PACIFIC PETROLEUMS LTD.
#408 - 580 Granville Street,
Vancouver 2, B.C.

June 3, 1970.

Mr. N. M. Ediger,
Manager - Exploration,
Gulf Minerals Company,
14 College Street,
Toronto 2, Ontario.

Re. Carcross Project

Dear Nick:

You will recall that we decided to proceed with the uranium analysis of some 1,800 silt samples selected by Dr. Tupper.

Enclosed please find the results.

We have had no experience whatsoever with regard to geochemical methods and uranium and would appreciate your comments.

Best regards,

Yours truly,
PACIFIC PETROLEUMS LTD.

Bob Rowe

rbr/vb

R. B. Rowe

Enclosure: (1)

SCIENCE SERVICES DIVISION
TEXAS INSTRUMENTS
INCORPORATED

GEOPHOTO SERVICES LTD.

706 - 6th Street S.W.
CALGARY — ALBERTA

RECEIVED
APR 16 1969
VANCOUVER OFFICE
Minerals Exploration

world-wide natural resources evaluation

NOTICE OF SHIPMENT AND RECEIPT No. 3365

PLEASE INDICATE RECEIPT OF THE MATERIALS LISTED BELOW BY SIGNING AND RETURNING THE PINK COPY TO GEOPHOTO SERVICES, LTD.

SHIPPED TO Dr. E. A. Schiller,
Ashland Oil & Refining Company,
736 - 8th Avenue S.W.,
Calgary, Alberta.

DATE January 8, 1969.

VIA Deliver

QUANTITY		CONTENTS
PKG'S	TUBES	

CARCROSS AREA, BRITISH COLUMBIA AND YUKON

622 Samples : 618 available - 4 samples empty packages on return from X-Ray spilled in packing and shipping : Y3740, Y 3742, Y 3826, and Y 4650.

See Attached Sheets

RECEIPT IS ACKNOWLEDGED OF THE ABOVE LISTED MATERIALS, EXCEPT AS FOLLOWS:

DATE..... SIGNATURE.....

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD — DON MILLS · ONTARIO — 445-5755

40 ppm Cu.
50 ppm Pb
300 ppm Zn

Certificate of Analysis

NO. 1360 C 0564 Report #

Total Cost $301-25

TO. Geophoto Services Limited,
706-6th. S.W.,
CALGARY, Alberta.

RECEIVED July 15, 1968 (Marcross Proj.) INVOICE NO. 2802

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Pb ppm	Zn ppm
Y-8	60	50	460
84	x	10	80
85	10	20	100
88	10	10	110
92	20	10	80
93	x	10	70
94	10	10	60
102	10	10	70
12	10	10	40
41	x	10	40
49	x	10	90
65	30	20	110
68	100	10	60
*74	60	10	90
81	10	x	70
89	10	20	80
91	10	30	100
93	50	30	120
271	20	20	100
272	30	10	80
80	30	30	90
91	70	50	350
319	30	50	160
25	20	10	50
328	30	10	50
40	80	10	90
45	80	30	130
49	90	x	70
61	10	10	100
62	10	30	60
72	40	20	100
427	20	40	300
29	60	90	10
44	10	10	60
*Y-175	10	x	40

Sample	Cu ppm	Pb ppm	Zn ppm
Y-446	10	10	70
54	10	10	70
59	20	20	110
67	50	100	200
69	60	90	200
77	60	10	90
78	60	20	100
540	50	20	110
41	70	20	160
42	40	30	150
96	20	30	110
605	40	30	60
06	40	20	90
24	40	30	150
25	40	40	170
27	30	30	250
29	20	10	60
30	x	10	90
51	20	30	130
54	x	10	110
70	20	80	280
71	20	40	170
82	10	40	140
85	30	80	170
88	50	40	330
730	100	30	360
33	20	40	130
37	50	50	600
46	20	40	130
51	90	40	900
56	50	20	90
57	20	10	60
72	230	20	600
79	40	60	330
81	40	60	650

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E. Brooks

DATE July 23, 1968

ASSAYERS — ANALYTICAL CHEMISTS — SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 1360

TO. Geophoto Services Limited,
706-6th. S.W.,
CALGARY, Alberta.

