

PERCUSSION DRILLING

IRON MASK PROJECT

N.T.S. 92-I-9

D.G.S. Johnson

October 1971

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Percussion Drilling  
Iron Mask Project  
N.T.S.: 92-1-9  
October 1971

SUMMARY

Eleven percussion drill holes were completed in October 1971 by Great Plains Development Company of Canada, Ltd. for Royal Canadian Ventures on their Iron Mask claims near Kamloops, B.C.

The holes tested weak geochemical anomalies.

INTRODUCTION

Between October 7th and October 14th, 1971 eleven percussion drill holes were completed by H. N. Horning Percussion Drilling Ltd. of Vancouver on the Iron Mask claims, IM 19, 22, 28, 31, 32, and 69, for a total of 2330 feet for Great Plains Development Company of Canada, Ltd.

LOCATION

The area of the drill holes was approximately three miles south of the junction of Route 5 and the Trans Canada Highway, five miles southwest of Kamloops, B.C., N.T.S. 92-1-9.

#### ACCESSIBILITY

The area is directly accessible by road (secondary) and the drill sites by two-wheel drive vehicles (over rolling ranch land).

#### GEOGRAPHY

The area of the drill sites is rolling ranchland, almost completely absent of any trees, a semi-arid, desert-like environment.

#### WEATHER

During the program the weather was generally excellent (60 - 70<sup>o</sup>, sunny), with some minor rain and snow towards the end of the program.

#### GEOLOGY

(see Summary Report on the Iron Mask Project, by G. D. Delane, July 1970).

In particular, the percussion drill samples were generally, green to dark green to gray green to gray in color, indicating that the rock type was probably andesite, possibly epidotized locally with minor sulphide (pyrite) mineralization in places.

All holes appeared to be geologically similar, except for PDH #7 where at 310' to 315' the sample taken was pink in color indicating a possible rhyolite band in with the

mafic volcanics, or possibly a syenite sill near the batholith contact.

The only structure encountered appeared to be a cave encountered at 90' in PDH #5. Minor caving was also reported in PDH #8, at 200'.

PERCUSSION DRILLING

All drill set ups were on open ranchland, over weak geochemical anomalies (see accompanying drill location map plotted over the soil geochemical map of the area). The holes were drilled to test these minor geochemical anomalies.

Brief descriptions of the holes follow (locations are in relation to the grids used by Royal Canadian Ventures in 1968, and are approximate):

- PDH #1 - Location: 37+00 N, 15+50 W  
 T.D.: 100'  
 Description: Overburden 0 - 100'
- PDH #2 - Location: 44+00 N, 28+00 W  
 T.D. 110'  
 Description: Overburden 0 - 110'
- PDH #3 - Location: 59+50 N, 29+00 W  
 T.D.: 130'  
 Description: Overburden 0 - 130'
- PDH #4 - Location: 65+50 N, 28+00 W  
 T.D.: 0'  
 Description: Not drilled

- PDH #4A- Location: 67+00 N, 27+00 W  
T.D.: 130'  
Description: Overburden 0 - 130'
- PDH #5 - Location: 58+00 N, 5+00 E  
T.D.: 90'  
Description: Overburden 0 - 20'  
Bedrock 20 - 90'  
Cave at 90'
- PDH #5A- Location: 59+00 N, 5+50 E  
T.D.: 310'  
Description: Overburden 0 - 40'  
Bedrock 40 - 310'
- PDH #6 - Location: 60+00 N, 6+50 E  
T.D.: 310'  
Description: Overburden 0 - 40'  
Bedrock 40 - 310'
- PDH #7 - Location: 62+50 N, 9+75 E  
T.D.: 330'  
Description: Overburden 0 - 30'  
Bedrock 30'- 330'  
At 310' rock type changes  
to a more acid (lighter colored) rock.
- PDH #8 - Location: 65+00 N, 10+25 E  
T.D.: 200'  
Description: Overburden 0 - 20'  
Bedrock 20 - 200'  
Cave at 200'
- PDH #9 - Location: 55+50 N, 4+50 E  
T.D.: 320'  
Description: Overburden 0 - 30'  
Bedrock 30 - 320'

