGTH 737.0 ft

HOLE No. P42.
PAGE No. 1 of 13
CORE SIZE NQ-0.0-317.0 ft
BQ-317.0-737.0 ft

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
15.0	30.0	15.0	12.9	5101	.135	.008	.01	—	—	W	W	M 0°	W	I	—	—			-15.0 Leached Zone - Qtz Diorite - Qtz Porphyry ? Breccia -20.5 - - Strongly brecciated with hematite between av. 0.2 ft fragments foreign fragment of feldspar porphyry - latite porphyry -22.5 - - Fine fracturing
30.0	45.0	15.0	11.3	5102	.085	.030	.01	—	—	W	W	M	W	I/S	—	—			-32.5 - - Brecciated with strong hematite along fractures -34.5 - - Faint grey, iron stained very fine grained allotriomorphic qtz and pale green-white altered plagioclase with weak disseminated rosette acicular tourmaline and abundant fine disseminated hematite. Occ. suggesting of fine breccia fragments. Often qtz grains are rounded and crushed suggesting breccia matrix or shattered qtz-porphyry
45.0	60.0	15.0	13.3	5103	.100	.036	.01	—	—	W	W	M	S	I/S					-49.6 - - - Strongly brecciated and cemented with hematite – chilled contact? Numerous up to 0.1 ft fragments in a weak-strongly diss. hematite matrix.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P42

DATE COMPLETED _____ PAGE No. 3 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
120.0	135.0	15.0	13.8	5108	.020	.014	.01	-	-	W	W	W	W	I/S	-	-		
135.0	150.0	15.0	11.7	5109	.035	.042	.01	-	-	W	W	W	W	I/S	-	-		
150.0	165.0	15.0	11.6	5110	.030	.014	.01	-	-	W	W	W	W	I				
165.0	180.0	15.0	12.4	5111	.025	.026	.01	-	-	W	W	W	W	I				

DESCRIPTION

Leached Zone - Qtz-Feldspar Porphyry

-126.0 - Plagioclase phenocrysts become more abundant - decrease in qtz phenocrysts - average size decreases to 5mm - fine weak disseminated black biotite speckling

-151.0 - Finer grained for 1ft near contact - contact chilled?

-45°? Intermediate Dacite - Qtz Porphyry - Breccia

-156.0 Bands of dark grey aphanitic with 2% saussuritized plagioclase phenocrysts (1mm in diameter) Feldspar-Porphyry altered

-160.0 Yellow, strongly altered all throughout the ground soft clay with occ up to 0.1ft fragment of fine-medium grained dacite with weak-moderate biotite speckling. Tourmaline seriates at widely spaced intervals. Occ. goethitic limonite along widely spaced fractures. Weak fine hematite speckling in places strong

-172.0 0.2 to 2.0 breccia fragments become common. Smaller fragment, fine grained dacite with scattered plagioclase phenocrysts. Rest larger fragments are rounded (2-5mm) with sub-angular

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 42

DATE COMPLETED _____ PAGE No. 4 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
180.0	195.0	15.0	12.3	5112	.035	.033	.01	–	–	W	W	W S R	W W	I I	–	–		Leached zone – Qtz Diorite – Qtz Porphyry – Breccia -181.0 – Breccia fragmental rock appears to be (old) fractured and brecciated with strong alteration along fractures and brecciated zones. Quartz veining is fairly common throughout. Pyrite is common as stringers and disseminations. Trace amounts of sooty hematite – alteration appears to be supergene alteration of magnetite. Quartz appears to often fill between breccia fragments. Generally rounded to square fragments of qtz porphyry suggest brecciated qtz porphyry or dacite. Some closed fractures
195.0	210.0	15.0	11.2	5113	.035	.064	.01	–	–	W	W	M S R	W	I	–	–		-209.0 Slightly fractured and brecciated with fractures running at 45° to core axis
210.0	225.0	15.0	12.8	5114	.070	.067	.01	–	–	W	W	M S R	W	I	–	–		-213.5 -219.5 – Band of fg reddish feldspar porphyry fragments -225.0 – on fracture – 60° -226.0 – Feldspar porphyry breccia fragment Irregular – 20°
225.0	240.0	15.0	13.9	5115	.065	.008	.01	–	–	W	W	S R	W	I	–	–		

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P42.

DATE COMPLETED _____ PAGE No. 5 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
240.0	255.0	15.0	15.0	5116			.01	-	-	W	W	S R	W	I	-	-		Leached Zone - Qtz Diorite - Qtz Porphyry - Breccia 240.0 Scattered up to 3mm qtz phenocrysts(?) - qtz grains very all the way from subangular to rounded. 253.0 1.0 ft. Qtz porphyry - scattered qtz phenocrysts to 5mm Fine grained fragment.
255.0	270.0	15.0	14.7	5117	.025	.025	.01	-	-	W	W	S R	W	I	-	-		270.0 Strong fracture with gouge becomes common.
270.0	285.0	15.0	14.5	5118	.040	.062	.01	-	-	W	W	S R	W	I	-	-		Qtz porphyry(?) texture now poorly developed. - 5mm.
285.0	300.0	15.0	14.1	5119	.040	.066	.01	-	-	W	W	M		I/S	-	-		"Crackle Zone"? 295.0 Fracturing not as intense and rock becomes more calcareous - Possible fringe of breccia zone. Tourmaline in veinlets and disseminated

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P42

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LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
300.0	315.0	15.0	14.6	5120	.030	.006	.01	—	—	W	W	J R	W	I/S					Leached Zone - Qtz Diorite - Qtz. Porphyry?? Crackle Zone?
315.0	330.0	15.0	13.2	5121	.045	.014	.01	—	—	W	W	S R	W	I/S					300.0 – Abundant diss hematite - alteration zone? Magnetite octahedral, earthy and rarely shiny, specularite. Tourmaline rare.
330.0	345.0	15.0	13.3	5122	.030	.027	.01	—	—	W	W	S R	W	I					301.5 – Purple, anhedral glass breccia fragments.
345.0	360.0	15.0	14.1	5123	.030	.008	.01	—	—	W	W	S R	I	I					308.0 – few specks of fresh py
																			314.0 – fracturing increases with hematite common along fracture planes. Occ vugs at junction of strong fractures lined with qtz.
																			317.0 NQ BQ
																			322.0 – occ up to 2mm fracture filling magnetite with thin film of hematite at vuggy fracture junctions
																			337.0 – Fracturing weak and hematite weak. It would appear amount of hematite depends upon intensity of fracturing
																			339.0 –
																			348.5 – 1cm fragment of glass? - purple aphantic
																			350.0 – ? – Soft yellow kaolin matrix not common. Appears to be pervasive qtz-sericite alteration. Occ up to 2mm pale green soft altered plag crystal
																			352.0 – Occ film of hematite coating magnetite.
																			358.0 – Magnetic with coating of hematite becomes more common

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 42

DATE COMPLETED _____ PAGE No. 7 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
360.0	375.0	15.0	14.6	E124	.045	.011	.1	–	–	W	W	S	H	I	–	–		
375.0	390.0	15.0	14.5	5125	.040	.055	.01	–	–	W	W	S R	I	I	–	–		
390.0	405.0	15.0	14.7	5126	.040	.019	.01	–	–	W	R	S R	I	I				
405.0	420.0	15.0	14.2	5127	.055	.033	.01	–	–	W	R	S R I	I	I				

DESCRIPTION

Leached Zone - Qtz Diorite - Qtz Porphyry?

-250.0 - Fault Breccia Zone - Breccia?

Qtz diorite - Shear planes have developed parallel to the core or vertical?

Magnetite-hematite content average 3% in parts up to 5%. Scattered angular inclusions of blackish aphanitic fragments(?) - hornfels? Pervasive? alteration of quartz and plagioclase

-400.0 - 0.3ft rounded qtz porphyry - scattered 2mm diameter qtz phenocryst-fragment.

-401.0 - 2ft. band - breccia fragment - Qtz phenocrysts & Some weak plagioclase - Qtz Feldspar Porphyry

-417.5 - Band 0.5ft wide with 1% pyrite, minor chalcopyrite. Intense fracturing with brecciation and abundant magnetite with film of hematite. Secondary magnetite still very common

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P42

DATE COMPLETED _____ PAGE No. 8 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
420.0	435.0	15.0	14.3	5128	.065	.023	.01	–	–	W	W	I	H	I	I	I			Leached zone - Qtz. Diorite - Qtz. Porphyry? Crackle zone? Breccia. Pale green subhedral - euhedral, pale green altered plagioclase, 0.2mm in diameter common. - Possibly Qtz-Feldspar Porphyry
435.0	450.0	15.0	14.3	5129	.105	.617	.01	–	–	W	W	I	I	I					-435.0 1ft qtz. eye - up to 5mm - porphyry -441.0
450.0	465.0	15.0	14.5	5130	.265	.038	.01	–	1/4	W	W	I	I	I					-454.5 Fine pyrite stringers with limonite film occasionally present. In parts disseminated pyrite - 2%. Appears to be contemporaneous relation pyrite and hematitic magnetite 459.0-.05 rounded fragments of qtz diorite with sericite and biotite common - Crackle Zone 460.0 - Narrow band with strong dissemination
465.0	480.0	15.0	6.3	5131	.405	.102	.35	.05	1/2	W	W	I	W?	S					Grey, highly fractured feldspar porphyry? - occ. white - pale green - yellow altered plagioclases - euhedral in a hard siliceous aphanitic matrix - quartz? - rarely granular texture. Rare, highly sericitic fine biotite. 3-4% Abundant limonite stain - alters along fine cracks. Occasionally disseminated fine cpy often with py - blebs in quartz - which are common. Pyrite stringers with fine coating of pyrite common.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P42

DATE COMPLETED _____ PAGE No. 10 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
540.0	555.0	15.0	14.8	5136	.540	.024	.25	.03	½	W	W	S	W	S	–	–			Oxidized Zone - Feldspar Porphyry? Qtz Porphyry Breccia Occ. fine grained aphanitic matrix
555.0	570.0	15.0	14.5	5137	.560	.024	.2	.02	½	W	W	S	W	S	–	–			-- 556.0 - Up to 5% m gtz phenocrysts common ½" and up weaken Occ feldspar phenocryst with corroded back boundary
570.0	585.0	15.0	14.2	5138	.495	.044	.3	.03	½	W	W	S	W	S	–	–			
585.0	600.0	15.0	14.2	5139	.360	.047	.25	.03	½	W	W	S	W	S	–	–			Protore Zone - Qtz Porphyry - Breccia Granular occ aphanitic, rded to angular ½-2mm gtz grains in an intensely altered yellow plagioclase matrix Occ. up to 3mm soft wavy blue-green altered hornblende phenocryst - sub-euhedral outline

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P42

DATE COMPLETED _____ PAGE No. 11 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
600.0	615.0	15.0	14.3	5140	.380	.039	.05	.03	1/2	3	3	3	3	1	1	1		
615.0	630.0	15.0	14.4	5141	.320	.049	.05	.05	1/2	3	3	3	3	3	1	1		
630.0	645.0	15.0	14.5	5142	.385	.049	.3	.03	1/4	3	3	3	3	3	1	1		
645.0	660.0	15.0	14.3	5143	.515	.034	.3	.05	1/2	3	3	3	3	3	1	1		

DESCRIPTION

Fracture - Qtz Bxing - Brecc

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P42

DATE COMPLETED _____ PAGE No. 12 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
660.0	675.0	15.0	14.4	5144	.470	.074	.35	.05	½	W	W	M	W	M	–	–		Medium - Str. Porphyry - Feldspar Porphyry Breccia Gradual increase in altered plagioclase.
675.0	690.0	15.0	10.1	5145	.310	.072	.2	.03	½	W	W	M	W	S	–	–		
690.0	705.0	15.0	13.2	5146	.320	.044	.2	.03	½	W	W	M	W	S	–	–		695.0 – Fine angular dacite fragments in matrix common
705.0	720.0	15.0	14.3	5147	.275	.049	.25	.03	½	W	W	M	W	S	–	–		717.0 – Dark colored Feldspar Porphyry, abundant strongly altered plagioclase phenocrysts up to 5mm. in aphanitic matrix containing numerous biotite books.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

DATE COLLARED _____ HOLE No. P42
DATE COMPLETED _____ PAGE No. 13 of 13
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
720.0	735.0	15.0	14.4	5148	.385	.052	.25	.03	½	W	W	M	W	S	–	–		
735.0	737	2.0	1.5	5149	.530	.025	.25	.03	½	W	W	M	W	S	–	–		
						ASSAY SUMMARY												
15.0	465.0	450.0			058	.027												
465.0	737.0	272			A12	.047												

DESCRIPTION

Proto.c - Qtz Porphyry - Feldspar Porphyry Breccia

Occ feldspar porphyry (Latite Porphyry) fragment up to 0.5 ft. Abundant magnetite - hematite. Well fractured often rugose at fracture junction. Very weak sy. Often tiny veinlets cpy mo with qtz veins

– 737.0 End of hole

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Patton Hill
DIP -30°
AZIMUTH —

NORTHING 22,835,328.6
EASTING 364,783.1
ELEVATION 4244.9

DATE COLLARED Mar 18/70
DATE COMPLETED Mar 21/70
LENGTH 88.0 ft

HOLE No. P 43
PAGE No. 1 of 1
CORE SIZE NQ - 0.0 - 88.0 ft

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
18.0	30.0	12.0	4.0	5390	.005	.002													18.0 Leached zone - [illegible]
30.0	45.0	15.0	9.7	5391	.005	.002													
45.0	60.0	15.0	15.0	5392	.010	.002													

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P43.

