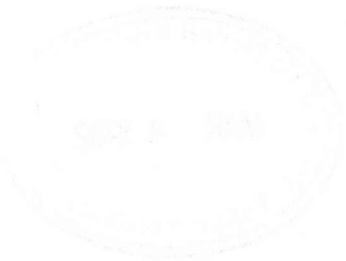


GEOLOGICAL AND  
GEOCHEMICAL REPORT  
ON THE

BE CLAIMS **090995**





RECEIVED  
MINING DEPARTMENT  
YUKON TERRITORY  
JAN 15 1968

This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation to the amount  
of \$ 3,800-

*R. Watson*

1st Regional Manager, Exploration and  
Geological Services for ~~Commission~~  
of Yukon Territory.

GEOLOGICAL AND GEOCHEMICAL REPORT

ON THE  
BE CLAIMS

Mayo Mining Division

N.T.S. - 105 M/14

Centered on  $63^{\circ}57'$  Latitude,  $135^{\circ}02'$  Longitude

Owned by:

CANADA TUNGSTEN MINING CORPORATION LIMITED  
Executive Office  
Box 12525, Oceanic Plaza  
Ste. 1600-1066 W. Hastings St.  
Vancouver, B.C. V6E 3X1

Work by:

BEMA INDUSTRIES LTD.  
19945-56th Avenue  
Langley, B.C. V3A 3Y2

D.N. Bonnar, B.Sc.

July, 1981

Field work conducted June 28, 1981 to July 17, 1981

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GEOLOGICAL AND GEOCHEMICAL REPORT  
ON THE  
BE CLAIMS

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GEOLOGICAL AND GEOCHEMICAL REPORT  
ON THE  
BE CLAIMS

1.0 INTRODUCTION

The BE claim group consists of 281 quartz mineral claims and 38 fractional mineral claims which are owned by Canada Tungsten Mining Corporation Limited. Bema Industries Ltd. was contracted by Canada Tungsten Mining Corporation Limited to carry out a geological exploration program on these claims during the 1981 field season.

Work done in 1981 consisted of reconnaissance geological mapping at 1:5,000 scale. The work was done in the vicinity of the 38 BE fractions, in order that it could be applied for assessment purposes.

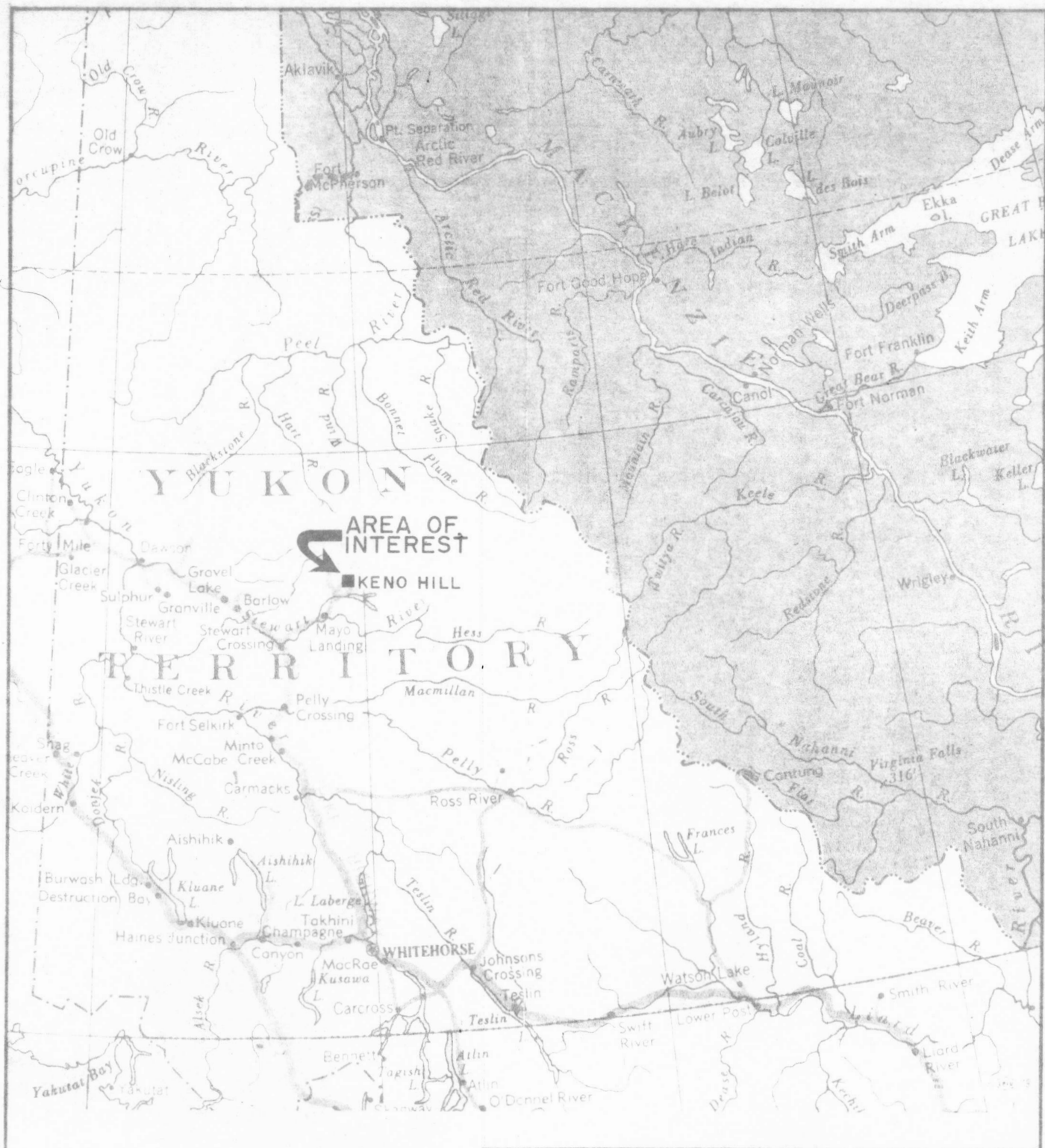
1.1 LOCATION AND ACCESS

The northern BE claim group is located in the Ladue and Gambler Lake Valley and adjoin the ZAP claim group on the western boundary. The eastern BE claims are situated on the eastern slopes of Caribou Hill and Keno Hill. The southern portion of the BE claims straddle the valleys of McNeill and McMillan Gulches. Thirty-eight (38) fractional mineral claims were staked in the vicinity of McNeill and McMillan Gulches in late August 1980.

Access to the central BE claims is by 3 kilometres of good gravel road and 7 kilometres of rough 4x4 road east of Keno Hill townsite along Lightning Creek. There is no road access to the northern and southern portions of the BE claims and they are reached by helicopter or fixed wing aircraft.

