86-335-14949

Specific Claims: Ironhorse 1 1392(4)
Ironhorse 2 1433(6)
Ironhorse 3 1884(5)

Mining Division: Clinton

Specific NTS Location: 92P/15W

Latitude and Longitude: 51° 57' North
120° 53' West

Owner of Claims: Reliant Resources Limited

Operator: Reliant Resources Limited

Author of Report: J.W. Morton

Date Submitted: June, 1986

GEOLOGICAL BRANCH
ASSESSMENT REPORT

14,949

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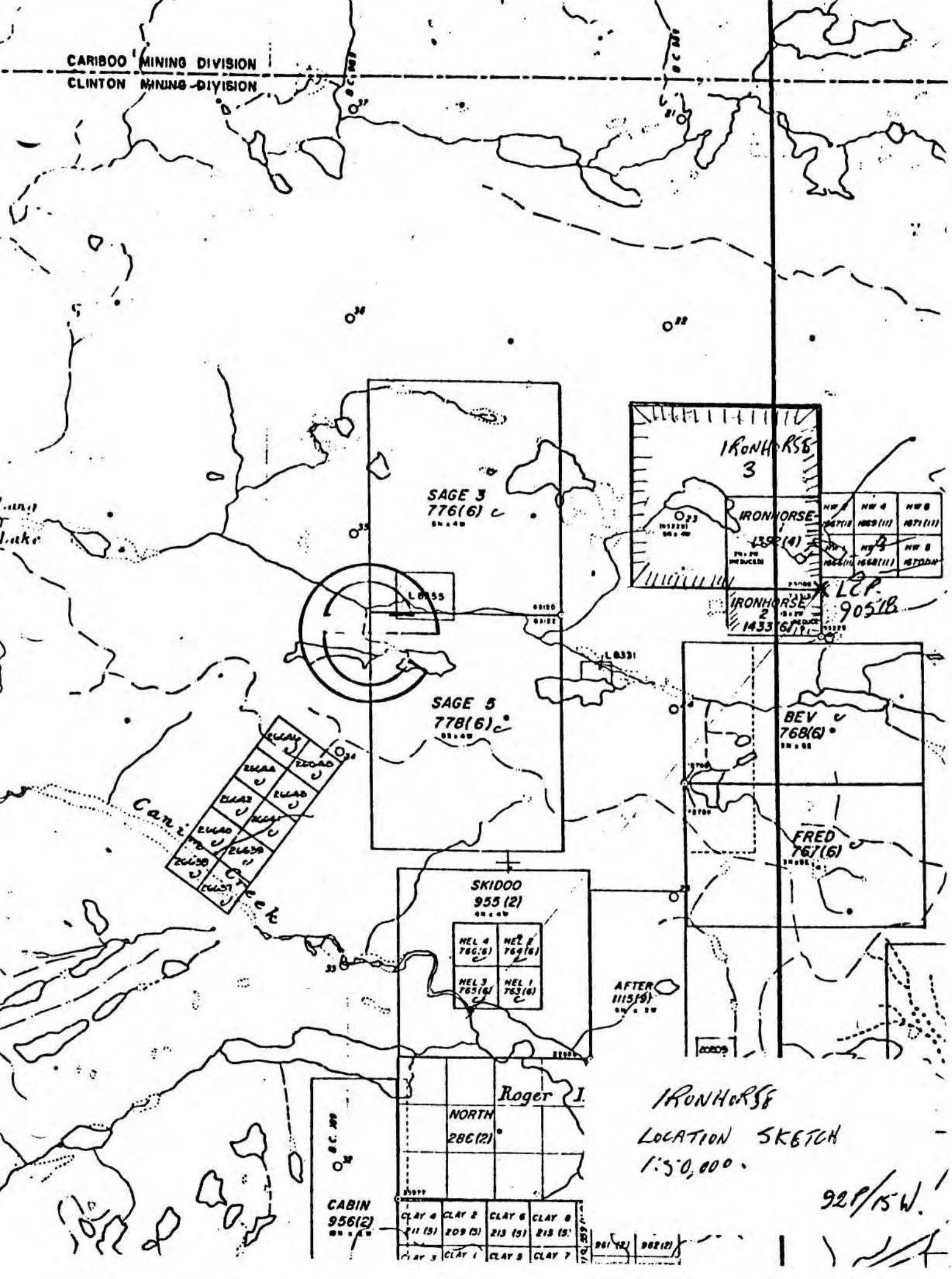
CARIBOO MINING DIVISION
CLINTON MINING DIVISION
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1:50,000.
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INTRODUCTION

