

3186

CONTENTS

Introduction	1
Location and Access	2
Summary	2
Geography	3
Regional Geology	4
The Geology of the Me and Rog Claims	5
Mineralization	9
Geochemistry	9
Recommendations	10

Appendix

- a. Assay Results
- b. Thin Section Study
- c. Laboratory Analysis
1 Location Map
- d. Claim Map - In pocket
- e. Geological Map - In pocket
- f. Geochemical Soil & Assay Results
- In folder

**Department of
Mines and Petroleum Resources
ASSESSMENT REPORT**

NO. 3186 MAP.....

A P P E N D I X

Introduction:

The copper-molybdenum occurrence on Ball Creek was located by a stream sediment sampling and prospecting program conducted by N. W. Reynolds for Great Plains Development Company of Canada, Ltd. in 1970.

Fifty-four claims were staked in August of 1970 in two groups, the Me and Rog groups, to cover the sediment sample anomalies, a large limonite stained area to the north of Ball Creek and a smaller limonite stained area to the south of Ball Creek. These areas were thought to be alteration zones related to the andesite porphyry intrusive mapped by the G.S.C. in "Operation Stikine" in 1957.

The 1971 program was instituted to "prospect and map the claim group with particular attention to Cu and Mo mineralization and total sulfide content and type of alteration, to geochemically soil sample and rock sample the zones of alteration and to follow up this work with a geophysical or trenching program if results warranted".¹

This report deals with the mapping and rock and soil sampling programs undertaken on the property during June and July of 1971.

1. Great Plains Development Stikine Arch Reconnaissance Program. Pages 10-11 N. W. Reynolds

Location and Access:

The Me and Rog claim groups are situated on Ball Creek, approximately six miles west of the junction of Ball Creek with the Iskut River. They are 20 miles south of the southern end of Kinaskan Lake at ~~129°~~^{130°} 25' West Longitude and 57°15'30" North Latitude.

Helicopter transportation is the only means of access to the property from the Stewart-Cassiar highway which passes six miles to the east.

Helicopters used to move men, equipment and supplies to and from the property were supplied by Okanagan Helicopters based at the southern end of Kinaskan Lake and Vancouver Island Helicopters, based at the southern end of Eddontenajon Lake.

Summary:

Chained and picketed lines were put in along the base of the limonite stained cliffs on the north side of Ball Creek and at 400 ft. intervals above and to the north and west of the cliffs, where possible, to establish control for the geologic mapping and the soil sampling programs.

Mapping at the scale of 100 ft. to the inch and soil sampling at 100 by 400 ft. centers was carried out

over the grid. The mapping revealed that the area is underlain by volcanics and sediments which have been highly altered by a very complex andesite porphyry intrusion. Many of the rock units have been altered practically beyond recognition by normal field techniques. An area of pyrite-chalcopyrite-molybdenum mineralization was delineated within the altered sediments and the rocks intruding them.

The geochemical soil survey proved very effective in both locating and defining limits of the copper molybdenum mineralization and in tracing the mineralized zone through areas of considerable overburden. Due to the high degree of oxidation and leaching in many areas in the zone of alteration rock geochemical methods did not prove very effective.

Geography:

Ball Creek drains from the eastern side of the Spectrum mountain range, a region characterized by rugged mountain peaks and steep walled glacial valleys with receding valley glaciers at their heads. There is very good outcrop exposure throughout the region except for the glacial areas and some of the lower valley walls which have talus and soil cover.

The claim group straddles Ball Creek. The slope to the north of the creek is cut by a cliff which is over a thousand feet in height at its highest point. Behind this cliff the slope is in the order of 25 degrees and is quite accessible, much of it being tree and grass covered.

The slope to the south of the creek is very steep and is only readily accessible up to the 4,000 ft. level. The tree line on the claim group is about 4,500 ft. on the north side of the creek and about 4,000 ft. on the south side.

The highest elevation on the property is 6669 ft. at the top of the mountain on the north side of Ball Creek and the lowest 2500 ft. in the valley bottom.

Regional Geology:

The claim group lies within a region of upper Triassic and Jurassic sediments and volcanics which are exposed in the deeply dissected mountains between the flat lying lavas of the Spectrum range and the fault controlled valley of the Iskut River, as classified by Souther. The claims lie almost in the center of this region in an area of upper Triassic rocks intruded by an andesite porphyry.

Just to the east of the claims there is a large north-westerly trending fault which has caused Jurassic rocks to contact with upper Triassic rocks, indicating a displacement of at least 10,000 ft.

Previous mapping in the area of the claim group was carried out by the G.S.C. in 1957 as part of a very large scale reconnaissance program (map 9-1957) and much more detailed mapping, also for the G.S.C., was done by Souther in 1969 (report of activities, Part A: April to October, 1969, pages 50-53). Souther's work indicates that the claim group is underlain by augite andesite breccia, flows and related intrusions, minor tuff, volcanic sandstone, black carbonaceous shale, ribbon chert, silaceous siltstone, greywacke, grit and discontinuous lenses of limestone, and is intruded by an andesite porphyry "extremely variable in texture and composition".

The Geology of the Mc and Rog Claims:

On the north side of Ball Creek the claim group is underlain by Upper Triassic sediments and volcanics with the volcanics overlying the sediments. The rocks are dipping to the east. Intense folding, shearing, fracturing and jointing coupled with alteration caused by an andesite

porphyry intrusive has almost completely obliterated the bedding in the sediments and no reliable attitudes could be taken on the property. The map area is cut by several strong N.S. shear zones. The sedimentary rocks identified on the property are black calcareous shale, chert, and siltstone, the former being by far the most prevalent. In zones of extreme alteration the shale has been silicified to such an extent that it is impossible to distinguish from the altered chert by normal field methods. Some thin beds of tuff have been recognized interbedding with the black shale in the cliff below the initial post for Rog #22 but the relief in this area made detailed mapping impossible.

The volcanic rocks on the property are comprised of thick massive beds of andesite and andesite breccia, and discontinuous bodies of tuff. The introduction of silica and calcite into these units, most probably related to the intrusion of the andesite porphyry has obliterated almost all visible evidence of the breccia except at one or two locations, therefore the andesite flows and breccias were not differentiated in the mapping.