1.2 PHYSIOGRAPHY

The BE claims extend over a 13 kilometre length from the Ladue River Valley in the north to the divides of the McNeill and McMillan Gulches in the south. The northern region



**AREA OF INTEREST**  
**KENO HILL**

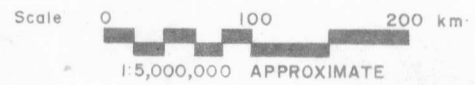
**YUKON TERRITORY**

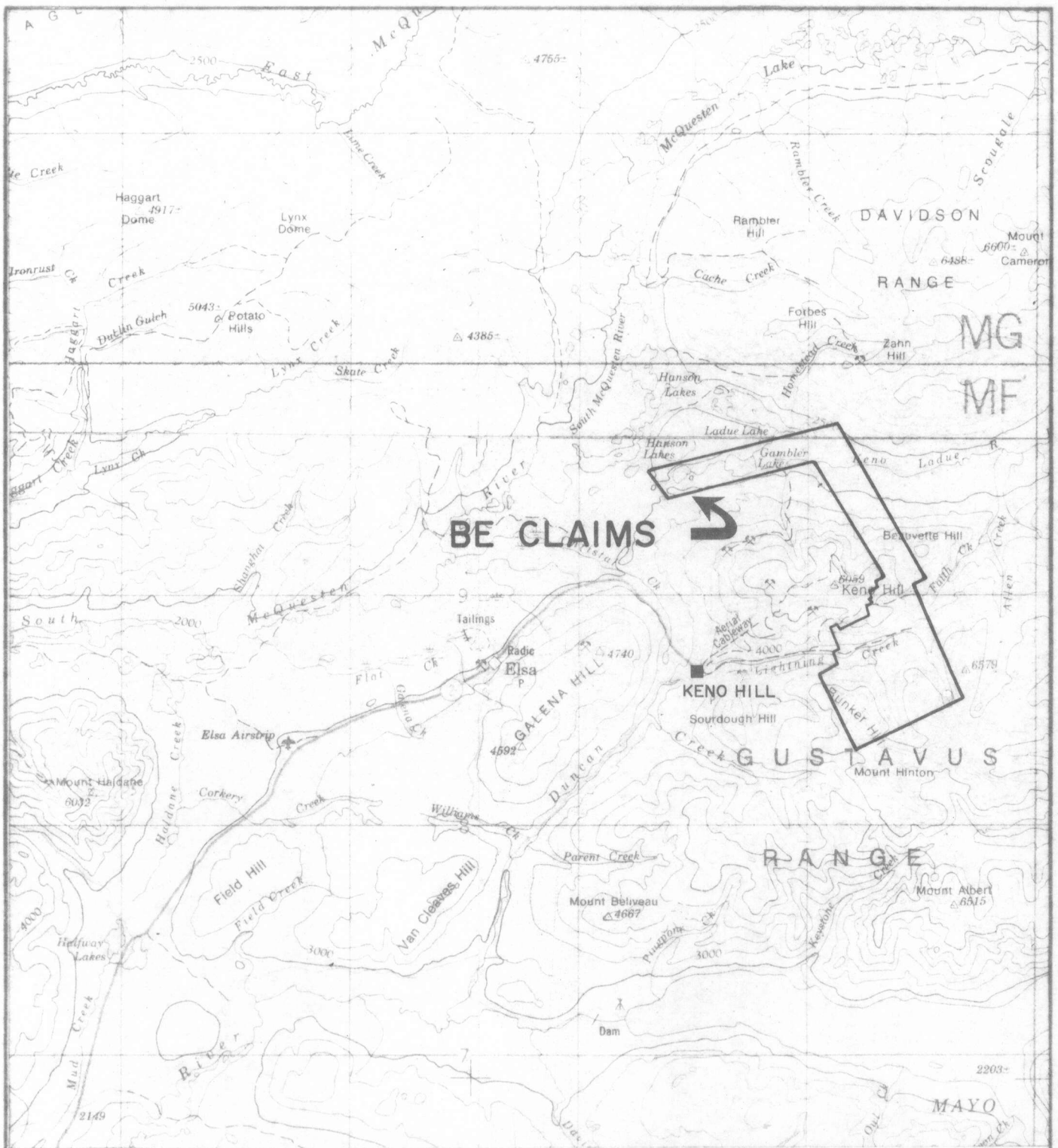
CANADA TUNGSTEN MINING CORPORATION  
**KENO HILL Y.T.**  
 1981 GEOLOGICAL EXPLORATION PROGRAMME

**BE CLAIMS KEY MAP**

DATE <b>FEBRUARY 1981</b>	JOB NO <b>80-09-C</b>
REVISED BY	FIG NO <b>1</b>

**BEMA INDUSTRIES LTD.**





CANADA TUNGSTEN MINING CORPORATION  
**KENO HILL Y.T.**  
 1981 GEOLOGICAL EXPLORATION PROGRAMME

**BE CLAIMS  
 REGIONAL PLAN**

DATE *FEBRUARY 1981*

JOB NO **80-09-C**

REVISED BY

FIG NO **2**



**BEMA INDUSTRIES LTD.**



Scale 0 50 100 km.  
 1:2,500,000 APPROXIMATE

...../2

along Ladue River is flat and swampy and the vegetation consists of alder buckbrush and stunted spruce. The topography of the central and southern region east of Caribou Hill and south of the McNeill and McMillan Gulch divides, consists of moderate to steep alpine slopes with grass and moss cover. The alpine region is transected by Lightning Creek, McNeill Gulch and McMillan Gulch and the vegetation in the valley floors consists largely of thick alder buckbrush.

### 1.3 PROPERTY

The BE claim group consists of 283 quartz mineral claims and 38 fractional mineral claims. All claims are owned by Canada Tungsten Mining Corporation Limited. A list of all the claim data appears in Table 1.

Exploration work done during 1981 will be applied for assessment to keep the BE fraction claims, BE 285 Fr. to BE 322 Fr. in good standing till 1983.

TABLE 1  
BE CLAIMS DATA

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 1	YA 38967	March 2, 1984	100%
BE 2	YA 38968	March 2, 1984	100%
BE 3	YA 38969	March 2, 1984	100%
BE 4	YA 38970	March 2, 1984	100%
BE 5	YA 38971	March 2, 1984	100%
BE 6	YA 38972	March 2, 1984	100%
BE 7	YA 38973	March 2, 1984	100%
BE 8	YA 38974	March 2, 1984	100%
BE 9	YA 38975	March 2, 1984	100%

.... /3

TABLE 1 Cont.