PDH #10- Location: 56+00 N, 3+00 E

T.D.: 300'

Description: Overburden 0 - 20'

Bedrock 20 - 300'

#### CONCLUSIONS AND RECOMMENDATIONS

It appears from the assay results of the overburden in PDH #'s 1, 2, 3, 4A, that generally the top part of the holes has a greater copper content. This could be due to the overburden last deposited (ie. the top part) coming from the nearby hill covered by M.L.-35E and M.L.-36R which contain gossany andesites, indicating that these anomalies are not an expression of the mineralization in the subsurface rock, but a result of glacial drift of slightly mineralized rocks from another locality.

The geochemical anomaly tested by PDH #'s 5 through 10, proved to be insignificant as the highest assay result was 0.0433% Cu with Mo not determined (230' to 240' in PDH #5A). The holes testing the anomaly encountered sulphides (pyrite) which probably explain the high geochemical results in the area.

No further work is recommended for the small geochemical anomalies in this section of the claim group.

D. G. S. Johnson



IM-PDH # 1-71

DEPTH FT.	Cu. No. PPM. PPM	} OVERBURDEN
10	149 3	
20	128 ND	
30	136 ND	
40	116 N.D.	
50	133 3	
60	125 ND	
70	82 ND	
80	73 ND	
90	73 ND	
100	81 ND	

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PERCUSSION DRILL ASSAY RESULTS

Scale 1" = 50'

Nov. 1971

IM-PDH #2 - 71

IM-PDH #3 - 71

IM-PDH #4a - 71

DEPTH FT.	Cu. No. PPM PPM.
10	
20	
30	
40	
50	
60	
70	85 ND
80	105 ND
90	146 ND
100	123 ND
110	111 1

OVERBURDEN {

DEPTH FT.	Cu. No. PPM PPM
10	
20	
30	153 ND
40	158 ND
50	155 ND
60	129 ND
70	117 ND
80	88 1
90	109 5
100	80 1
110	102 4
120	} No Samples recovered
130	

DEPTH FT.	Cu. No. PPM PPM
10	
20	
30	81 ND
40	135 ND
50	203 2
60	151 ND
70	147 ND
80	129 ND
90	95 ND
100	73 ND
110	83 ND
120	72 ND
130	77 ND

OVERBURDEN }

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PERCUSSION DRILL ASSAY RESULTS

Scale 1" = 50'

Nov. 1971

1M-PDH #5-71    1M-PDH #5a-71

DEPTH FT.	Cu. No. PPH PPM.	DEPTH FT.	Cu. No. PPH PPM.
10	} OVERBURDEN	10	} OVERBURDEN
20		20	
30	68 1	30	
40	117 1	40	
50	231 ND	50	99 4
60	190 ND	60	225 ND
70	179 ND	70	130 3
80	202 ND	80	103 ND
90	265 ND	90	50 ND
		100	88 ND
		110	66 ND
		120	114 ND
		130	115 ND
		140	104 2
		150	32 ND
		160	101 ND
		170	114 ND
		180	80 ND
		190	174 ND
		200	73 ND
		210	128 ND
		220	391 ND
		230	69 ND
		240	433 ND
		250	61 ND
		260	196 ND 278 ND
		270	55 ND
		280	54 ND
		290	169 ND
		300	115 ND
		310	87 ND

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PERCUSSION DRILL ASSAY RESULTS

Scale 1" = 50'

Nov. 1971

IM-PDH# 6-71

DEPTH FT	Gr. No. PPH PPH.
10	} OVERBURDEN
20	
30	
40	
50	36 ND
60	18 ND
70	15 ND
80	16 ND
90	32 ND
100	32 1
110	16 ND
120	18 ND
130	20 ND
140	10 2
150	7 ND
160	5 2
170	22 ND
180	23 ND
190	37 ND
200	24 ND
210	20 ND
220	15 1
230	22 ND
240	47 3
250	37 1
260	96 ND
270	25 ND
280	12 ND
290	12 ND
300	10 ND
310	13 1

GREAT PLAINS DEVELOPMENT  
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 N.T.S. 92-I-9