Location and Physiographic Position

The Ironhorse Property is located in the Clinton Mining Division, British Columbia, forty-five kilometres northeast of the community of 100 Mile House. More precisely it is located at 51°57' north latitude and 120°53' west longitude. (National Topographic System Map 92P/15W) The Ironhorse Property is readily accessible from 100 Mile House B.C. via 42 kilometres of paved highway to the cummunity of Eagle Creek, then 5 kilometres on the Hendrix Lake all-weather gravel road, and then 9 kilometres on the Canim Lake Sawmills forest access road. The Canim Lake Sawmills access road bisects the Property.

The claim group lies in the Quesnel Highland physiographic region of the central interior of B.C. This region is characterized by broad valleys and gently rolling hills with elevation on the Ironhorse property ranging from 1000 to 1300 metres above sea level. Many of the valley bottoms are characterized by poor drainage and are occupied by small lakes and swamps.

Soils occurring in this area of the interior are well developed Brunisolic and Luvisolic types developed on 3 to 5 meter depths of glacial till.

Vegetation occuring on the Ironhorse claims is a wet coniferous forest type with the predominant species consisting of fir, spruce and cedar with variable undergrowths of alder and ferns. Much of this area of the Quesnel Highlands has recently been clear-cut logged. Active logging is presently in progress in the general area of the Ironhorse Property.

Regional Geology

Geologically the Ironhorse Property is located within the southern extension of a structural feature known as the Quesnel Trough. Within this structural domain the Ironhorse Property is located near the contact of the Triassic-Jurassic Age Takomkane batholith with Triassic Age Nicola Group volcanic rocks. The Quesnel Trough is a 30 to 60 kilometre wide linear belt of mesozoic volcanic and related strata enclosed to the east and the west by Paleozoic rocks. This mesozoic succession is predominantly composed of mafic volcanic rocks and is often invaded by batholiths and lesser intrusions.

Many of the invading intrusive centres are alkalic intrusions often evidenced by a strong regional aeromagnetic response. The area of the Ironhorse Property covers such a strong positive regional aeromagnetic anomaly. It is reflected on the ground by magnetite rich (up to 40% magnetite) alkalic intrusive rocks that underlie much of the claim group.

(R.B. Campbell and H.W. Tipper of the Geological Survey of Canada describe the regional geology of this area in GSC Memoir 363.)

Local Geology

The Ironhorse Property is underlain by a multiple alkalic intrusion that consists of fine to medium grained equigranular augite diorite, pyroxenite, hornblendite and pegmatitic feldspathic material.

Numerous fractures and shear zones occur in outcrop and diamond drill core. These zones range from 1 centimetre to 10 metres in width, and consist of quartz carbonate alteration and fault gouge. Hydrothermal alteration and sulphide mineralization often occur within them.

History and Previous Work

The earliest known work in the Ironhorse claim area is evidenced by claim posts dated March, 1969, however, there were no work records filed relating to this period.

In October, 1972 Pickands Mather and Co. located the Sheri mineral claims over an area that included the present day Ironhorse Property. During the period 1972 to 1976 Pickands Mather and Co. and later H.J. Wahl conducted mineral exploration programs on the Sheri claims. Their programs consisted of line cutting, geology, geochemistry, induced polarization and diamond drilling. Although there was in excess of 600 metres of diamond drilling, less than 10% of the core was ever split and most of it is still stored on the property. The results of this early and assayed work is summarized by H.J. Wahl in his 1976 assessment report for the Sheri claims.