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 10	YA 38976	March 2, 1984	100%
BE 11	YA 38977	March 2, 1984	100%
BE 12	YA 38978	March 2, 1984	100%
BE 13	YA 38979	March 2, 1984	100%
BE 14	YA 38980	March 2, 1984	100%
BE 15	YA 38981	March 2, 1984	100%
BE 16	YA 38982	March 2, 1984	100%
BE 17	YA 38983	March 2, 1984	100%
BE 18	YA 38984	March 2, 1984	100%
BE 19	YA 38985	March 2, 1984	100%
BE 20	YA 38986	March 2, 1984	100%
BE 21	YA 38987	March 2, 1984	100%
BE 22	YA 38988	March 2, 1984	100%
BE 23	YA 38989	March 2, 1984	100%
BE 24	YA 38990	March 2, 1984	100%
BE 25	YA 38991	March 2, 1984	100%
BE 26	YA 38992	March 2, 1984	100%
BE 27	YA 38993	March 2, 1984	100%
BE 28	YA 38994	March 2, 1984	100%
BE 29	YA 38995	March 2, 1984	100%
BE 30	YA 38996	March 2, 1984	100%
BE 31	YA 38997	March 2, 1984	100%
BE 32	YA 38998	March 2, 1984	100%
BE 33	YA 38999	March 2, 1984	100%
BE 34	YA 39000	March 2, 1984	100%
BE 35	YA 39001	March 2, 1984	100%
BE 36	YA 39002	March 2, 1984	100%

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TABLE 1 Cont.

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 37	YA 39003	March 2, 1984	100%
BE 38	YA 39004	March 2, 1984	100%
BE 39	YA 39005	March 2, 1984	100%
BE 40	YA 39006	March 2, 1984	100%
BE 41	YA 39007	March 2, 1984	100%
BE 42	YA 39008	March 2, 1984	100%
BE 43	YA 39009	March 2, 1984	100%
BE 44	YA 39010	March 2, 1984	100%
BE 45	YA 39011	March 2, 1984	100%
BE 46	YA 39012	March 2, 1984	100%
BE 47	YA 39013	March 2, 1984	100%
BE 48	YA 39014	March 2, 1984	100%
BE 49	YA 39015	March 2, 1984	100%
BE 50	YA 39016	March 2, 1984	100%
BE 51	YA 39017	March 2, 1984	100%
BE 52	YA 39018	March 2, 1984	100%
BE 53	YA 39019	March 2, 1984	100%
BE 54	YA 39020	March 2, 1984	100%
BE 55	YA 39021	March 2, 1984	100%
BE 56	YA 39022	March 2, 1984	100%
BE 57	YA 39023	March 2, 1984	100%
BE 58	YA 39024	March 2, 1984	100%
BE 59	YA 39025	March 2, 1984	100%
BE 60	YA 39026	March 2, 1984	100%
BE 61	YA 39027	March 2, 1984	100%
BE 62	YA 39028	March 2, 1984	100%
BE 63	YA 39029	March 2, 1984	100%

.... /5

TABLE 1 Cont.

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 64	YA 39030	March 2, 1984	100%
BE 65	YA 39031	March 2, 1984	100%
BE 66	YA 39032	March 2, 1984	100%
BE 67	YA 39033	March 2, 1984	100%
BE 68	YA 39034	March 2, 1984	100%
BE 69	YA 39035	March 2, 1984	100%
BE 70	YA 39036	March 2, 1984	100%
BE 71	YA 39037	March 2, 1984	100%
BE 72	YA 39038	March 2, 1984	100%
BE 73	YA 39039	March 2, 1984	100%
BE 74	YA 39040	March 2, 1984	100%
BE 75	YA 39041	March 2, 1984	100%
BE 76	YA 39042	March 2, 1984	100%
BE 77	YA 39043	March 2, 1984	100%
BE 78	YA 39044	March 2, 1984	100%
BE 79	YA 39045	March 2, 1984	100%
BE 80	YA 39046	March 2, 1984	100%
BE 81	YA 39047	March 2, 1984	100%
BE 82	YA 39048	March 2, 1984	100%
BE 83	YA 39049	March 2, 1984	100%
BE 84	YA 39050	March 2, 1984	100%
BE 85	YA 39051	March 2, 1984	100%
BE 86	YA 39052	March 2, 1984	100%
BE 87	YA 39053	March 2, 1984	100%
BE 88	YA 39054	March 2, 1984	100%
BE 89	YA 39055	March 2, 1984	100%
BE 90	YA 39056	March 2, 1984	100%

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TABLE 1 Cont.

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 91	YA 39057	March 2, 1984	100%
BE 92	YA 39058	March 2, 1984	100%
BE 93	YA 39059	March 2, 1984	100%
BE 94	YA 39060	March 2, 1984	100%
BE 95	YA 39061	March 2, 1984	100%
BE 96	YA 39062	March 2, 1984	100%
BE 97	YA 39063	March 2, 1984	100%
BE 98	YA 39064	March 2, 1984	100%
BE 99	YA 39065	March 2, 1984	100%
BE 100	YA 39066	March 2, 1984	100%
BE 101	YA 39067	March 2, 1984	100%
BE 102	YA 39068	March 2, 1984	100%
BE 103	YA 39069	March 2, 1984	100%
BE 104	YA 39070	March 2, 1984	100%
BE 105	YA 39071	March 2, 1984	100%
BE 106	YA 39072	March 2, 1984	100%
BE 107	YA 39073	March 2, 1984	100%
BE 108	YA 39074	March 2, 1984	100%
BE 109	YA 39075	March 2, 1984	100%
BE 110	YA 39076	March 2, 1984	100%
BE 111	YA 39077	March 2, 1984	100%
BE 112	YA 39078	March 2, 1984	100%
BE 113	YA 39079	March 2, 1984	100%
BE 114	YA 39080	March 2, 1984	100%
BE 115	YA 39081	March 2, 1984	100%
BE 116	YA 39082	March 2, 1984	100%
BE 117	YA 39083	March 2, 1984	100%

.... /7

TABLE 1 Cont.