DATE COMPLETED _____ PAGE No. 2. of _____

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
[illegible]	70.0	15.0	14.1	5398	005	002													
70.0	[illegible]	13.0	13.0	5399	.005	.002													- End of hole - Remaining [illegible]
							ASSAY	SUMMARY											
18.0	88.0	70.0			.006	002													

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

AREA Patton Hill
DIP -90°
AZIMUTH -
NORTHING 22,835,720.8
EASTING 363,981.3
ELEVATION 4397.9

DATE COLLARED Mar 4/70
DATE COMPLETED Mar 14/70
LENGTH 900.0 ft
HOLE No. P 44
PAGE No. 1 of 16
CORE SIZE NQ 0.0 - 626.0 ft
BQ 626.0 - 900.0 ft

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
16.0	30.0	14.0	14.0	5150	.645	.010	-	-	-	-	-	S	W	S	-	-		
30.0	45.0	15.0	11.5	5151	.055	.008	-	-	-	-	-	S	W	S	-	-		
45.0	60.0	15.0	7.0	5152	.045	.003	-	-	-	-	-	S	W	S	-	-		

DESCRIPTION

Casing 0.0 - 16.0 ft

16.0 — Leached Zone - Qtz Porphyry (Exploded) - Breccia

Microcrystalline, translucent qtz groundmass with scattered sub porphyritic qtz. Qtz comprises 80-90% in a yellow altered plagioclase matrix. Highly fractured with specularite hematite and magnetite common. Amorphous tourmaline common. Rare weak dark green subhedral, soft altered plagioclase. Jarosite-goethite common along leached fractures.

28.0 — gradational - increasing plagioclase phenocrysts

Feldspar Porphyry - Breccia

Dark colored, dark green subhedral plagioclase and yellow euhedral plagioclase phenocrysts (to 5mm) in an microcrystaline granular qtz with numerous up to 1mm qtz phenocrysts groundmass. Books up to 1/4 mm of book biotite often completely sericitised. Occ specular hematite and magnetite. Goethite common along strong fractures.

Occ granular texture to groundmass.

Diss specularite common

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P44

DATE COMPLETED _____ PAGE No. 2 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
60.0	75.0	15.0	7.1	5153	.040	.012	–	–	–	–	–	S	W	S	–	–		Leached Zone Feldspar Porphyry - Breccia Grayish groundmass may be breccia matrix with fragments of feldspar porphyry 69 ± Exploded Porphyry Hard - occasional soft bands - yellow to grey highly micro fractured groundmass with yellow plagioclase and typical Casino qtz-feldspar porphyry
75.0	90.0	15.0	5.3	5154	.015	.005	–	–	–	–	–	S	W	S	–			
90.0	105.0	15.0	2.1	5155	.030	.012	–	–	–	–	–	S	W	S	–			
105.0	120.0	15.0	4.0	5156	.045	.006	–	–	–	–	–	S	W	S				103.0 Exploded Porphyry - Breccia Generally hard, occ. soft bands, yellow to grey highly micro fractured groundmass and yellow plagioclase, occ narrow typical qtz-feldspar porphyry texture. Bands with high plagioclase content common often pink-black green. Tourmaline, specularite and magnetite common

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P44

DATE COMPLETED _____ PAGE No. 3 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
120.0	135.0	15.0	12.2	5157	.050	.011	-	-	-	-	-	S	W	S	-	-		
135.0	150.0	15.0	5.9	5158	.025	.009	-	-	-	-	-	S	W	S	-	-		
150.0	165.0	15.0	14.9	5159	.045	.007	-	-	-	-	-	S	W	S	-	-		
										-	-	M	W	S	-	-		
165.0	180.0	15.0	11.9	5160	.050	.003				-	-	M	W	S	-	-		

DESCRIPTION

Leached Zone - Brecciated Porphyry - Breccia

Yellow, fractured, rounded fragments of aphanitic quartz latite porphyry with abundant 1 mm euhedral quartz phenocrysts in yellow altered matrix. Fragments subangular to rounded.

-150.0 - Rounded fragments of aphanitic quartz latite porphyry

-155.5 - Fragment of abundant fine partly sericitized biotite

-161.0 - Yellow, microgranular - fine grained qtz in a yellow altered plagioclase (20%) to a yellow altered plagioclase with subhedral 1-2 mm dark green plagioclase matrix containing fine qtz granules (20-40%). Hematite - magnetite weak except in strong fracturing where strong.

-172.0 - Fragment to 0.1 ft with abundant fine biotite common.

-178.0 -

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P44

DATE COMPLETED _____ PAGE No. 4 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
180.0	195.0	15.0	8.1	5161	040	.01[illegible]	–	–	–	–	–	M	–	S	–	–	–	Leached Zone. Exploded Porphyry - Breccia
195.0	210.0	15.0	7.5	5162	.045	.009	–	–	–	–	–	M	–	S	–	–	–	200.0 – Bleached Feldspar porphyry with abundant fine granular 202.0 – qtz and moderate sericitized biotite
210.0	225.0	15.0	7.5	5163	.020	.009	–	–	–	–	–	M	–	S	–	–	–	Fine grained granular to aphanitic in yellow orthoclase plagioclase (20%)
225.0	240.0	15.0	14.5	5164	140	00[illegible]				–	–	S	–	S	–	–	–	226.0 – Stronger fracturing and increase in hematite-magnetite Tourmaline more common 229 – Bleached Feldspar Porphyry - fragments? 230.0 235.0 – Fine biotite becomes common – fragments? Bleached Feldspar Porphyry breccia fragments

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P44

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SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
240.0	255.0	15.0	14.0	5165	.135	.012	-	-	-	1	-	S	1	S	-	-			Leached Zone. Exploded Porphyry - Breccia Occ fine dis pyrite
255.0	270.0	15.0	14.0	5166	.270	.012	.1	.001	½%	-	-	S	-	S	-	-			257 Protore Zone Fragments to 0.2 ft of aphanitic porphyry - soft yellow plagioclase and hard aphanitic groundmass. White plagioclase phenocrysts to 3mm. Leached pyrite throughout. Occ. Magnetite. Hematite common. Occ. dis py
270.0	285.0	15.0	14.0	5167	.300	.017	.1	.001	1	-	-	S	-	S	-	-			Granular - microcrystalline qtz - occ. dark grey qtz to 2mm altered, subhedral plagioclase. Pyrite - 3% in breccia cracks and fractures. Hematite. Occ. speck of cpy. Occ. fine leaf partly sericitized biotite - fragment-breccia. Moderate fine pyrite stringers. Breccia fragments to 0.3 ft of feldspar porphyry become common
285.0	300.0	15.0	14.0	5168	.200	.015	.1	.001	2	-	-	S	-	S	-	-			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P44

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SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
300.0	315.0	15.0	14.9	5169	.275	.022	.1	.001	3	-	-	S	-	S	-	-		
315.0	330.0	15.0	14.8	5170	.225	.017	1	.001	3	-	-	S	-	S	-	-		
330.0	345.0	15.0	13.7	5171	.325	.020	.1	.001	3	-	-	S	-	S	-	-		
345.0	360.0	15.0	14.8	5172	.245	.022	.1	.001	3	-	-	S	-	W	-	-		

DESCRIPTION

Protore Zone Exploded Porphyry - Breccia

-316.0 - Bottom of breccia zone with abundant hematite-magnetite

-327.0 -

Aphanitic Feldspar Porphyry - Breccia

Grey, soft, aphanitic matrix with scattered white subhedral plagioclase phenocrysts, and fine yellow anhedral-subhedral altered plagioclase spotting. Has granular-microcrystalline texture. Magnetite-hematite veinlets - clusters of veinlets common - particularly where strongly fractured. Breccia fragments up to 0.3ft of typical Feldspar Biotite Porphyry with granular and porphyritic qtz common

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

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SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
480.0	495.0	15.0	13.8	5181	.445	.015	.05	.001	½	–	–	W	W	S	–	–		Protore - Feldspar Porphyry Breccia 488.0 – Up to 0.2 ft feldspar Porphyry fragments in a aphanitic matrix with fine euhedral plagioclase sparkling 492.0 – Holly brecciated fragments of aphanitic groundmass with quartz and fine euhedral plagioclase porphyritic, fine hair fractures with chlorite, Magnetite very common throughout fractured
495.0	510.0	15.0	15.0	5182	.325	.023	.05	.001	½	–	–	W	W	S	–	–		
510.0	525.0	15.0	14.7	5183	.305	.025	.1	.001	1–2	–	–	S	W	S	–	–		510 – Fragments up to 10 ft of feldspar Porphyry with abundant black biotite becomes common, tourmaline and magnetite common as fine veinlets in aphanitic rock Hair fractures with chlorite, Sericite Gold biotites often present
525.0	540.0	15.0	14.0	5184	.315	.046	.1	.001	1–2	–	–	S	W	S	–	–		

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P44

DATE COMPLETED _____ PAGE No. 12 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
540.0	555.0	15.0	14.9	5185	.275	.015	.1	.001	1-2	-	1	3	3	3	-	1			Protoro Lava - Feldspar Porphyry - Dacite -546.0 – Feldspar Porphyry with biotite rare Fine grained siliceous groundmass, part in qtz veins, fine grained altered plagioclase phenocrysts Fracturing quite abundant
555.0	570.0	15.0	15.0	5186	.300	.021	1	.001	2	-	-	3	3	3	-	-			
570.0	585.0	150	15.0	5187	.275	.018	.15	.001	1	-	-	3	3	3	-	-			-574.0 – Highly fractured [illegible] fine white altered plagioclase phenocrysts with occasional biotite and fragments of dark brown altered [illegible] Veins chlorite, rare [illegible] Other veins qtz + fracture fillings Rare fragments of typical feldspar porphyry
585.0	600.0	15.0	14.4	5188	.195	.026	.15	.001		-	-	3	3	3	-	-			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P44

DATE COMPLETED _____ PAGE No. 11 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
600.0	615.0	15.0	14.9	5189	.225	015	15	.661	1	1	1	5	3	5	1	1		Protore Zone - Feldspar Porphyry - Breccia 615.0 Feldspar phenocrysts up to 5mm with clots and fragments of chloritized biotite become common.
615.0	630.0	15.0	13.7	5190	.265	.018	.15	.081	1	1	1	5	3	5	1	1		626.0 NQ / BQ
630.0	645.0	15.0	13.9	5191	.195	.023	.15	.091	1	1	1	5	3	5	1	1		634.0 Fragments and bands of feldspar porphyry with abundant bleached chloritized biotite. Magnetite common. Often fine felted biotite in aphanitic groundmass - secondary. Often biotite altered to dark green sericite. Often dark green fragments aphanitic - microgranular grey with feldspar phenocrysts. Strong magnetite and hematite.
645.0	660.0	15.0	7.9	5192	.200	.016	.15	.001	1	1	1	5	3	5	1	1		

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P44

DATE COMPLETED _____ PAGE No. ___ of ___

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
660.0	675.0	15.0	15.0	5193	.270	.018	.15	.001	1	1	1	3	4	5	1	1		Porfiro 2mm. feldspar porphyritic Diorite Numerous dark green sericitized biotite fragments in phanitic weakly feldspar porphyritic matrix
675.0	690.0	15.0	13.0	5194	.235	.023	.15	.001	1	1	1	3	4	5	1	1		
690.0	705.0	15.0	7.6	5195	.225	.021	.15	.001	1	1	1	3	4	5	1	1		Strong pyrite stringer with coating of ac.
705.0	720.0	15.0	13.2	5196	.220	.021	.15	.001	1	1	3	3	4	5	1	1		

AREA
DIP
AZIMUT

AREA _____ NORTHING _____
DIP _____ EASTING _____
AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P44
DATE COMPLETED _____ PAGE No. 14 of 16
LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
780.0	795.0	15.0	11.6	5287	.270	.025	.15	.001	2	–	W	W	W	W λ S	–	–		Pretore Zone - K-feldspar porphyry - Breccia Phenocrysts range from 1 to 5 mm. Highly variable - Weakly altered, plagioclase phenocrysts up to 3 mm and abundant book biotite ~~are~~ appear to melt in to a aphanitic matrix with weak disseminated fine grained pyrite and a weak sericitized biotite alteration. Quartz veins and stringers are sporadic and show no preferred orientation. Secondary Pyrite is present in veins and as a fine disseminated Weakly mineralized
795.0	810.0	15.0	13.5	5288	.175	.033	.15	.001	2	–	W	W	W	W λ S	–	–		
810.0	825.0	15.0	13.6	5289	.130	.014	.15	.001	2	–	W	W	W	W λ S	–	–		
825.0	~~840~~ 840.0	15.0	14.9	5290	.215	.049	.15	.001	2	–	W	W	W	W λ S	–	–		

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P44

DATE COMPLETED _____ PAGE No. 16 of 16

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
						ASSAY SUMMARY													
16.0	255.0	239.0			.052	.008													
255.0	570.0	315.0			.311	.018													
570.0	900.0	330.0			.215	.024													
225.0	900.0	645.0			.264	.021													

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA _____
DIP _____
AZIMUTH _____

NORTHING 22,835,988.4
EASTING 364,235.0
ELEVATION 4429.9

DATE COLLARED Feb 19/70
DATE COMPLETED Mar 3/70
LENGTH 1290.0 ft

HOLE No. P45
PAGE No. 1 of 22
CORE SIZE NQ - 0.0 - 234.0
BQ. 234.0 - 1290.0

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
12.0	15.0	3.0	2.0	5201	.035	.011	.01	-	-	S	W	S	W	S	-	-		
15.0	30.0	15.0	13.1	5202	.030	.011	.01	-	-	S	W	S R	W	S	-	-		
30.0	45.0	15.0	14.5	5203	.060	.019	.01	-	-	S	W	S R	W	S	-	-		

