820460

PROPERTY CASTLE MINERALS INC.
WREN CLAIMS

DIAMOND DRILL RECORD

HOLE NO 89-1 PAGE 1 OF 2

TOTAL DRILLING = 230m

092J/6

LATITUDE	DIPS - collar -70°	AZIMUTH 228°	STARTED
DEPARTURE	- °	CORE SIZE AQ	COMPLETED
ELEVATION	- °	CONTRACTOR	LENGTH 32.6 (107 feet)
SHEET NO.	- °	CLAIM N.E. corner of WREN CLAIM	LOGGED BY Ralph Gonzalez
TARGET Anomalous AU in soil samples			DATE

SECTION (ft) FROM	TO	ROCK DESCRIPTION	MINERALIZATION SUMMARY	ASSAYS SAMPLE NUMBER	INTERVAL	WIDTH	AU (oz/t)
0	20	Casing no core					
				801	20-30		
20	27	Light greyish-green, medium-grained andesite. Core highly broken with few	-2% pyrite along joint	802	30-40		
		fragments larger than 1cm. Some sections contain euhedral plagioclase 15%	surfaces	803	40-50		
		of total ground mass with crystals approximately 1mm long, -2% pyrite	-0.5% diss magnetite	804	50-57		
		mostly along fracture (joints?) surfaces	at 27'. Minor diss	805	72-77		
		Minor -0.5% magnetite at 27' 21'-27' 1 foot of core recovered	FeOx (siderite?)	806	77-87		
		27'-30' 1.5 feet of core recovered	throughout	807	87-92		
		Fault at 19.5-20' 30'-32' 1 foot of core recovered					
		32'-37' 0.5 feet of core recovered					
		37'-47' 0.1 feet of core recovered					
		47'-49' 1 foot of core recovered					
		49'-52' 2.5 feet of core recovered					
		52'-72' 0 feet of core recovered					
		72'-75' 2 feet of core recovered					
		75'-77' 0.6 feet of core recovered					
		77'-80' 2.3 feet of core recovered					
		80'-82' 1.2 feet of core recovered					
		82'-92' 1.5 feet of core recovered					
		92'-97' 0 feet of core recovered					
		97'-107' 0 feet of core recovered					

Diamond Drill Record

HOLE NO. 89-1 | Page 2 of 2

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from m/ ft	to m/ ft	DESCRIPTION	from m/ ft	to m/ ft	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
27	30	Fault zone-abundant clay gouge.	27	30	3-5% discontinous veinlets of			
		Light grey 50% clay			pyrite.Veinlets -0.5mm wide			
30	79	Light greyish-green lithic	30	79	Intensely altered to a mixture			-1% diss. euhedral pyrite
		andesite tuff with rounded			of light grey mica(?) (probably			
		fragments upto 4mm long			a mylonite) with minor calcite			
					along fractures			
		37-47 Fault zone with no core						
		recovered						
		47-49 Core ground to pea sized	72	75	Core fractured at 75°t.c.a. and			5% diss. pyrite
		fragments			25°t.c.a..Also most intense			
		52-72 Fault zone with no core			zone of mylonization			
		recovered						
79	83	Massive light greenish-grey						1-2% pyrite crystals
		andesite						+20% euhedral plagioclase
		81-83 Highly broken core						crystals upto 1mm long. No
83	92	Core recovery is -15% fragments						apparent sulphides
		are plate like 1-4mm thick with						
		fractures possibly at 45°t.c.a.						
		fragments seldom with surface						
		area +1cm. Medium grained,greenish						
		lithic andesitic tuff. fragments						
		average 3-4mm in diametre and are						
		usually rounded although some						
		appear strained and angular						

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CUTTING AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: MAY 29 1989 DATE REPORT MAILED: June 1/89 SIGNED BY. C. Leong .D.TOYE. C.LEONG. J.WANG: CERTIFIED B.C. ASSAYERS

CASTLE MINERAL INC. File # 89-1242

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
89-1 70'	9	771	22	170	1.3	50	34	592	8.05	2	5	ND	1	56	1	3	2	30	.29	.085	3	20	1.18	7	.01	12	1.91	.05	.16	488	102
89-1 90'	11	625	13	194	.2	63	27	614	6.48	6	5	ND	1	36	1	4	2	24	.22	.075	2	14	1.01	15	.01	2	1.66	.04	.15	722	140

LOCATION:	Diamond Drill Record		HOLE NO. [illegible]-2	Page 1 of 3
AZIMUTH: 260°	DIPS - collar -60 °	CONTRACTOR:	PROPERTY:	
ELEVATION:	- m °	LOGGED BY: Ralph Gonzalez	CLAIM NO.	
LENGTH: 197 feet 60.1 m	- m °	DATE:	SECTION NO.	
CORE SIZE: AQ	- m °		STARTED:	
PURPOSE: High Au geochemical respose in rock and soil			COMPLETED:	

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
0	3	Casing - no core						
3	27	Light greyish-green andesite:	3	18	Fractured @ 50°t.c.a. with epidote	1-3mm	50°	Quartz veinlets with pyrite parallel
		porphyritic texture with plag.			alteration and discontinuous			to veinlet and extending into wall
		crystals upto 0-5cm in length.			quartz veins perpendicular to			rock ±0.5cm Pyrite crystals anhedral
		Weak to moderately magnetic.			fracture. Alteration zone range			to subhedral and 1-2mm across
		Locally pink quartz? amygdules			to 1.5cm.Fracture dinsity 20-25/m			
		upto 2mm			from 7.5ft to 18ft intense epidote	6cm		@ 14' Quartz vein - no sulphides!
					alteration.20% of core in 1cm veins	14cm		@ 14' FeOx altered core
					and -0.5mm veinlets. Approx. 1%			
					pyrite with an increase to 2-3%			
					in more altered sections			
			18	27	Same as above except reduced -5%	1-3mm		Quartz,plag,epidote veins with
					epidote alteration			-1% pyrite.Only trace amounts of
			26	26.5	10cm FeOx and muscovite altered			pyrite in the andesite
					core			
27	31.5	Light greyish-green,massive,				0.5	50°	75% pyrite as euhedral to subhedral
		silicified andesite						disseminate crystals and as anhedral
								grains adjacent to quartz veinlets