RECEIVED July 15, 1968 (Charcoss Project) INVOICE NO. 2802

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Pb ppm	Zn ppm	Mo ppm
Y-1539	30	150	900	
40	x	20	150	x
55	x	20	50	x
69	10	100	450	
72	x	10	80	x
1604	10	10	*	
08	50	10	*	
38	20	10	80	
48	40	10	80	
60	40	20	100	
1717	x	10	30	x
19	x	10	30	x
36	x	30	80	x
44	10	40	300	
46	10	90	800	
47	x	30	*	x
58	x	40	80	x
76	20	80	160	
77	50	200	400	
86	30	140	240	
1805	30	10	90	
06	20	10	70	
12	20	40	110	x
13	10	30	160	x
20	10	10	130	
38	30	20	90	x
67	110	400	1100	
68	120	50	4500	
70	60	10	80	
78	40	20	90	
90	180	x	100	
1917	100	10	130	
64	30	10	60	
68	10	x	60	
71	20	20	20	

Sample	Cu ppm	Pb ppm	Zn ppm	Mo ppm
Y-2021	30	10	40	
22	30	20	50	
47	30	10	90	
63	20	10	30	x
2104	40	30	90	
2111	20	30	130	
25	x	10	60	x
69	40	20	70	
2201	50	10	90	
04	80	10	140	
06	110	10	100	
07	70	10	100	
22	80	30	100	x
27	100	10	100	
44	50	10	50	x
51	30	10	80	x
73	x	x	30	
78	x	x	30	
85	x	10	50	x
93	x	x	30	x
94	x	20	61	x
95	10	20	60	x
306	x	10	50	

20

58

x - less than 10 ppm
* - Not sufficient sample

cc:J.R.O'Donnell, Whitehorse

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E. J. Brooks

DATE July 23, 1968

ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 1360

TO. Geophoto Services Limited,
706-6th. S.W.,
CALGARY, Alberta.

RECEIVED July 15, 1968 (Charcross Project) INVOICE NO. 2802

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Pb ppm	Zn ppm	Sample	Cu ppm	Pb ppm	Zn ppm	Ppm Mo
Y-782	30	60	400	Y-1160	20	20	60	
84	40	60	320	67	30	40	120	
99	20	20	*	86	20	10	*	
818	120	10	350	1200	30	30	100	
19	110	10	250	06	60	30	100	
21	180	x	170	10	20	40	90	
23	300	20	210	11	10	30	130	
51	40	20	80	13	20	30	130	
53	30	10	70	47	10	10	50	
55	40	10	70	48	10	10	40	
65	50	30	150	56	20	20	50	
95	40	250	1400	58	40	20	50	
900	60	60	1200	69	40	20	90	
24	30	30	260	1314	x	10	40	x
25	30	10	120	35	10	40	300	
28	30	10	120	68	10	10	60	
29	50	10	110	81	20	10	110	
30	10	20	150	95	30	20	140	
38	40	20	170	96	30	20	150	
49	30	10	100	97	30	30	130	
991	30	20	60	98	20	30	180	
93	50	30	100	99	60	30	180	
1024	20	30	80	1408	80	10	90	
26	30	30	190	09	110	20	240	
28	30	10	60	11	120	30	210	
33	20	20	110	46	60	40	310	
48	40	20	140	47	70	130	650	
52	60	20	320	52	70	30	100	
53	40	20	70	86	30	20	80	
58	40	10	110	94	40	20	100	x
59	40	20	70	1527	10	10	50	
76	30	70	120	33	x	30	160	
1116	30	20	80	36	x	30	130	
30	30	10	60	37	x	30	900	
47	10	20	90	38	10	40	170	

X-RAY ASSAY LABORATORIES LIMITED

* - Not sufficient sample

CERTIFIED BY E. Beaudin

DATE July 23, 1968

ASSAYERS - ANALYTICAL CHEMISTS - SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

Samples sent from Whitehorse by parcel post by Aug 14

NO. 1648

TO. Geophoto Services Limited,
706- 6th. Street S.W.,
CALGARY, Alberta. CARCROSS PROJ.