DESCRIPTION

Casing 0-12.0 ft

Leached Zone - Qtz. Diorite - Qtz Feldspar Porphyry

30 - Fragment of Feldspar Porphyry - Lotite Porphyry
Hard siliceous aspect rock, fine (1mm) microcrackled, angular to porphyritic quartz grains with intergranular yellow altered plagioclase and scattered up to 5mm sub-euhedral pale green altered plagioclase (qtz eyes characteristic). Rare fine books (1mm) biotite. Qtz content 80-90%. Highly fractured and brecciated with hematite (supergene altered magnetite) disseminated along hairline cracks. Fracture junctions often triangular shaped voids. Pseudomorphic tourmaline not common.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 2 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
45.0	60.0	15.0	14.6	5204	.065	.022	.01	-	-	S	W	S/I/R	W	S	-	-		Leached Zone - Qtz Diorite - Qtz Feldspar Porphyry Breccia
60.0	75.0	15.0	14.8	5205	.050	.017	.01	-	-	S	W	S/I/R	W	S	-	-		Hard, highly fractured, siliceous, fine (0.5-1mm) quartz (75%) - of suggestion of porphyritic texture but generally cracked and very granular (highly brecciated). Abundant up to 0.1 ft. breccia of same material with strong magnetite. Occasionally soft, dark green altered phyllic (10%) Disseminated magnetite common. Magnetite content 10-15% generally along cracks and fractures. Occ vugs at junction of strong fracture network
75.0	90.0	15.0	14.4	5206	.045	.025	.01	-	-	S	W	S/I/R	W	S				
90.0	105.0	15.0	14.6	5207	.070	.023	.01	-	-	S	W	S/I/R	W	S				

-98.0 - Pale green partly fine sericitized chloritic biotite now occasionally present

-102.5 - - - See next page.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 3 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
105.0	120.0	15.0	14.7	5208	.070	.023	.01	-	-	S	W	S	W	S	-	-		Leached Zone - Qtz Diorite - Qtz Feldspar Porphyry. Breccia Zone Soft medium grained (2mm) qtz, altered plagioclase with abundant secondary hematite -106.5- -107.0- As above. -108.0- Well fractured but brecciation rare. Occ. fine grained book of amphibole and biotite. Veinlets up to 3mm of magnetite often present. Rock appears to be completely brecciated and then re-healed with magnetite
120.0	135.0	15.0	14.8	5209	.060	.002	.01	-	-	S	W	S	W	S	-	-		-130.0- Brecciation with strong magnetite. Typical feldspar porphyry - aphanitic groundmass with book of biotite ≠ 0.2 ft - appears to be fine grained sediment silicified -131.0
135.0	150.0	15.0	14.2	5210	.070	.002	.01	-	-	S	W	S	W	S	-	-		
150.0	165.0	15.0	14.2	5211	.095	.019	.01	-	-	S	W	S	W	S	-	-		-160.0- Dark green, up to 5mm, altered plagioclase

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 4 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
165.0	180.0	15.0	14.8	5212	.090	.028	.01	-	1	S/M S	3 3	S/P S	3 1	S M	1 -	1			Leached Zone. Qtz Diorite - Qtz Feldspar Porphyry Breccia Zone 168.0 – Fracturing with brecciation and gouge infilling. Strong fracture at 70°. Shale is conformable with gneiss.
180.0	195.0	15.0	14.7	5213	.130	.002	.01	—	—	S/M S	3 3	S S	3 3	M S	— —	— —			177.0 – Brecciated - fine altered plagioclase phenocrysts in aphanitic matrix - Feldspar Porphyry Subhedral - rounded, dark green up to 6mm altered plagioclase in fine grained (2-3mm) qtz granular matrix. Fine dark green sericitized biotite often present 184.5 – chloritized?? Altered plagioclase in aphanitic matrix 190.0 – pyrite and sericite along fracture, and bleached dark grey pyrite. Mixed Qtz Diorite Green plagioclase often present, fine dark green partially sericitized biotite more common - weaker alteration Pyrite disseminated and along quartz fractures common. Intensity of fracturing decreases. Magnetite not abundant as previously - 2-3% Biotite 10%
195.0	210.0	15.0	14.7	5214	.145	.002	.01 .1	—	1/2-1 1	S S	3 3	M W	3 3	M M	1 -				196.0 – magnetite weakens, hematite rarely present. 201.0 – Angular - rounded fragment up to 0.2 ft of microfractured qtz, med-dark green plagioclase and abundant biotite in a slightly less biotitic (microsilicious) ground mass. Magnetite (white brecciated and fractured) gradually becomes common - 3% Disseminated pyrite rare very fine grained, rare cpy.
210.0	225.0	15.0	14.8	5215	.130	.606	.02	—	—	S	3	3	3	I	S?	M?			211.0 215.0 – 6mm. K-spar phenocryst. - Biotite - Kspar alteration zone Biotite may be secondary? Along pyrite crack dark green alt. plagioclase Magnetite now absent Highly siliceous with fine black biotite and abundant magnetite (3%) minor yellow altered plagioclase and fine K-spar? Blotches of alt plagioclase probably biotite with book biotite (sec) Biotite along fractures

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 5 of 22.

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
225.0	240.0	15.0	13.9	5216	.105	.011	.01	—	1	S	W	S	W	S	S?	M?			Leached Zone. - Qtz - Latite - Breccia Qtz microshattered. Hard, grey sometimes light colored poor cleavage - k-spar sec. Plagioclase pale dark green not common. Hard grey groundmass, aphanitic with very fine alt plagioclase inclusions Appears to be local zone - 235.0 - 6" Hour k-spar-sec. biotite - 238.0 - intermittent shears at 45° to core, 1/2" apart and decrease in frequency to 1" apart
240.0	255.0	15.0	13.9	5217	.115	.002	.01	—	—	S	W	S/M	W	S	1	1			
255.0	270.0	15.0	14.6	5218	.256	.011	.01	—	— ½	S	W	S/M	W	S	1	—			- 260.0 - Disseminated & fracture filling pyrite with goethite envelope.
270.0	285.0	15.0	14.9	5219	.415	.016	.5	—	½	S	W	S/M	W	S	—				- 272.0 - 1" Aplite commercializing fracturing - 275.0 - Pretore Zone Breccia fragments - chloritic biotite rich

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

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LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
285.0	300.0	15.0	14.8	5220	.280	.030	.05	-	½	S	W	S/M	W	S	-	-		
300.0	315.0	15.0	14.6	5221	.290	.082	.05	-	½	S	W	S/M	W	S	-	-		
315.0	330.0	15.0	14.7	5222	.195	.002	.05	-	½	S	W	S/M	W	S	-	-		
330.0	345.0	15.0	14.8	5223	.265	.028	.05	-	¼-½	S	W	S/M	W	S	-	-		

Pioture Zone - Qtz. Diorite - Breccia - Crackle Zone?

Excessive fracturing and sheeted, Moderate and moderate - strongly fine chloritic biotite

Specularite common in fractures and irregular veinlets (3mm)

-291.0- Fragments of feldspar Porphyry

-L-

-- Carbonate common present along fractures

-309.0- Moderate azurite along strong fractures

-320.0- scattered pink feldspar phenocrysts up to 5mm.

-328.5- 0.2 ft rounded fragment feldspar Porphyry - Latite Porphyry

-332.0- Weak fracturing - minor magnetite, strong pyrite ~ 2%

-335.0-

-345.0- Sericite bleached zones 3mm magnetite veinlet in fracture

AREA _____ NORTHING _____

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CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 45

DATE COMPLETED _____ PAGE No. 37 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
345.0	360.0	15.0	14.7	5224	.285	.025	.1	.02	½	S	W	M/S	W	S	-	-			Protore Zone - Qtz Diorite Breccia - Cu-Mo Zone? - 353.0 - fine sericitized band - 357.0 - Hard, blue-grey, fine grained (0.5mm) qtz, 80-90% and soft anhedral mauve altered plagioclase. Lesser angular yellow plagioclase. Biotite probably sericitized by increasing alteration. Strong disseminated and stringer pyrite. Occ. bornite, rarely magnetite present. Some mauve partly sericitized biotite. Weak disseminated fracturing. Weak qtz porphyry breccia or has been completely cemented together - qtz.
360.0	375.0	15.0	14.8	5225	.275	.016	.15	.02	3	I	W	M/M	W	I	-	-			- 371.0 - contact 60° - appears to be brecciated contact. Dark green, porphyritic qtz diorite. Mineralized up to 1cm subsidial light grey, moderate hornfelsed phenocrysts. Abundant fine chloritic biotite often partly sericitized. Abundant fine hematite often appear to be a feldspar porphyry - euhedral plagioclase in an aphanitic partly granular matrix. Limonite still common along strong fractures. Magnetite becoming common. Qtz content - 50%. Fine hook biotite - may be feldspar porphyry. Occ up to 0.2ft rounded fragment
375.0	390.0	15.0	14.7	5226	.290	.021	.15	.02	1	I	W	S	W	S	-	-			
390.0	405.0	15.0	14.3	5227	.540	.016	.15	.02	1	I?	W	S	W	S	-	-			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 8 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
405.0	420.0	15.0	14.6	5228	.225	.016	15	.01	1	S?	W	R S	W	S	1	1		Footwall Zone - Qtz Diorite - Feldspar Porphyry? Breccia Hematite and magnetite common as breccia and fracture filling & as pyrite-chalcopyrite with narrow envelope of specular. Fine grained biotite may be secondary after mafic irregular clots and masses - 5 mm in diameter - ssc? Qtz - 80-90% Yellow grey subhedral plagioclase and biotite - magnetite 5-10%. Qtz? - aphanitic groundmass - sometimes slightly granular.
420.0	435.0	15.0	14.9	5229	.250	.022	.15	.01	1	S?	W	S R	W	S	1	1		
435.0	450.0	15.0	14.8	5230	.235	.009	.15	.01	2	S?	W	S R	W	S	1	1		- 437.5 - 0.2 ft fragment feldspar porphyry. - 443.0 - fragment feldspar porphyry. - 444.0
450.0	465.0	15.0	14.8	5231	.226	.019	.15	.01	2	S?	W	S R	W	S	1	1		- 460.0 - Altered plagioclase phenocrysts become rare.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 9 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
465.0	480.0	15.0	14.6	5232	.295	.017	.15	.02	2	S?	W	S N	W	S	–	–		
480.0	495.0	15.0	14.7	5233	.265	.017	.15	.02	2	W	W	W/M K	W	S X W	–	–		
495.0	510.0	15.0	14.7	5234	.200	.002	.15	.02	1	S	W	M R	M	S	–	–		
510.0	525.0	15.0	14.6	5235	.210	.003	.1	.02		S	W	M R	M	S	–	–		

DESCRIPTION

Pistoric Zone - Qtz Diorite - Feldspar Porphyry?

Breccia

Glassy grey-white - slightly granular with shattering of fine yellow-stained plagioclase. Weak brecciation along joints. Abundant hematite and magnetite. Moderate pyrite and copy.

-483.0 — Feldspar Porphyry

Phenocrysts of med green-white altered plagioclase with abundant rock biotite becomes common. Groundmass - grey - slightly granular.

-502.0 — gradation - increased brecciation, fracturing, hematite-magnetite with phenocrysts not distinct. Qtz. serrenvelopes around pyrite clusters more common. Magnetite-hematite not as prominent as before 483.0 ft. Angular breccia fragments up to 0.1ft (sec.) often present. Gouge common along strong fractures. Occ fragment.

AREA _____ NORTHING _____

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AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 10 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
525.0	540.0	15.0	14.7	5236	.315	.0057	.1	.02	2	M	W	M R	M	S	–	–		Pistare Zone - Feldspar Porphyry - Breccia Magn. Lite-hematite not common. Stockwork qtz stringers with up to 1cm. qtz-ser envelopes. 530.0 – fragments biotite not common
540.0	555.0	15.0	14.6	5237	.275	.005	.1	.02	2	M	W	M R	M	S	–	–		548.0 – fragment? Feldspar porphyry - breccia? 550.0 – slightly wider fracturing with stronger magnetite-hematite
555.0	570.0	15.0	14.8	5238	.335	.005	.1	.02	2	M	W	M R	M	S	–	–		– stronger brecciation with rehealing of fragments
570.0	585.0	15.0	14.8	5239	.390	.002	.1	.02	2	S	W	S R	M	W/M				585.0 – brecciation weakens

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 45

DATE COMPLETED _____ PAGE No. 11 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
585.0	600.0	15.0	14.4	5240	.290	.019	.1	.02	1-2	W	W	W/M/R	M	W	–	–			Protore Zone – Felspar Porphyry – Breccia?
600.0	615.0	15.0	13.8	5241	.320	.007	.1	.02	1	W	W	W	W	W	–	–			609.0 – Highly fractured with clear magnetite 612.0 – Gen. magnetite-hematite
615.0	630.0	15.0	13.2	5242	.180	.002	.1	.02	1	W	W	W	W	W	–	–			
630.0	645.0	15.0	13.5	5243	.140	.012	.1	.02	1	W	W	W	W	W					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 12 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
645.0	660.0	15.0	14.7	5244	.225	.002	.05	.01	1	w	w	w	w	w	—	—			Protore Zone - Feldspar Porphyry - Breccia? Rare fragment of fine grained basic rock.
660.0	675.0	15.0	14.5	5245	.265	.002	.05	.01	1	w	w	w	w	w	—	—			- 654.0 - Large clasts - 1cm of mafic rock. - 658.0 -
675.0	690.0	15.0	14.6	5246	.195	.036	.05	.01	1	w	w	w	w	w	—	—			
690.0	705.0	15.0	14.9	5247	.195	.024	.05	.01	1	w	w	w	w	w	—	—			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 13 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
705.0	720.0	15.0	14.8	5248	.085	.009	.05	.01	1	w	w	w	w	f/w	-	-			Pretoria Zone - Feldspar Porphyry
										w	w	w	w	f/w	s.				710.0 - Dark colored Plagioclase phenocrysts not prominent. Abundant fine disseminated black biotite in poorly defined, narrow bands and as fine disseminated secondary? Groundmass. Plagioclase phenocrysts to ¼ mm.
720.0	735.0	15.0	15.0	5249	.080	.002	.05	.01	1	w	w	w	w	f/w	s	-			730.0 - Fine sec. biotite (remains common)
735.0	750.0	15.0	15.0	5250	.110	.002	.05	.01	1	w	w	w	w	f/w	s				750.0 - distinct bands sec. biotite now rare. Fineness in groundmass. Plagioclase phenocrysts to 1cm become common
750.0	765.0	15.0	14.9	5251	.145	.002	.05	.01	1	w	w	w	w	f/w	s.				