The andesite porphyry intrusive consists of a small body, roughly 1000' in diameter centered at 30N 8W on the 1" to 100' map, and several irregular bodies to the

west, along the side of the mountain. A series of hornblende biotite diorite porphyry dikes are observed cutting the limonite stained cliffs at N20E, dipping vertically. These dikes have two to six inch calcite veins with sphalerite, galena, chalcopyrite and pyrite parallelling them, generally within twenty feet of the dike wall. At the base of the cliffs the dikes are observed to have sharp contacts with the altered shale and chert host but above the cliff at 1N 5W and 2N 9W in exposures in creeks in the mountainside dikes of the same composition have gradational contacts with the altered andesite and shale. There is insufficient outcrop in this area for a complete picture of the relationship between the dikes with the gradational contacts and the ones at the bottom of the cliffs or with the andesite porphyry intrusive to the north. In the map area roughly centered at 14N 50W there is either a series of dikes, apparently related to the hornblende biotite diorite porphyry dikes at the limonite stained cliffs that have been deformed by faulting and shearing or a very complex intrusive body which has been faulted and sheared. Gradational contacts were observed between the intrusive rocks and the chert and shale units in some locations in this area and sharp contacts in others.

The length of the limonite stained cliffs along their base, approximately 2,000 ft. are mineralized. The mineralization varies from trace sulfides in fractures to massive sulfides in lenses which are up to two feet thick. The dikes which cut the cliffs contain only trace to 1% sulfides. Copper occurs within this zone as chalcopyrite as fracture filling and with the massive pyrite. It varies from trace to .8% Cu.

The top of the cliffs are almost impossible to map in many places due to the thick brush overhanging them and the one place which is fairly easily accessible is so highly oxidized and leached that fresh samples are impossible to obtain. The mineralized zone extends from the cliffs to the northwest. There is only scattered outcrop over the first 1,000 ft. all of which is chert, probably due to its resistance to weathering. The mineralized zone then passes into the zone of irregular intrusive bodies centered at 14N 50W. In this zone mineralization has been observed in relatively unaltered black shales, highly altered black shales, chert and the hornblende biotite diorite porphyry and related intrusive bodies. There are traces of molybdenum in the altered chert and in quartz veins and stringers in the black shale in this area as well as a zone of pyrite-

chalcopyrite-malachite which extends for 100' along the creek at 14N 51W and 300' along the creek at 14N 55W.

Mineralization:

A large zone of sulfide mineralization, mainly pyrite, with associated chalcopyrite and molybdenite extends from the steep limonite stained cliffs on the north side of Ball Creek approximately three thousand feet northwest. Grab samples taken along 2,000 ft. of the zone at the base of the cliffs assayed up to .8% copper, the mean percent copper in these samples was approximately .2%.

In the talus slope at the base of the cliffs there is a zone of breccia, 2 to 3 ft. thick and 60 ft. long. This breccia consists of fragments of altered shale, chert and feldspar porphyry consolidated with blue and green secondary chrysocolla. Throughout the zone of mineralization there are lenses of massive pyrite, mostly 2 to 3 inches in thickness but up to 2 ft. thick in some places. These lenses, where sampled, assayed .2 to .3% Cu.

Geochemistry:

The geochemical program on the Me and Rog claims was undertaken to locate extensions of the zone of known copper molybdenum mineralization and to prospect the region.

adjacent to the mineralized zone for other areas of mineralization.

The sampling was done at 100 ft. by 400 ft. centers on chained and picketed lines where possible. In the areas where the terrain was too rugged to put picketed lines in, samples were taken where ever possible and the location accurately marked on the soil sample map.

Over most of the area samples the "B" soil horizon was quite well developed and was a distinct reddish brown color. The thickness of the overlying "A" horizon varied between 2 and 6 inches. In areas of talus where good soil was impossible to obtain, samples were not taken.

Recommendations:

1. Hand trenching the areas of copper mineralization to obtain good fresh samples for assaying.
2. Reconnaissance Induced Polarization Program to accurately outline the sulphide zone.
3. Detailed geochemical soil sampling in the vicinity of the high reconnaissance samples.
4. Diamond drilling to determine the extent and grade of mineralization.

Respectfully submitted,

R. W. Termuende

July 30, 1971

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SHIPMENT #11

PAGE 1
FILE 931-1313
DATE August 9, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1313-001	B 1168 Soils	53	5
-002	1169	50	11
-003	1170	35	4
-004	1171	57	61
-005	1172	51	8
-006	1173	48	7
-007	1174	99	14
-008	1175	17	8
-009	1176	85	17
-010	1177	52	9
1313-010	1177 (check)	59	12
-011	1178	44	7
-012	1179	87	4
-013	1180	70	4
-014	1181	99	7
-015	1182	89	3
-016	1183	105	14
-017	1184	77	9
-018	1185	73	15
-019	1186	56	11
-020	1187	86	11
1313-020	1187 (check)	91	8

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PAGE 2

FILE 931-1313

DATE August 10, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1313-021	B 1188 Soils	87	7
-022	1189	97	18
-023	1190	70	8
-024	1191	87	12
-025	1192	79	9
-026	1193	65	10
-027	1194	46	8
-028	1195	51	4
-029	1196	69	2
-030	1197	82	2
1313-030	1197 (check)	87	3
-031	1198	65	8
-032	1199	44	6
-033	1200	53	5
-034	1201	63	3
-035	1202	60	2
-036	1203	71	ND
-037	1204	80	ND
-038	1205	71	1
-039	1206	72	2
-040	1207	70	ND
1313-040	1207 (check)	80	1

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PAGE 3

FILE 931-1313

DATE August 10, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1313-041	B 1208 Soils	77	ND
-042	1209	50	ND
-043	1210	83	ND
-044	1211	54	4
-045	1212	38	2
-046	1213	28	3
-047	1214	51	ND
-048	1215	29	ND
-049	1216	36	ND
-050	1217	56	1
1313-050	1217 (check)	54	ND
-051	1218	56	2
-052	1219	40	2
-053	1220	1000+	34
-054	1221	117	2
-055	1222	175	7
-056	1223	68	1
-057	1224	47	2
-058	1225	49	ND
-059	1226	44	5
-060	1227	33	9
1313-060	1227 (check)	30	10

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PAGE 4
FILE 931-1313
DATE August 10, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1313-061	B 1228 Soils	34	2
-062	1229	31	3
-063	1230	29	6
-064	1231	45	ND
-065	1232	34	1
-066	1233	34	ND
-067	1234	32	ND
-068	1235	29	3
-069	1236	30	2
-070	1237	34	5
1313-070	1237 (check)	33	5
-071	1238	31	1
-072	1239	35	ND
-073	1240	40	1
-074	1241	42	1
-075	1242	48	ND
-076	1243	60	1
-077	1244	37	ND
-078	1245	46	ND
-079	1246	250	ND
-080	1247	65	ND
1313-080	1247 (check)	64	ND