Diamond Drill Record

HOLE NO. 89-2 | Page 2 of 3

Section from (ft)	Section to (ft)	ROCK DESCRIPTION	Interval from (ft)	Interval to (ft)	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
			27	31.5	The lower contact is fractured and altered to quartz,plag.micas and uralitized hornblende FeOx increases toward to lower contact and pyrite decreases over the last foot			
31.5		Lower contact 30°t.c.a. fractured			Traces -0.5% chalcopyrite with			
31.5	141	Coarse grained greyish pink monzonite. Hornblende (mafics) are altered to chlorite			FeOx along the rim. Crystals are usually euhedral			
		41.5-43.5 Andisite with 5-8% pyrite similar to above			All of the core shows moderate-to weak propylitic alteration with local phyllic alteration			
		Monzonite fractured 30°t.c.a. averaging 5-7/m Most of the core is weak to very weakly magnetic	57	57	4cm of quartz vein contact 85°t.c.a. Mafics altered to chlorite and a yellowish epidote (?)			
			84	89	Colour change increase in pink (FeOx increase) and intense alteration of the mafics to micas (sericite)			Sulphides weathered to FeOx
			98	98	4cm quartz vein 40°t.c.a.			
			109	109	3cm quartz vein			
			106	106	2cm quartz vein 90°t.c.a.			
			111	112	Sericite alteration			
			120		3cm quartz vein			
			137		3cm qiartz vein pyrite			
			127	128	Bleached core with slight increase			

Diamond Drill Record

HOLE NO. 89-2 | Page 3 of 3

Section from (ft)	Section to (ft)	ROCK DESCRIPTION	Interval from (ft)	Interval to (ft)	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
			135	137	Bleached core with muscovite			
141	197	Coarse grained monzonite grey to pink in colour,non-magnetic to very weakly magnetic. The grey coloured sections reflect and increase in sericite alteration. Generally,however,the core is weakly propylifically altered with mafics + epidote. The sericite development may in part be due to quartz veins			Chalcopyrite 0.5% with FeOx rims FeOx rims increase in the more altered sections. 141-148,157-172,176-180			
			143	144	28cm quartz vein 85°t.c.a.			
		141-145 Sericite altered monzonite with 1ft quartz vein @ 143-144	172	172	Poor core recovery (50%) between 162-172 feet 3cm quartz part of			
		157-172 FeOx abundant and fractures @ 20/m with fractures @ 75°t.c.a.						

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUN 29 1989 DATE REPORT MAILED: July 3/89 SIGNED BY. C. Leong ...D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CASTLE MINERALS LTD. File # 89-1855

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	AU* PPB
89-2 3-12	1	101	16	137	.1	7	11	1055	3.60	2	5	ND	1	52	1	2	3	92	.65	.062	3	10	1.07	254	.17	11	2.02	.05	.64	1	18
89-2 12-20	3	87	17	169	.1	6	13	1156	2.96	4	5	ND	1	41	1	2	2	49	.49	.058	4	20	1.06	68	.07	13	1.67	.02	.12	1	5
89-2 20-27	3	41	11	140	.1	8	13	1182	2.71	2	5	ND	1	49	1	2	2	48	.61	.063	4	9	.93	74	.06	5	1.62	.02	.13	1	5
89-2 27-31.5	1	72	16	149	.1	8	14	1583	4.67	2	5	ND	1	11	1	2	2	58	.49	.052	5	12	1.38	35	.01	3	2.26	.01	.13	1	2
89-2 31.5-42	4	64	12	101	.2	6	9	853	2.53	2	5	ND	1	21	1	2	3	31	.20	.028	5	8	.76	91	.02	7	1.40	.02	.12	1	3
89-2 42-52	1	74	10	80	.1	5	6	728	2.32	2	5	ND	1	31	1	2	2	30	.55	.041	7	20	.58	132	.03	12	1.18	.02	.13	1	6
89-2 52-62	2	35	11	40	.1	5	3	451	.90	6	5	ND	1	29	1	2	2	5	.45	.027	7	5	.18	116	.01	4	.58	.02	.13	3	4
89-2 62-72	2	37	10	40	.2	4	3	389	.88	5	5	ND	1	33	1	2	2	6	.53	.036	6	6	.21	137	.01	4	.62	.02	.11	3	12
89-2 72-82	2	42	6	36	.2	4	3	349	.81	2	5	ND	1	35	1	2	2	4	.72	.034	6	5	.13	203	.01	3	.49	.02	.12	1	8
89-2 82-92	2	41	11	40	.1	4	3	380	.91	7	5	ND	2	27	1	2	2	5	.44	.035	8	18	.15	119	.01	6	.55	.02	.12	3	139
89-2 92-102	3	37	11	41	.4	5	3	417	.99	5	5	ND	2	29	1	3	2	4	.40	.032	9	5	.13	168	.01	9	.54	.02	.12	3	10
89-2 102-112	3	62	10	36	.3	6	3	394	.91	5	5	ND	2	36	1	2	2	4	.40	.032	7	7	.14	178	.01	9	.57	.02	.14	3	16
89-2 112-122	6	30	7	42	.3	6	3	528	.97	3	5	ND	2	19	1	2	2	3	.36	.036	9	7	.11	98	.01	10	.49	.02	.14	3	4
89-2 122-132	1	73	8	30	.1	3	2	491	.83	2	5	ND	1	55	1	3	2	3	1.31	.034	7	22	.10	104	.01	7	.44	.02	.14	1	13
89-2 132-142	2	77	7	40	.3	4	3	444	.80	3	5	ND	2	42	1	2	2	3	.90	.045	7	5	.15	87	.01	7	.51	.02	.12	1	5
STD C/AU-R	18	60	43	132	6.9	71	31	1015	4.09	41	22	7	37	50	19	15	21	60	.49	.093	39	55	.84	183	.07	38	1.96	.06	.13	12	490

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GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 4 1989 DATE REPORT MAILED: July 7/89. SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CASTLE MINERAL INC File # 89-1899