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 14 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
765.0	780.0	15.0	14.9	5252	.095	.016	.05	.01	1	w	w	w	w	w/m	s	i			Protore Zone - Feldspar Porphyry
																			- 0.1 ft rounded grey aphanitic fine specks biotite
																			- 778.0 - 779.0 ... and 0.2 ft fragment of fine grained ... fine sec. biotite
780.0	795.0	15.0	14.8	5253	.065	.015	.05	.01	1	w	w	w	w	m/s	s	—			
										w	w	w	w	M	—	—			- 791.0 - pyritic fracture 45° with border strong argillic alteration - change in rock type
																			Fine grained, dark, intrusive almost completely silicified ... also shows some phenocrysts. Abundant pyrite 3-5 %
795.0	810.0	15.0	15.0	5254	.135	.013	.05	.01	1	w	w	w	w	w/m	s	—			- 799.5 - Pyrite stringers with ... alteration envelopes become more continuous. Fine dis sec. biotite, weakens. Occ fracture with carbonate
810.0	825.0	15.0	14.9	5255	.135	.016	.05	.01	½	w	w	w	w	m/s	s	—			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 15 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
820.0	840.0	15.0	14.9	5256	.095	.002	.05	.01	½	W	W	W	W	F/W	W/M	–	–	Protore Zone - Feldspar Porphyry Fine-grained biotite now not as common 820.0 - dark 0.1ft rounded fine-grained biotite fragment 830.0 - 1 0ft 45° sharp contact - aphanitic fine grained biotite
840.0	855.0	15.0	14.6	5257	.105	.012	.05	.01	½	W	W	W	W	F/W	W/M	–	–	
855.0	870.0	15.0	14.8	5258	.090	.014	.05	.01	½	W	W	W	W	F/W	W/M	–	–	
870.0	885.0	15.0	15.0	5259	.120	.021	.05	.01	½	W	W	W	W	F/W	W/M	–	–	

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P-45

DATE COMPLETED _____ PAGE No. 16 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
885.0	900.0	15.0	14.8	5260	.115	.005	.15	.01	½	3	3	3	3	2/3	3/M	1	1	Potash Zone - Feldspar Porphyry
900.0	915.0	15.0	14.9	5261	.095	.010	.05	.01	½	3	3	3	3	2/3	3/M	-	-	
915.0	930.0	15.0	15.0	5262	.100	.005	.05	.01	½	3	3	3	3	2/3	3/M			
930.0	945.0	15.0	14.9	5263	.100	.003	.05	.01	½	3	3	3	3	2/3	3/M			
																		941.0 – Large (>5mm) phenocrysts not as common and fine shredded biotite there common

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 17 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
945.0	960.0	15.0	14.8	5264	.130	.005	.05	.01	½	w	w	w	w	f/w	w/m	–			Protore Zone – Feldspar Porphyry
960.0	975.0	15.0	14.9	5265	.115	.015	.05	.01	½	w	w	w	w	f/w	w/m	–	–		
975.0	990.0	15.0	15.0	5266	.160	.017	.05	.01	½	w	w	w	w	f/w	w/m	–	–		-973.0 – tourmaline veinlet strongly altered along fracture. Increasing
990.0	1005.0	15.0	14.9	5267	.130	.015	.05	.01	½	w	w	w	w	f/w	w/m	–	–		-988.0 – cliff pyrite-sphalerite veinlet

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 18 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1005.0	1020.0	15.0	14.7	5268	.145	.018	.05	.01	½	W	W	W	W	F/W	W/M	I			Proterozoic - Feldspar Porphyry.
1020.0	1035.0	15.0	14.8	5269	.115	.030	.05	.01	½	W	W	W	W	F/W	W/M	I			
1035.0	1050.0	15.0	15.0	5270	.110	.022	.05	.01	½	W	W	W	W	F/W	W/M	I			1038.0 Slightly stronger fracturing
1050.0	1065.0	15.0	14.9	5271	.150	.015	.05	.01	½	W	W	W	W	F/W	W/M	I			1058.0 Brecciated with biotite often partly sericitized, often see biotite along strong fractures.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 45

DATE COMPLETED _____ PAGE No. 19 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
1065.0	1080.0	15.0	15.0	5272	.105	.017	.05	.01	½	w	w	w	w	s/w	w/m	–	–	Pioteria Zone - Feldspar Porphyry.
1080.0	1095.0	15.0	15.0	5273	.095	.020	.05	.01	½	w	w	w	w	s/w	w/m	–	–	1083.0 – Normal 5mm phenocrysts observed in the weak phase, moderate sericite & chlorite. Plagioclase altered to dark-pale green clay. Occasional pyrite stringer or fracture.
1095.0	1110.0	15.0	15.0	5274	.155	.017	.05	.01	½	w	w	w	w	f/w	w/m	–	–	
1110.0	1125.0	15.0	15.0	5275	.095	.017	.05	.01	½	w	w	w	w	f/w	w/m	–	–	

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 20 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1125.0	1140.0	15.0	14.9	5276	.055	.002	.05	.01	½	w	w	w	w	f/w	w/m	–			Proto. - Feldspar Porphyry
1140.0	1155.0	15.0	14.9	5277	.105	.025	.05	.01	½	w	w	w	w	f/w	w/m	–			
1155.0	1170.0	15.0	15.0	5278	.120	.023	.05	.01	½	w	w	w	w	f/w	w/m	–			-- 1155.0 -- Plagioclase megacrysts altered to soft yellowish clay -- 1162.0 --
1170.0	1185.0	15.0	14.9	5279	.090	.023	.05	.01	½	w	w	w	w	f/w	w/m	–			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P45

DATE COMPLETED _____ PAGE No. 21 of 22

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
1185.0	1200.0	15.0	14.8	5280	.045	.017	.05	.01	½	W	W	W	W	S/W	S/M	—			Protoic - Felspar Porphyry.
1200.0	1215.0	15.0	15.6	5281	.060	.019	.05	.01	½	W	W	W	W	S/W	S/M	—	—		
1215.0	1230.0	15.0	15.0	5282	.075	.014	.05	.01	½	W	W	W	W	S/W	S/M				
1230.0	1245.0	15.0	14.2	5283	.080	.021	.05	.01	½	W	W	W	W	S/W	S/M				-1232.0- and gypsum. See biotite common along fracture parallel to core axis -1245.0-

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Pa Hon Hill
DIP -90°
AZIMUTH —

NORTHING 22,835,673.5
EASTING 364,499.8
ELEVATION 4,447.7

DATE COLLARED Feb 16/76
DATE COMPLETED Mar 3/76
LENGTH 345.0 ft.

HOLE No. P46
PAGE No. 1 of 6
CORE SIZE NQ - 0.0-345.0 ft

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
																			Casing 0.0 – 15.0 ft.
15.0	30.0	15.0	13.8	5301	.025	.008	–	–	–	S	W	M	W	S/H	–	–			Leached Zone - Qtz Diorite - Qtz Porphyry - Breccia Grey-white, hard, fragments of qtz porphyry (centroid up to 3mm in section, square or hexagonal shaped), diorite (? med grained (± 3mm) angular and K-feldspar porphyry white highly altered plagioclase ^ generally [illegible] to 0.2 ft in diameter in a fine grained [illegible] granular qtz and intergranular yellow highly altered plagioclase. Specularite rarely megascopic common especially where intensely bracciated. Moderate fracturing with granular rugs common. Specularite common on fracture planes Qtz grains and feldspars in feldspar porphyry generally micro cracked and bent. Occ qtz-feldspar porphyry fragment. Rare
30.0	45.0	15.0	14.4	5302	.050	.036	–	–	–	S	W	M	W	S/H	–	–			
45.0	60.0	15.0	13.1	5303	.040	.025	–	–	–	S	W	M	W	S/H					

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 46

DATE COMPLETED _____ PAGE No. 2 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
60.0	75.0	15.0	9.1	5304	.045	.030	—	—	—	S	W	M	W	S/I	—	—			Leached Zone - Qtz Diorite - Qtz Porphyry? Breccia
75.0	90.0	15.0	10.1	5305	.035	.011	—	—	—	S	W	M	W	S/I					
90.0	105.0	15.0	14.4	5306	.055	.019	—	—	—	S	W	M	W	S/I					
105.0	120.0	15.0	13.9	5307	.075	.019	—	—	—	S	W	M/I	W	S/I					107.0 Breccia Matrix? - Qtz Diorite Qtz Porphyry? Fine-grained, occasionally medium grained (2-3mm) quartz granules in a yellow altered plagioclase. Qtz phenos angular to phenocrystic and highly fractured. Occ soft pale green plagioclase - 2-3mm. Mafic content 50-85%. Often up to 5mm. angular [illegible] fragments(?) Weak specularite. Not as well fractured as previous. Widely spaced fractures vuggy and goethitic. Limonite spotty bowmark. Tourmaline slightly K-Var developed 115.0

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P4C

DATE COMPLETED _____ PAGE No. 3 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
120.0	135.0	15.0	12.2	5308	.090	.061	-	—	—	S	W	S	W	S	-	—		
135.0	150.0	15.0	14.8	5309	.060	.042	-	—	—	S	W	S	W	S	-	—		
150.0	165.0	15.0	14.3	5310	.100	.030	-	—	—	S	W	S	W	S	-	—		
165.0	180.0	15.0	14.7	5311	.040	.025	—	—	-	S	W	W	W	S	-	-		

DESCRIPTION

Leached zone Qtz Diorite? Qtz Porphyry-Breccia

115.0 — moderate - loosely packed
Numerous rounded fragments up to .2ft - mainly porphyritic material.
Minor angular rounded qtz in qtz porphyry fragments
Qtz fragments up to 1 cm. commonly rimmed by phenocrysts? Specular hematite common along fractured fractures

147.0 Up to 0.5 ft rounded angular, commonly rounded with sharp outline qtz phenocrysts in argillic matrix - fragments crumble when ground but up to 5 mm qtz phenocrysts? common on fracture surfaces - remnants of hematite

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P4L

DATE COMPLETED _____ PAGE No. 4 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
180.0	195.0	15.0	14.8	5312	.125	.028				S?	W	W/M	W	S	-	-			Leached Zone - Qtz. Diorite - Brecciated Qtz Porphyry Silicification (Breccia may only) reflect initial composition rock - no silica added 182.0 - 1 ft. foliated fine qtz. porphyry Fragments very shuttle - breccia well healed. Qtz. porphyry bands (0.5 ft) not common. Hematite not common.
195.0	210.0	15.0	13.9	5313	.105	.016				S?	W	W/M	W	S	-	-			197.0 Top of core 201.0 - Well cemented - other brecciated qtz rich fragments (quartz, tourmaline as interfragment matrix. Good disseminated py. Fine and medium grained qtz porphyry and feldspar. Minor qtz porphyry fragments common. Tourmalite not common. Cut many fine veinlets containing tourmalite as narrow fracture filling
210.0	225.0	15.0	14.7	5314	.045	.014				S?	W	W/M	W	S	-	-			223.5 - bottom of tourmaline breccia cement. Disseminated tourmaline still common as thin small (2mm) veinlets
225.0	240.0	15.0	12.9	5315	.060	.002				S?	W	W/M	W	S	-	-			228.0 - Hematite more common with slightly increased fracturing

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 46

DATE COMPLETED _____ PAGE No. 6 of 6.

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
300.0	315.0	15.0	14.5	5320	.065	.017	-	-	-	W	W	W	W	S	-	-		
315.0	330.0	15.0	14.7	5321	.060	.002	-	-	-	W	W	W	W	S	-	-		
330.0	345.0	15.0	15.0	5322	.080	.011	-	-	-	S?	W	S.	W	S	-	-		

DESCRIPTION

Leached Zone - Feldspar Porphyry (Dacite?) - Breccia?

Rare up to 3mm, dusty center, white rimmed plagioclase phenocryst

-323.0 - gradational? - strong fracturing 20° to core axis

Feldspar breccia fragments up to 0.1 ft. prominent.

-329.7 - contact ground - schistose 45° to core axis

Qtz Porphyry - Qtz diorite Breccia

'Porphyritic' - angular - subrounded with distinct sharp outline, and fine grandular quartz (.05 - 10mm) quartz in a yellow soft altered plagioclase groundmass.