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 118	YA 39084	March 2, 1984	100%
BE 119	YA 39085	March 2, 1984	100%
BE 120	YA 39086	March 2, 1984	100%
BE 121	YA 39087	March 2, 1984	100%
BE 122	YA 39088	March 2, 1984	100%
BE 123	YA 39089	March 2, 1984	100%
BE 124	YA 39090	March 2, 1984	100%
BE 125	YA 39091	March 2, 1984	100%
BE 126	YA 39092	March 2, 1984	100%
BE 127	YA 39093	March 2, 1984	100%
BE 128	YA 39094	March 2, 1984	100%
BE 129	YA 39095	March 2, 1984	100%
BE 130	YA 39096	March 2, 1984	100%
BE 131	YA 39097	March 2, 1984	100%
BE 132	YA 39098	March 2, 1984	100%
BE 133	YA 39099	March 2, 1984	100%
BE 134	YA 39100	March 2, 1984	100%
BE 135	YA 39101	March 2, 1984	100%
BE 136	YA 39102	March 2, 1984	100%
BE 137	YA 39103	March 2, 1984	100%
BE 138	YA 39104	March 2, 1984	100%
BE 139	YA 39105	March 2, 1984	100%
BE 140	YA 39106	March 2, 1984	100%
BE 141	YA 39107	March 2, 1984	100%
BE 142	YA 39108	March 2, 1984	100%
BE 143	YA 39109	March 2, 1984	100%
BE 144	YA 39110	March 2, 1984	100%

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TABLE 1 Cont.

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 145	YA 39111	March 2, 1984	100%
BE 146	YA 39112	March 2, 1984	100%
BE 147	YA 39113	March 2, 1984	100%
BE 148	YA 39114	March 2, 1984	100%
BE 149	YA 39115	March 2, 1984	100%
BE 150	YA 39116	March 2, 1984	100%
BE 151	YA 39117	March 2, 1984	100%
BE 152	YA 39118	March 2, 1984	100%
BE 153	YA 39119	March 2, 1984	100%
BE 154	YA 39120	March 2, 1984	100%
BE 155	YA 39121	March 2, 1984	100%
BE 156	YA 39122	March 2, 1984	100%
BE 157	YA 39123	March 2, 1984	100%
BE 158	YA 39124	March 2, 1984	100%
BE 159	YA 39125	March 2, 1984	100%
BE 160	YA 39126	March 2, 1984	100%
BE 161	YA 39127	March 2, 1984	100%
BE 162	YA 39128	March 2, 1984	100%
BE 163	YA 39129	March 2, 1984	100%
BE 164	YA 39130	March 2, 1984	100%
BE 165	YA 39131	March 2, 1984	100%
BE 166	YA 39132	March 2, 1984	100%
BE 167	YA 39133	March 2, 1984	100%
BE 168	YA 39134	March 2, 1984	100%
BE 169	YA 39135	March 2, 1984	100%
BE 170	YA 39136	March 2, 1984	100%
BE 171	YA 39137	March 2, 1984	100%

.... /9

TABLE 1 Cont.

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 172	YA 39138	March 2, 1984	100%
BE 173	YA 39139	March 2, 1984	100%
BE 174	YA 39140	March 2, 1984	100%
BE 175	YA 39141	March 2, 1984	100%
BE 176	YA 39142	March 2, 1984	100%
BE 177	YA 39143	March 2, 1984	100%
BE 178	YA 39144	March 2, 1984	100%
BE 179	YA 39145	March 2, 1984	100%
BE 180	YA 39146	March 2, 1984	100%
BE 181	YA 39147	March 2, 1984	100%
BE 182	YA 39148	March 2, 1984	100%
BE 183	YA 39149	March 2, 1984	100%
BE 184	YA 39150	March 2, 1984	100%
BE 185	YA 39151	March 2, 1984	100%
BE 186	YA 39152	March 2, 1984	100%
BE 187	YA 39153	March 2, 1984	100%
BE 188	YA 39154	March 2, 1984	100%
BE 189	YA 39155	March 2, 1984	100%
BE 190	YA 39156	March 2, 1984	100%
BE 191	YA 39157	March 2, 1984	100%
BE 192	YA 39158	March 2, 1984	100%
BE 193	YA 39159	March 2, 1984	100%
BE 194	YA 39160	March 2, 1984	100%
BE 195	YA 39161	March 2, 1984	100%
BE 196	YA 39162	March 2, 1984	100%
BE 197	YA 39163	March 2, 1984	100%
BE 198	YA 39164	March 2, 1984	100%

.... /10

TABLE 1 Cont.

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 199	YA 39165	March 2, 1984	100%
BE 200	YA 39166	March 2, 1984	100%
BE 201	YA 39167	March 2, 1984	100%
BE 202	YA 39168	March 2, 1984	100%
BE 203	YA 39169	March 2, 1984	100%
BE 204	YA 39170	March 2, 1984	100%
BE 205	YA 39171	March 2, 1984	100%
BE 206	YA 39172	March 2, 1984	100%
BE 207	YA 39173	March 2, 1984	100%
BE 208	YA 39174	March 2, 1984	100%
BE 209	YA 39175	March 2, 1984	100%
BE 210	YA 39176	March 2, 1984	100%
BE 211	YA 39177	March 2, 1984	100%
BE 212	YA 39178	March 2, 1984	100%
BE 213	YA 39179	March 2, 1984	100%
BE 214	YA 39180	March 2, 1984	100%
BE 215	YA 39181	March 2, 1984	100%
BE 216	YA 39182	March 2, 1984	100%
BE 217	YA 39183	March 2, 1984	100%
BE 218	YA 39184	March 2, 1984	100%
BE 219	YA 39185	March 2, 1984	100%
BE 220	YA 39186	March 2, 1984	100%
BE 221	YA 39187	March 2, 1984	100%
BE 222	YA 39188	March 2, 1984	100%
BE 223	YA 39189	March 2, 1984	100%
BE 224	YA 39190	March 2, 1984	100%
BE 225	YA 39191	March 2, 1984	100%

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TABLE 1 Cont.

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 226	YA 39192	March 2, 1984	100%
BE 227	YA 39193	March 2, 1984	100%
BE 228	YA 39194	March 2, 1984	100%
BE 229	YA 39195	March 2, 1984	100%
BE 230	YA 39196	March 2, 1984	100%
BE 231	YA 39197	March 2, 1984	100%
BE 232	YA 39198	March 2, 1984	100%
BE 233	YA 39199	March 2, 1984	100%
BE 234	YA 39200	March 2, 1984	100%
BE 235	YA 39201	March 2, 1984	100%
BE 236	YA 39202	March 2, 1984	100%
BE 237	YA 39203	March 2, 1984	100%
BE 238	YA 39204	March 2, 1984	100%
BE 239	YA 39205	March 2, 1984	100%
BE 240	YA 39206	March 2, 1984	100%
BE 241	YA 39207	March 2, 1984	100%
BE 242	YA 39208	March 2, 1984	100%
BE 243	YA 39209	March 2, 1984	100%
BE 244	YA 39210	March 2, 1984	100%
BE 245	YA 39211	March 2, 1984	100%
BE 246	YA 39212	March 2, 1984	100%
BE 247	YA 39213	March 2, 1984	100%
BE 248	YA 39214	March 2, 1984	100%
BE 249	YA 39215	March 2, 1984	100%
BE 250	YA 39216	March 2, 1984	100%
BE 251	YA 39217	March 2, 1984	100%
BE 252	YA 39218	March 2, 1984	100%

.... /12

TABLE 1 Cont.