In April and May, 1983 the Ironhorse 1 & 2 mineral claims were located by J.W. Morton to cover the copper anomalies discovered by the Pickands Mather and Co. in the early 1970's. Subsequent work by J.W. Morton on the Ironhorse Property has consisted of a 3.7 kilometre reconnaissance electromagnetic survey and limited rock chip sampling. (Assessment report filed 1984)

Summary of Work Completed

A selection of unassayed core originating from the 1974 Pickands Mather and Co. diamond drill program was retrieved from the Cariboo and transported to Vancouver. In Vancouver this BQ sized drill core was split, relogged and geochemically analysed. A total of 38 samples were sent to Acme Analytical labs in Vancouver for analysis. At Acme Analytical the samples were analysed using multi-element I.C.P. procedures with gold and platinum values obtained by atomic absorption methods. Specific sample treatments and analytical procedures are included with geochemical certificates in the appendix of this report. The drill core was subsequently returned to the core shack that exists on the edge of the Ironhorse Property. (core shack located approximately 500 metres due west of post 4W. Ironhorse #3)

Drill core that was relogged and analysed originated from the Ironhorse 1 claim. A map showing the exact location is included in the appendix of this report.

Results and Discussion

A tabulized description of lithologies and assay results is included in this report. It can be noted that anomalous gold values are associated with quartz-carbonate alteration in the 39-56 foot (12m-17m) section of DDH#5. (5 samples varying between 55 and 150 p.p.b. gold). Three isolated anomalous platinum values (36 to 55 p.p.b.) were obtained from serpentinized ultramafic rocks that occur in DDH#6.

Recommendations

To properly evaluate the Ironhorse Property it will be necessary to reestablish an exploration grid on the property. The limited sampling that was completed establishes that anomalous gold and platinum values can be expected from this intrus ion. Never-the-less it must be observed that the 1974 drill holes were positioned without any gold or platinum influence and as such are essentially random samples with respect to these elements.

TABLE 1

Diamond Drill Hole	Interval (ft.)	Sample #	Description	Cu (p.p.m.)	Ni (p.p.m.)	Co. (p.p.m.)	Au (p.p.b.)	Pt. (p.p.b.)	Sample Width (m)
#5	14-20	93163	-magnetite rich pyroxenite	21	161	31	5	2	1.8
	20-23	93164	-carbonatized pyroxenite	15	52	40	1	2	0.9
	23-26	93165	-carbonatized pyroxenite	16	43	36	1	13	0.9
	26-30	93166	-carbonatized pyroxenite	14	43	31	2	7	1.2
	30-32	93167	-carbonatized pyroxenite with talcy schistocity 45% to CA	34	46	36	4	34	0.6
	32-35	93168	-altered pyroxenite, magnetite, minor cp, brecciated	46	37	34	9	5	0.9
	35-38	93169	-" "	33	35	31	17	2	0.9
	38-39.5	93170	-red hematitic shear, gouge	114	45	24	16	2	
	39.5-41	93171	-silicified pink carbonate	67	89	32	55	2	0.5
	41-43.5	-	-hematitic gouge, some pyrite, 1 cm wide calcite veins 10° to CA, some brecciation						
	43.5-46.0	93172	-gouge with some silicified vein breccia	106	192	37	56	5	0.7
	46.0-49	93173	-green altered gouge followed by qtz carbonate sulfide zone	74	156	33	90	2	0.9
	49-53	93174	-qtz carbonate pyrite	110	19	10	140	2	1.2
	53-56	93175	-green shear (chlorite?) some qtz carbonate	397	144	42	85	6	0.9
	56-59	93176	-" "	326	110	31	28	4	0.9
	59-62	93177	-altered pyroxenite	404	103	28	21	7	0.9
	62-66	-	-" "						
	66-69	93178	-pegmatitic crystals of pyroxene in a Fspar matrix	29	26	18	4	2	0.9
	69-112	-	-altered pyroxenite						
	112-113	-	-" "						
	113-114	-	-felspathic section						
	114-121	-	-pyroxenite						
	(121-122.5)	93179	-calcite vein with 'blue gouge'	6	18	23	1	2	0.5
	120-130	-	-pyroxenite with carbonate						
	130-152	-	-pyroxenite, mg, calcite						
	152-162	-	-altered pyroxenite						
	162-163	93180	-silicified carbonate vein, contact 50° to C.A.	61	9	5	6	2	0.3
	163-188	-	-pyroxenite						
	188-189.5	93181	-calcite, silica vein	24	6	9	6	2	
	189.5-198	-	-pyroxenite						
	198-199	93182	-calcite silica vein	20	5	9	9	2	
	199-206.5	-	-pyroxenite						
	206.5-294	-	-pyroxenite						
	294-297	93183	-breccia, calcite altered fragments in green talcy matrix, some qtz and minor fine sulfides	11	87	38	12	3	0.9
	297-300	93184	-" "	65	41	46	21	2	0.9