Breccia fragments of above up to 0.1 ft where intensely brecciated strong tourmaline and hematite

345.0 End of hole - abandoned P 46A started 3 ft from P 46.

AREA Pothook Hill
DIP -90°
AZIMUTH —

NORTHING 22,835,675.4
EASTING 364,500.2
ELEVATION 4447.7

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED Mar 4/70
DATE COMPLETED Mar 9/70
LENGTH 468.0 ft

HOLE No. P 46A
PAGE No. 1 of 3
CORE SIZE NQ 0.0-468.0 ft

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
0.0	340.0																		Non-ore zone 0.0-340.0 ft
340.0	345.0	NOT	SAMPLED	- See	assay	results	P46												Protore Zone - Exploded Qtz Porphyry - Breccia
345.0	360.0	15.0	15.0	5323	.100	.020	.01	01	1/4	N	2/M	N	W/M	I	—	—			Yellow, abundant irregular square-angular - phenocrystic quartz granules in a yellow highly altered plagioclase matrix. Qtz 30 & 5% Occ soft pale green subhedral orthoclase - plagioclase phenocrysts. Qtz phenocrysts to 3mm Occ Dark Grey Qtz phenocrysts to 3mm in soft yellow sericite matrix Occ up to 3.2-4 sphene in clusters Occ fractures with limonite stained clay and vuggy fractures. Occ anhydrite veins present. No ore. Fine gtz veinlets in upper 5 ft of zone
360.0	375.0	15.0	14.1	5324	.075	.023	.01	.01	1/4	N	W/	N	W/M	I	—	—			357.5 - 100% strong fracturing above and below Up to 5% of anhydrite veins in upper 5 ft of zone
375.0	390.0	15.0	15.0	15.0	.120	.023	.01	.01	1/4	N	W	N	W/M	I	—	—			366.0 - Appreciably stronger leached and intensely altered 368.0 - 1% microgranular anhydrite up to 0.1 ft fragments - locally soft become common yellow bands and Occ fragments of Qtz-Feldspar Porphyry and Qtz-weak feldspar Porphyry. Fracturing weakens after 348 ft

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P46A

DATE COMPLETED _____ PAGE No. 2 of 3

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
390.0	405.0	15.0	14.7	5326	.125	.031													Pretore Zone - Exploded Porphyry - Breccias
405.0	420.0	15.0	15.0	5327	.105	.021													-415.0- Bands of light & dark grey aphanitic with fine weak pale green-white plagioclase phenocrysts common. Rare up to 2mm qtz phenocrysts. Rare tourmaline. Weak foliation 45° Dec pyrite changed to envelope of pyrite
420.0	435.0	15.0	15.0	5328	.135	.002													-433.0 - gradational Yellow, abundant fine diss py, soft aphanitic matrix, minor fine plagioclase phenocrysts. Film of cc on pyrite
435.0	450.0	15.0	14.3	5329	.130	.002			3.										-448.5- Brecciated intensely, 5%–10% pyrite. Abundant hematite

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P46A

DATE COMPLETED _____ PAGE No. 3 of 3

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
450.0	459.0	9.0	7.1	5530	.290	.016												Proto. Zone - Exploded Qtz. Porphyry - Breccia Rounded qtz. fragments to 0.1cm 454.0 – – 459.0 – No core
465.0	468.0																	– 468.0 – End of hole
				ASSAY SUMMARY														
150	459.0	444.0		.084	.022													

No.	from	to	wdth. ft.	CU %	CU % ft.	MoS_2 %	MoS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt. P-46 B Rotary
672	0	5	5'	.065		.003										44
3	5	10		.065		.020										6
4	10	15														
675	15	20														
6	20	25		.075		.009										84
7	25	30		.065		.011										102
8	30	35		.080		.008										104
9	35	40		.060		.010										68
680	40	45		.040		.011										102
1	45	50		.025		.014										76
2	50	55		.065		.020										100
3	55	60		.090		.009										126
4	60	65		.065		.015										104
685	65	70		.075		.004										94
6	70	75		.085		.004										96
7	75	80		.050		.007										102
8	80	85		.045		.002										80
9	85	90		.030		.002										102
690	90	95		.030		.002										102
1	95	100		.035		.002										84
2	100	105		.055		.009										114
3	105	110		.070		.002										104
4	110	115		.035		.002										98
695	115	120		.060		.004										102
6	120	125		.080		.002										100
7	125	130		.070		.002										118
8	130	135		.095		.002										100
9	135	140		.040		.002										104
700	140	145		.090		.007										106
1	145	150		.065		.007										100
2	150	155		.040		.013										100
3	155	160		.075		.011										104
4	160	165		.105		.025										112
705	165	170		.090		.014										100
6	170	175		.085		.003										88
7	175	180		.120		.019										104
8	180	185		.170		.018										98

CASINO

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No.	from	to	wdth. ft.	CU %	CU % ft.	MoS_2 %	MoS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			Sft. P-46 B(2) Point	
709	185	190	5'	.125		.020											100
710	190	195		.150		.025											104
11	195	200		.155		.012											102
12	200	205		.085		.005											92
13	205	210		.075		.008											98
14	210	215		.085		.010											100
715	215	220		.135		.013											102
16	220	225		.065		.010											104
17	225	230		.060		.010											104
18	230	235		.065		.024											106
19	235	240		.040		.023											100
720	240	245		.050		.009											102
1	245	250		.050		.007											100
2	250	255		.115		.014											104
3	255	260		.075		.028											100
4	260	265		.045		.010											90
725	265	270		.105		.009											98
6	270	275		.085		.010											104
7	275	280		.135		.016											100
8	280	285		.120		.016											64
9	285	290		.120		.005											76
730	290	295		.080		.023											102
1	295	300		.050		.028											78
2	300	305		.055		.017											112
3	305	310		.040		.007											72
4	310	315		.055		.007											96
735	315	320		.045		.006											118
6	320	325		.045		.006											110
7	325	330		.050		.002											114
8	330	335		.040		.003											102
9	335	340		.050		.004											116
740	340	345		.040		.009											106
1	345	350		.040		.010											104
2	350	355		.055		.008											108
3	355	360		.085		.005											112
4	360	365		.195		.002											108
745	365	370		.105		.002											114

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS2 %	MOS2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.	wt. P-46 B(3) rotary
746	370	375	5'	.100		.005								96
7	375	380		.125		.002								106
8	380	385		.170		.002								106
9	385	390		.110		.015								104
750	390	395		.115		.021								96
1	395	400		.115		.017								64
2	400	405		.050		.024								120
3	405	410		.065		.022								84
4	410	415		.040		.024								100
755	415	420		.225		.027								128
6	420	425		.350		.013								137
7	425	430		.310		.026								104
8	430	435		.500		.029								120
9	435	440		.345		.021								98
760	440	445		.560		.029								130
1	445	450		.300		.034								106
2	450	455		.390		.031								100
3	455	460		.290		.021								114
4	460	465		.395		.026								110
765	465	470		.280		.029								108
6	470	475		.385		.023								104
7	475	480		.180		.018								104
8	480	485		.080		.008								110
9	485	490		.430		.029								106
770	490	495		.340		.031								102
1	495	500		.450		.023								104
2	500	505		.325		.026								104
3	505	510		.425		.034								108
4	510	515		.265		.026								96
775	515	520		.460		.029								84
6	520	525		.365		.026								106
7	525	530		.780		.029								106
8	530	535		.525		.026								102
9	535	540		.490		.008								104
780	540	545		.395		.026								96
1	545	550		.475		.047								72
2	550	555		.860		.054								88

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			
																P-46 B(4) rotary
783	555	560	5'	.780		.052										92
4	560	565		.525		.041										108
785	565	570		.700		.044										114
6	570	575		.660		.031										104
7	575	580		.440		.039										110
8	580	585		.490		.029										108
9	585	590		.530		.090										98
790	590	595		.500		.054										60
1	595	600		.400		.034										104
2	600	605	5'	.525		.052										110
	0	420	420	.079		.011									.102	Cu/110
	420	605	185	.446		.032									.511	

AREA Patton Hill
DIP -90°
AZIMUTH -

NORTHING 22,835,254.2
EASTING 364,508.7
ELEVATION 4475.2

CASINO SILVER MINES LTD.
DRILL HOLE LOGS

DATE COLLARED Mar 7/70
DATE COMPLETED Mar 14/70
LENGTH 383.0 ft.

HOLE No. P47
PAGE No. 1 of 5
CORE SIZE NQ - 0.0 - 383.0

SAMPLE AND ASSAY DATA										ALTERATION								DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
																		Casing 0 - 59.0
59	60.0	1.0	0.9	5062	.008	.006												59.0 Leached Zone - Exploded into Porphyry-Breccia
60.0	75.0	15.0	6.1	5063	.009	.002	-	-	-	-	-	W	N	S	-	-		Numerous, generally angular up to 0.1ft fragment of grey, angular - porphyritic qtz gra (30%) with yellow altered plagioclase matrix, rarely white plagioclase and plagioclase phenocrysts. Abundant fragments of recrystallized qtz grains - phenocrysts in a soft yellow qtz. and plagioclase matrix. Up to 5% fragments of sericitized and oxidized fine-med. grained qtz-feldspar porphyry. Trace to 1% brecciated qtz with limonite in strong fractures.
75.0	90.0	15.0	11.2	5064	.002	Tr.	-	-	-	-	-	W	N	S	-	-		Fragments usually up to .2 ft of coarse grained qtz. altered plagioclase. In parts abundant hematite, disseminated and fracture controlled. Often clusters of qtz phenocrysts
90.0	105.0	15.0	11.0	5065	.002	.006	-	-	-	-	-	W	N	S	-	-		

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P47

DATE COMPLETED _____ PAGE No. 2 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
105.0	120.0	15.0	11.7	5066	.003	.008	–	–	–	1	1	W	–	S	1	1			Protore - Exploded Porphyry - Breccia Tourmaline and hematite rare. Fragmental breccia poorly developed
120.0	135.0	15.0	11.1	5067	.006	.004	–	–	–	–	–	W	–	S	–	–			
135.0	150.0	15.0	10.7	5068	.004	.004													-134.0- Mainly rhyolite matrix breccia consisting of white yellow altered plagioclase phenocrysts. -139.0- Dirty grey Feldspar Porphyry with up to 7 mm yellow altered plagioclase phenocrysts becomes more rock fragments and sands to 25% with yellow irregular blebs of soft aphanitic plagioclase and qtz phenocrysts
150.0	165.0	15.0	12.7	5069	.011	.040													

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P47

DATE COMPLETED _____ PAGE No. 3 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
165.0	180.0	15.0	12.5	5070	.006	.002													Leached Zone - Exploded Porphyry - Qtz Porphyry Feldspar Porphyry - Breccia?
180.0	195.0	15.0	14.0	5071	.005	.004													174.0 – Mainly granulated qtz - angular - porphyritic in a soft yellow aphanitic altered plagioclase matrix. Scattered convoluted stringers up to 5mm. Fragmental - bands of grey soft porphyry with specks of yellow white altered plagioclase phenocrysts. Occ. tourmaline along fracture.
195.0	210.0	15.0	11.1	5072	.002	.006													189.0 – Granulated phenocrysts qtz grains abundant and angular in soft yellow aphanitic matrix with abundant fine white plagioclase phenocrysts and scattered up to 1cm white yellow altered plagioclase phenocrysts. Occ. band of Qtz Porphyry – Yellows - jarosite - ferrian hydrosilicate - supergene clays along shear fractures.
210.0	225.0	15.0	11.2	5073	.005	.006													220.0 – See next page.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P47

DATE COMPLETED _____ PAGE No. 4 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
225.0	240.0	15.0	5.9	5074	.005	.006												
240.0	255.0	15.0	6.0	5075	.005	.007												
255.0	270.0	15.0	2.1	5076	.005	.003												
270.0	285.0	15.0	4.3	5077	.005	Tr												

DESCRIPTION

Leached Zone - Exploded Porphyry - Breccia

Scattered up to 5mm stockwork veins with yellow stained plagioclase matrix containing trace pyrite and one vein with galena and minor sphalerite. Core highly broken.

279.0 — Rock more competent

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P47

DATE COMPLETED _____ PAGE No. 5 of 6

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
2850	300.0	15.0	3.7	5078	.007	.005													Leached Zone - Feldspar Porphy - Qtz Feldspar Porphyry
300.0	315.0	15.0	11.4	5079	.010	.006													
315.0	330.0	15.0	9.5	5080	.006	.008													-315.0- Grey feldspar porphyry with abundant qtz blebs and 5% altered plagioclase phenocrysts -324.0- Fragments up to 0.5" of feldspar porphyry become common
330.0	345.0	15.0	11.9	5081	.007	.007													-331.0- Grey feldspar porphyry as above - hard aphanitic qtz plagioclase matrix. -338.0- See page 6

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P47

DATE COMPLETED _____ PAGE No. 6 of 6.

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
[illegible]	360.0	15.0	13.6	5082	.010	.007													Leached Zone - Qtz Porphyry - Qtz Feldspar Porphyry - Alternating irregular bands up to 10 ft. of Qtz Porphyry - scattered qtz phenocrysts up to 1 cm in a soft pale grey matrix with scattered qtz crystals and pale green mafic crystals - Qtz Feldspar Porphyry - pale grey aphanitic matrix with numerous fine scattered plagioclase phenocrysts and scattered qtz phenocrysts up to 1.5 cm in diameter. Tourmaline common in both types.
[illegible]	[illegible]	15.0	14.2	5083	.018	.007													365.0 Fragments up to 0.5 ft. in core
375.0	383.0	8.0	4.7	5084	.014	Tr.													383.0 - End of hole - Rods stuck - fishing unsuccessful - Hole abandoned.