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
89-2 142-152	4	36	7	35	.1	6	2	348	.66	2	8	ND	1	26	1	3	4	3	.26	.033	6	7	.11	84	.01	4	.44	.02	.12	3	6
89-2 152-162	3	26	11	38	.1	4	3	421	.80	4	7	ND	2	28	1	2	2	5	.22	.031	7	22	.12	106	.01	5	.64	.02	.14	4	2
89-2 162-172	5	49	12	46	.3	6	3	528	.98	28	5	ND	3	20	1	3	2	5	.51	.033	10	6	.09	112	.01	12	.57	.02	.14	3	5
89-2 172-182	4	31	13	48	.2	7	2	406	.84	7	5	ND	1	33	1	3	2	5	.42	.036	8	8	.15	102	.01	5	.67	.03	.16	1	2
89-2 182-187	2	23	10	40	.1	6	3	359	.70	2	5	ND	1	42	1	2	3	4	.80	.035	8	6	.15	90	.01	5	.57	.03	.13	1	2
89-3 10-16	1	42	12	70	.1	6	8	710	2.27	2	5	ND	1	52	1	2	4	42	1.07	.053	7	28	.70	92	.06	8	1.33	.05	.19	1	2
89-3 16-27	1	86	16	105	.2	5	8	1117	2.67	2	5	ND	1	51	1	2	3	64	.62	.053	6	9	.90	288	.17	11	1.98	.09	.91	1	1
89-3 27-33	2	60	22	99	.1	7	8	945	2.11	2	5	ND	1	34	1	2	2	38	.65	.054	6	11	.81	105	.09	2	1.57	.05	.35	1	7
89-3 33-43	1	47	24	150	.1	8	10	1257	2.75	2	5	ND	1	33	1	2	2	47	.73	.058	6	11	1.19	92	.09	4	1.87	.04	.32	1	3
89-3 43-53	1	56	12	77	.4	5	9	864	2.71	2	7	ND	2	89	1	2	2	70	1.00	.061	6	22	.90	366	.16	8	1.99	.11	.59	1	2
89-3 53-63	2	53	20	108	.2	6	10	833	2.56	2	5	ND	1	55	1	2	3	62	.82	.070	5	11	.99	211	.14	5	1.74	.07	.41	1	3
89-3 63-73	2	47	72	133	.1	5	6	638	1.97	2	5	ND	1	38	1	2	2	29	.61	.043	6	7	.54	198	.08	2	1.02	.04	.27	1	9
89-3 73-83	2	12	8	45	.1	3	3	463	.91	2	5	ND	2	36	1	2	2	6	.36	.032	7	6	.23	80	.01	9	.78	.03	.13	2	2
89-3 83-93	2	13	5	39	.1	4	3	456	.85	3	5	ND	2	34	1	2	2	5	.59	.032	8	6	.19	82	.01	12	.73	.03	.14	1	1
89-3 93-103	2	17	8	33	.2	3	3	292	.69	2	5	ND	2	50	1	2	2	4	.31	.035	5	5	.14	156	.02	14	.61	.04	.15	3	2
89-3 103-113	3	22	7	41	.1	5	3	400	.82	2	5	ND	1	44	1	2	2	4	.39	.031	5	6	.17	140	.02	2	.63	.04	.15	1	3
89-3 113-123	3	47	7	42	.1	5	2	453	.93	2	5	ND	1	32	1	2	3	4	.45	.035	8	10	.16	147	.01	10	.64	.04	.15	2	46
89-3 123-133	4	74	6	38	.1	5	2	554	.94	3	5	ND	1	37	1	2	2	4	.80	.036	9	6	.13	98	.01	20	.53	.03	.15	1	41
89-3 133-143	1	68	6	34	.1	2	3	354	.73	4	5	ND	1	47	1	2	2	4	.92	.039	8	4	.15	222	.01	2	.52	.02	.11	1	10
89-3 143-153	2	66	6	33	.1	5	3	317	.74	2	5	ND	1	55	1	2	2	4	.92	.036	8	7	.14	253	.01	7	.57	.03	.13	1	2
89-3 153-160	1	81	6	40	.4	3	3	359	.75	2	5	ND	3	41	1	2	2	4	.53	.041	7	5	.17	82	.01	11	.60	.03	.13	1	7
STD C/AU-R	18	59	44	132	7.2	69	31	1020	4.04	42	19	7	37	50	18	15	24	60	.47	.091	39	55	.82	182	.07	35	1.93	.06	.14	11	520

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

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ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: P1 CORE P2 SLUDGE AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 18 1989 DATE REPORT MAILED: July 25/89 SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CASTLE MINERALS INC. File # 89-2237 Page 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
89-2 192	13	13	12	5	.3	28	1	108	1.19	21	5	ND	1	1	1	4	2	1	.01	.004	2	33	.01	13	.01	2	.02	.01	.03	9	11
89-4 14-24	2	36	14	104	.1	5	8	859	7.13	11	5	ND	3	20	1	2	2	28	.34	.150	6	3	.74	27	.03	3	3.22	.02	.16	1	185
89-4 24-34	1	60	18	141	.2	9	13	1135	6.85	9	5	ND	2	18	1	4	2	52	.26	.083	4	6	1.41	33	.03	5	3.87	.01	.10	1	600
89-4 34-44	1	63	37	211	.1	10	16	2226	6.84	8	5	ND	2	32	1	4	2	100	.46	.116	3	8	2.08	27	.07	4	4.82	.05	.08	1	6
89-4 44-54	1	102	34	213	.3	10	23	2290	7.08	12	5	ND	1	15	2	6	2	86	.33	.088	2	7	2.21	29	.08	2	4.62	.02	.09	1	18
89-4 54-64	1	56	41	171	.1	9	17	2044	5.34	11	5	ND	1	16	1	2	2	65	.37	.093	3	5	1.94	42	.09	2	3.74	.03	.14	1	4
89-4 64-74	1	86	14	123	.1	7	14	1544	5.22	3	5	ND	2	17	1	4	2	43	.90	.070	4	4	1.53	40	.05	2	3.24	.02	.16	1	1
89-4 74-84	1	50	11	117	.3	9	14	1427	4.66	15	5	ND	2	10	1	5	2	36	.33	.078	3	4	1.61	34	.06	2	3.03	.02	.15	1	3
89-4 84-94	1	113	11	144	.3	8	16	1690	5.28	8	5	ND	1	15	1	2	2	48	1.33	.076	3	4	1.59	37	.06	2	3.35	.02	.17	1	3
89-4 94-104	1	70	11	137	.1	7	16	1646	5.51	8	5	ND	1	11	1	2	2	41	1.33	.072	2	3	1.39	30	.06	2	3.07	.02	.14	1	2
89-4 104-114	1	49	8	142	.2	7	21	1406	5.26	4	5	ND	1	9	1	2	2	32	.57	.078	2	3	1.47	32	.05	2	2.95	.01	.17	1	4
89-4 114-124	1	28	10	125	.2	6	12	1084	3.02	5	5	ND	1	37	1	4	2	30	1.26	.074	2	2	1.75	30	.09	2	2.31	.03	.10	1	2
89-4 124-134	1	24	6	111	.1	4	12	1070	3.08	2	5	ND	1	37	1	2	2	29	1.72	.073	2	2	1.67	44	.10	2	2.25	.03	.12	2	1
89-4 134-144	1	23	6	119	.1	5	11	1113	2.92	6	5	ND	1	35	1	2	2	25	1.22	.073	2	2	1.56	57	.07	2	2.07	.02	.11	1	3
STD C/AU-R	18	58	38	132	6.8	69	31	1024	3.95	42	20	7	36	48	19	14	22	61	.47	.097	38	53	.93	172	.07	35	1.98	.06	.13	11	490