RECEIVED August 26, 1968 INVOICE NO. 3057

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Pb ppm	Zn ppm	Mo ppm
-2316	10	70	60	x
17	10	40	1250	
34	10	10	1070	x
46	20	10	50	
49	50	20	100	
2353	20	x	40	
63	30	10	60	x
66	10	x	80	x
73	20	20	80	10
90	20	10	80	x
2421	20	20	50	x
41	20	x	80	x
52	10	10	100	
60	10	30	90	10
94	20	x	80	
2507	20	170	270	
12	20	250	500	
13	20	60	110	
20	40	10	120	
34	550	20	400	
35	50	80	290	
40	30	50	80	
43	20	40	110	
45	80	60	120	
46	100	10	150	
52	20	80	100	
63	150	120	440	x
66	80	120	320	x
68	60	50	460	10
69	60	70	400	x
2638	20	10	80	
82	20	20	100	
93	20	x	40	

Sample	Cu ppm	Pb ppm	Zn ppm	Mo ppm
Y-2751	10	50	70	10
55	20	20	80	
61	70	40	1000	(R)
62	30	x	180	
65	20	10	120	
66	40	x	180	
2874	30	x	80	
82	30	40	140	
87	20	30	90	
2916	20	120	150	
2933	10	150	90	
36	40	20	220	
37	50	120	440	
38	40	160	500	
47	50	10	180	
49	30	10	100	
53	20	x	60	
65	10	30	60	
66	20	40	130	
78	20	70	50	
92	70	x	190	
3018	30	60	200	
41	20	10	120	
56	20	20	90	
61	20	x	70	
66	40	10	80	
72	20	x	90	
83	40	30	140	
94	10	30	80	
99	20	x	140	
3105	20	10	90	
17	20	60	70	
35	30	x	100	
41	20	30	100	
45	10	300	130	x

X-RAY ASSAY LABORATORIES LIMITED

DATE September 3, 1968 CERTIFIED BY E. J. Beaudoin

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD — DON MILLS ONTARIO — 445-5755

Certificate of Analysis

NO. 1648

TO.
Geophoto Services Limited,
706- 6th. Street S.W.,
CALGARY, Alberta.

RECEIVED August 26, 1968 — INVOICE NO. 3057

SAMPLE(S) OF soils — SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Pb ppm	Znppm	Mo ppm
Y-3151	x	30	80	
75	20	60	140	
89	20	10	140	
95	30	80	180	
3202	40	60	370	
08	20	230	210	
15	10	30	700	x
16	10	x	200	x
19	20	20	470	x
20	20	70	500	x
22	30	30	720	x
23	10	120	260	
24	10	100	180	
26	20	30	390	
30	40	40	900	x
31	20	20	90	x
43	20	30	70	
45	20	x	60	
52	30	30	140	
64	20	10	130	
69	10	x	50	
75	30	10	160	
80	20	10	60	
83	30	10	50	
3313	20	10	70	x
3327	20	10	110	
34	20	40	110	
41	30	10	100	
60	Insufficient sple			
70	20	20	70	10
3378	20	20	180	
79	10	10	150	
93	30	50	380	
94	40	140	820	

Sample	Cu ppm	Pb ppm	Zn ppm	Mo ppm
Y-3396	30	60	440	
97	50	10	110	
3407	x	x	330	
09	40	30	290	
11	20	x	120	
12	20	20	200	
45	20	10	550	
47	10	30	100	
51	x	50	140	
52	30	120	1400	20
53	20	80	870	x
54	20	50	600	10
55	20	200	660	10
66	20	10	80	
74	20	x	90	
80	20	30	80	
83	10	40	60	
88	x	10	160	
96	10	40	140	x
3505	x	40	120	
07	10	x	50	30
14	20	10	130	
16	x	10	60	
20	20	20	120	
23	20	x	60	
26	10	10	40	
3602	50	30	90	
10	60	30	100	
11	110	x	130	
22	30	30	400	
25	20	10	120	
49	x	10	70	
63	50	x	80	
69	30	10	110	
73	x	20	80	10

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E. J. Brooks

DATE September 3, 1968

ASSAYERS — ANALYTICAL CHEMISTS — SPECTROGRAPHERS

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 1648

TO.
Geophoto Services Limited,
706- 6th. Street, S.W.,
CALGARY, Alberta.