PERCUSSION DRILL ASSAY RESULTS

Scale: 1" = 50'

Nov. 1971

IM-PDH # 7-71

DEPTH FT.	Cu. No PPM	Mo PPM
10	}	OVERBURDEN
20		
30		
40	64	3
50	37	ND
60	64	4
70	145	ND
80	45	ND
90	82	ND
100	63	ND
110	110	ND
120	82	8
130	98	ND
140	153	6
150	13	ND
160	117	ND
170	67	ND
180	104	ND
190	111	ND
200	52	ND
210	70	ND
220	48	ND
230	161	ND
240	273	ND
250	23	ND
260	86	ND
270	60	ND
280	100	ND
290	79	ND
300	69	ND
310	55	ND
320	43	ND
330	44	ND

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PERCUSSION DRILL ASSAY RESULTS

Scale 1" = 50'

Nov. 1971

IM-PDH-#8-71

DEPTH FT.	Cu. Mo.	
	PPH	PPH.
10	OVERBURDEN	
20	}	
30	69	ND
40	217	3
50	173	ND
60	139	ND
70	216	ND
80	135	ND
90	210	ND
100	124	ND
110	38	1
120	233	ND
130	114	ND
140	43	ND
150	139	ND
160	158	ND
170	92	ND
180	107	ND
190	128	ND
200	99	ND

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PERCUSSION DRILL ASSAY RESULTS

Scale 1" = 50'

Nov. 1971

IM-PDH-#9-71

DEPTH FT.	Cu. No. PPM	PPM
10	}	OVERBURDEN
20		
30		
40	106	ND
50	60	ND
60	129	ND
70	143	ND
80	85	ND
90	334	ND
100	77	ND
110	65	NP
120	99	ND
130	128	ND
140	245	ND
150	36	ND
160	156	ND
170	66	ND
180	150	ND
190	69	ND
200	289	ND
210	254	ND
220	265	8
230	403	ND
240	170	1
250	172	8
260	30	ND
270	134	ND
280	103	1
290	135	ND
300	181	ND
310	205	ND
320	169	ND

GREAT PLAINS DEVELOPMENT

IRON MASK PROJECT

N.T.S. 92-I-9

PERCUSSION DRILL ASSAY RESULTS

Scale: 1" = 50'

Nov. 1991

IM-PDH #10-71

DEPTH FT.	Cu. PPM	Mo. PPM
10	OVERBURDEN	
20	OVERBURDEN	
30	92	1
40	71	1
50	81	3
60	134	2
70	42	2
80	76	5
90	55	ND
100	113	ND
110	110	1
120	29	3
130	69	2
140	119	1
150	205	11
160	56	3
170	42	2
180	96	ND
190	235	10
200	50	5
210	31	2
220	56	3
230	53	4
240	150	2
250	92	1
260	74	3
270	281	1
280	83	2
290	42	13
300	No Sample Recovered	

GREAT PLAINS DEVELOPMENT  
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PERCUSSION DRILL ASSAY RESULTS

Scale: 1" = 50'

Nov. 1971



IM-PDH # ? - 71

PPH #1

PDH #1

	<u>Cu PPM</u>	<u>Mo PPM</u>
0-10	149	3
10-20	128	ND
20-30	136	ND
30-40	116	ND
40-50	133	3
50-60	125	ND
60-70	82	ND
70-80	73	ND
80-90	73	ND
90-100	81	ND

PPH #2

60-70	85	ND
70-80	105	ND
80-90	146	ND
90-100	123	ND
100-110	111	1

PPH #3

20-30	153	ND
30-40	158	ND
40-50	155	ND
50-60	129	ND
60-70	117	ND
70-80	88	1
80-90	109	5
90-100	80	1
100-110	102	4

PPH #4A

20-30	81	ND
30-40	135	ND
40-50	203	2
50-60	151	ND
60-70	147	ND
70-80	129	ND
80-90	95	ND
90-100	73	ND
100-110	83	ND
110-120	72	ND
120-130	77	ND