length ?

N+S
DS

Diamond Drill Record

LOCATION:			HOLE NO. 89-5 Page 1 of 2
AZIMUTH: 260°	DIPS – collar 45 °	CONTRACTOR:	PROPERTY: WREN GROUP
ELEVATION:	– m °	LOGGED BY: R. Gonzalez	CLAIM NO. WREN 1
LENGTH: 75' ? 22.9m	– m °	DATE: July 15,1989	SECTION NO.
CORE SIZE: AQ	– m °		STARTED:
PURPOSE: Shear zone with Au and sulphides			COMPLETED:

Section from (ft)	Section to (ft)	ROCK DESCRIPTION	Interval from (ft)	Interval to (ft)	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
0	4	Casing no core						
4	10	Weathered light grey andesite,						
		stained rusty brown						
10	24	Light grey,f/g andesite,+20%	10	24	+5% very fine grained sulphides			
		plagioclase crystals,2-4mm long			(pyrite?)			
		60% core recovery						
24	43	Lithic tuff composed of light	20	35	Pyrite is less than 1% and			
		olive green,f/g groundmass and			usually poorly formed euhedral			
		dark grey to black.10-15% f/g			crystals			
		fragments upto 6mm long. Pyrite	41	43	Vuggy quartz vein parallel to			
		generally confined to the mafic			core with FeOx staining			
		fragments. The core becomes						
		"greener" with depth and lithic						
		fragments more rounded and often						
		with a core of quartz						

Diamond Drill Record

HOLE NO.	Page 2 of 2

Section		ROCK	Interval		ALTERATION.	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
43		Light grey,f/g massive andesite slightly metamorphosed with plagioclase and sulphides parallel to schistosity 51-60 Lithic tuff with no visible sulphides 68-70 Light green tuff with local clots and stringers of chlorite Some of the more greenish material is very talc like to the touch 70-75 core lost			Pyrite occurs as stringers and and clusters parallel to the schistosity 30-40° to core Pyrite locally may be as high as 5% but usually averages about 1-2% Disseminated and clusters of pyrite parallel to schistosity			Discontinous quartz and quartz carbonate veinlets 1-3mm across the schistosity 70 ° to core 5 veinlets/meter

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 18 1989 DATE REPORT MAILED: July 21/89 SIGNED BY..... C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CASTLE MINERALS INC. File # 89-2235

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
89-5 5-15	1	113	20	62	.5	7	13	929	5.01	10	5	ND	1	15	1	2	2	25	.14	.090	2	3	2.13	44	.10	2	2.19	.03	.10	1	3
89-5 15-25	1	134	38	61	1.7	16	16	1049	4.40	7	5	ND	1	14	1	2	2	40	.18	.075	2	42	2.64	34	.12	2	2.56	.03	.07	1	5
89-5 25-35	1	127	15	80	.3	41	30	1150	4.92	4	5	ND	1	41	1	2	2	117	.90	.088	3	202	4.59	4	.20	2	4.41	.01	.01	1	1
89-5 35-45	1	115	32	60	.8	37	24	650	4.54	8	5	ND	1	34	1	2	2	85	.50	.090	2	147	3.23	19	.10	3	3.00	.01	.06	1	4
89-5 45-55	3	69	20	10	2.4	11	17	57	4.22	17	5	ND	1	16	1	3	2	9	.15	.077	2	8	.15	29	.01	2	.78	.04	.13	1	10
89-5 55-65	1	155	573	306	1.3	41	25	2115	5.35	3	5	ND	1	9	2	2	2	109	.32	.098	2	181	4.76	10	.05	2	4.64	.01	.04	1	1
89-5 65-75	2	201	25	258	.8	9	15	648	4.71	16	5	ND	1	12	1	2	2	29	.15	.088	4	6	1.96	24	.01	3	2.47	.03	.12	1	37
STD C/AU-R	19	62	40	133	7.4	73	31	1038	4.11	42	21	8	39	52	20	16	23	64	.45	.090	42	55	.93	181	.08	38	2.05	.06	.14	13	530

LOCATION:	Diamond Drill Record		HOLE NO. 89-3	Page 1 of 2
AZIMUTH: 255°	DIPS – collar -60 °	CONTRACTOR:	PROPERTY:	
ELEVATION:	– m °	LOGGED BY: Ralph Gonzalez	CLAIM NO.	
LENGTH: 201 feet 61.3m	– m °	DATE: June 30,1989	SECTION NO.	
CORE SIZE: AQ	– m °		STARTED:	
PURPOSE:			COMPLETED:	