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

AREA Patton Hill | NORTHING 22,836.740 | DATE COLLARED Mar 3/70 | HOLE No. P 98
DIP -90° | EASTING 346.222 | DATE COMPLETED Mar 16/70 | PAGE No. 1 of 13
AZIMUTH — | ELEVATION 3207.6 | LENGTH 800.0 ft | CORE SIZE NQ-0.0 - 800.0 ft

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
67.0	80.0	13.0	7.0	5295	.059	003		.001	—	+	~	W	~	F W	~	~		
80.0	95.0	15.0	8.5	5296	.041	002	.1	.001	~	~	~	W	~	F W	~	~		
95.0	110.0	15.0	6.0	5297	.082	.005	.005	.001	~	~	~	W	~	F	~	~		

DESCRIPTION

Casing 0.0 - 67.0 ft

67.0 — Leached Porta. - Granodiorite
Pseudomorphs of Feldspar Phenocrysts, chydacite groundmass
68.0 — 67.0 fine grained granular granodiorite
local sericitic & biotite
White, fine grained granular [illegible]
[illegible] and local [illegible]
[illegible]
[illegible] ground to a fine, pasty sericitized matrix
not common, often biotite altered. Biotite [illegible]
Yellow orange film of jarosite [illegible] common along fracture
77.0 Porta. weakening

94.0 — Platy, fresh biotite become more common.

100.0 — contact ground.
Mixed Qtz Diorite - fine grained, abundant fresh biotite often sericitized, weakly altered

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P48

DATE COMPLETED _____ PAGE No. 2 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
110.0	125.0	15.0	11.1	5298	.295	.008	.01	.001	1/4	–	–	W	–	S	–	–		
										–	–	W	T	T	–	–		
125.0	140.0	15.0	11.7	5299	.325	.008	.01	.001	1/4	–	–	W		M/S	–	–	–	–
										–	–	W	–	T	–	–		
140.0	155.0	15.0	10.8	5300	.460	.015	.01	.001	1/4	–	–	W	–	M/S	–	–		
							.1			–	–	W	–	M/S	–	–		
155.0	170.0	15.0	9.0	5432	.286	.003	.2	.001	2	–	–	W	–	M	–	–		

DESCRIPTION

Leached Zone – Qtz. Diorite

106.0 – Soft crumbly biotite bearing material, core is core rigid strength, with a clay fraction

114.0 – Pre Tore Zone – Qtz. Diorite

116.0 – 0.5 ft blocky, gtz diorite, hard, [illegible]

[illegible]

124.0 –

125.0 – [illegible]

127 – [illegible]

142.0 – Porphyritic – petrographic with white [illegible]

154.0 – Phenocrysts – [illegible]

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P48

DATE COMPLETED _____ PAGE No. 3 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
170.0	185.0	15.0	6.6	5433	.177	.017	.2	.01	2	–		M	–	M	–	–		
185.0	200.0	15.0	11.5	5434	.195	.010	.2	.01	2	–		M 0-30	–	M	–	–		
200.0	215.0	15.0	13.0	5435	.238	.047	.25	.04	1.5	–	–	C 0-30	–	W/M	–	–		
215.0	230.0	15.0	14.0	5436	.152	.056	.3	.03	2	–	W/M	W/M	–	W/M	–	–		

DESCRIPTION

Fracture zone, intermittent

~187.0 – [illegible]

Mica [illegible]

~192.0 – [illegible]

~213.0 – White qtz veining up to 1cm. often present and containing coarse cpy and minor cpy. Cpy often in hairlike cracks, fractures and qtz veinlets. Intensity of fracturing probable grade factor. Rare hematite in fractures

~223.0 –

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P-13

DATE COMPLETED _____ PAGE No. 1 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
230.0	245.0	15.0	9.7	5437	.299	.020	.3	.01	2	–	W	M	–	W/M	–	–			Pretore Zone – Qtz Diorite -248 – Sericite -240.0 – Silicification, fracturing weaker. Core is very fresh. Stockwork still intact but not intensive. Little pyrite. Phenocrysts.
245.0	260.0	15.0	11.1	5438	.117	.005	.15	.01	1	–	W/M	W	–	W	–				
260.0	275.0	15.0	12.5	5439	.205	.017	.2	.01	1	–	W	W/M	–	M	–				-260.0 – Alteration and fracturing increase
275.0	290.0	15.0	10.1	5440	.133	.005	.2	.01	1	–	W	W/M	–	W	–	–			-268.0 – Alteration weaker but fracturing as previous. Minor intrafracture chlor py and cpy. Occ. mafic on quartzose hairlike fractures.

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P48

DATE COMPLETED _____ PAGE No. 5 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
290.0	305.0	15.0	11.3	5441	.187	.096	.2	.02	1	–	W	M	–	W	–	–			Pot. zone. - Qtz Diorite Occ magnetite rare hematite along cracks and fractures and often associated with pyr and cpy. fractures slightly quartzy. -294.0 Slickenside-0° with moly -297-
305.0	320.0	15.0	15.0	5442	.179	.089	.15	.02	1	–	W	M	–	W	–	–			-308.0 - decreasing cpy increasing magnetite in fractures. Pyrite decreases 315.0 - fracturing becomes weak and rock more massive
320.0	335.0	15.0	14.4	5443	.193	.022	.1	.02	2		W	W	–	M	–	–			-319.0 - Gradational with increasing alteration - plagioclase become resinous pale green and biotite weakly - completely sericitized -325.0 - contact 90° White, granular - wedge qtz and white altered plagioclase. Weak py. Occ. slickensided fracture - 0°
335.0	350.0	15.0	14.8	5444	.142	.010	.1	.02	1/4		–	W	–	S	–	–			-341.5 - gradational See Page 6

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P48

DATE COMPLETED _____ PAGE No. 6 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		DESCRIPTION
350.0	365.0	15.0	13.8	5445	.153	.013	.2	.01	1	–	1	W	–	W/M	–	–		Pyrite, 2on2 - Qtz Diorite Slightly coarse grained, plagioclase, pale - med green mostly altered ferromagnesian and biotite, occurs in platy and irregular to lath shaped (laminations). Planar fine, pervasive parallel fracture -347.0 – Chilled contact 90°
365.0	380.0	15.0	14.8	5446	.181	.012	.1	.01	1	–	–	W	–	W/M	–	–	–	348.0 – contact lost 353.0 – Very fine grained, dark green lobes of plagioclase and interspersed qtz and sericitized zone of biotite - Aplite Plagioclase white and ends of biotite zones are fine grained to more weakly altered fine grained bottom 361 – clear contact 90° 362 – gradational – Aplite
380.0	395.0	15.0	14.7	5447	.192	.017	.2	.01	½	–	–	–	–	F	–	–	–	370.0 – Dark green fine grained altered ferromagnesian, weakly foliated to medium grained, dark to light green, weakly to moderately altered at approx 45° to core axis. Qtz veinlets white to milky, sericitic selvages, 1/8" to 1" wide at approx 45° to core axis, sharp and approx parallel. Rare magnetite with gypsum in fracture.
395.0	410.0	15.0	14.2	5448	.304	.013	.2	.01	½	–	–	W	–	F	–	–	–	400.0 – Strong silicification along fractures parallel to core axis 401 – white qtz vein 402 –

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P 15

DATE COMPLETED _____ PAGE No. 7 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
410.0	425.0	15.0	14.5	5449	.109	.013	.15	.01	½	–	–	M	–	F/W	–	–			Protore Zone. - Qtz. Diorite Strongly sheared/foliated along fractures @ 60° CA; weakly altered plagioclase and ferro. Fine gypsum lined fractures throughout, moderately strong overall
425.0	440.0	15.0	13.8	5450	.176	.007	.15	.01	½	–	–	M	–	F/W	–	–			
440.0	455.0	15.0	15.0	5451	.138	017	.10	.01	½	–		M	–	F/W					~ 447.0 – Strongly sheared/foliated throughout ~ 447.0 – Coarse white to irregular angular fine grained quartz veins, thin fractures with gypsum, widely spaced bands with moderate alteration
455.0	470.0	15.0	15.0	5452	.241	.015	.1	.01	½	–	–	N/M	–	F	–	–			~ 463.6 – sharp contact – 60° Fine grained salt and pepper textured, chloritized basalt 5% – 60%

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P48

DATE COMPLETED _____ PAGE No. 8 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
470.0	485.0	15.0	15.0	5454	.192	.008	.1	.01	1/2	–	–	2/10	–	1/10	–	–			Potora Zone – Qtz. Diorite Porphyritic 470 – Dark fresh unaltered strongly biotitic altered hornblende to 475
485.0	500.0	15.0	15.0	5454	.390	.020	.1	.01	1/2	–	–	1/10	–	1/10	–	–			475 – 75° Aplite 481.0 – Aplite and qtz veins 485 – Dark fresh
500.0	515.0	15.0	13.1	5455	.280	.012	.1	.01	1/2	–	–	1/10	–	1/10	–	–			495 – Qtz. Porphyry Dike Medium grained, weakly altered plagioclase, veinlets of pink k-spar (?) 10% and 10-15% upto 5mm irregular recrystallized qtz. Rock is shredded altered biotite. Moderate to strong fractures with gypsum. Copper of chalcopyrite and bornite. Cpy-Py 1/1.
515.0	530.0	15.0	15.0	5456	.298	.075	.1	.01	1/2	–	–	1/10	–	1/10	–	–			

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P48

DATE COMPLETED _____ PAGE No. 9 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
520.0	545.0	15.0	14.8	5457	.322	.050	.1	.01	1/4	-	-	1/W	-	F	-	-		
545.0	560.0	15.0	7.8	5458	.365	.084	.05	.01	1/4	-	-	11/W	-	F	-	-		
560.0	575.0	15.0	15.0	5459	.249	.024	.05	.01	1/4	-	-	N	-	F	-	-		
575.0	590.0	15.0	14.0	5460	.304	.027	.05	.01	1/4	-	-	N	-	F	-	-		

DESCRIPTION

Footwall: Qtz Diorite

520' - Aplite

545' - Aplite

548' - gradational

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P46

DATE COMPLETED _____ PAGE No. 10 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.–SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
590.0	605.0	15.0	14.6	5461	.191	.018	.05	–	1	–	F	W	–	F	–	1			Protore – Minor QTZ veinlets 590.0 [illegible]
605.0	620.0	15.0	15.0	5462	.207	.017													610.0 – sharp contact. 10-20° Hard, slightly altered weakly altered plagioclase with biotite, completely or almost completely silicified. Major banded fabric at 45° to CA towards bottom contact. Slightly better mineralized gradational –
620.0	635.0	15.0	15.0	5463	.142	.058													614.5 Dark, anhedral – subhedral slightly chloritic white, occ. fine-med. fresh-weakly altered plagioclase in the old fine-med. stubby sheared 2-4 mm, crenulated leafy brown biotite 40% f. clear qtz. Diss pyrite and 0.2mm fractures with fillings Irregular narrow bands with silicified biotite weakly altered plag aclases and slightly better disseminated opq. Minor molc
635.0	650.0	15.0	15.0	5464	.383	.072													643.0 gradational Coarser grained to 7mm with medium 2-4 grained bands

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P48

DATE COMPLETED _____ PAGE No. 11 of 12

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ.-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
650.0	665.0	15.0	15.0	5465	.198	.021													Protore Zone — Mixed Qtz Diorite see bottom page 11 — 646.0 weak - moderate bands with plag & bio phenocrysts up to 7mm. common occ. finer grained
665.0	680.0	15.0	15.0	5466	.120	.017													— 670.0 — 0.2ft breccia - Qtz diorite and Aplite and 0.8ft pink medium crystalline Aplite — 671.0 —
680.0	695.0	15.0	15.0	5467	.123	.025													— 675.0 — fairly sharp - 45° — Medium grained sericitized biotite
695.0	710.0	15.0	14.7	5468	.162	.018													— 691.0 — Coarse grained - to 10mm. Biotite - 20% — 704.0 Med grained plagioclase and 40% biotite. bands become common Often fine 0.2ft scale bio

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P48

DATE COMPLETED _____ PAGE No. 12 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION								
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR		
710.0	725.0	15.0	15.0	5469	.080	.009												
725.0	740.0	15.0	15.0	5470	.156	.007												
740.0	755.0	15.0	15.0	5471	.159	.011												
755.0	770.0	15.0	15.0	5472	.166	.008												

DESCRIPTION

Pictou Zone - Mixed Qtz Diorite

-708.0 - gradation

Fine - medium (2mm) grained, biotite 60-70%

-721.0 - sharp contact - 90° / partly along 0.1 ft - 45° dipping med grained argillized plagioclase. Grey colored - scattered fresh leafy biotite - doesn't appear to be remnant of sericitized qtz diorite. Grey diorite?

-729.0 - Fine - medium and coarse grained bands: Qtz Diorite became common.

-733.0 - gradational Qtz Diorite becoming more common

Fine - med grained - 40-50% biotite. Occasional narrow band - up to 1 ft coarse grained - 7mm.

-759.0 - 45° - 0.3 ft coarse grained - biotite partly sericitized weak argillic alteration

-760.5 - 90° -

AREA _____ NORTHING _____

DIP _____ EASTING _____

AZIMUTH _____ ELEVATION _____

CASINO SILVER MINES LTD.

DRILL HOLE LOGS

DATE COLLARED _____ HOLE No. P48

DATE COMPLETED _____ PAGE No. 13 of 13

LENGTH _____ CORE SIZE _____

SAMPLE AND ASSAY DATA										ALTERATION									DESCRIPTION
FROM	TO	LENGTH	RECOV.	SAMPLE No.	Cu %	MoS_2 %	EST. Cu.	EST. MoS_2 %	EST. FeS_2	SILICIFICATION	QTZ. VEINING	FRACTURING ∠ TO CORE AXIS	QTZ-SERICITE	ARGILLIC	2nd BIOTITE	K SPAR			
770.0	785.0	15.0	14.1	5473	.115	.613													Protore Zone - Mixed Qtz Diorite
785.0	800.0	15.0	14.9	5474	.056	.015													—780.0 — 45° - fractured qtz and large 1.5cm. pinkish plagioclase? - k-spar near contact - Grey fresh plagioclase and qtz fine qtz veining with m.b.o. - Aplite ? - altered Qtz Diorite. Occ narrow qtz diorite band - up to 1ft
																			—799.5 contact lost. Fine and medium grained.
																			—800 - End of hole.