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PAGE 5

FILE 931-1313

DATE August 10, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1313-081	B 1248 Soils	66	ND
-082	1249	41	1
-083	1250	29	2
-084	1251	36	3
-085	1252	28	3
-086	1253	77	2
-087	1254	30	1
-088	1255	30	1
-089	1256	29	2
-090	1257	31	1
1313-090	1257 (check)	28	1
-091	1258	37	1
-092	1259	41	3
-093	1262	41	2
-094	1263	34	1
-095	1264	29	1
-096	1265	33	3
-097	1266	32	4
-098	1267	37	5
-099	1268	27	5
-100	1269	23	5
1313-100	1269 (check)	20	5

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PAGE 6
FILE 931-1313
DATE August 10, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1313-101	B 1270 Soils	20	1
-102	1271	30	ND
-103	1272	29	2
-104	1273	37	1
-105	1274	35	1
-106	1275	35	1
-107	1276	34	1
-108	1278	57	ND
-109	1280	66	1
-110	1281	71	4
1313-110	1281 (check)	69	4
-111	1282	130	1
-112	1283	42	1
-113	1284	48	ND
-114	1285	26	ND
-115	1286	47	ND
-116	1287	42	1
-117	1288	50	1
-118	1289	39	1
-119	1290	43	1
-120	1291	57	95
1313-120	1291 (check)	58	101

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PAGE 7
FILE 931-1313
DATE August 10, 1971

<u>File Number</u>	<u>Sample Number</u>		<u>Cu PPM</u>	<u>Mo PPM</u>
1313-121	B 1292	Soils	46	6
-122	1293		33	3
-123	1294		48	4
-124	1295		36	2
-125	1296		57	3
-126	1298		60	ND
-127	1299		63	1
-128	1300		68	3
-129	1301		80	1
-130	W 99		1000+	154
1313-130	99	(check)	1000+	154
-131	100		1000+	24
-132	101		419	32
-133	102		278	12
-134	103		1000+	5
-135	104		409	98
-136	105		191	2
-137	106		1000+	6
-138	107		146	15
-139	108		240	24
-140	109		106	8
1313-140	109	(check)	110	8

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FILE 931-1313
DATE August 10, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1313-141	W 110 Soils	146	7
-142	111	84	8

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PAGE 1
FILE 931-1301
DATE July 29, 1971

File Number	Sample Number	Cu PPM	Mo PPM
1301-001	W 65 Soils	65	13
-002	66	47	7
-003	67	39	1
-004	68	610	311
-005	69	560	31
-006	70	730	58
-007	71	1000+	128
-008	72	620	15
-009	73	164	6
-010	74	163	14
1301-010	74 (check)	169	17
-011	75	720	5
-012	76	590	4
-013	77	140	4
-014	78	180	9
-015	79	159	7
-016	80	104	3
-017	81	800	28
-018	82	1000+	34
-019	83	520	23
1301-020	84	325	60
-020	84 (check)	385	69

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PAGE 2
FILE 931-1301
DATE July 29, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1301-021	W 85 Soils	175	35
-022	86	128	6
-023	87	350	5
-024	88	168	5
-025	89	63	3
-026	90	228	2
-027	91	64	8
-028	92	77	7
-029	93	100	8
-030	94	125	4
1301-030	94 (Check)	131	4
-031	95	510	26
-032	96	260	3
-033	97	175	9
-034	98	620	39
-035	B 1034	41	9
-036	1035	21	8
-037	1036	36	8
-038	1037	17	8
-039	1038	5	4
-040	1039	1	2
1301-040	1039 (Check)	1	2

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PAGE 3
FILE 931-1301
DATE July 29, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1301-041	B 1040 Soils	12	2
-042	1041	26	4
-043	1042	24	5
-044	1043	18	2
-045	1044	12	3
-046	1045	62	2
-047	1046	34	5
-048	1047	56	7
-049	1048	40	5
-050	1049	145	7
1301-050	1049 (check)	140	8
-051	1050	102	8
-052	1051	65	6
-053	1052	33	3
-054	1053	21	4
-055	1054	15	4
-056	1055	18	3
-057	1056	18	4
-058	1057	22	1
-059	1058	27	1
-060	1059	16	3
1301-060	1059 (check)	19	3

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PAGE 4
FILE 931-1301
DATE July 29, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1301-061	B 1060 Soils	32	3
-062	1061	28	3
-063	1062	34	6
-064	1063	23	5
-065	1064	28	4
-066	1065	23	4
-067	1066	31	2
-068	1067	31	4
-069	1068	23	3
-070	1069	20	3
1301-070	1069 (check)	20	3
-071	1070	15	3
-072	1071	32	2
-073	1072	23	1
-074	1073	29	5
-075	1074	27	4
-076	1075	19	4
-077	1076	24	5
-078	1077	31	3
-079	1078	23	1
-080	1079	24	ND
1301-080	1079 (check)	21	ND

CORE LABORATORIES-CANADA LTD.

COMPANY Great Plains Development Company of Canada Ltd.

PAGE 5
FILE 931-1301
DATE July 29, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1301-081	B 1080 Soils	25	2
-082	1081	37	2
-083	1082	36	2
-084	1083	19	3
-085	1084	33	2
-086	1085	63	9
-087	1086	28	3
-088	1087	24	1
-089	1088	28	ND
-090	1089	16	1
1301-090	1089 (check)	14	1
-091	1090	23	1
-092	1091	18	ND
-093	1092	32	3
-094	1093	82	9
-095	1094	23	5
-096	1095	10	1
-097	1096	23	4
-098	1097	20	1
-099	1098	11	1
-100	1099	14	2
1301-100	1099 (check)	15	2

CORE LABORATORIES-CANADA LTD.

COMPANY Great Plains Development Company of Canada Ltd.

PAGE 6
FILE 931-1301
DATE July 29, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1301-101	B 1100 Soils	11	4
-102	1101	57	2
-103	1102	46	3
-104	1103	34	5
-105	1104	29	6
-106	1105	29	2
-107	1106	23	2
-108	1107	20	2
-109	1108	23	4
-110	1109	22	4
1301-110	1109 (check)	22	3
-111	1110	35	3
-112	1111	19	5
-113	1112	39	3
-114	1113	36	4
-115	1114	24	3
-116	1115	64	3
-117	1116	34	3
-118	1117	36	5
-119	1118	35	1
-120	1119	28	2
1301-120	1119 (check)	26	2

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COMPANY Great Plains Development Company of Canada Ltd.

