

AFFIDAVIT OF ANNUAL ASSESSMENT WORK

STATE OF MONTANA)
:
County of Yellowstone)

Patrick C. Cavanaugh, being duly sworn, states that at least \$21,800 was expended for labor, improvements and development, including geochemical, geological and/or geophysical work, upon or for the benefit of all the claims listed located in Township 25 and 26 North, Range 48, 48½, and 49 East, and described in the attached Exhibit "A". The work included the geochemical analysis of drill cuttings from drill holes, and the geologic interpretation of the results. Attached to this Affidavit is a copy of the Summary Report of such work as required by Title 30, United States Codes, Section 28-1.

All of the unpatented lode mining claims listed in Exhibit "A" are contiguous. The work performed to benefit all the claims was done for the purpose of developing the mineral potential of the claims and to maintain and hold such claims during the annual assessment year ending September 1, 1991. The date on which the work or improvements were made is between September 1, 1990 and September 1, 1991.

Such work and improvements were made by Santa Fe Pacific Mining and ECM Inc., for and at the expense of ECM, Inc., P.O. Box 3493, Billings, Montana 59103, owner of the claims.

By: Patrick C. Cavanaugh Dated: Oct. 15, 1991
Patrick C. Cavanaugh

STATE OF MONTANA)
:
County of Yellowstone)

On this 15th day of October, 1991, before me, Bruce L. Ennis, a Notary Public for the State of Montana, personally appeared Patrick C. Cavanaugh, known to me to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same.

Bruce L. Ennis
Notary for the State of Montana,
residing at Billings, Montana

My commission expires: February 20, 1994



Exhibit A

Horse Canyon South Mining Claims HCS 1-218

Sections 13,14,23,24,25,26,35 and 36, T 26 N, R 48 E; Sections 19, 30, 31 and 32, T 26 N, R 49 E; Sections 1 and 2, T 25 N, R 48 E; Section 1, T 25 N, R 48.5 E; Section 6, T 25 N, R 49 E; Eureka County, Nevada

<u>Claim Name</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>Book</u>	<u>Page</u>	<u>BLM SERIAL #</u>
HCS 1	14	26N	48E	190	041	NMC 522732
				197	121	* Amended
HCS 2	14	26N	48E	190	042	NMC 522733
				197	121	* Amended
HCS 3	14	26N	48E	190	043	NMC 522734
				197	121	* Amended
HCS 4	14,23	26N	48E	190	043	NMC 522735
				197	121	* Amended
HCS 5	14	26N	48E	190	045	NMC 522736
				197	121	* Amended
HCS 6	14,23	26N	48E	190	046	NMC 522737
				197	121	* Amended
HCS 7	14	26N	48E	190	047	NMC 522738
				197	121	* Amended
HCS 8	14,23	26N	48E	190	048	NMC 522739
				197	121	* Amended
HCS 9	14	26N	48E	190	049	NMC 522740
				197	121	* Amended
HCS 10	14,23	26N	48E	190	050	NMC 522741
				197	121	* Amended
HCS 11	13,14	26N	48E	190	051	NMC 522742
				197	121	* Amended
HCS 12	13,14,23,24	26N	48E	190	052	NMC 522743
				197	121	* Amended
HCS 13	13	26N	48E	190	053	NMC 522744
HCS 14	13,24	26N	48E	190	054	NMC 522745
HCS 15	13	26N	48E	190	055	NMC 522746
HCS 16	13,24	26N	48E	190	056	NMC 522747
HCS 17	14	26N	48E	190	057	NMC 522748
HCS 18	13,24	26N	48E	190	058	NMC 522749
HCS 19	13,24	26N	48E	190	059	NMC 522750
HCS 20	13,24	26N	48E	190	060	NMC 522751
HCS 21	13,24	26N	48E	190	061	NMC 522752
HCS 22	13,24	26N	48E	190	062	NMC 522753