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 253	YA 39219	March 2, 1984	100%
BE 254	YA 39220	March 2, 1984	100%
BE 255	YA 39221	March 2, 1984	100%
BE 256	YA 39222	March 2, 1984	100%
BE 257	YA 39223	March 2, 1984	100%
BE 258	YA 39224	March 2, 1984	100%
BE 259	YA 39225	March 2, 1984	100%
BE 260	YA 39226	March 2, 1984	100%
BE 261	YA 39227	March 2, 1984	100%
BE 262	YA 39228	March 2, 1984	100%
BE 263	YA 39229	March 2, 1984	100%
BE 264	YA 39230	March 2, 1984	100%
BE 265	YA 39231	March 2, 1984	100%
BE 266	YA 39232	March 2, 1984	100%
BE 267	YA 39233	March 2, 1984	100%
BE 268	YA 39234	March 2, 1984	100%
BE 269	YA 39235	March 2, 1984	100%
BE 270	YA 39236	March 2, 1984	100%
BE 271	YA 39237	March 2, 1984	100%
BE 272	YA 39238	March 2, 1984	100%
BE 273	YA 39239	March 2, 1984	100%
BE 274	YA 39240	March 2, 1984	100%
BE 275	YA 39241	March 2, 1984	100%
BE 276	YA 39242	March 2, 1984	100%
BE 277	YA 39243	March 2, 1984	100%
BE 278	YA 39244	March 2, 1984	100%
BE 279	YA 39245	March 2, 1984	100%

.... /13

TABLE 1 Cont.

<u>CLAIM NAME</u>	<u>GRANT NUMBER</u>	<u>EXPIRY DATE</u>	<u>OWNERSHIP</u>
BE 281	YA 39246	March 2, 1982	100%
BE 282	YA 39247	March 2, 1982	100%
BE 283	YA 39248	March 2, 1982	100%
BE 284	YA 39249	March 2, 1982	100%
BE 285 Fr.	YA 42494	Sept. 2, 1982	100%
BE 286 Fr.	YA 42495	Sept. 2, 1982	100%
BE 287 Fr.	YA 42496	Sept. 2, 1982	100%
BE 288 Fr.	YA 42497	Sept. 2, 1982	100%
BE 289 Fr.	YA 42498	Sept. 2, 1982	100%
BE 290 Fr.	YA 42499	Sept. 2, 1982	100%
BE 291 Fr.	YA 42500	Sept. 2, 1982	100%
BE 292 Fr.	YA 42501	Sept. 2, 1982	100%
BE 293 Fr.	YA 42502	Sept. 2, 1982	100%
BE 294 Fr.	YA 42503	Sept. 2, 1982	100%
BE 295 Fr.	YA 42504	Sept. 2, 1982	100%
BE 296 Fr.	YA 42505	Sept. 2, 1982	100%
BE 297 Fr.	YA 42506	Sept. 2, 1982	100%
BE 298 Fr.	YA 42507	Sept. 2, 1982	100%
BE 299 Fr.	YA 42508	Sept. 2, 1982	100%
BE 300 Fr.	YA 42509	Sept. 2, 1982	100%
BE 301 Fr.	YA 42510	Sept. 2, 1982	100%
BE 302 Fr.	YA 42511	Sept. 2, 1982	100%
BE 303 Fr.	YA 42512	Sept. 2, 1982	100%
BE 304 Fr.	YA 42513	Sept. 2, 1982	100%
BE 305 Fr.	YA 42514	Sept. 2, 1982	100%

TABLE 1 Cont.

CLAIM NAME	GRANT NUMBER	EXPIRY DATE	OWNERSHIP
BE 306 Fr.	YA 42515	Sept. 2, 1982	100%
BE 307 Fr.	YA 42516	Sept. 2, 1982	100%
BE 308 Fr.	YA 42517	Sept. 2, 1982	100%
BE 309 Fr.	YA 42518	Sept. 2, 1982	100%
BE 310 Fr.	YA 42519	Sept. 2, 1982	100%
BE 311 Fr.	YA 42520	Sept. 2, 1982	100%
BE 312 Fr.	YA 42521	Sept. 2, 1982	100%
BE 313 Fr.	YA 42522	Sept. 2, 1982	100%
BE 314 Fr.	YA 42523	Sept. 2, 1982	100%
BE 315 Fr.	YA 42524	Sept. 2, 1982	100%
BE 316 Fr.	YA 42525	Sept. 2, 1982	100%
BE 317 Fr.	YA 42526	Sept. 2, 1982	100%
BE 318 Fr.	YA 42527	Sept. 2, 1982	100%
BE 319 Fr.	YA 42528	Sept. 2, 1982	100%
BE 320 Fr.	YA 42529	Sept. 2, 1982	100%
BE 321 Fr.	YA 42530	Sept. 2, 1982	100%
BE 322 Fr.	YA 42531	Sept. 2, 1982	100%

1.4 HISTORY

Northern BE Claims

The northern BE claims are situated in the Ladue River - Gambler Lake Valleys. They have not been extensively explored due to deep overburden and the lack of outcrop. During 1979 Bema Industries Ltd. carried out a MaxMin E.M. Survey on a portion of the claims as an extension of the Western Zap claim geophysical survey. There is no other history of exploration in this area.

### Central BE Claims

Numerous people have intermittently held claims within what is now the central BE claims area. Reconnaissance geological mapping in 1980 outlined three areas explored by previous operators to the east of the Idaho General Mines optioned claims and the Faith silver-lead vein. These areas are given below:

- 1) Located 250 metres northeast of Caribou Hill.  
A vein structure 1 to 2 metres wide has been explored by extensive caterpillar trenches.
- 2) Located 500 metres south of Caribou Hill.  
Several hand trenches explore a series of quartz-pyrite veins.
- 3) Located 1500 metres east of the head of Faith Gulch.  
An underground shaft of unknown depth explores a 10 centimetre wide quartz-pyrite vein within a greenstone body.

### Southern BE Claims

Numerous claims have been located in the past in the area of the southern BE claims and sporadic prospecting has been carried out for gold and silver. An adit was driven in the headwall of the McNeill Gulch in 1940 by C. Brefalt. In 1964 the Geological Survey of Canada carried out a stream sediment survey in the Keno Hill area including the streams draining the BE claims. United Keno Hill Mines Ltd. staked 276 claims in 1965-66 as a follow up to this survey. Keno Hill Mines Ltd. exploration survey located 22 veins in McNeill Gulch with encouraging gold-silver assay values. An exploration shaft was sunk on the No. 21 vein and 404 tons of ore was blocked out grading 1.20 oz/ton gold and 18.3 oz/ton silver over an average width of one metre.