TABLE 2

Diamond Drill Hole	Interval (ft.)	Sample #	Description	Cu (p.p.m.)	Ni (p.p.m.)	Co. (p.p.m.)	Au (p.p.b.)	Pt. (p.p.b.)	Sample Width (m)
#6	11-16	93193	-partially serpentinized black-green serpentinite	12	88	24	2	5	1.5
	16-21	93194	-serpentinized, greener coloured, ultramafic	9	84	19	1	9	1.5
	21-24	93185	-black to green silicified and veined serpentinite, contains some sulfides on fractures and contains a green biotite	9	507	90	4	54	0.9
	24-27	93195	-magnetite rich pyroxenite	8	448	78	5	36	0.9
	27-30	93196	-magnetite rich pyroxenite	9	311	55	2	6	0.9
	47-51	93186	-sheared hornblendite, siliceous zones, some breccia habit	250	29	27	2	2	1.2
	69-73	93187	-calc-silicate, silicified and micro veined, hematite phenocrysts, mariposite	7	134	30	1	7	1.2
	73-76	93188	-as above, less pervasive silicification more micro stockwork veining, (unit continues past sample)	13	107	21	1	26	0.9
	100-102	93197	-breccia, pyroxenite and magnetite clasts in carbonate matrix	58	51	21	6	2	0.6
	106-111	93198	-magnetite rich pyroxenite (section 109'-111') Qtz-carbonate vein breccia	27	66	19	3	20	1.5
	153-156	93199	-magnetite rich feldspathic section	113	29	23	5	3	0.9
	165-167.5	93200	-black serpentinite with green mica	20	156	55	2	55	0.7
	200-204	93189	-shear zone, serpentinite, brecciated	17	52	18	4	2	1.2
#4	49	903191	-diorite, silicified with mirco qtz veins	167	77	31	21	2	grab
	54-57	93192	-rhyolite with pyrite (dyke?)	92	42	22	80	2	0.9
	179-183	93190	-pyroxenite with calcopyrite and qtz	335	41	18	6	8	1.2

Statement of Costs

Manpower J.W. Morton - Aug. 3-5/1985 - Mar. 22/1986 3.5 days @ $200 day	$700.00
Meals and Accommodation	100.00
Transportation -Vancouver-Canim Lake Return 1060 km @ 25¢ km	265.00
Analytical Costs - 38 samples by I.C.P. plus Au and Pt. by A.A.	633.75
Report Preparation	400.00
	$2,098.75

Statement of Author's Qualifications

I, JAMES W. MORTON, CERTIFY THE FOLLOWING:

I graduated from Carleton University in 1971 with a Bachelor of Science in Geology.

I graduated from the University of British Columbia in 1976 with a Master of Science in Soil Science.

I am currently a fellow of the Geological Association of Canada.

I have worked for various mining and exploration companies since 1969.

I supervised the work described in this report.

J. W. Morton
Geologist

ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN,FE,CA,P,CR,MG,BA,TI,B,AL,NA,K,W,SI,ZR,CE,SN,Y,NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE AU** ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: MARCH 4 1986 DATE REPORT MAILED: Mar 7/86 ASSAYER. D. Toye ..DEAN TOYE. CERTIFIED B.C. ASSAYER.