PAGE 7
FILE 931-1301
DATE July 29, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1301-121	B 1120 Soils	24	2
-122	1121	34	1
-123	1122	26	1
-124	1123	35	ND
-125	1124	51	1
-126	1125	49	ND
-127	1126	36	4
-128	1127	53	1
-129	1128	35	2
-130	1129	38	2
1301-130	1129 (check)	35	1
-131	1130	34	4
-132	1131	35	3
-133	1132	23	4
-134	1133	22	3
-135	1134	27	1
-136	1135	55	2
-137	1136	56	3
-138	1137	21	ND
-139	1138	28	4
-140	1139	20	4
1301-140	1139 (check)	18	6

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COMPANY Great Plains Development Company of Canada Ltd.

PAGE 8
FILE 931-1301
DATE July 29, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1301-141	B 1140 Soils	26	7
-142	1141	18	1
-143	1142	9	1
-144	1143	26	3
-145	1144	50	1
-146	1145	40	2
-147	1146	25	1
-148	1147	28	5
-149	1148	27	1
-150	1149	22	5
1301-150	1149 (check)	24	3
-151	1150	58	1
-152	1151	34	4
-153	1152	52	ND
-154	1153	46	3
-155	1154	25	1
-156	1155	25	3
-157	1156	28	4
-158	1157	32	4
-159	1158	13	6
-160	1159	40	6
1301-160	1159 (check)	37	5

CORE LABORATORIES-CANADA LTD.

COMPANY Great Plains Development Company of Canada Ltd.

PAGE 9
FILE 931-1301
DATE July 29, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1301-161	B 1160 Soils	23	4
-162	1161	20	3
-163	1162	24	2
-164	1163	17	5
-165	1164	18	2
-166	1165	20	4
-167	1166	11	2
-168	1167	24	3
-169	S 38 Silt	46	1
-170	39	42	ND
1301-170	39 (check)	42	ND
-171	40	44	ND
-172	41	35	1
-173	42	67	ND
-174	43	57	ND
-175	44	60	1
-176	45	51	ND
-177	46	81	1
-178	47	21	2
-179	48	24	5
-180	49	52	ND
1301-180	49 (check)	54	1

CORE LABORATORIES-CANADA LTD.

COMPANY Great Plains Development Company of Canada Ltd.

PAGE 10
FILE 931-1301
DATE July 29, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1301-181	S 50 Silt	52	2
-182	51	107	ND
-183	52	42	ND
-184	53	59	1
-185	54	61	ND
-186	55	71	ND
-187	56	82	2
-188	57	46	1
-189	58	95	ND
-190	59	53	ND
1301-190	59 (check)	58	ND
-191	60	47	ND
-192	61	44	2
-193	62	51	1
-194	63	56	ND
-195	64	68	ND
-196	65	70	1
-197	66	40	ND
-198	67	43	ND
-199	68	54	ND
-200	69	16	1
1301-200	69 (check)	17	1

CORE LABORATORIES-CANADA LTD.

COMPANY Great Plains Development Company of Canada Ltd.

PAGE 11
FILE 931-1301
DATE July 29, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1301-201	S 70 Silt	48	1
-202	71	15	1
-203	72	15	2
-20	73	36	5
-205	74	29	3
-206	75	44	8
-207	76	40	4
-208	77	27	4
-209	78	61	6
-210	79	67	8
1301-210	79 (check)	76	8
-211	80	69	ND
-212	81	51	ND
-213	82	62	ND
-214	83	59	ND
-215	84	91	ND
-216	85	70	1
-217	86	124	ND
-218	87	65	1
-219	88	93	1
-220	89	68	ND
1301-220	89 (check)	64	ND

CORE LABORATORIES-CANADA LTD.

COMPANY Great Plains Development Company of Canada Ltd.

PAGE 12
FILE 931-1301
DATE July 29, 1971

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1301-221	S 90 Silt	65	ND
-222	91	95	ND
-223	92	69	1
-224	93	53	1
-225	94	88	1
-226	95	78	ND
-227	101	76	1
-228	102	148	15
-229	103	89	4
-230	104	54	1
1301-230	104 (check)	52	1
-231	106	65	ND
-232	106	38	1
-233	107	43	1
-234	108	79	4
-235	109	37	ND
-236	110	57	2
-237	111	40	2

CORE LABORATORIES-CANADA, LTD.

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Company: Great Plains Development Company of Canada, Ltd.
 Soil Samples

Page: 1 of 5
 File: 931-1219
 Date: June 28/71

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>
1219-001	Ball 1	187
-002	Ball 2	220
-003	Ball 3	181
-004	Ball 4	365
-005	Ball 5	170
-006	Ball 6	152
-007	Ball 7	520
-008	Ball 8	561
-009	Ball 9	286
-010	Ball 10	131
1219-010	Ball 10 (check)	148
-011	Ball 11	159
-012	Ball 12	248
-013	Ball 13	161
-014	Ball 14	263
-015	Ball 15	151
-016	Ball 16	187
-017	Ball 17	213
-018	Ball 18	419
-019	Ball 19	1485
-020	Ball 20	496
1219-020	Ball 20 (check)	510

Company: Great Plains Development Company of Canada, Ltd.
Soil Samples

Page: 2 of 5
File: 931-1219
Date: June 28/71

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>
1219-021	Ball 21	191
-022	Ball 22	141
-023	Ball 23	100
-024	Ball 24	130
-025	Ball 25	80
-026	Ball 26	79
-027	Ball 27	111
-028	Ball 28	106
-029	Ball 29	270
-030	Ball 30	315
1219-030	Ball 30 (check)	379
-031	Ball 31	265
-032	Ball 32	244
-033	Ball 33	126
-034	Ball 34	140
-035	Ball 35	172
-036	Ball 36	137
-037	Ball 37	154
-038	Ball 38	120
-039	Ball 39	264
-040	Ball 40	141
1219-040	Ball 40 (check)	147

Company: Great Plains Development Company of Canada, Ltd.
Soil Samples

Page: 3 of 5
File: 931-1219
Date: June 28/71

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>
1219-041	Ball 41	215
-042	Ball 42	167
-043	Ball 43	122
-044	Ball 44	109
-045	Ball 45	199
-046	Ball 46	170
-047	Ball 49	98
-048	Ball 50	134
-049	Ball 51	131

CORE LABORATORIES-CANADA, LTD.