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## 1.5 BIBLIOGRAPHY

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TABLE 1

## TABLE of FORMATIONS

ERA	PERIOD	MILLIONS of YEARS	BOYLE, R.W. 1965	GREEN, L.H. TEMPELMAN-KLUIT 1970	BLUSSON, S.L. 1978	BEMA 1981
CENOZOIC	TERTIARY	65		Quartz-Feldspar Porphyry		
MESOZOIC		* 87		Greenstone		Granodiorite
	CRETACEOUS	136	Quartz-Feldspar Porphyry Biotite Lamprophyre	Keno Hill Quartzite fm		Quartz-Feldspar Porphyry Biotite Lamprophyre
			Greenstone			Greenstone Keno Hill Quartzite fm
	JURASSIC	190		Lower Schist fm		Lower Schist fm
MESOZOIC	TRIASSIC	225				
PALEOZOIC	PERMIAN	280				
	CARBONIFEROUS	345			Central Quartzite	
	DEVONIAN	395			Lower Schist	
	SILURIAN	430				
	ORDOVICIAN	500				
	CAMBRIAN	570				
PRECAMBRIAN		4600	Upper Schist fm Central Quartzite fm Lower Schist fm	Upper Schist fm		?Upper Schist fm

NOTE • AGE of MINERALIZATION  
SINCLAIR et al, 1980

.... /17

Zimmer, G.S.,  
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1.6      PRESENT WORK

During the 1981 field season geological mapping at 1:5,000 scale was conducted on the BE claims. This mapping was directed toward filling in stratigraphy and developing a structural concept for the area. The work was conducted in the vicinity of the BE 285 Fr. to 322 Fr. claims in order to apply that work for assessment.

## 2.0 GENERAL GEOLOGY

The Keno Hill - Galena Hill area containing the BE claims is located at the northwestern end of the Selwyn Basin. The Selwyn Basin is a Pb-Zn-Ag bearing province which covers central Yukon, western N.W.T. and north central B.C. The basin is bounded to the east, in the MacKenzie Mountains by a marginal carbonate shelf facies. To the west, the basinal shale facies gives way to the carbonate shelf complex of the Pelly-Cassiar Fold Belt or terminates abruptly against the Tintina Trench. The Tintina Trench, which passes 100 kilometres south of Keno Hill, contains a strike-slip fault with 450 kilometres of right lateral displacement (Tempelman-Kluit, 1970).

The rocks underlying the Keno Hill - Galena Hill area are predominantly metasediments of the Yukon Group. Until recently the Yukon Group was thought to be of Precambrian age. Boyle (1965) considered the section to be a simple homocline of metasediments of probable Precambrian age. Tempelman-Kluit (1970) and Green (1971) have interpreted Mesozoic ages for the Lower Schist (Jurassic) and Central Quartzite (Lower Cretaceous) formations and a Precambrian age for the allochthonous Upper Schist formation. Blusson (1978) suggested that the Lower Schist and Central Quartzite formations resemble the Upper Devonian to Mississippian Canol and Imperial formations.

The Lower Schist formation consists predominantly of graphitic schists with minor intercalated chlorite-sericite schist and thin bedded quartzite, conformably overlain by the Central Quartzite formation.

The Central Quartzite formation consists of thick and thin bedded quartzite with intercalated graphitic phyllite, argillite and schist.

The Upper Schist formation overlies the Central Quartzite formation. The nature of the contact between Central Quartzite and Upper Schist is controversial. It is considered to be conformable by Boyle, 1965; or a thrust fault by Green, 1971. The Upper Schist formation consists primarily of quartz-mica schists, graphitic schists and thin bedded quartzites with minor limestone lenses.

This stratigraphic sequence has been intruded by several plutonic phases. The oldest of these are the greenstone sills. These sills, originally diorite to gabbro in composition, were deformed into lens-shaped "boudins". These boudins are discontinuous but tend to align, en echelon, in certain stratigraphic horizons.

The second plutonic phase in the area is the granitic rocks which have intruded along the hinge zone of the Mayo Lake anticline. These intrusions range between quartz monzonite to diorite in composition and give ages between 81 million years and 109 million years (Wanless, et.al., 1966, 67, 71, 73; Armstrong, 1978; cited by Tessari, 1979).

The youngest intrusions in the area are dykes and sills of biotite lamprophyre and quartz-feldspar porphyry. As these units have not been observed in a crosscutting relationship, their relative ages cannot be ascertained.

In the Keno Hill - Galena Hill area there have been at least two periods of structural deformation (Green, 1971). The oldest period of deformation produced isoclinal and recumbent folding with extensive bedding-plane movement. Rocks involved in this earliest deformation developed a strong foliation and retained a few original sedimentary structures. Many of the greenstones have been intensely foliated which indicates that they were intruded prior to this period of deformation. Also others, including some of the larger greenstone sills were probably intruded during this period of deformation (Green, 1971). The intensity of this early deformation is indicated by the boudinage of pre-existing greenstone sills. It has also been hypothesized by Green and others that it was during this period of deformation that the Upper Schist formation was thrust over the Central Quartzite and Lower Schist formations.

The second period of deformation superimposed open folds and a pervasive wrinkle lineation on the already deformed rocks. The broad northwest trending, southeast plunging Mayo Lake anticline formed during this later period of deformation. Later, but during this second period of deformation, two subsidiary anticlines, the McQuesten River and Lynx Creek anticlines, formed (Tessari, 1978). These sub-parallel structures trend northeast-southwest and plunge to the west. The Keno Hill - Galena Hill area is on the southern limb of the McQuesten River anticline.

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Granitic rocks intruded these rocks after the second period of deformation was ended.

Three ages of faulting are known to exist; a) early formed bedding plane and low angle faults, b) vein faults and c) late cross faults, low angle faults and bedding faults.

The early bedding plane and low angle faults show small displacements and are the result of thrusting accompanying regional folding. They may follow bedding planes or crosscut the strata at a low angle and are seldom ore-bearing.

The vein faults create breccia, sheeted zones and void spaces when cutting through competent rock such as greenstone or quartzite. These zones range from 1.5 to 15.0 metres wide and are responsible for localizing ore. Two types of vein faults are recognized; transverse faults which strike between  $0^{\circ}$  and  $45^{\circ}$  azimuth; and more commonly, longitudinal faults which strike between  $35^{\circ}$  and  $80^{\circ}$  azimuth.

In schists, the faults are tight and pose a barrier to migrating fluids.