RECEIVED August 26, 1968 INVOICE NO. 3057

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Pb ppm	Zn ppm	Mo ppm
Y-3705	50	x	80	
16	30	x	70	
17	40	x	60	
18	1000	x	110	
22	40	x	70	
34	30	20	350	
36	20	40	610	
37	160	100	150	50
38	80	30	440	30
39	40	40	740	40
40	30	50	680	20
41	20	30	250	
42	10	30	240	
55	20	20	90	
62	30	10	100	
69	20	x	80	
93	70	x	280	x
94	30	30	140	
96	30	x	120	
97	20	x	180	
99	40	10	150	
3803	90	x	300	
04	20	x	90	
06	20	x	90	
14	70	30	220	10
17	10	20	100	
21	50	30	240	x
22	60	80	330	
26	30	50	120	
28	50	30	250	
44	20	30	150	
51	50	40	190	
52	50	10	180	
56	20	20	100	
62	30	20	150	

Sample	Cu ppm	Pb ppm	Zn ppm	Mo ppm
Y-3867	60	20	180	
A-1	10	20	150	
A-3	20	x	110	
B-3	70	40	280	
B-6	120	40	250	
C-2	x	80	190	
D-1	10	80	410	
E-2	90	50	230	
E-3	110	40	140	
E-4	200	400	2000	
E-5	90	30	1000	
E-6	80	10	600	
E-7	80	20	280	
E-8	70	20	360	
F-1	50	140	300	
F-2	220	650	9000	

51

X- less than 10 ppm

cc:Whitehorse Y.T.

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E. J. Brooks

DATE September 3, 1968

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

30.10
CARCROSS

NO. 1774

TO.
Geophoto Services Limited,
706- 6th. S.W.,
CALGARY, Alberta.

RECEIVED September 11, 1968 INVOICE NO. 3166

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample No.	Cu ppm	Zn ppm	Pb ppm	Mo ppm
Y-3947	30	80	10	
54	80	120	20	
62	40	130	20	
64	30	100	30	
67	111	330	40	
68	30	160	20	
72	70	190	10	
84	80	250	10	
86	30	90	x	
98	20	130	30	
Y-4013	20	100	20	x
15	40	140	30	
17	10	120	40	
29	10	190	20	
38	30	230	40	
49	50	250	20	
71	20	70	50	
4115	no sample			
22	x	50	10	
24	x	50	10	
64	x	50	20	
80	20	200	10	
85	30	190	100	
4227	20	150	x	
32	x	130	20	
36	30	160	30	
37	20	160	20	35
39	40	100	30	
59	250	1700	x	
74	90	80	10	
77	60	100	x	
79	60	80	x	
4339	50	130	20	
44	40	90	x	
53	80	100	10	

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E. J. Brooks

DATE September 23, 1968

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 1774

TO.
Geophoto Services Limited,
706- 6th. S.W.,
CALGARY, Alberta.

RECEIVED September 11, 1968 INVOICE NO. 3166

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Zn ppm	Pb ppm	Mo ppm
X-4355	90	130	x	
65	50	130	x	
67	80	260	10	
4456	10	190	40	x
58	30	120	30	x
83	10	100	20	
4513	150	100	x	
14	Missing			
15	160	770	20	
22	30	90	10	
26	30	90	10	
30	20	100	20	
31	40	100	10	x
32	60	110	10	
33	60	150	x	
34	60	130	10	
37	60	130	20	
43	30	90	x	
65	60	140	x	
83	50	200	x	x
84	70	180	10	x
97	10	80	30	x
98	x	100	10	
99	10	80	30	x
4516	20	140	20	
21	50	170	x	
33	20	90	20	x
42	40	160	x	
44	80	130	x	
45	60	120	x	
46	20	130	10	x
47	120	230	x	x
50	40	140	10	
58	40	110	10	
63	40	130	10	x

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X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E. Brooks

DATE September 23, 1968

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 1774

TO.
Geophoto Services Limited,
706- 6th. S.W.,
CALGARY, ALBERTA.