Company: Great Plains Development Company of Canada, Ltd.
Rock Samples

Page: 4 of 5
File: 931-1219
Date: July 5/71

<u>File Number</u>	<u>Sample Number</u>	<u>Cu %</u>
1219-01	B #1	0.007
-02	B #4	0.008
-03	B #7	0.006
-04	B #8	0.008
-05	B #9	0.005
-06	B #10	0.009
-07	B #12	0.016
-08	B #14	0.005
-09	B #15	0.008
-10	B #17	0.003
-11	B #20	0.010
-12	B #21	0.010
-13	B #22	0.013
-14	B #30	0.012
-15	B #31	0.011
-16	B #32	0.007
-17	B #34	0.017
-18	B #36	0.011
-19	B #42	0.004
-20	B #43	0.006
-21	B #44	0.003
-22	B #47	0.003

Company: Great Plains Development Company of Canada, Ltd.
Rock Samples

Page: 5 of 5
File: 931-1219
Date: July 5/71

<u>File Number</u>	<u>Sample Number</u>	<u>Cu %</u>
1219-23	B #49	(no sample)
-24	B #50	0.014
-25	B #51	0.260
-26	B #52	0.114
-27	B #53	0.214
-28	B #54	0.010
-29	B #61	0.009
-30	B #64	0.004
-31	B #65	0.028
-32	B #66	0.008
-33	B #67	0.010
-34	B #68	0.028
-35	B #69	0.020
-36	B #70	0.004
-37	B #71	0.069
-38	B #72	0.016
-39	BW #1	0.036
-40	BW #2	0.003
-41	BW #3	0.047
-42	BW #4	0.037

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CORE LABORATORIES-CANADA LTD.

Great Plains Development Company of Canada, Ltd.

Shipment No. 8

Page 1
File 931-1279
Date July 21/71

Geochemical Analysis

	<u>Customer Number</u>		<u>Cu PPM</u>	<u>Mo PPM</u>
	279-001	B 1000	soil	44
	-002	B 1001		82
	-003	B 1002		45
	-004	B 1003		52
	-005	B 1004		17
	-006	B 1005		30
	-007	B-1006		24
	-008	B 1007		31
	-009	B 1008		26
	-010	B 1009		34
(check)	-010	B 1009		32
	-011	B 1010		50
	-012	B 1011		39
	-013	B 1012		133
	-014	B 1013		111
	-015	B 1014		334
	-016	B 1015		249
	-017	B 1016		237
	-018	B 1017		132
	-019	B 1018		75
	279-020	B 1019		94
(check)	-020	B 1019		89
	-021	B 1020		35
	-022	B 1021		21
	-023	B 1022		31
	-024	B 1023		29
	-025	B 1024		32
	-026	B 1025		23
	-027	B 1026		29
	-028	B 1027		43
	-029	B 1028		56

CORE LABORATORIES-CANADA LTD.

Great Plains Development Company of Canada, Ltd.

Page 2

File 931-1279

Shipment No. 8

Date July 21/71

		Customer Number		Cu PPM	Mo PPM
	279-030	B 1029	soil	54	9
(check)	-030	B 1029		49	7
	-031	B 1030		53	8
	-032	B 1031		57	12
	-033	B 1032		40	17
	-034	B 1033		44	8
	-035	W 1	soil	63	4
	-036	W 2		75	8
	-037	W 3		87	11
	-038	W 4		70	9
	-039	W 5		42	4
	279-040	W 6		20	3
(check)	-040	W 6		20	2
	-041	W 7		59	ND
	-042	W 8		47	4
	-043	W 9		42	7
	-044	W 10		54	7
	-045	W 11		40	9
	-046	W 12		28	3
	-047	W 13		21	3
	-048	W 14		37	2
	-049	W 15		35	2
	279-050	W 16		32	2
(check)	-050	W 16		33	2
	-051	W 17		28	5
	-052	W 18		38	6
	-053	W 19		83	1
	-054	W 20		53	1
	-055	W 21		49	3
	-056	W 22		50	6
	-057	W 23		30	2
	-058	W 24		42	9

CORE LABORATORIES-CANADA LTD.

Great Plains Development Company of Canada Ltd.

Shipment No. 8

Page 3
File 931-1279
Date July 21/71

	<u>Customer Number</u>		<u>Cu PPM</u>	<u>Mo PPM</u>
	279-059	W 25	soil	60
	279-060	W 26		102
(check)	-060	W 26		109
	-061	W 27		89
	-062	W 28		126
	-063	W 29		160
	-064	W 30		72
	-065	W 31		138
	-066	W 32		49
	-067	W 33		75
	-068	W 34		50
	-069	W 35		99
	279-070	W 36		43
(check)	-070	W 36		41
	-071	W 37		30
	-072	W 38		27
	-073	W 39		26
	-074	W 40		42
	-075	W 41		34
	-076	W 42		35
	-077	W 43		37
	-078	W 44		43
	-079	W 45		43
	279-080	W 46		19
(check)	-080	W 46		19
	-081	W 47		32
	-082	W 48		32
	-083	W 49		43
	-084	W 50		45
	-085	W 51		31
	-086	W 52		42
	-087	W 53		47

CORE LABORATORIES-CANADA LTD.

Great Plains Development Company of Canada, Ltd.
Shipment No. 8

Page 4
File 931-1279
Date July 21/71

	<u>Customer Number</u>		<u>Cu PPM</u>	<u>Mo PPM</u>
279-088	W 54	soil	45	3
-089	W 55		56	6
279-090	W 56		54	8
(check) -090	W 56		48	5
-091	W 57		105	5
-092	W 58		85	8
-093	W 59		145	4
-094	W 60		126	1
-095	W 61		70	7
-096	W 62		61	10
-097	W 63		117	4
-098	W 64		64	4
-099	S 1	silt	85	
279-100	S 2		93	
(check) -100	S 2		94	
-101	S 3		55	
-102	S 4		48	
-103	S 5		43	
-104	S 6		69	
-105	S 7		45	
-106	S 8		56	
-107	S 9		55	
-108	S 10		54	
-109	S 11		52	
279-110	S 12		62	
(check) -110	S 12		62	
-111	S 13		51	
-112	S 14		54	
-113	S 15		45	
-114	S 16		77	
-115	S 17		85	
-116	S 18		81	

CORE LABORATORIES-CANADA LTD.

Great Plains Development Company Canada, Ltd.

Shipment No. 8

Page 5
File 931-1279
Date July 21/71

	<u>Customer Number</u>		<u>Cu PPM</u>	<u>Mo PPM</u>
	279-117	S 19	silt	61
	-118	S 20		58
	-119	S 21		93
	279-120	S 22		42
(check)	-120	S 22		43
	-121	S 23		38
	-122	S 24		66
	-123	S 25		79
	-124	S 26		56
	-125	S 27		62
	-126	S 28		45
	-127	S 29		56
	-128	S 30		51
	-129	S 31		57
	279-130	S 32		45
(check)	-130	S 32		49
	-131	S 33		53
	-132	S 34		56
	-133	S 35		46
	-134	S 36		49
	279-135	S 37		77

CORE LABORATORIES-CANADA, LTD.