Late cross faults commonly strike northwesterly, dip about  $60^{\circ}$  and show horizontal displacement of 0 to 150 metres. Most of these appear as a series of slips and fractures with an associated breccia zone 6 to 30 metres in thickness.

Vein faults and cross faults can both be shown to post-date the younger deformation because they contain fragments of lineated phyllites (Green, 1971). It is clearly evident that cross faults post-date vein faults as many vein faults are offset by cross faults. Several periods of movement in the vein faults are indicated by brecciation of ore minerals. The relative ages of the vein and cross faults to the period of mineralization is controversial. This is an extremely significant relationship as 95% of the district's silver production is from deposits associated with cross faults. Boyle (1965) considers that the cross faults are post-mineralization and the presence of cross faults in nearly every mine is incidental. Franzen (1979) on the other hand, states that the cross faults are pre-mineralization and acted as barriers to ore solutions thereby having a damming effect on mineralizing solutions and creating ore pods.

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Favourable locations for ore lodes exist where vein faults cut through competent greenstone or quartzite and especially where these faults are truncated by a cross fault or transition between different rock types.

Two stages of mineralization are evident. In the first stage, quartz, pyrite, arsenopyrite and minor gold were deposited along vein faults. Later brecciation allowed the deposition of siderite, galena, sphalerite, pyrite, freibergite, chalcopyrite, meneghinite, boulangerite, dolomite, quartz and minor barite. Later reworking, leaching, oxidation and remobilization of ore minerals played important roles as secondary concentrating processes. Vein mineralization probably originated from a circulating hydrothermal system driven by thermal energy from nearby granitic intrusives as K-Ar dating of mineralization (87 million years) coincides with K-Ar ages for a number of Cretaceous intrusives (81 million years to 109 million years) in the area (A.J. Sinclair, et.al., 1980).

## 2.1 PROPERTY GEOLOGY

The BE claims are underlain by metasediments of the Lower Schist formation and the Central Quartzite formation of probable Jurassic age. The northern portion of the claims are underlain predominantly by graphitic schist with minor units of sericite schist and thin bedded quartzites. These rocks belong to the Lower Schist Formation.

The central and southern portion of the BE claims are underlain by thin to thick bedded quartzites of the No. 9 Quartzite and Central Quartzite formation. The quartzites are interbedded with graphitic and sericite schists.

Greenstone boudins, deformed remnants of early diabase dykes and sills, occur interspersed throughout the metasedimentary sequence.

## 2.2 LITHOLOGICAL UNITS

### Unit 1 - Lower Schist

The Lower Schist formation on the BE claims is composed of a lower sequence of graphitic phyllite with minor thin bedded

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quartzite and an upper sequence of thick bedded quartzites of the No. 9 Quartzite unit with interbedded thin bedded quartzite and sericite schist. The minimum thickness of the Lower Schist in this area is 700 metres.

Graphitic phyllite comprises the bulk of the lower sequence and crops out throughout the northern BE claims. It is dark grey, fissile and contains minor 1 to 3 centimetre interbeds of thin bedded quartzite.

The upper sequence consists primarily of thick bedded quartzite of the No. 9 Quartzite unit. The No. 9 Quartzite is the most competent member found in the Keno Hill area and is favourable host rock for vein mineralization. It is usually light grey to dark grey in colour and is composed of thick bedded quartzites (1.0 to 6.0 metres) interbedded with graphitic phyllite and thin bedded quartzites.

The upper part of the Lower Schist formation contains several quartz-sericite schist units. They crop out at the top of Faith Gulch and along the north slope of Lightning Creek opposite Thunder Gulch.

#### Unit 2 - Central Quartzite Formation

The Central Quartzite Formation is composed of thin to thick bedded quartzites interbedded with graphitic and sericite schists. The competency difference in these lithologies has allowed the development and preservation of many minor structures.

The Central Quartzite - Lower Schist formation contact runs northwest-southeast down McNeill Gulch.

#### Unit 4 - Greenstone

Greenstones are found predominantly within the schistose formations and occur as conformable sills and boudins. They are schistose to coarse grained and consist of diorite, gabbro and their altered equivalents. The greenstones vary from one metre to hundreds of metres. One body commonly thins or pinches out and another appears in its thickest width in overlying or underlying beds. The greenstone is dark green or grey to brownish green in colour and has a varied texture due to the alteration and replacement of mafic minerals (amphibole and biotite)

and feldspar by secondary amphiboles, saussuritization, chloritization and silicification. The greenstone has a diabasic texture with some evidence of original grain size and layering in large bodies and intense foliation in small bodies.

Graphitic phyllites of the Lower Schist formation in the northern and central portion of the BE claims contain numerous boudins and bodies of greenstone. These bodies occur along definite horizons and are thought to be sills which have been transformed into boudins.

A series of discontinuous greenstone bodies crop out on the crest of Bunker Hill and extend southeasterly to the headwaters of McNeill Gulch. They are contained in a sequence of thin bedded quartzites with interbedded graphitic phyllite and schist.

#### 2.4 VEIN STRUCTURE AND MINERALIZATION

During the 1981 exploration program three new vein structures were located. All three occur in close proximity to each other on the ridge between McNeill and McMillan Gulches.

- 1) At the first location the structure appears as a 75 centimetre wide quartz vein with a minor, but well developed, associated quartz stockwork. Galena was found as float in the immediate vicinity of this structure but was not observed in outcrop. A grab sample, No. 27154, assayed Pb seventy-one point five percent (71.5%) Zn point zero one percent (.01%) Ag point one eight five (.185) ounces/ton and Au point zero nine (.09) ounces/ton. The structure ends north and is vertical.
- 2) The second structure observed is located sixty (60) metres south-southwest of this location. Galena is visible as disseminations and fracture fillings associated with a fifty (50) centimetre wide quartz vein. A grab sample, No. 27155, assayed Pb six point five percent (6.5%), Zn point seventeen percent (.17%), Ag fourteen point three (14.3) ounces/ton and Au point zero two (.02) ounces/ton.

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- 3) Fifty (50) metres due east of the first structure another structure was discovered. This north trending quartz vein contained up to ten percent (10%) arsenopyrite as disseminations and brecciated fragments. A well developed quartz stockwork was present for five (5) metres on either side of the structure. A sample of this vein assayed Pb two point zero one (2.01%) percent, Zn point zero one (.01%) percent, Ag five point sixty-six (5.66) ounces/ton, Au point ninety-two (.92) ounces/ton.

### 3.0 CONCLUSIONS AND RECOMMENDATIONS

Geological mapping and prospecting was conducted in the south portion of the BE claim group to prospect the area between McNeill and McMilland Gulch where fractional claims were staked.