## PPH #5

	<u>Cu PPM</u>	<u>Mo PPM</u>
20-30	68	1
30-40	117	1
40-50	231	ND
50-60	190	ND
60-70	179	ND
70-80	202	ND
80-90	265	ND

## PPH #5A

	<u>Cu PPM</u>	<u>Mo PPM</u>
40-50	99	4
50-60	225	ND
60-70	130	3
70-80	103	ND
80-90	50	ND
90-100	88	ND
100-110	66	ND
110-120	114	ND
120-130	115	ND
130-140	104	2
140-150	32	ND
150-160	101	ND
160-170	114	ND
170-180	80	ND
180-190	174	ND
190-200	73	ND
200-210	128	ND
210-220	391	ND
220-230	69	ND
230-240	433	ND
240-250	61	ND
250-260A	196	ND
250-260B	277	ND
260-270	55	ND
270-280	54	ND
280-290	169	ND
290-300	115	ND
300-310	89	ND

## PPH #6

40-50	36	ND
50-60	18	ND
60-70	15	ND
70-80	16	ND
80-90	32	ND
90-100	32	1

## PPH #6 (cont'd)

	<u>Cu PPM</u>	<u>Mo PPM</u>
100-110	16	ND
110-120	18	ND
120-130	20	ND
130-140	10	2
140-150	7	ND
150-160	5	2
160-170	22	ND
170-180	23	ND
180-190	37	ND
190-200	24	ND
200-210	20	ND
210-220	15	1
220-230	22	ND
230-240	47	3
240-250	34	1
250-260	96	ND
260-270	25	ND
270-280	12	ND
280-290	12	ND
290-300	10	ND
300-310	13	1

## PPH #7

30-40	64	3
40-50	37	ND
50-60	64	4
60-70	145	ND
70-80	45	ND
80-90	82	ND
90-100	63	ND
100-110	110	ND
110-120	82	8
120-130	98	ND
130-140	153	6
140-150	13	ND
150-160	117	ND
160-170	67	ND
170-180	104	ND
180-190	111	ND
190-200	52	ND
200-210	70	ND
210-220	48	ND
220-230	161	ND
230-240	273	ND
240-250	23	ND
250-260	86	ND

## PPH #7 (cont'd)

	<u>Cu PPM</u>	<u>Mo PPM</u>
260-270	60	ND
270-280	100	ND
280-290	79	ND
290-300	69	ND
300-310	55	ND
310-320	43	ND
320-330	44	ND

## PPH #8

20-30	69	ND
30-40	217	3
40-50	173	ND
50-60	139	ND
60-70	216	ND
70-80	135	ND
80-90	210	ND
90-100	124	ND
100-110	38	1
110-120	233	ND
120-130	114	ND
130-140	43	ND
140-150	139	ND
150-160	158	ND
160-170	92	ND
170-180	104	ND
180-190	128	ND
190-200	99	ND

## PPH #9

30-40	106	ND
40-50	60	ND
50-60	129	ND
60-70	143	ND
70-80	85	ND
80-90	334	ND
90-100	77	ND
100-110	65	ND
110-120	99	ND
120-130	128	ND
130-140	245	ND
140-150	36	ND
150-160	156	ND
160-170	66	ND
170-180	150	ND
180-190	69	ND
190-200	289	ND

## PPH #9 (cont'd)

	<u>Cu PPM</u>	<u>Mo PPM</u>
200-210	254	ND
210-220	265	8
220-230	403	ND
230-240	170	1
240-250	172	8
250-260	30	ND
260-270	134	ND
270-280	103	1
280-290	135	ND
290-300	181	ND
300-310	205	ND
310-320	169	ND

## PPH #10

20-30	92	1
30-40	71	1
40-50	81	3
50-60	134	2
60-70	42	2
70-80	76	5
80-90	55	ND
90-100	113	ND
100-110	110	1
110-120	29	3
120-130	69	2
130-140	119	1
140-150	205	11
150-160	56	3
160-170	42	2
170-180	96	ND
180-190	235	10
190-200	50	5
200-210	31	2
210-220	56	3
220-230	53	4
230-240	150	2
240-250	92	1
250-260	74	3
260-270	281	1
270-280	83	2
280-290	42	13