RELIANT RESOURCES FILE # 86-0259 PAGE 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au** PPB	Pt** PPB
93163C	3	21	22	35	.2	161	31	443	3.42	2	7	ND	3	40	1	7	3	53	.67	.02	5	504	3.56	62	.07	9	.48	.06	.04	4	5	2
93164C	13	15	12	67	.4	52	40	665	15.92	2	5	ND	2	97	1	2	10	654	4.06	.04	21	10	2.10	22	.36	30	1.17	.10	.01	1	1	2
93165C	11	16	8	54	.6	43	36	642	13.26	2	5	ND	1	100	1	5	7	554	3.95	.01	17	9	2.06	37	.35	25	1.27	.18	.03	1	1	13
93166C	10	14	9	49	.7	43	31	723	12.42	2	5	ND	2	131	1	2	7	528	5.53	.02	17	4	2.09	51	.33	21	1.14	.15	.03	2	2	7
93167C	11	34	6	59	.4	46	36	821	13.18	2	5	ND	1	179	1	6	12	544	7.25	.02	17	15	2.83	107	.37	23	1.61	.17	.04	2	4	34
93168C	8	46	6	52	.7	37	34	732	10.72	2	8	ND	2	178	1	7	8	477	5.95	.02	14	1	3.12	327	.34	20	1.89	.21	.14	1	9	5
93169C	7	33	7	50	.9	35	31	777	8.97	2	10	ND	3	173	1	4	2	400	6.45	.02	14	6	3.10	298	.38	20	1.98	.29	.21	2	17	2
93170C	4	114	5	49	.1	45	24	872	5.71	2	5	ND	3	217	1	2	2	204	9.89	.07	6	66	3.72	499	.04	12	1.37	.03	.09	3	16	2
93171C	6	67	9	46	.3	89	32	1387	8.20	4	5	ND	1	292	1	7	2	304	12.70	.04	12	195	4.79	93	.10	19	1.01	.02	.01	5	55	2
93172C	5	106	7	47	.5	192	37	1325	6.71	32	5	ND	1	306	1	6	2	202	16.66	.02	6	424	5.87	93	.04	10	1.20	.01	.11	5	56	5
93173C	5	74	4	53	.3	156	33	1056	6.75	33	5	ND	1	262	1	5	2	255	11.20	.05	6	358	5.29	55	.04	9	1.54	.02	.09	2	90	2
93174C	2	110	5	16	.1	19	10	531	2.45	37	5	ND	3	247	1	2	2	73	8.01	.05	5	29	1.60	26	.01	4	.43	.06	.03	2	140	2
93175C	7	397	5	62	.5	144	42	1092	10.24	7	5	ND	1	193	1	6	2	406	8.40	.02	14	209	5.46	241	.04	20	1.90	.03	.08	1	85	6
93176C	7	326	6	48	.5	110	31	1005	9.80	2	5	ND	1	209	1	5	2	405	8.50	.01	14	218	3.68	145	.13	23	1.71	.13	.06	3	28	4
93177C	5	404	3	41	.6	103	28	851	6.90	2	6	ND	2	241	1	5	2	287	7.47	.02	6	351	3.54	353	.21	7	1.98	.22	.15	2	21	7
93178C	3	29	3	32	.6	26	18	413	4.85	4	6	ND	4	274	1	4	6	215	2.68	.09	8	59	1.88	223	.24	12	1.43	.14	.12	4	4	2
93179C	3	6	6	63	.1	18	23	763	4.43	2	5	ND	4	133	1	2	6	190	3.08	.13	9	7	2.15	526	.40	3	1.20	.06	.78	1	1	2
93180C	2	61	4	7	.1	9	5	572	1.66	2	5	ND	4	84	1	2	2	59	9.43	.07	3	25	.38	16	.08	3	.29	.08	.02	1	6	2
93181C	2	24	6	13	.1	6	9	266	2.18	3	5	ND	1	131	1	2	7	108	1.97	.13	5	1	.77	1494	.14	3	.60	.15	.06	1	6	2
93182C	2	20	11	16	.6	5	9	260	3.37	3	10	ND	5	153	1	2	8	147	1.99	.15	6	3	.39	1591	.08	8	.48	.08	.14	2	9	2
93183C	8	11	13	64	.2	87	38	1207	9.75	9	5	ND	1	266	1	4	2	297	15.17	.02	11	154	4.80	46	.12	16	1.49	.01	.01	17	12	3
93184C	8	65	6	80	.5	41	46	901	10.34	17	5	ND	1	189	1	2	2	348	7.69	.02	16	25	5.74	218	.03	24	3.07	.01	.13	7	21	2
93185C	6	9	10	74	.1	507	90	1310	7.82	32	5	ND	1	94	1	4	2	12	1.82	.02	9	149	11.36	45	.01	246	.24	.02	.03	1	4	54
93186C	5	256	2	62	.1	29	27	851	7.24	4	5	ND	1	196	1	6	2	259	5.20	1.16	18	19	3.27	123	.08	16	2.36	.23	.16	1	2	2
93187C	3	7	4	23	.3	134	30	839	3.33	27	5	ND	1	130	1	2	2	45	15.74	.01	3	277	5.23	96	.01	8	.16	.04	.01	2	1	7
93188C	1	13	2	17	.3	107	21	410	1.97	2	5	ND	1	58	1	2	2	15	3.34	.02	2	127	2.99	61	.02	7	.25	.04	.04	1	1	26
93189C	2	17	2	19	.1	52	18	954	2.67	2	5	ND	1	159	1	2	2	24	4.06	.08	3	155	5.15	335	.01	18	1.88	.03	.02	1	4	2
93190C	2	335	2	28	.1	41	18	738	3.67	10	5	ND	1	204	1	7	2	139	8.51	.07	4	164	3.19	151	.13	22	1.20	.15	.08	1	6	8
93191C	5	167	7	47	.1	77	31	934	7.33	22	5	ND	1	264	1	7	2	256	13.63	.04	9	180	5.11	120	.04	16	1.05	.02	.12	5	21	2
93192C	3	90	8	24	.2	42	22	878	4.10	66	5	ND	1	561	1	7	2	76	14.06	.09	4	95	4.94	38	.01	7	.47	.02	.14	3	80	2
STD C/FA-AU	20	62	37	139	7.0	74	29	1214	4.03	41	16	7	34	49	17	16	20	63	.48	.15	40	60	.88	185	.08	37	1.72	.06	.06	15	50	-