No.	from	to	wdth. ft.	CU %	CU % ft.	MoS_2 %	MoS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt. R-1
1 R	16	21	5	.165		.003										79
2	21	26		.105		.006										82.5
3	26	31		.133		.003										102.5
4	31	36		.110		.003										96.5
5	36	[illegible]		.197		.003										92.5
6	41	46		.770		.003										99
7	46	51		.385		.003										99.5
8	51	56		.400		.003										97.5
9	56	61		.590		.003										102.5
10	61	66		.325		.003										97.5
11	66	71		.270		.003										102.5
12	71	76		.150		.003										97.5
13	76	81		.165		.003										101.5
14	81	86		.140		.003										99.5
15	86	91		.090		.006										101
16	91	96		.155		.003										98.5
17	96	101		.083		.003										102
18	101	106		.086		.003										99
19	106	111		.093		.006										84
20	111	116		.255		.003										99.5
21	116	121		.159		.003										104.5
22	121	126		.113		.008										104
23	126	131		.100		.003										96
24	131	136		.090		.003										96
25	136	141		.130		.008										89
26	141	146		.112		.003										94
27	146	151		.100		.006										96.5
28	151	156		.108		.003										93.5
29	156	161		.093		.003										89.5
30	161	166		.090		.011										95
31	166	171		.090		.003										94.5
32	171	176		.107		.006										99
33	176	181		.105		.003										98
34	181	186		.129		.008										100
35	186	191		.120		.006										98
36	191	196		.100		.017										92
37	196	201		.113		.014										88

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.	wt
38R	201	206	5	.052		.003								96
39	206	211		.120		.006								97.5
40	211	216		.108		.003								101
41	216	221		.040		.003								93.5
42	221	226		.050		.006								96
43	226	231		.050		.011								106
44	231	236		.095		.011								96.5
45	236	241		.073		.022								105.5
46	241	246		.121		.039								81.5
47	246	251		.104		.017								94
48	251	256		.100		.022								95
49	256	261		.127		.025								93.5
50	261	266		.135		.014								92
51	266	271		.107		.042								90.5
52	271	276		.095		.011								85
53	276	281		.080		.028								95.5
54	281	286		.097		.028								95
55	286	291		.119		.022								99
56	291	296		.161		.019								101.5
57	296	301		.160		.011								99.5
58	301	306		.300		.036								99.5
59	306	311		.200		.028								93.5
60	311	316		.120		.028								93
61	316	321		.159		.025								92
62	321	326		.436		.036								98
63	326	331		.390		.042								96
64	331	336		.620		.053								211.5
65	336	341		.840		.080								87.5
66	341	346		1.150		.061								99.5
67	346	351		1.170		.064								23.5
68	351	356		.630		.072								58.0
69	356	361		.780		.122								88
70	361	366		1.450		.100								38.5
71	366	371		1.100		.080								110.5
72	371	376		1.600		.108								8.5
73	376	381		1.220		.092								13.5
74	381	386		.720		.105								66.5

R-1 (2)

DUP

R-1 (3)

No.	from	to	wdth. ft.	CU %	CU % ft.	MoS_2 %	MoS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.	wt.
75R	386	391	5	.780		.066								62
76	391	396		1.320		.139								29
77	396	403		.620		.053								78.5
78	403	408		.425		.025								44
79	408	413		.490		.031								61.5
80	413	418		.500		.103								32.5
81	418	423		.385		.056								56.5
82	423	428		.210		.046								58
83	428	433		.760		.085								97.5
84	433	438		.375		.095								72.5
85	438	443		.495		.111								76.5
86	443	448		.570		.128								47
87	448	453		.450		.051								71.5
88	453	458		.680		.088								82
89	458	463		1.200		.074								71.5
90	463	468		1.230		.132								107.5
91	468	473		.800		.057								71
92	473	478		.820		.074								79
93	478	483		.425		.046								77
94	483	488		.620		.098								73
95	488	493		.540		.051								76
96	493	498		.620		.077								82
97	498	503		.580		.129								75.5
98	503	508		.540		.049								93
99	508	513		.390		.059								92.5
100	513	518		.680		.095								83.5
01	518	523		.740		.074								116
02	523	528		.680		.086								34
03	528	533		.660		.100								81
04	533	538		.620		.050								89
105	538	543		.475		.064								73
06	543	548		.325		.057								70
07	548	553		.480		.045								81
08	553	558		.385		.048								99
09	558	563		.640		.088								115
110	563	568		.330		.043								71.5
11	568	573		.405		.108								72.5

R-1 (4)

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt
112R	573	578	5	.250		.055										57.5
13	578	583		.225		.072										56.5
14	583	588		.255		.074										47.5
15	588	593		.600		.095										120.5
															.176	
	16	321	305	.153		.011									.758	Cu/mo
	321	618	297	.637		.059									.419	f = 2.06
	618	698	80	.292		.062									.207	
	698	848	150	.125		.040										

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt. R-2
481	0	5		.020		.013										18.5
82	5	10		.035		.012										16.0
83	10	15		.080		.005										35
84	15	20		.105		.002										80
485	20	25		.110		.002										17.0
86	25	30		.145		.002										535
87	30	35		.180		.005										55.0
88	35	40		.600		.008										63.0
89	40	45		.860		.007			C736							91.5
490	45	50		1.840		.021										81.5
91	50	55		1.880		.020										84.0
92	55	60		1.720		.019			C737							87.5
93	60	65		1.840		.012										95.0
94	65	70		.920		.030										84.0
495	70	75		1.840		.013			C738							59.0
96	75	80		1.240		.011										74.5
97	80	85		1.480		.017										61.5
98	85	90		1.380		.012			C739							65.0
99	90	95		1.100		.013										68.5
500	95	96	1'	1.960		.019										12.5
01	96	110	14'	1.260		.017			C740							71.0
02	110	115	5'	.880		.019										86.0
03	115	120		.920		.017										87.0
04	120	125		1.320		.021			C741							96.5
505	125	130		.940		.021										85.0
06	130	135		1.540		.024										87.0
07	135	140		1.880		.016			C742							84.0
08	140	145		1.720		.016										96.5
09	145	150		2.020		.021										84.5
510	150	155		1.560		.013			C743							121.0
11	155	160		1.860		.024										122.0
12	160	165		1.960		.029										125.0
13	165	170		1.200		.056			C744							81.0
14	170	175		1.460		.054										98.5
515	175	180		.520		.046										65.95
16	180	185		1.020		.032			C745							61.95
17	185	190		.860		.072										96.0

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.		wt. R-2 (2)
518	190	195		.580		.051									81.45
19	195	200		.540		.029			C746						67.75
520	200	205		.880		.024									92
21	205	210		.940		.029									85.95
22	210	215		1.040		.029			C747						84
23	215	220		1.040		.027									85.95
24	220	225		.760		.029									89.45
525	225	230		.520		.029			C748						80
26	230	235		.580		.027									109.95
27	235	240		.285		.024									81.95
28	240	245		.520		.035									65.95
29	245	250		.600		.021			C749						89.95
530	250	255		.600		.027									76
31	255	260		.450		.027									68
32	260	265		.870		.029			C750						100
33	265	270		1.300		.013									178.95
34	270	275		1.000		.024									128
535	275	280		.840		.027			C751						86
36	280	285		.860		.048									74
37	285	290		.470		.024									84
38	290	295		1.280		.024			C752						146
39	295	300		1.320		.021									98
540	300	305		.395		.002									74
41	305	310		.520		.002			C753						82
42	310	315		.900		.007									162
43	315	320		.980		.007									176
44	320	325		.660		.002			C754						112
545	325	330		.520		.005									102
46	330	335		.470		.007									100
47	335	340		.540		.007			C755						86
48	340	345		.295		.005									86
49	345	350		.335		.002									84
550	350	355		.315		.005			C756						84
51	355	360		.235		.013									88
52	360	365		.640		.027									86
53	365	370		.600		.005			C757						98
54	370	375		.505		.005									102

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt R-2 (3)
555	375	380		.620		.002										72
56	380	385		.440		.015			C758							84
57	385	390		.420		.007										86
58	390	395		.600		.016										100
59	395	400		.525		.018			C759							167
560	400	405		.600		.016										62
61	405	408	3'	.680		.022										40
	0	35	35	.096		.006									.108	Cu/100
	35	240	205	1.220		.025									1.272	f = 2.06
	240	408	168	.644		.015									.675	
	35	408	373	.955		.020									.996	

No.	from	to	wdth. ft.	CU		MoS_2		MO		AU		AG				wt.
				%	% ft.	%	% ft	%	% ft.	oz.	oz. ft.	oz.	oz. ft.			
201R	0	5	5	.054		.003										5
02	5	10		.041		.003										17
03	10	15		.060		.003										9.5
04	15	20		.048		.003										16
205	20	25		.040		.003										46
06	25	30		.030		.003										64
07	30	35		.038		.003										58
08	35	40		.030		.003										78
09	40	45		.035		.003										69.5
210	45	50		.025		.003										123
11	50	55		.025		.003										99
12	55	60		.050		.003										102.5
13	60	65		.050		.003										99
14	65	70		.040		.003										84
215	70	75		.064		.003										96
16	75	80		.050		.003										95.5
17	80	85		.078		.003										95
18	85	90		.109		.003										83.5
19	90	95		.080		.003										92.5
220	95	100		.092		.003										123.5
21	100	105		.122		.003										85
22	105	110		.027		.003										94
23	110	115		.055		.003										96.5
24	115	120		.101		.003										104.5
225	120	125		.098		.003										101.5
26	125	130		.051		.003										98
27	130	135		.047		.003										97.5
28	135	140		.088		.003										102.5
29	140	145		.022		.003										96.5
230	145	150		.038		.003										100
31	150	155		.030		.003										98
32	155	160		.020		.003										96.5
33	160	165		.020		.003										98.5
34	165	170		.010		.003										96
235	170	175		.017		.002										100.5
36	175	180		.040		.002										104
37	180	185		.060		.005										102.5

No.	from	to	wdth. ft.	CU %	CU % ft.	MoS_2 %	MoS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt.
																R-3 (2)
2388	185	190	5	.075		.002										106
39	190	195		.060		.005										104
240	195	200		.058		.002										107.5
41	200	205		.070		.002										106
42	205	210		.070		.002										102
43	210	215		.073		.002										105
44	215	220		.060		.002										117
245	220	225		.043		.002										101.5
46	225	230		.070		.002										96
47	230	235		.040		.002										104
48	235	240		.030		.005										100
49	240	245		.020		.002										110
250	245	250		.040		.012										122
51	250	255		.032		.005										116
52	255	260		.025		.002										115
53	260	265		.022		.018										113
54	265	270		.058		.032										118
255	270	275		.049		.005										86
56	275	280		.073		.008										82
57	280	285		.051		.022										75
58	285	290		.023		.042										77.5
59	290	295		.065		.012										113
260	295	300		.095		.017										103
61	300	305		.035		.024										104.5
62	305	310		.035		.031										101.5
63	310	315		.040		.060										102
64	315	320		.070		.024										102
265	320	325		.050		.048										103.5
66	325	330		.035		.084										96.5
67	330	335		.090		.036										102.5
68	335	340		.080		.024										103
69	340	345		.090		.024										100
270	345	350		.065		.021										101
71	350	355		.120		.014										98.5
72	355	360		.145		.002										103
73	360	365		.080		.002										105
74	365	370		.060		.043										102.5

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt
275R	370	375	5	.040		.029										100.5
76	375	380		.030		.041										102
77	380	385		.100		.002										102.5
78	385	390		.065		.041										101.5
79	390	395		.065		.041										78.5
280	395	400		.095		.007										103
81	400	405		.080		.005										106
82	405	410		.120		.038										95
83	410	415		.080		.005										95
84	415	420		.130		.032										100
285	420	425		.250		.038										100.5
86	425	430		.660		.042										107
87	430	435		.740		.050										102
88	435	440		.860		.055										100.5
89	440	445		.485		.055										103
290	445	450		.405		.064										104.5
91	450	455		.430		.028										100
92	455	460		.580		.062										100
93	460	465		.566		.085										100
94	465	470		.740		.077										117
295	470	475		.496		.058										51.5
96	475	480		.510		.079										104.5
97	480	485		1.080		.096										110.5
98	485	490		.490		.048										103.5
99	490	495		.550		.109										103.5
300	495	500		.500		.078										106
01	500	505		.400		.048										99.5
02	505	510		.640		.052										102
03	510	515		.622		.051										102.5
04	515	520		.330 ✓		.037										99.5
305	520	525		.640		.085										95.5
06	525	530		.395		.058										100
07	530	535		.700		.119										107.5
08	535	540		.420		.051										102.5
09	540	545		.620		.080										101
310	545	550		.660		.056										108
11	550	555		.456		.053										100

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.				wt.
																	A-2 (4)
312R	555	560	5	.360		.040											102.5
13	560	565		.260		.046											105.5
14	565	570		.460		.025											103
315	570	575		.460		.033											72.5
16	575	580		.220		.020											100
17	580	585		.360		.051											104.5
18	585	590		.310		.023											107
19	590	595		.280		.023											100
320	595	600		.250		.018											101
21	600	605		.330		.028											105
22	605	610		.260		.023											103.5
23	610	615		.310		.025											87
24	615	620		.300		.025											96
325	620	625		.280		.020											88.5
26	625	630		.320		.025											95
27	630	635		.300		.025											91.5
28	635	640		.285		.023											95
29	640	645		.365		.025											82.5
330	645	650		.580		.059											94
31	650	655		.355		.025											102.5
32	655	660		.260		.051											102.5
33	660	665		.265		.025											79.5
34	665	670		.200		.018											76.5
335	670	675		.200		.022											93
36	675	680		.160		.028											64
37	680	685		.180		.032											50.5
38	685	690		.255		.014											125
39	690	695		.220		.028											84.5
340	695	700		.190		.022											57
41	700	705		.175		.019											114
42	705	710		.225		.016											44
																.084	CU/MO
	0	425	425	.060		.012										.565	
	425	655	230	.470		.046										.266	f = 2.06
	655	710	55'	.214		.025											