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
0	10	Casing, no core recovered						
10	31	Mixture of light green,fine grained			-0.1 pyrite and local pyrrhotite,odd			
		andesite;greyish,porphyritic andesite;			grain of chalcopyrite.Most of the			
		and pink to brownish,coarse grained			andesitic is weakly to moderately			
		monzonite			magnetic-monzonite is non-magnetic			
		11ft and again at 12ft 5-6cm core of						
		monzonite						
		14.5-16ft Monzonite						
		16-26 Shear zone 10% core						
		26-27 Porphyry andesite						
		27-30 Shear zone with 30% recovery						
31	72	Grey,moderately grained (lapilli?) tuff			Sulphides are 1% pyrrhotite after pyrite			30° and 0° wispy veinlets and fracture
		with inclusion upto 4mm across			and very minor chalcopyrite,pyrrhotite form			filling veinlets @30°t.c.a.,epidote and
		The bottom 1ft is more silicified and			casts and along veinlets where they are			quartz are the principal material with
		contains 5-10% muscovite. At the contact with			highly altered to FeOx			minor pyrrhotite
		the underlying unit is 7cm quartz vein			Some fragments(?) upto 3cm are			
72	201	Coarse grained,pink to grey monzonite			incorporated in the tuff and are altered			
		fractures @ 70° with dendity of 20/m			entirely to epidote			
					Mafics are altered to chlorite and epidote			Traces -0.1% of chalcopyrite
					Pervasive micas are common in the grey sections			

Diamond Drill Record

HOLE NO. MRO 89-3 | Page 2 of 2

Section from	Section to	ROCK DESCRIPTION	Interval from	Interval to	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
			116	116	3cm quartz vein-increased mica for 4cm on either side of quartz vein			
			127	127	7cm quartz vein-contact 90°t.c.a.			
			128	135	Sericite alteration. The core is grey in color and FeOx alteration. Commonly extends 2-3cm on either side of fractures Fractures average 10/m 45-60°t.c.a. 0.1% chalcopyrite with 0.5% chalcopyrite in FeOx zones			
			142	152	Sericite alteration-the core is grey in color with 8 fractures per metre. Fractures 40°t.c.a. several of which have 1-2mm thick epidote veinlets along the face			

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: Core AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: JUL 4 1989 DATE REPORT MAILED: July 7/89. SIGNED BY. C. Leong ..D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

CASTLE MINERAL INC File # 89-1899

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
89-2 142-152	4	36	7	35	.1	6	2	348	.66	2	8	ND	1	26	1	3	4	3	.26	.033	6	7	.11	84	.01	4	.44	.02	.12	3	6
89-2 152-162	3	26	11	38	.1	4	3	421	.80	4	7	ND	2	28	1	2	2	5	.22	.031	7	22	.12	106	.01	5	.64	.02	.14	4	2
89-2 162-172	5	49	12	46	.3	6	3	528	.98	28	5	ND	3	20	1	3	2	5	.51	.033	10	6	.09	112	.01	12	.57	.02	.14	3	5
89-2 172-182	4	31	13	48	.2	7	2	406	.84	7	5	ND	1	33	1	3	2	5	.42	.036	8	8	.15	102	.01	5	.67	.03	.16	1	2
89-2 182-187	2	23	10	40	.1	6	3	359	.70	2	5	ND	1	42	1	2	3	4	.80	.035	8	6	.15	90	.01	5	.57	.03	.13	1	2
89-3 10-16	1	42	12	70	.1	6	8	710	2.27	2	5	ND	1	52	1	2	4	42	1.07	.053	7	28	.70	92	.06	8	1.33	.05	.19	1	2
89-3 16-27	1	86	16	105	.2	5	8	1117	2.67	2	5	ND	1	51	1	2	3	64	.62	.053	6	9	.90	288	.17	11	1.98	.09	.91	1	1
89-3 27-33	2	60	22	99	.1	7	8	945	2.11	2	5	ND	1	34	1	2	2	38	.65	.054	6	11	.81	105	.09	2	1.57	.05	.35	1	7
89-3 33-43	1	47	24	150	.1	8	10	1257	2.75	2	5	ND	1	33	1	2	2	47	.73	.058	6	11	1.19	92	.09	4	1.87	.04	.32	1	3
89-3 43-53	1	56	12	77	.4	5	9	864	2.71	2	7	ND	2	89	1	2	2	70	1.00	.061	6	22	.90	366	.16	8	1.99	.11	.59	1	2
89-3 53-63	2	53	20	108	.2	6	10	833	2.56	2	5	ND	1	55	1	2	3	62	.82	.070	5	11	.99	211	.14	5	1.74	.07	.41	1	3
89-3 63-73	2	47	72	133	.1	5	6	638	1.97	2	5	ND	1	38	1	2	2	29	.61	.043	6	7	.54	198	.08	2	1.02	.04	.27	1	9
89-3 73-83	2	12	8	45	.1	3	3	463	.91	2	5	ND	2	36	1	2	2	6	.36	.032	7	6	.23	80	.01	9	.78	.03	.13	2	2
89-3 83-93	2	13	5	39	.1	4	3	456	.85	3	5	ND	2	34	1	2	2	5	.59	.032	8	6	.19	82	.01	12	.73	.03	.14	1	1
89-3 93-103	2	17	8	33	.2	3	3	292	.69	2	5	ND	2	50	1	2	2	4	.31	.035	5	5	.14	156	.02	14	.61	.04	.15	3	2
89-3 103-113	3	22	7	41	.1	5	3	400	.82	2	5	ND	1	44	1	2	2	4	.39	.031	5	6	.17	140	.02	2	.63	.04	.15	1	3
89-3 113-123	3	47	7	42	.1	5	2	453	.93	2	5	ND	1	32	1	2	3	4	.45	.035	8	10	.16	147	.01	10	.64	.04	.15	2	46
89-3 123-133	4	74	6	38	.1	5	2	554	.94	3	5	ND	1	37	1	2	2	4	.80	.036	9	6	.13	98	.01	20	.53	.03	.15	1	41
89-3 133-143	1	68	6	34	.1	2	3	354	.73	4	5	ND	1	47	1	2	2	4	.92	.039	8	4	.15	222	.01	2	.52	.02	.11	1	10
89-3 143-153	2	66	6	33	.1	5	3	317	.74	2	5	ND	1	55	1	2	2	4	.92	.036	8	7	.14	253	.01	7	.57	.03	.13	1	2
89-3 153-160	1	81	6	40	.4	3	3	359	.75	2	5	ND	3	41	1	2	2	4	.53	.041	7	5	.17	82	.01	11	.60	.03	.13	1	7
STD C/AU-R	18	59	44	132	7.2	69	31	1020	4.04	42	19	7	37	50	18	15	24	60	.47	.091	39	55	.82	182	.07	35	1.93	.06	.14	11	520