Three mineralized vein structures were outlined within close proximity of each other on the north nose of the ridge dividing McNeill and McMillan Gulches.

Two of the occurrences (1 - 2) detailed in Section 2.4 consist of quartz stockwork vein systems striking east-west with minor galena disseminations. Grab samples of the vein structure assayed Ag point one eight five (.185) to fourteen point three (14.3) ounces/ton and are not considered to be of interest.

The third occurrence is a quartz vein with minor disseminated arsenopyrite enveloped by a five (5) metres quartz stockwork. A grab sample of the vein assayed Ag five point sixty-six (5.66) ounces/ton and Au point ninety-two (.92) ounces/ton. This vein system should be investigated and sampled in detail due to the high gold value of point ninety-two (.92) ounces/ton.

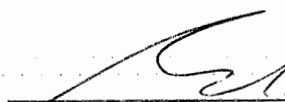
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\_\_\_\_\_  
Gary Nordin, P. Geol., Alberta

STATEMENT OF QUALIFICATIONS

I, GARY D. NORDIN OF BEMA INDUSTRIES LTD. DO HEREBY CERTIFY THAT:

1. I am a graduate of the University of Alberta and hold the following degrees:  
  
B.Sc. Honors Geology, 1970.
2. I am a member of the Association of Professional Engineers, Geologists and Geophysicists of Alberta, and a fellow of the Geological Association of Canada.
3. I have practised as a professional geologist since 1970, gaining a wide variety of geological experience with mining companies, petroleum companies and the British Columbia government.
4. I have no interest, direct or indirect in the property or shares of  
nor do I expect to receive any such interest.
5. That the information contained in this report is both true and correct to the best of my knowledge.

signed:   
G.D. Nordin, B.Sc.  
Senior Geologist

date: February 18, 1992

APPENDIX I

STATEMENT OF COSTS

<u>A.</u>	<u>LABOUR</u>	(June 6 - July 19, 1981)		
		<u>DAYS</u>	<u>RATE</u>	<u>TOTAL</u>
	G. Nordin Senior Geologist	2	325.00/day	\$ 650.00
	D. Bonnar Geologist	8	200.00/day	1,600.00
	T. Olson Geological Assistant	7	95.00/day	665.00
	P. Dickinson Secretary	2	135.00/day	270.00
<u>B.</u>	<u>CAMP COSTS</u>			
	D. Bonnar	7.5	40.00/day	300.00
	T. Olson	7.5	40.00/day	300.00
<u>C.</u>	<u>VEHICLE</u>			
	Rental	8	40.00/day	320.00
	Maintenance			40.00
	Gas			300.00
<u>D.</u>	<u>DRAFTING</u>			
		20 hours	22.00/hour	440.00
<u>E.</u>	<u>ASSAY COSTS</u>			304.50
				<hr/>
				\$5,189.50
				<hr/> <hr/>

I, Gary Nordin, swear that the Statement of Costs is true and factual.

  
\_\_\_\_\_  
Gary Nordin





**LEGEND**

**SYMBOLS**

**GEOLOGICAL BOUNDARY**

- defined
- - - - - assumed

**LIMIT OF GEOLOGICAL MAPPING**

- defined
- - - - - assumed

**OUTCROP**

- defined
- - - - - assumed

**FELSENMAER**

- defined
- - - - - assumed

**TALUS**

- defined
- - - - - assumed

**FAULTS**

- defined
- - - - - assumed

**VEIN STRUCTURE**

- defined
- - - - - assumed

**BEDDING**

- horizontal
- vertical
- inclined
- overturned

**POLATION**

- horizontal
- vertical
- inclined
- unknown

**ANTICLINE**

- defined
- - - - - assumed

**SYNCLINE**

- defined
- - - - - assumed

**JOINTING**

- weak
- moderate
- strong
- inclined
- weak
- moderate
- strong

**MINOR FOLDS**

- style & direction

**GLACIAL STRIAE**

- movement known
- movement known

**SHAFT**

- location
- active
- abandoned

**RAISE**

- location
- active
- abandoned

**WINZE**

- location
- active
- abandoned

**ADIT or TUNNEL**

- location
- active
- abandoned

**QUARRY or MINE**

- location
- active
- abandoned

**TRENCH**

- closed end
- open end

**PIT**

- location
- active
- abandoned

**GRAVEL PIT**

- location
- active
- abandoned

**DUMP or TAILINGS**

- location
- active
- abandoned

**DN & NUMBER**

- location
- surface projection
- location
- location

**CHIP SAMPLE**

- location
- location

**ROCK SAMPLE**

- location
- location

**FLOAT**

- with rocktype

**SURVEY STATION**

- location
- location

**TRIANGULATION POINT**

- location
- location

**CLAIM POST**

- location
- location

**CLAIM BOUNDARY**

- location
- location

**ROAD**

- location
- location

**CAT TRAIL**

- location
- location

**CASPI**

- location
- location

**SPRING**

- location
- location

**GEOCHEMISTRY**

□ SOIL/FILL PPM (Pb, Zn, Cu, Ag) PPM (As)

● ROCK PPM (Pb, Zn, Cu, Ag) PPM (As)

Assay Rock Pb % Zn % Ag %/ton As %/ton

**LITHOLOGY**

**DRIFT**

- 8

**LAMPORPHYRE**

- 7

**QUARTZ-FELDSPAR PORPHYRY**

- 6

**GRANITIC ROCKS**

- 5 Granodiorite, quartz monzonite, minor granite, and quartz diorite

**GREENSTONE**

- 4

**UPPER SCHIST FORMATION**

- 3a Quartz-sericite schist
- 3b Quartz-chlorite-sericite schist
- 3c Thin-bedded quartzite
- 3d Phyllite, graphitic phyllite
- 3e Limestone

**CENTRAL QUARTZITE FORMATION**

- 2a Massive quartzite
- 2b Thin-bedded quartzite
- 2c Graphitic phyllite

**LOWER SCHIST FORMATION**

- 1a Thin-bedded quartzite
- 1b Quartz-chlorite sericite schist
- 1c Graphitic schist
- 1d Phyllite and argillite
- 1e Quartz-sericite schist
- 1f Massive quartzite - No. 9

CANADA TUNGSTEN MINING CORPORATION  
**KENO HILL Y.T.**  
 1980 GEOLOGICAL EXPLORATION PROGRAMME

BE CLAIMS  
**GEOLOGY and GEOCHEMISTRY**  
 090995

DATE **FEBRUARY 1981** JOB NO. **80-09-C** FIG. NO. **4**  
 DRAWN BY **SCALE 1:5,000** METRES

**BEMA INDUSTRIES LTD.**

SHEET INDEX

20	26	24
32		