R-4

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt.
343	20	25	5	.025		.002										46.5
44	25	30		.020		.002										87
345	30	35		.025		.002										88.5
46	35	40		.040		.002										157.5
47	40	45		.055		.002										97
48	45	50		.040		.002										102
49	50	55		.040		.002										99
350	55	60		.030		.002										106
51	60	65		.030		.002										92
52	65	70		.045		.002										101
53	70	75		.035		.002										102
54	75	80		.050		.002										96.5
355	80	85		.040		.002										104
56	85	90		.040		.014										103.5
57	90	95		.030		.013										94.5
58	95	100		.030		.005										72
59	100	105		.025		.011										102.5
360	105	110		.025		.008										99.5
61	110	115		.020		.010										99.5
63	115	120		.025		.010										99.5
63	120	125		.025		.002										100
64	125	130		.025		.002										102.5
365	130	135		.035		.009										104
66	135	140		.030		.006										98.5
67	140	145		.030		.002										99.5
68	145	150		.025		.005										101
69	150	155		.020		.003										87
370	155	160		.020		.003										116.5
71	160	165		.030	9.10	.010	139									98
	20	205	185	.033		.012									.059	
	205	255	50	.631		.044									.721	
	255	275	20	.182		.046									.276	

R-5

No.	from	to	ft.	%	% ft.	%	% ft	%	% ft.	oz.	oz. ft.	oz.	oz. ft.			wt.
	0	5	5'													
	5	10														
	10	15														
	15	20														
	20	25														
805R	25	30		.060		.010										40
06	30	35		.235		.020										80
07	35	40		.085		.009										98
08	40	45		.090		.007										98
09	45	50		.235		.017										118
810	50	55		.250		.010										112
11	55	60		.105		.010										116
12	60	65		.160		.012										102
13	65	70		.190		.024										112
14	70	75		.130		.013										94
815	75	80		.205		.005										98
16	80	85		.145		.008										96
17	85	90		.170		.007										96
18	90	95		.780		.004										92
19	95	100		.195		.003										84
820	100	105		.150		.002										110
21	105	110		.170		.005										94
22	110	115		.510		.007										104
23	115	120		.400		.007										96
24	120	125		.510		.002										102
825	125	130		.375		.013										80
26	130	135		.230		.004										100
27	135	140		.205		.006										100
28	140	145		.155		.008										102
29	145	150		.215		.007										100
830	150	155		.445		.010										104
31	155	160		.170		.002										96
32	160	165		.200		.005										82
33	165	170		.190		.008										88
34	170	175		.210		.004										98
835	175	180		.195		.010										142
836	180	185		.245		.011										106

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.	wt R-5 (3)
874E	370	375	5'	.205		.002								84
75	375	380		.135		.002								100
76	380	385		.160		.006								96
77	385	390		.205		.002								94
78	390	395		.170		.002								100
79	395	400		.130		.002								104
880	400	405		.215		.002								92
81	405	410		.230		.002								98
82	410	415		.225		.002								96
83	415	420		.145		.002								98
84	420	425		.170		.002								86
885	425	430		.115		.002								98
86	430	435		.250		.002								92
87	435	440		.265		.002								102
88	440	445		.290		.013								94
89	445	450		.370		.042								104
890	450	455		.345		.014								104
91	455	460		.220		.012								124
92	460	465		.325		.046								120
93	465	470		.520		.030								124
94	470	475		.495		.033								122
895	475	480		.640		.045								96
96	480	485		.860		.053								124
97	485	490		.495		.025								96
98	490	495		.125		.012								92
99	495	500		.210		.008								104
900	500	505		.185		.020								90
01	505	510		.600		.008								104
02	510	515		.680		.002								114
03	515	520		.350		.002								88
04	520	525		.580		.005								68
905	525	530		.390		.008								78
06	530	535		.195		.005								82
07	535	540		.175		.003								80
08	540	545		.185		.005								84
09	545	550		.175		.017								80
910	550	555		.400		.012								80

No.	from	to	wdth. ft.	CU %	CU % ft.	MoS_2 %	MoS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt. R-5(4)
911R	555	560	5'	.470		.020										68
12	560	565		.520		.023										82
13	565	570		.300		.008										108
14	570	575		.580		.017										48
915	575	580		.165		.005										64
16	580	585		.170		.012										102
17	585	590		.290		.023										86
18	590	595		.800		.122										96
19	595	600		.740		.056										86
920	600	605		.530		.043										56
21	605	610		.465		.017										96
22	610	615		.600		.025										100
23	615	620		.300		.012										9
24	620	625		.430		.012										82
925	625	630		.440		.028										110
26	630	635		.495		.020										12
27	635	640		.425		.005										10
28	640	645		.215		.005										10
29	645	650		.235		.005										50
930	650	655		.245		.007										9
31	655	660		.225		.007										56
32	660	665		.310		.022										80
33	665	670		.300		.029										10
34	670	675		.315		.027										64
935	675	680	5'	.250		.007										74
	25	270	245	.203		.009									.222	
	270	640	370	.344		.013									.371	
	640	680	40	.262		.014									.291	
	270	680	410	.336		.013									.363	Cu/mo.

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt. R--6
562R	0	5	5'													
63	5	10														42
64	10	15		.020		.003										30
565	15	20		.015		.003										38
66	20	25		.015		.003										42
67	25	30		.020		.003										58
68	30	35		.020		.003										44
69	35	40		.015		.003										72
570	40	45		.010		.003										88
71	48	53		.010		.003										88
72	53	58		.005		.003										78
73	58	63		.010		.003										90
74	63	68		.010		.003										90
575	68	73		.005		.003										86
76	73	78		.005		.003										90
77	78	83		.010		.003										92
78	83	88		.020		.003										88
79	88	93		.015		.003										96
580	93	98		.015		.003										98
81	98	103		.005		.003										92
82	103	108		.015		.003										94
83	108	113		.020		.003										102
84	113	118		.020		.003										108
585	118	123		.005		.003										98
86	123	128		.010		.003										96
87	128	133		.005		.003										98
88	133	138		.005		.003										102
89	138	143		.010		.003										98
590	143	148		.010		.003										104
91	148	153		.010		.003										104
92	153	158		.015		.003										100
93	158	163		.010		.003										100
94	163	168		.010		.003										104
595	168	173		.015		.003										100
96	173	178		.010		.003										100
97	178	183		.010		.003										100
98	183	188		.025		.003										

NO.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt.
599	188	193	5'	.020		.003										80
600	193	198		.015		.003										104
01	198	203		.015		.003										112
02	203	208		.015		.003										98
03	208	213		.005		.003										98
04	213	218		.005		.003										98
605	218	223		.005		.003										102
06	223	228		.005		.003										100
07	228	233		.005		.003										100
08	233	238		.005		.003										96
09	238	243		.005		.003										104
610	243	248		.005		.003										98
11	248	253		.005		.003										102
12	253	258		.035		.003										104
13	258	263		.005		.003										48
14	263	268		.015		.003										104
615	268	273		.010		.003										112
16	273	278		.005		.003										100
17	278	283		.005		.003										100
18	283	288		.005		.003										98
19	288	293		.005		.003										90
620	293	298		.015		.003										96
21	298	303		.130		.003										96
22	303	308		.025		.003										96
23	308	313		.010		.003										90
24	313	318		.045		.003										96
625	318	323		.005		.003										62
26	323	328		.005		.003										68
27	328	333		.040		.003										58
28	333	338		.100		.003										98
29	338	343		.070		.003										82
630	343	348		.075		.005										44
31	348	353		.190		.003										116
32	353	358		.110		.003										70
33	358	363		.085		.003										78
34	363	368		.065		.003										64
635	368	373		.065		.003										86

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt. R-6(3)
636	373	378	5'	.040		.003										52
37	378	383		.475		.003										72
38	383	388		.740		.003										70
39	388	393		.340		.003										64
640	393	398		.180		.003										66
41	398	403		.385		.003										58
42	403	408		.145		.003										74
43	408	413		.195		.003										50
44	413	418		.090		.003										52
645	418	423		.140		.003										50
46	423	428		.090		.003										60
47	428	433		.125		.003										34
48	433	438		.070		.003										52
49	438	443		.155		.003										88
650	443	448		.170		.003										94
51	448	453		.090		.003										40
52	453	458		.165		.003										28
53	458	463		.140		.003										60
54	463	468		.075		.003										74
655	468	473		.065		.003										76
56	473	478		.020		.003										66
57	478	483		.055		.003										44
58	483	488		.140		.003										36
59	488	493		.045		.003										64
660	493	498		.035		.003										64
61	498	503		.070		.003										62
62	503	508		.070		.003										62
63	508	513		.060		.005										58
64	513	518		.045		.003										54
665	518	523		.045		.005										56
66	523	528		.115		.003										66
67	528	533		.060		.003										74
68	533	538		.780		.008										52
69	538	543		.560		.005										56
670	543	548		.220		.005										76
71	548	551	3'	.105		.008										40
	10	551	541	.073		.003									.079	Cu/Mo

END

R-8

No.	from	to	wdth. ft.	CU %	CU % ft.	MoS_2 %	MoS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.	
936R	0	5	5'											
37	5	10												
38	10	15												
39	15	20												44
940	20	25		.040		.002								48
41	25	30		.015		.002								79
42	30	35		.020		.002								138
43	35	40		.015		.002								136
44	40	45		.010		.002								102
945	45	50		.005		.004								100
46	50	55		.005		.005								96
47	55	60		.005		.002								90
48	60	65		.005		.002								76
49	65	70		.005		.002								84
950	70	75		.005		.002								72
51	75	80		.005		.003								88
52	80	85		.005		.003								82
53	85	90		.005		.002								78
54	90	95		.002		.002								62
955	95	100		.005		.002								76
56	100	105		.005		.004								82
57	105	110		.010		.005								92
58	110	115		.010		.007								96
59	115	120		.010		.002								88
960	120	125		.005		.002								88
61	125	130		.005		.002								84
62	130	135		.005		.007								88
63	135	140		.005		.005								90
64	140	145		.005		.002								76
965	145	150		.010		.002								56
66	150	155		.005		.002								96
67	155	160		.005		.002								76
68	160	165		.015		.002								80
69	165	170		.005		.002								78
970	170	175		.005		.007								80
71	175	180		.010		.002								90
72	180	185		.010		.003								

No.	from	to	wdth. ft.	CU %	CU % ft.	MOS_2 %	MOS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.	wt. R-8(4)
10478	555	560	5'	.190		.002								52
48	560	565		.280		.025								30
49	565	570		.760		.010								62
1050	570	575		.215		.007								46
51	575	580		.325		.015								40
52	580	585		.165		.002								32
53	585	590		.435		.027								74
34	590	595		.310		.002								46
1055	595	600		.305		.007								58
56	600	605		.340		.002								56
57	605	610		.490		.020								54
58	610	615		.620		.012								40
59	615	620		1.120		.012								72
1060	620	625		.660		.029								40
61	625	630		.660		.007	.012							62
62	630	635		.405	2 samples	.012								36
63	635	640		.270		.010								72
64	640	645		.540	.430	.010								58
1065	645	650		.215		.002								76
66	650	655		.300		.022								66
67	655	660		.265		.012								58
68	660	665		.305		.002								46
69	665	670		.225	12.165	.002	.343							54
1070	670	675		.415	25.210	.019	.671							50
71	675	680		.250		.019								42
72	680	685		.195		.017								70
73	685	690		.115		.005								42
74	690	695		.295		.005								58
1075	695	700		.280		.014								56
76	700	705		.215		.017								54
77	705	710		.240		.019								46
78	710	715		.245		.002								54
79	715	720		.345		.005								54
1080	720	725		.210		.002								38
81	725	730		.235		.017								48
82	730	735		.330		.010								48
83	735	740		.150		.010								46

No.	from	to	wdth. ft.	CU %	CU % ft.	MoS_2 %	MoS_2 % ft	MO %	MO % ft.	AU oz.	AU oz. ft.	AG oz.	AG oz. ft.			wt. R-8(5)
1084R	740	745		.215		.002										54
85	745	750		.125		.005										60
86	750	755		.125		.007										64
87	755	760		.155		.012										62
88	760	765		.165		.048										54
89	765	770		.145		.019										44
1090	770	775		.145		.010										54
91	775	780		.135		.012										56
92	780	785		.155		.014										49
93	785	790		.170		.017										48
94	790	795		.250		.017										42
1095	795	800		.205		.007										46
96	800	805		.145		.005										42
97	805	810		.165		.012										52
98	810	815		.135		.015										40
99	815	820		.150		.022										38
1100	820	825		.190		.012										38
01	825	830		.235		.010										52
02	830	835		.270		.015										40
03	835	840		.135		.014										50
04	840	845		.335		.010										52
1105	845	850		.250		.020										52
06	850	855		.165		.002										46
07	855	860		.160		.012										42
08	860	865		.090		.007										50
09	865	870		.125		.012										38
1110	870	875		.220	7.865	.015	.495									46
	20	345	325	.012		.004									.020	
	345	675	330	.382		.010									.403	
	675	875	200	.197		.012									.222	
	345	875	530	.312		.011									.335	