FILE
BALL CK

COMPANY: Great Plains Development Company of Canada, Ltd.
Soil Samples

PAGE: 1
FILE: 931-1237
DATE: July 14/71

<u>File Number</u>		<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1237-001	Ball	47	141	25
-002		52	200	20
-003		53	148	33
-004		54	130	5
-005		55	77	12
-006		56	64	4
-007		57	87	11
-008		58	142	15
-009		59	98	8
-010		60	88	5
1237-010		60 (check)	88	4
-011	Ball	61	96	8
-012		62	49	5
-013		63	60	5
-014		64	79	6
-015		65	54	7
-016		66	37	13
-017		67	55	1
-018		68	74	5
-019		69	47	10
-020		70	58	8
1237-020		70	56	8

COMPANY: Great Plains Development Company of Canada, Ltd.
Soil Samples

PAGE: 2
FILE: 931-1237
DATE: July 14/71

<u>File Number</u>		<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1237-021	Ball	71	58	7
	-022	72	55	10
	-023	73	44	7
	-024	74	62	8
	-025	75	51	8
	-026	76	60	1
	-027	77	91	2
	-028	78	58	13
	-029	79	68	4
	-030	80	63	12
1237-030		80 (check)	60	11
	-031	Ball 81	61	4
	-032	82	82	13
	-033	83	47	8
	-034	84	43	4
	-035	85	21	8
	-036	86	24	6
	-037	87	26	3
	-038	88	39	8
	-039	89	30	4
	-040	90	36	3
1237-040		90 (check)	39	5

COMPANY: Great Plains Development Company of Canada, Ltd.
Soil Samples

PAGE: 3
FILE: 931-1237
DATE: July 14/71

<u>File Number</u>		<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1237-041	Ball	91	38	8
-042		92	22	6
-043		93	23	7
-044		94	49	5
-045		95	59	10
-046		96	27	5
-047		97	35	9
-048		98	38	8
-049		99	35	10
-050		100	43	9
1237-050		100 (check)	43	11
-051	Ball	101	96	6
-052		102	46	4
-053		103	56	ND
-054		104	46	2
-055		105	93	1
-056		106	80	2
-057		107	50	4
-058		108	56	2
-059		109	53	3
-060		110	66	ND
-060		110 (check)	71	1

COMPANY: Great Plains Development Company of Canada, Ltd.
Soil Samples

PAGE: 4
FILE: 931-1237
DATE: July 14/71

<u>File Number</u>		<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1237-061	Ball	111	20	3
-062		112	38	4
-063		113	55	1
-064		114	41	7
-065		115	53	5
-066		116	24	6
-067		117	23	8
-068		118	20	4
-069		119	39	7
-070		120	64	5
1237-070		120 (check)	64	4
-071	Ball	121	30	7
-072		122	24	7
-073		123	24	3
-074		124	9	4
-075		125	20	8
-076		126	19	10
-077		127	22	6
-078		128	39	8
-079		129	24	10
-080		130	17	5
-080		130 (check)	17	7

COMPANY: Great Plains Development Company of Canada, Ltd.
Soil Samples

PAGE: 5
FILE: 931-1237
DATE: July 14/71

<u>File Number</u>		<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1237-081	Ball	131	80	6
	-082	132	65	6
	-083	133	40	9
	-084	134	30	8
	-085	135	7	5
	-086	136	26	8
	-087	137	40	3
	-088	138	22	2
	-089	139	26	5
	-090	140	30	5
1237-090		140 (check)	27	4
	-091	Ball 141	34	15
	-092	142	35	10
	-093	143	39	13
	-094	144	29	8
	-095	145	62	8
	-096	146	75	7
	-097	147	57	4
	-098	148	39	6
	-099	149	48	9
	-100	150	60	5
1237-100		150 (check)	59	5

COMPANY: Great Plains Development Company of Canada, Ltd.
Soil Samples

PAGE: 6
FILE: 931-1.237
DATE: July 14/71

<u>File Number</u>		<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1237-101	Ball	151	72	5
-102		152	73	8
-103		153	81	4
-104		154	99	26
-105		155	31	4
-106		156	88	9
-107		157	130	15
-108		158	61	29
-109		159	127	30
-110		160	120	35
1237-110		160 (check)	116	34
-111	Ball	161	72	28
-112		162	74	7
-113		163	88	4
-114		164	97	10
-115		165	72	8
-116		166	55	4
-117		167	82	16
-118		168	110	45
-119		169	69	16
-120		170	69	27
1237-120		170 (check)	69	19

COMPANY: Great Plains Development Company of Canada, Ltd.
Soil Samples

PAGE: 7
FILE: 931-1237
DATE: July 14/71

<u>File Number</u>		<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1237-121	Ball	171	66	12
-122		172	82	16
-123		173	140	52
-124		174	202	22
-125		175	93	29
-126		176	37	7
-127		177	82	13
-128		178	117	13
-129		179	141	9
-130		180	104	17
1237-130		180 (check)	109	19
-131	Ball	181 ✓	136	4
-132		182 ✓	91	3
-133		183 ✓	140	4
-134		184 ✓	154	1
-135		185 ✓	55	ND
-136		186 ✓	138	7
-137		187 ✓	119	2
-138		188 ✓	147	13
-139		189 ✓	156	12
-140		190 ✓	65	6
1237-140		190 (check)	63	6

COMPANY: Great Plains Development Company of Canada, Ltd.

PAGE: 8

FILE: 931-1237

DATE: July 14/71

Soil Samples

<u>File Number</u>		<u>Sample Number</u>	<u>Cu PPM</u>	<u>Mo PPM</u>
1237-141	Ball	191	98	10
-142		192	125	14
-143		193	85	3
-144		194	109	5

CORE LABORATORIES-CANADA, LTD.