LOCATION:	Diamond Drill Record		HOLE NO. 89-4	Page 1 of 2
AZIMUTH: 155°	DIPS – collar -47 °	CONTRACTOR:	PROPERTY:	
ELEVATION:	– m °	LOGGED BY: R. Gonzalez	CLAIM NO. WREN 1	
LENGTH: 142' 43.3	– m °	DATE: July 15,1989	SECTION NO.	
CORE SIZE: AQ	– m °		STARTED:	
PURPOSE: High Au geochemistry in soils			COMPLETED:	

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
0	14	Casing-No core						
14	35.2	Dark grey argillite:core recovery						
		40%,most of the core is fractures						
		and the core is badly ground. 1-2mm						
		wide carbonate veins averaging						
		1 per meter						
35.2	57	Andesite agglomerate:dark grey in						
		colour with elongate,well rounded						
		fragments upto 50mm in length and						
		slightly lighter in colour,core						
		is vuggy and fractured at 10-15°						
		and 15/metre. Vuggy are filled						
		with FeOx and MnOx						
57	92	Olive green to grey pyroclastic	57	58	Olive green colour with abundant			
		andesite with fragments 3-5mm	60	70	FeOx (+5% of surface) also			
		highly fractured 30/metre	74	76	the core is highly altered to			
			83	85	clay esp. at 74-76'			

Diamond Drill Record

HOLE NO. 89-4 | Page 2 of 2

Section from	Section to	ROCK DESCRIPTION	Interval from	Interval to	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
92	142	Light greenish-grey andesite with -2% plagioclase crystals upto 4mm long. Core is massive with fractures at 35° to core and	115	117	Vuggy core with MnOx filling the cavities			
EOH		9/metre	121	142		1-2	0,10 upto 30°	Stringers of quartz,carbonate and epidote
		None of the core was magnetic	137	142	The only sulohides seen: 1-3% pyrite euhedral crystals 1-2mm across. The most abundant amount is at the top 137' decreasing downward			

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au* PPB
DDH#4 15-20 A	3	94	12	135	.1	9	13	813	6.99	20	5	ND	4	34	1	2	2	24	.37	.114	10	4	.60	84	.03	2	2.94	.01	.13	5	11
DDH#4 20-25 A	3	96	11	94	.1	8	9	668	7.26	16	5	ND	4	27	1	2	2	21	.35	.136	10	5	.51	62	.02	2	2.88	.02	.15	7	8
DDH#4 15-20 B	2	89	12	144	.1	9	14	836	7.49	16	5	ND	4	37	2	2	2	24	.42	.117	10	5	.61	97	.03	2	3.19	.02	.13	2	6
DDH#4 20-25 B	4	105	12	99	.1	10	9	690	7.05	11	5	ND	4	33	1	2	2	22	.36	.132	10	6	.47	84	.02	2	2.94	.02	.22	11	3

PROPERTY CASTLE MINERALS INC.
WREN CLAIMS

DIAMOND DRILL RECORD

HOLE NO 89-1 PAGE 1 OF 2

LATITUDE	DIPS - collar -70°	AZIMUTH 228°	STARTED
DEPARTURE	- °	CORE SIZE AQ	COMPLETED
ELEVATION	- °	CONTRACTOR	LENGTH 32.6 (107 feet)
SHEET NO.	- °	CLAIM N.E. corner of WREN CLAIM	LOGGED BY Ralph Gonzalez
TARGET Anomalous AU in soil samples			DATE

SECTION [ft] FROM	TO	ROCK DESCRIPTION	MINERALIZATION SUMMARY	ASSAYS SAMPLE NUMBER	INTERVAL	WIDTH	AU [oz/t]
0	20	Casing no core					
				801	20-30		
20	27	Light greyish-green,medium-grained andesite. Core highly broken with few	-2% pyrite along joint	802	30-40		
		fragments larger than 1cm. Some sections contain euhedral plagioclase 15%	surfaces	803	40-50		
		of total ground mass with crystals approximately 1mm long, -2% pyrite	-0.5% diss magnetite	804	50-57		
		mostly along fracture (joints?) surfaces	at 27'. Minor diss	805	72-77		
		Minor -0.5% magnetite at 27' 21'-27' 1 foot of core recovered	FeOx (siderite?)	806	77-87		
		27'-30' 1.5 feet of core recovered	throughout	807	87-92		
		Fault at 19.5-20' 30'-32' 1 foot of core recovered					
		32'-37' 0.5 feet of core recovered					
		37'-47' 0.1 feet of core recovered					
		47'-49' 1 foot of core recovered					
		49'-52' 2.5 feet of core recovered					
		52'-72' 0 feet of core recovered					
		72'-75' 2 feet of core recovered					
		75'-77' 0.6 feet of core recovered					
		77'-80' 2.3 feet of core recovered					
		80'-82' 1.2 feet of core recovered					
		82'-92' 1.5 feet of core recovered					
		92'-97' 0 feet of core recovered					
		97'-107' 0 feet of core recovered					