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HCS 23	13,24	26N	48E	190	063	NMC 522754
HCS 24	13,24 19,30	26N 26N	48E 49E	190	064	NMC 522755
HCS 25	23	26N	48E	190	065	NMC 522756
HCS 26	23	26N	48E	190	066	NMC 522757
HCS 27	23	26N	48E	190	067	NMC 522758
HCS 28	23	26N	48E	190	068	NMC 522759
HCS 29	23	26N	48E	190	069	NMC 522760
HCS 30	23	26N	48E	190	070	NMC 522761
HCS 31	23	26N	48E	190	071	NMC 522762
HCS 32	23	26N	48E	190	072	NMC 522763
HCS 33	23,24	26N	48E	190	073	NMC 522764
HCS 34	23,24	26N	48E	190	074	NMC 522765
HCS 35	24	26N	48E	190	075	NMC 522766
HCS 36	24	26N	48E	190	076	NMC 522767
HCS 37	24	26N	48E	190	077	NMC 522768
HCS 38	24	26N	48E	190	078	NMC 522769
HCS 39	24	26N	48E	190	079	NMC 522770
HCS 40	24	26N	48E	190	080	NMC 522771
HCS 41	24	26N	48E	190	081	NMC 522772
HCS 42	24	26N	48E	190	082	NMC 522773
HCS 43	24	26N	48E	190	083	NMC 522774
HCS 44	24	26N	48E	190	084	NMC 522775
HCS 45	24	26N	48E	190	085	NMC 522776
HCS 46	24	26N	48E	190	086	NMC 522777
HCS 47	24	26N	48E	190	087	NMC 522778
HCS 48	24	26N	48E	190	088	NMC 522779

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HCS 49	24	26N	48E	190	089	NMC 522780
HCS 50	24	26N	48E	190	090	NMC 522781
HCS 51	24,30	26N	48E	190	091	NMC 522782
HCS 52	24	26N	48E	190	092	NMC 522783
HCS 53	23,26	26N	48E	190	093	NMC 522784
HCS 54	26	26N	48E	190	094	NMC 522785
HCS 55	23,26	26N	48E	190	095	NMC 522786
HCS 56	26	26N	48E	190	096	NMC 522787
HCS 57	23,26	26N	48E	190	097	NMC 522788
HCS 58	26	26N	48E	190	098	NMC 522789
HCS 59	23,26	26N	48E	190	099	NMC 522790
HCS 60	26	26N	48E	190	100	NMC 522791
HCS 61	23,24,25,26	26N	48E	190	101	NMC 522792
HCS 62	25,26	26N	48E	190	102	NMC 522793
HCS 63	24,25	26N	48E	190	103	NMC 522794
HCS 64	25	26N	48E	190	104	NMC 522795
HCS 65	24,25	26N	48E	190	105	NMC 522796
HCS 66	25	26N	48E	190	106	NMC 522797
HCS 67	24,25	26N	48E	190	107	NMC 522798
HCS 68	25	26N	48E	190	108	NMC 522799
HCS 69	24,25	26N	48E	190	109	NMC 522800
HCS 70	25	26N	48E	190	110	NMC 522801
HCS 71	24,25	26N	48E	190	111	NMC 522802
HCS 72	25	26N	48E	190	112	NMC 522803
HCS 73	24,25	26N	48E	190	113	NMC 522804
HCS 74	25	26N	48E	190	114	NMC 522805
HCS 75	24,25	26N	48E	190	115	NMC 522806