FILE CL
3 AL

Company: Great Plains Development Company of Canada, Ltd.
Rock Samples

Page: 1
File: 931-1237
Date: July 12/71

<u>File Number</u>		<u>Sample Number</u>	<u>Cu %</u>
1237-01	Ball	GM-28	0.006
-02		GM-29	0.001
-03		GM-30	0.001
-04		GM-31	ND
-05		GM-32	0.001
-06		GM-33	0.001
-07		GM-34	0.001
-08		GM-35	0.001
-09		GM-36	0.007
-10		GM-37	0.001
1237-10		GM-37 (check)	0.001
-11	Ball	GM-38	0.001
-12		BW-12	ND ✓
-13		BW-13	ND ✓
-14		BW-14	0.001 ✓
-15		BW-15	0.004
-16		BW-16	0.116
-17		BW-17	0.030
-18		BW-18	0.010
-19		BW-19	0.108
-20		BW-20	0.051
1237-20		BW-20 (check)	0.052

Company: Great Plains Development Company of Canada, Ltd.
Rock Samples

Page: 2
File: 931-1237
Date: July 12/71

<u>File Number</u>	<u>Sample Number</u>	<u>Cu %</u>
1237-21 Ball	BW-21	0.050
-22	BW-22	0.221
-23	BW-23	0.032
-24	BW-24	0.017
-25	BW-25	0.024
-26	BW-26	0.023
-27	BW-27	0.028
-28	BW-28	0.013
-29	BW-29	0.007
-30	BW-30	0.003
1237-30 Ball	BW-30 (check)	0.003
-31	BW-31	0.009
-32	BW-32	0.006
-33	BW-33	0.015
-34	BW-34	0.004
-35	BW-35	0.001
-36	BW-36	0.005
-37	BW-37	ND
-38	BW-38	0.002
-39	BW-39	0.006
-40	BW-40	0.025
1237-40	BW-40 (check)	0.025

Company: Great Plains Development Company of Canada, Ltd.
Rock Samples

Page: 3
File: 931-1237
Date: July 12/71

<u>File Number</u>	<u>Sample Number</u>	<u>Ni %</u>	<u>Mo %</u>	<u>Cu %</u>
1237-41 Ball	BW-41			0.002
-42	BW-42			0.001
-43	BW-43			0.001
-44	BW-44			0.005
-45	BW-45			0.001
-46	BW-46			ND
-47	BW-47			0.001
-48	BW-48			0.010
-49	BW-49			0.022
-50	BW-50	0.06		0.002
1237-50	BW-50 (check)	0.08		0.001
-51 Ball	BW-51			0.004
-52	BW-52			0.001
-53	BW-53			0.005
-54	BW-54			0.006
-55	BW-55			0.001
-56	BW-56			0.003
-57	BW-57			0.022
-58	BW-58			0.012
-59	BW-59		0.006	0.029
-60	BW-60			0.010
1237-60	BW-60 (check)			0.011

Company: Great Plains Development Company of Canada, Ltd.
Soil Samples

Page: 4
File: 931-1237
Date: July 12/71

<u>File Number</u>	<u>Sample Number</u>	<u>Cu %</u>
1237-61 Ball	BW-C	0.060
-62	BW-D	0.060

NOTE: Ni - ND = Less 0.001%

Cu - ND = Less 0.001%

CORE LABORATORIES-CANADA, LTD.

Ball Creek

Company: Great Plains Development Company of Canada, Ltd.

Page: 1 of 5
File: 931-1219
Date: June 28/71

Soil Samples

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>
1219-001	Ball 1	187
-002	Ball 2	220
-003	Ball 3	181
-004	Ball 4	365
-005	Ball 5	170
-006	Ball 6	152
-007	Ball 7	520
-008	Ball 8	561
-009	Ball 9	286
-010	Ball 10	131
1219-010	Ball 10 (check)	148
-011	Ball 11	159
-012	Ball 12	248
-013	Ball 13	161
-014	Ball 14	263
-015	Ball 15	151
-016	Ball 16	187
-017	Ball 17	213
-018	Ball 18	419
-019	Ball 19	1485
-020	Ball 20	496
1219-020	Ball 20 (check)	510

Company: Great Plains Development Company of Canada, Ltd.
Soil Samples

Page: 2 of 5
File: 931-1219
Date: June 28/71

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>
1219-021	Ball 21	191
-022	Ball 22	141
-023	Ball 23	100
-024	Ball 24	130
-025	Ball 25	80
-026	Ball 26	79
-027	Ball 27	111
-028	Ball 28	106
-029	Ball 29	270
-030	Ball 30	315
1219-030	Ball 30 (check)	379
-031	Ball 31	265
-032	Ball 32	244
-033	Ball 33	126
-034	Ball 34	140
-035	Ball 35	172
-036	Ball 36	137
-037	Ball 37	154
-038	Ball 38	120
-039	Ball 39	264
-040	Ball 40	141
1219-040	Ball 40 (check)	147

Company: Great Plains Development Company of Canada, Ltd.

Page: 3 of 5

File: 931-1219

Date: June 28/71

Soil Samples

<u>File Number</u>	<u>Sample Number</u>	<u>Cu PPM</u>
1219-041	Ball 41	215
-042	Ball 42	167
-043	Ball 43	122
-044	Ball 44	109
-045	Ball 45	199
-046	Ball 46	170
-047	Ball 49	98
-048	Ball 50	134
-049	Ball 51	131

CORE LABORATORIES-CANADA, LTD.

Company: Great Plains Development Company of Canada, Ltd.
Rock Samples

Page: 4 of 5
File: 931-1219
Date: July 5/71

<u>File Number</u>	<u>Sample Number</u>	<u>Cu %</u>
1219-01	B #1	0.007
-02	B #4	0.008
-03	B #7	0.006
-04	B #8	0.008
-05	B #9	0.005
-06	B #10	0.009
-07	B #12	0.016
-08	B #14	0.005
-09	B #15	0.008
-10	B #17	0.003
-11	B #20	0.010
-12	B #21	0.010
-13	B #22	0.013
-14	B #30	0.012
-15	B #31	0.011
-16	B #32	0.007
-17	B #34	0.017
-18	B #36	0.011
-19	B #42	0.004
-20	B #43	0.006
-21	B #44	0.003
-22	B #47	0.003

Company: Great Plains Development Company of Canada, Ltd.

Rock Samples

Page: 5 of 5
File: 931-1219
Date: July 5/71

<u>File Number</u>	<u>Sample Number</u>	<u>Cu %</u>
1219-23	B #49	(no sample)
-24	B #50	0.014
-25	B #51	0.260
-26	B #52	0.114
-27	B #53	0.214
-28	B #54	0.010
-29	B #61	0.009
-30	B #64	0.004
-31	B #65	0.028
-32	B #66	0.008
-33	B #67	0.010
-34	B #68	0.028
-35	B #69	0.020
-36	B #70	0.004
-37	B #71	0.069
-38	B #72	0.016
-39	BW #1	0.036
-40	BW #2	0.003
-41	BW #3	0.047
-42	BW #4	0.037

7-2-1
C-2-2

CORE LABORATORIES - CANADA LTD.