ACME ANALYTICAL LABORATORIES LTD. 852 E.HASTINGS ST.VANCOUVER B.C. V6A 1R6 PHONE 253-3158 DATA-LINE 251-1011

GEOCHEMICAL ICP ANALYSIS

.500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: CORE AU** AND PT** ANALYSIS BY FA+AA FROM 10 GRAM SAMPLE.

DATE RECEIVED: MARCH 24 1986 DATE REPORT MAILED: Apr 1/86 ASSAYER. D. Toye .DEAN TOYE. CERTIFIED B.C. ASSAYER.

RELIANT RESOURCES PROJECT - IRONHORSE FILE # 86-0360 PAGE 1

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Th PPM	Sr PPM	Cd PPM	Sb PPM	Bi PPM	V PPM	Ca %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	W PPM	Au** PPB	Pt** PPB
93193C	2	12	50	17	.6	88	24	350	1.96	5	5	ND	1	40	1	3	3	13	1.96	.01	2	165	1.92	44	.02	7	.24	.03	.06	1	2	5
93194C	2	9	29	12	.5	84	19	219	1.66	4	5	ND	1	27	1	2	6	12	1.52	.01	2	165	1.83	40	.02	6	.24	.03	.05	1	1	9
93195C	6	8	12	62	.2	448	78	1033	6.19	50	10	ND	1	60	1	2	2	10	.81	.02	2	159	10.95	60	.02	207	.31	.03	.11	1	5	36
93196C	4	9	19	44	.2	311	55	875	4.34	23	7	ND	1	60	1	2	2	9	1.16	.01	2	136	7.85	42	.02	117	.27	.02	.08	1	2	6
93197C	1	58	7	48	.1	51	21	698	4.08	4	5	ND	2	185	1	2	2	100	3.14	.34	2	10	1.76	71	.03	8	1.41	.05	.16	1	6	2
93198C	2	27	5	29	.1	66	19	563	2.66	2	5	ND	2	127	1	2	2	45	4.17	.11	2	89	2.45	143	.05	4	.94	.06	.09	1	3	20
93199C	1	113	14	34	.1	29	23	549	3.49	15	5	ND	2	158	1	2	2	92	3.58	.20	2	28	2.06	721	.11	7	1.38	.09	.11	1	5	3
93200C	4	20	3	44	.1	156	55	1028	4.81	79	7	ND	2	100	1	2	2	38	4.53	.08	2	357	6.08	87	.04	5	1.84	.03	.04	1	2	55
STD C/FA-AU	23	63	40	143	7.1	74	31	1252	3.98	35	16	8	35	50	18	16	20	63	.50	.11	36	64	.91	183	.08	37	1.71	.07	.11	12	50	-

IRON HORSE CLAIMS

o SOIL SAMPLE : COPPER IN PARTS PER MILLION

DIAMOND DRILL HOLE PROJECTION

SCALE 1: 4000

100m 0 100m 200m

Map compilation from reports of Pickands Mather & Co. and H. Wahl. July 1983

Appendix