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HCS 76	25	26N	48E	190	116	NMC 522807
HCS 77	24,25	26N	48E	190	117	NMC 522808
HCS 78	25	26N	48E	190	118	NMC 522809
HCS 79	24,25	26N	48E	190	119	NMC 522810
HCS 80	25	26N	48E	190	120	NMC 522811
HCS 81	26	26N	48E	190	121	NMC 522812
HCS 82	26	26N	48E	190	122	NMC 522813
HCS 83	26	26N	48E	190	123	NMC 522814
HCS 84	26	26N	48E	190	124	NMC 522815
HCS 85	26	26N	48E	190	125	NMC 522816
HCS 86	26	26N	48E	190	126	NMC 522817
HCS 87	26	26N	48E	190	127	NMC 522818
HCS 88	26	26N	48E	190	128	NMC 522819
HCS 89	25,26	26N	48E	190	129	NMC 522820
HCS 90	26	26N	48E	190	130	NMC 522821
HCS 91	25,26	26N	48E	190	131	NMC 522822
HCS 92	25,26	26N	48E	190	132	NMC 522823
HCS 93	25	26N	48E	190	133	NMC 522824
HCS 94	25	26N	48E	190	134	NMC 522825
HCS 95	25	26N	48E	190	135	NMC 522826
HCS 96	25	26N	48E	190	136	NMC 522827
HCS 97	25	26N	48E	190	137	NMC 522828
HCS 98	25	26N	48E	190	138	NMC 522829
HCS 99	25	26N	48E	190	139	NMC 522830
HCS 100	25	26N	48E	190	140	NMC 522831
HCS 101	25	26N	48E	190	141	NMC 522832
HCS 102	25	26N	48E	190	142	NMC 522833

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HCS 103	25	26N	48E	190	143	NMC 522834
HCS 104	25	26N	48E	190	144	NMC 522835
HCS 105	25	26N	48E	190	145	NMC 522836
HCS 106	25	26N	48E	190	146	NMC 522837
HCS 107	25	26N	48E	190	147	NMC 522838
HCS 108	25	26N	48E	190	148	NMC 522839
HCS 109	25	26N	48E	190	149	NMC 522840
HCS 110	31	26N	49E	190	150	NMC 522841
HCS 111	31	26N	49E	190	151	NMC 522842
HCS 112	31	26N	49E	190	152	NMC 522843
HCS 113	31	26N	49E	190	153	NMC 522844
HCS 114	31	26N	49E	190	154	NMC 522845
HCS 115	31	26N	49E	190	155	NMC 522846
HCS 116	31	26N	49E	190	156	NMC 522847
HCS 117	31	26N	49E	190	157	NMC 522848
HCS 118	31, 32	26N	49E	190	158	NMC 522849
HCS 119	26, 35	26N	48E	190	159	NMC 522850
HCS 120	35	26N	48E	190	160	NMC 522851
HCS 121	26, 35	26N	48E	190	161	NMC 522852
HCS 122	35	26N	48E	190	162	NMC 522853
HCS 123	26, 35	26N	48E	190	163	NMC 522854
HCS 124	35	26N	48E	190	164	NMC 522855
HCS 125	26, 35	26N	48E	190	165	NMC 522856
HCS 126	35	26N	48E	190	166	NMC 522857
HCS 127	26, 35	26N	48E	190	167	NMC 522858
HCS 128	35	26N	48E	190	168	NMC 522859

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HCS 129	25,26,35,36	26N	48E	190	169	NMC 522860
HCS 130	35,36	26N	48E	190	170	NMC 522861
HCS 131	25,36	26N	48E	190	171	NMC 522862
HCS 132	36	26N	48E	190	172	NMC 522863
HCS 133	25,36	26N	48E	190	173	NMC 522864
HCS 134	36	26N	48E	190	174	NMC 522865
HCS 135	25,36	26N	48E	190	175	NMC 522866
HCS 136	36	26N	48E	190	176	NMC 522867
HCS 137	25,36	26N	48E	190	177	NMC 522868
HCS 138	36	26N	48E	190	178	NMC 522869
HCS 139	25,36	26N	48E	190	179	NMC 522870
HCS 140	36	26N	48E	190	180	NMC 522871
HCS 141	25,36	26N	48E	190	181	NMC 522872
HCS 142	36	26N	48E	190	182	NMC 522873
HCS 143	25,36	26N	48E	190	183	NMC 522874
HCS 144	36	26N	48E	190	184	NMC 522875
HCS 145	25,36	26N	48E	190	185	NMC 522876
HCS 146	36	26N	48E	190	186	NMC 522877
HCS 147	25,36 1 31	26N 25N 26N	48E 48.5E 49E	190	187	NMC 522878
HCS 148	36 1	26N 25N	48E 48.5E	190	188	NMC 522879
HCS 149	31 1	26N 25N	48E 48.5E	190	189	NMC 522880
HCS 150	1	25N	48.5E	190	190	NMC 522881
HCS 151	1 31	25N 26N	48.5E 49E	190	191	NMC 522882