Petroleum Reservoir Engineering

P.O. BOX 5670, POSTAL STATION "A"
CALGARY 8, ALBERTA
TELEPHONE: 253-3391

COMPANY Great Plains Development Company of Canada, Ltd.
Rock Samples

PAGE 1 of 2
FILE 931-1203
DATE June 24/71

ANALYSIS

SAMPLE NUMBER	COPPER %
BALL GM 1	0.044
BALL GM 2	0.011
BALL GM 3	0.064
BALL GM 4	0.045
BALL GM 5	0.023
BALL GM 6	0.145
BALL GM 7	0.26
BALL GM 8	0.17
BALL GM 9	0.43
BALL GM 10	0.049
BALL GM 11	0.11
BALL GM 12	0.83
BALL GM 13	0.15
BALL GM 14	0.092
BALL GM 15	0.059
BALL GM 16	0.16
BALL GM 17	0.013
BALL GM 19	0.83
BALL GM 20	0.045
BALL GM 21	0.082

CORE LABORATORIES-CANADA LTD.

COMPANY Great Plains Development Company of Canada, Ltd.
Rock Samples

PAGE 2 of 2
FILE 931-1203
DATE June 24/71

ANALYSIS

<u>SAMPLE NUMBER</u>	<u>COPPER %</u>
BALL GM 22	0.082
BALL GM 23	0.48
BALL GM 24	0.10
BALL GM 25	0.36
BALL GM 26	0.075
BALL GM 27	0.074

Sample Number BALL GM 25 - Gold Not Detected

Preliminary Thin Section Study
by N. W. Reynolds

Eight thin sections from the volcanic sequence in the Ball Creek area were made. The volcanics exhibit various degrees of alteration with the biotite and hornblende being almost completely altered to chlorite. The feldspars are slightly altered to clay minerals and in places sericite. All samples are finely fractured being filled with calcite. One sample had fracture fillings of quartz. Disseminated pyrite ranging from 2% - 5% was evidenced in all the samples.

August 1, 1971

Laboratory Processing and Analyses of Soil and Stream
Sediment Samples by
Core Laboratories - Canada Ltd.

1. Samples are sorted, recorded and dried at 60°C.
2. Dried samples are normally sieved to -80 mesh fraction with a nylon and stainless steel sieve. Special sieving techniques are used when requested.
3. 0.5 gram of -80 mesh sample fraction is weighed into test tube and digested with hot 70% perchloric and concentrated nitric acid. For silver analyses a 3 gram sample is used. Samples are digested until all organic material is oxidized. (Approx. 4 hrs.)
4. Digested samples are diluted to 25 ml. volume with demineralized H₂O and mixed thoroughly. Solutions are settled until clear.
5. Copper, Lead, Zinc & Silver are analyzed in aqueous solution with Techtron A-A-3 Atomic Absorption Unit - Detection limit in soils and stream sediments for Copper, Lead & Zinc is 1 p.p.m. Detection limit for silver is 0.2 p.p.m.
6. Molybdenum below 5 p.p.m. is analyzed colorimetrically, with stannous chloride - ammonium thiocyanate procedure and "moly Iso-amyl alcohol" is read on Bausch and Lomb Spectronic - 20. Detection limit - 1 p.p.m. Molybdenum greater than 5 p.p.m. is analyzed by atomic absorption - detection 2 p.p.m.

	Dates	Days Moving	Days Mapping	Geochem Survey	Report Prep.	Total Days
G. Mitchell	June 2-14	1	12			
	June 17 -					
	July 4	1	17			
	July 20-28	1	6		2	40
B. Watts	June 2-21	2	18			
	June 28 -					
	July 4		7			
	June 27-28		2			29
B. Robson	June 2-27	2	19	5		
	July 20-28	1	8			35
B. Parsons	June 10 -					
	July 4	2	6	17		
	July 20-28	1		8		34
W. Blake	June 15 -					
	July 4	2	18			
	July 20-28	1	8			29
A. Tashoots	July 20-28	1		8		9
H. Dennis	July 20-28	1		8		9
	June 2 -					
	July 28	16	121	46	2	185
N. Reynolds	1 day thin section					

Expenditures:

Geological & geochemical surveys, Ball Creek

Salaries

N. Reynolds	5 days	\$ 325
G. Mitchell	40 days	1,200
W. Blake	29 days	870
B. Watts	29 days	870
R. Robson	35 days	875
B. Parsons	34 days	850
A. Tashoots	9 days	180
H. Dennis	9 days	180
		<hr/>
		\$ 5,350

Transportation

Vancouver Island Helicopters

Bell 47-G3-B1 (6.5 hrs. @ \$150/hr)	\$ 975
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Okanagan Helicopters

Bell 206 (9.6 hrs. @ \$250/hr)	2,400
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Drafting Supplies	1,048
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Camp and Cookery Supplies	2,500
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Assays (rock and soil)	1,000
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<u>TOTAL</u>	\$13,273
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QUALIFICATIONS OF R. W. TERMUENDE

I, Robert W. Termuende, with business and residential addresses in Calgary, Alberta, do certify that:

1. I am a geologist employed with Great Plains Development Company of Canada, Ltd.
2. I am a graduate of the University of British Columbia, Vancouver, British Columbia. (B.A. in Geology).
3. I have been engaged in mineral exploration since 1956, and have worked in Western Canada, Western United States and Newfoundland.

Respectfully submitted,

R. W. Termuende

QUALIFICATIONS OF NORMAN W. REYNOLDS

I, Norman W. Reynolds, with business and residential addresses in Calgary, Alberta, do certify that:

1. I am a geologist employed with Great Plains Development Company of Canada, Ltd.
2. I am a graduate of the University of Alberta, Edmonton, Alberta (B.Sc. in Mathematics and Geology).
3. I have been engaged in mineral exploration since 1965, and have worked in Western Canada and Alaska.

Respectfully submitted



N. W. Reynolds

QUALIFICATIONS OF GERALD G. MITCHELL

1. I, Gerald Mitchell reside at Chimney Lake Lodge, Williams Lake, B.C. P.O. Box 254.
2. I have completed two years towards a degree in Geology and Geophysics at the University of British Columbia.
I have worked in mining exploration in Canada for the five previous field seasons prior to this season. I have worked in all phases of mining exploration and have a good working knowledge of exploration and evaluation techniques.
3. I hold no interest direct or indirect in the Me and Rog groups of claims.

Respectfully submitted

G. G. Mitchell

Gerald G. Mitchell