Diamond Drill Record

HOLE NO. 89-1 | Page 2 of 2

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from m/ft	to m/ft	DESCRIPTION	from m/ft	to m/ft	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
27	30	Fault zone-abundant clay gouge.	27	30	3-5% discontinous veinlets of			
		Light grey 50% clay			pyrite.Veinlets -0.5mm wide			
30	79	Light greyish-green lithic	30	79	Intensely altered to a mixture			-1% diss. euhedral pyrite
		andesite tuff with rounded			of light grey mica(?) (probably			
		fragments upto 4mm long			a mylonite) with minor calcite			
					along fractures			
		37-47 Fault zone with no core						
		recovered						
		47-49 Core ground to pea sized	72	75	Core fractured at 75°t.c.a. and			5% diss. pyrite
		fragments			25°t.c.a..Also most intense			
		52-72 Fault zone with no core			zone of mylonization			
		recovered						
79	83	Massive light greenish-grey						1-2% pyrite crystals
		andesite						+20% euhedral plagioclase
		81-83 Highly broken core						crystals upto 1mm long. No
83	92	Core recovery is -15% fragments						apparent sulphides
		are plate like 1-4mm thick with						
		fractures possibly at 45°t.c.a.						
		fragments seldom with surface						
		area +1cm. Medium grained,greenish						
		lithic andesitic tuff. fragments						
		average 3-4mm in diametre and are						
		usually rounded although some						
		appear strained and angular						

LOCATION:	Diamond Drill Record		HOLE NO. 89-2	Page 1 of 3
AZIMUTH: 260°	DIPS - collar -60 °	CONTRACTOR:	PROPERTY:	
ELEVATION:	- m °	LOGGED BY: Ralph Gonzalez	CLAIM NO.	
LENGTH: 197 feet	- m °	DATE:	SECTION NO.	
CORE SIZE: AQ	- m °		STARTED:	
PURPOSE: High Au geochemical respose in rock and soil			COMPLETED:	

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
0	3	Casing - no core						
3	27	Light greyish-green andesite:	3	18	Fractured @ 50°t.c.a. with epidote	1-3mm	50°	Quartz veinlets with pyrite parallel
		porphyritic texture with plag.			alteration and discontinuous			to veinlet and extending into wall
		crystals upto 0-5cm in length.			quartz veins perpendicular to			rock ±0.5cm Pyrite crystals anhedral
		Weak to moderately magnetic.			fracture. Alteration zone range			to subhedral and 1-2mm across
		Locally pink quartz? amygdules			to 1.5cm. Fracture dinsity 20-25/m			
		upto 2mm			from 7.5ft to 18ft intense epidote	6cm		@ 14' Quartz vein - no sulphides!
					alteration. 20% of core in 1cm veins	14cm		@ 14' FeOx altered core
					and -0.5mm veinlets. Approx. 1%			
					pyrite with an increase to 2-3%			
					in more altered sections			
			18	27	Same as above except reduced -5%	1-3mm		Quartz, plag, epidote veins with
					epidote alteration			-1% pyrite. Only trace amounts of
			26	26.5	10cm FeOx and muscovite altered			pyrite in the andesite
					core			
27	31.5	Light greyish-green, massive,				0.5	50°	75% pyrite as euhedral to subhedral
		silicified andesite						disseminate crystals and as anhedral
								grains adjacent to quartz veinlets

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Section from (ft)	Section to (ft)	ROCK DESCRIPTION	Interval from (ft)	Interval to (ft)	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
			27	31.5	The lower contact is fractured and altered to quartz,plag.micas and uralitized hornblende FeOx increases toward to lower contact and pyrite decreases over the last foot			
31.5		Lower contact 30°t.c.a. fractured			Traces -0.5% chalcopyrite with			
31.5	141	Coarse grained greyish pink monzonite. Hornblende (mafics) are altered to chlorite			FeOx along the rim. Crystals are usually euhedral			
		41.5-43.5 Andisite with 5-8% pyrite similar to above			All of the core shows moderate-to weak propylitic alteration with local phyllic alteration			
		Monzonite fractured 30°t.c.a. averaging 5-7/m Most of the core is weak to very weakly magnetic	57	57	4cm of quartz vein contact 85°t.c.a. Mafics altered to chlorite and a yellowish epidote (?)			
			84	89	Colour change increase in pink (FeOx increase) and intense alteration of the mafics to micas (sericite)			Sulphides weathered to FeOx
			98	98	4cm quartz vein 40°t.c.a.			
			109	109	3cm quartz vein			
			106	106	2cm quartz vein 90°t.c.a.			
			111	112	Sericite alteration			
			120		3cm quartz vein			
			137		3cm qiartz vein pyrite			
			127	128	Bleached core with slight increase			

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Section from (ft)	Section to (ft)	ROCK DESCRIPTION	Interval from (ft)	Interval to (ft)	ALTERATION. MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
			135	137	Bleached core with muscovite			
141	197	Coarse grained monzonite grey to pink in colour,non-magnetic to very weakly magnetic. The grey coloured sections reflect and increase in sericite alteration. Generally,however,the core is weakly propylifically altered with mafics + epidote. The sericite development may in part be due to quartz veins			Chalcopyrite 0.5% with FeOx rims FeOx rims increase in the more altered sections. 141-148,157-172,176-180			
			143	144	28cm quartz vein 85°t.c.a.			
		141-145 Sericite altered monzonite with 1ft quartz vein @ 143-144	172	172	Poor core recovery (50%) between 162-172 feet 3cm quartz part of			
		157-172 FeOx abundant and fractures @ 20/m with fractures @ 75°t.c.a.						

LOCATION:	Diamond Drill Record		HOLE NO. 89-3	Page 1 of 2
AZIMUTH: 255°	DIPS - collar -60 °	CONTRACTOR:	PROPERTY:	
ELEVATION:	- m °	LOGGED BY: Ralph Gonzalez	CLAIM NO.	
LENGTH: 201 feet	- m °	DATE: June 30,1989	SECTION NO.	
CORE SIZE: AQ	- m °		STARTED:	
PURPOSE:			COMPLETED:	