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HCS 152	1	25N	48.5E	190	192	NMC 522883
HCS 153	1 31	25N 26N	48.5E 49E	190	193	NMC 522884
HCS 154	1	25N	48.5E	190	194	NMC 522885
HCS 155	1 6 31	26N	48E	190	195	NMC 522886
HCS 156	1 6	25N 25N	48.5E 49E	190	196	NMC 522887
HCS 157	6 31	25N 26N	49E 49E	190	197	NMC 522888
HCS 158	6	25N	49E	190	198	NMC 522889
HCS 159	6 31	25N 26N	49E 49E	190	199	NMC 522890
HCS 160	6	25N	49E	190	200	NMC 522891
HCS 161	6 31	25N 26N	49E 49E	190	201	NMC 522892
HCS 162	6	25N	49E	190	202	NMC 522893
HCS 163	6 31	25N 26N	49E 49E	190	203	NMC 522894
HCS 164	6	25N	49E	190	204	NMC 522895
HCS 165	6 31,32	25N 26N	49E 49E	190	205	NMC 522896
HCS 166	6	25N	49E	190	206	NMC 522897
HCS 167	2 34,35	25N 26N	48E 48E	190	207	NMC 522898
HCS 168	2 35	25N 26N	48E 48E	190	208	NMC 522899
HCS 169	2 35	25N 26N	48E 48E	190	209	NMC 522900
HCS 170	2 35	25N 26N	48E 48E	190	210	NMC 522901
HCS 171	35	26N	48E	190	211	NMC 522902

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HCS 172	1,2 35	25N 26N	48E 48E	190	212	NMC 522903
HCS 173	35	26N	48E	190	213	NMC 522904
HCS 174	35 1	26N 25N	48E 48E	190	214	NMC 522905
HCS 175	35	26N	48E	190	215	NMC 522906
HCS 176	35 1	26N 25N	48E 48E	190	216	NMC 522907
HCS 177	35	26N	48E	190	217	NMC 522908
HCS 178	35 1	26N 25N	48E 48E	190	218	NMC 522909
HCS 179	35	26N	48E	190	219	NMC 522910
HCS 180	35 1	26N 25N	48E 48E	190	220	NMC 522911
HCS 181	35,36	26N	48E	190	221	NMC 522912
HCS 182	35,36 1	26N 25N	48E 48E	190	222	NMC 522913
HCS 183	36	26N	48E	190	223	NMC 522914
HCS 184	36 1	26N 25N	48E 48E	190	224	NMC 522915
HCS 185	36	26N	48E	190	225	NMC 522916
HCS 186	36 1	26N 25N	48E 48E	190	226	NMC 522917
HCS 187	36	26N	48E	190	227	NMC 522918
HCS 188	36 1	26N 25N	48E 48E	190	228	NMC 522919
HCS 189	36	26N	48E	190	229	NMC 522920
HCS 190	36 1 1	26N 25N 25N	48E 48E 48.5E	190	230	NMC 522921