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
0	10	Casing, no core recovered						
10	31	Mixture of light green,fine grained			-0.1 pyrite and local pyrrhotite,odd			
		andesite;greyish,porphyritic andesite;			grain of chalcopyrite.Most of the			
		and pink to brownish,coarse grained			andesitic is weakly to moderately			
		monzonite			magnetic-monzonite is non-magnetic			
		11ft and again at 12ft 5-6cm core of						
		monzonite						
		14.5-16ft Monzonite						
		16-26 Shear zone 10% core						
		26-27 Porphyry andesite						
		27-30 Shear zone with 30% recovery						
31	72	Grey,moderately grained (lapilli?) tuff			Sulphides are 1% pyrrhotite after pyrite			30° and 0° wispy veinlets and fracture
		with inclusion upto 4mm across			and very minor chalcopyrite,pyrrhotite form			filling veinlets @30°t.c.a.,epidote and
		The bottom 1ft is more silicified and			casts and along veinlets where they are			quartz are the principal material with
		contains 5-10% muscovite. At the contact with			highly altered to FeOx			minor pyrrhotite
		the underlying unit is 7cm quartz vein			Some fragments(?) upto 3cm are			
72	201	Coarse grained,pink to grey monzonite			incorporated in the tuff and are altered			
		fractures @ 70° with dendity of 20/m			entirely to epidote			
					Mafics are altered to chlorite and epidote			Traces -0.1% of chalcopyrite
					Pervasive micas are common in the grey sections			

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HOLE NO. MRO 89-3 | Page 2 of 2

Section from	Section to	ROCK DESCRIPTION	Interval from	Interval to	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
			116	116	3cm quartz vein-increased mica for 4cm on either side of quartz vein			
			127	127	7cm quartz vein-contact 90°t.c.a.			
			128	135	Sericite alteration. The core is grey in color and FeOx alteration. Commonly extends 2-3cm on either side of fractures Fractures average 10/m 45-60°t.c.a. 0.1% chalcopyrite with 0.5% chalcopyrite in FeOx zones			
			142	152	Sericite alteration-the core is grey in color with 8 fractures per metre. Fractures 40°t.c.a. several of which have 1-2mm thick epidote veinlets along the face			

LOCATION:	Diamond Drill Record		HOLE NO. 89-4	Page 1 of 2
AZIMUTH: 155°	DIPS - collar -47 °	CONTRACTOR:	PROPERTY:	
ELEVATION:	- m °	LOGGED BY: R. Gonzalez	CLAIM NO. WREN 1	
LENGTH: 142'	- m °	DATE: July 15,1989	SECTION NO.	
CORE SIZE: AQ	- m °		STARTED:	
PURPOSE: High Au geochemistry in soils			COMPLETED:	

Section		ROCK	Interval		ALTERATION,	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION etc.	Thickness mm	Angle to core	minerals in decreasing abundance
0	14	Casing-No core						
14	35.2	Dark grey argillite:core recovery						
		40%,most of the core is fractures						
		and the core is badly ground. 1-2mm						
		wide carbonate veins averaging						
		1 per meter						
35.2	57	Andesite agglomerate:dark grey in						
		colour with elongate,well rounded						
		fragments upto 50mm in length and						
		slightly lighter in colour,core						
		is vuggy and fractured at 10-15°						
		and 15/metre. Vuggy are filled						
		with FeOx and MnOx						
57	92	Olive green to grey pyroclastic	57	58	Olive green colour with abundant			
		andesite with fragments 3-5mm	60	70	FeOx (+5% of surface) also			
		highly fractured 30/metre	74	76	the core is highly altered to			
			83	85	clay esp. at 74-76'			

Diamond Drill Record

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Section from	Section to	ROCK DESCRIPTION	Interval from	Interval to	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
92	142	Light greenish-grey andesite with -2% plagioclase crystals upto 4mm long. Core is massive with fractures at 35° to core and	115	117	Vuggy core with MnOx filling the cavities			
EOH		9/metre	121	142		1-2	0,10 upto 30°	Stringers of quartz,carbonate and epidote
		None of the core was magnetic	137	142	The only sulohides seen: 1-3% pyrite euhedral crystals 1-2mm across. The most abundant amount is at the top 137' decreasing downward			

Diamond Drill Record

LOCATION:			HOLE NO. 89-5 Page 1 of 2
AZIMUTH: 260°	DIPS - collar 45 °	CONTRACTOR:	PROPERTY: WREN GROUP
ELEVATION:	- m °	LOGGED BY: R. Gonzalez	CLAIM NO. WREN 1
LENGTH:	- m °	DATE: July 15,1989	SECTION NO.
CORE SIZE: AQ	- m °		STARTED:
PURPOSE: Shear zone with Au and sulphides			COMPLETED:

Section from (ft)	Section to (ft)	ROCK DESCRIPTION	Interval from (ft)	Interval to (ft)	ALTERATION, MINERALIZATION etc.	VEINLETS Thickness mm	VEINLETS Angle to core	VEINLETS minerals in decreasing abundance
0	4	Casing no core						
4	10	Weathered light grey andesite,						
		stained rusty brown						
10	24	Light grey,f/g andesite,+20%	10	24	+5% very fine grained sulphides			
		plagioclase crystals,2-4mm long			(pyrite?)			
		60% core recovery						
24	43	Lithic tuff composed of light	20	35	Pyrite is less than 1% and			
		olive green,f/g groundmass and			usually poorly formed euhedral			
		dark grey to black.10-15% f/g			crystals			
		fragments upto 6mm long. Pyrite	41	43	Vuggy quartz vein parallel to			
		generally confined to the mafic			core with FeOx staining			
		fragments. The core becomes						
		"greener" with depth and lithic						
		fragments more rounded and often						
		with a core of quartz						

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Section		ROCK	Interval		ALTERATION,	VEINLETS		
from (ft)	to (ft)	DESCRIPTION	from (ft)	to (ft)	MINERALIZATION .etc.	Thickness mm	Angle to core	minerals in decreasing abundance
43		Light grey,f/g massive andesite slightly metamorphosed with plagioclase and sulphides parallel to schistosity 51-60 Lithic tuff with no visible sulphides 68-70 Light green tuff with local clots and stringers of chlorite Some of the more greenish material is very talc like to the touch 70-75 core lost			Pyrite occurs as stringers and and clusters parallel to the schistosity 30-40° to core Pyrite locally may be as high as 5% but usually averages about 1-2% Disseminated and clusters of pyrite parallel to schistosity			Discontinous quartz and quartz carbonate veinlets 1-3mm across the schistosity 70 ° to core 5 veinlets/meter