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HCS 191	36	26N	48E	190	231	NMC 522922
HCS 192	36 1	26N 25N	48E 48.5E	190	232	NMC 522923
HCS 193	36	26N	48E	190	233	NMC 522924
HCS 194	36 1	26N 25N	48E 48.5E	190	234	NMC 522925
HCS 195	36	26N	48E	190	235	NMC 522926
HCS 196	36 1	26N 25N	48E 48.5E	190	236	NMC 522927
HCS 197	36 1	26N 25N	48E 48.5E	190	237	NMC 522928
HCS 198	36 1	26N 25N	48E 48.5E	190	238	NMC 522929
HCS 199	36 1	26N 25N	48E 48.5E	190	239	NMC 522930
HCS 200	36 1	26N 25N	48E 48.5E	190	240	NMC 522031
HCS 201	1	25N	48.5E	190	241	NMC 522032
HCS 202	1	25N	48.5E	190	242	NMC 522033
HCS 203	1	25N	48.5E	190	243	NMC 522034
HCS 204	1 6	25N 25N	48.5E 49E	190	244	NMC 522035
HCS 205	6	25N	49E	190	245	NMC 522036
HCS 206	6	25N	49E	190	246	NMC 522037
HCS 207	6	25N	49E	190	247	NMC 522038
HCS 208	14, 23	26N	48E	190 197	248 121	NMC 522039 *AMENDED
HCS 209	23	26N	48E	190	249	NMC 522940
HCS 210	23	26N	48E	190	250	NMC 522941
HCS 211	23, 26	26N	48E	190	251	NMC 522942
HCS 212	26	26N	48E	190	252	NMC 522943

<u>Claim Name</u>	<u>Section</u>	<u>Township</u>	<u>Range</u>	<u>Book</u>	<u>Page</u>	<u>BLM SERIAL #</u>
HCS 213	26	26N	48E	190	253	NMC 522944
HCS 214	26	26N	48E	190	254	NMC 522945
HCS 215	25 31	26N 26N	48E 49E	190	255	NMC 522946
HCS 216	31	26N	49E	190	256	NMC 522947
HCS 217	31	26N	49E	190	257	NMC 522948
HCS 218	31,32	26N	49E	190	258	NMC 522949

COPY

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SUMMARY REPORT

GEOLOGICAL WORK

EUREKA COUNTY, NEVADA
M.N. REBALEATI, RECORDER
FILE NO. FEE \$ 381⁵⁰

138244

This detailed report is filed for the year 1990-1991 in compliance with the requirements of Title 30, United States Code, Section 28-1 for the HCS 1-218 unpatented lode mining claims situated in the unknown Mining District of ~~London~~ Eureka County, Nevada.

The work performed consisted of the geochemical analysis of 925 samples which resulted from reverse circulation rotary drilling. Samples were analyzed for gold, silver, arsenic, mercury, antimony, aluminum, barium, beryllium, bismuth, cadmium, calcium, cobalt, chromium, copper, iron, gallium, potassium, lanthanum, magnesium, manganese, molybdenum, sodium, nickel, phosphorus, lead, scandium, strontium, titanium, uranium, vanadium, tungsten, and zinc. Additional work included geochemical logging of drill holes and interpretation of various lithologies based upon chemistry.

The results of the work indicate that the Horse Canyon South property is geologically favorable to host bulk mineable gold deposits in lower plate rocks beneath the Roberts Mountains thrust.

The work was performed by Patrick Cavanaugh, ECM's geologist and by Gary Massingill and Ron Parrat, geologists with Santa Fe Pacific Mining, Inc. Mr. Cavanaugh has a M.S. degree in geology from the University of Montana, and approximately 18 years experience in metals exploration. Both Mr. Parrat and Mr. Massingill have degrees in geology and considerable experience in the mining industry.

All results of these geological surveys are in the possession of ECM Inc., P.O. Box 3493, Billings, Montana 59103.

Oct 15, 1991

Date

Patrick C. Cavanaugh

Patrick C. Cavanaugh
Geologist - President
ECM, Inc.