RECEIVED September 11, 1968 INVOICE NO. 3166

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Zn ppm	Pb ppm	Mo ppm
Y-4665	50	130	10	
66	30	120	10	
67	170	600	x	x
95	x	140	x	
4725	60	170	x	
33	20	180	x	
71	30	140	20	x
76	10	90	30	x
81	50	130	30	
84	20	110	20	x
4800	x	90	20	
13	10	150	30	
16	30	350	x	
21	x	150	10	x
38	60	200	20	
48	20	100	x	
71	20	80	20	
81	x	90	20	
99	10	80	20	x
4968	x	230	30	x
77	x	170	10	
5007	100	240	20	
26	130	130	x	
27	140	110	x	
39	30	100	x	
54	Missing			
52	180	150	x	
55	40	100	x	
72	160	100	x	
73	140	90	x	
90	10	60	20	
93	40	90	20	
98	40	110	20	
5103	30	100	20	
23	130	80	x	

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E. J. Bruce

DATE September 23, 1968

X-RAY ASSAY LABORATORIES

LIMITED

46 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 1774

TO.
Geophoto Services Limited,
706- 6th. S. W.,
CALGARY, ALBERTA.

RECEIVED September 11, 1968 INVOICE NO. 3166

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Zn ppm	Pb ppm	Mo ppm
Y-5126	150	210	20	
28	140	90	x	
49	50	100	20	
53	40	130	x	
83	60	80	x	
84	80	90	20	
92	20	40	30	
5222	60	180	x	
44	60	190	x	
47	130	380	x	
55	20	60	20	
56	20	80	20	
5353	70	120	10	
55	90	100	x	
65	50	90	x	
68	20	40	x	
5414	10	130	x	
31	40	90	x	
46	50	480	20	
47	70	200	20	
60	40	80	x	
78	50	100	x	
85	40	110	10	
94	30	190	x	
5518	20	70	x	
53	60	90	x	
61	40	50	x	
64	80	150	x	
65	70	100	10	
79	110	50	x	
86	50	110	x	
91	50	60	x	
5611	30	70	x	
26	30	150	x	
29	40	120	10	

31

X-RAY ASSAY LABORATORIES LIMITED

DATE September 23, 1968 CERTIFIED BY

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 1774

TO.
Geophoto Services Limited,
706- 6th. S. W.,
CALGARY, Alberta.

RECEIVED September 11, 1968 INVOICE NO. 3166

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Zn ppm	Pb ppm	Mo ppm
Y-5989	20	70	x	
92	40	70	x	
6000	20	50	10	
04	20	60	20	
16	70	130	x	
35	30	70	10	
38	20	50	x	
41	40	70	x	
49	20	70	x	
53	30	70	x	
61	20	50	10	
67	20	100	x	
70	20	60	20	
83	10	40	x	
92	30	50	x	
6100	10	60	x	
29	40	80	x	x
32	30	60	10	x
45	40	120	10	
51	40	200	20	
56	30	80	20	
59	40	80	10	
64	60	180	x	
67	50	160	20	
74	50	90	20	
79	40	90	x	
89	30	80	20	
6203	40	110	x	
11	30	70	x	x
13	120	90	10	x
14	40	80	10	x
22	20	60	10	
24	20	80	x	
31	20	60	10	
37	20	70	10	

31

X-RAY ASSAY LABORATORIES LIMITED

DATE September 23, 1968 CERTIFIED BY E. Brooks

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 1774

TO.
Geophoto Services Limited,
706- 6th. S. W.,
CALGARY, Alberta.

RECEIVED September 11, 1968 INVOICE NO. 3166

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Zn ppm	Pb ppm	Mo ppm
Y-6253	40	80	10	
64	80	100	x	
70	40	90	x	
80	20	40	x	
84	40	120	10	
91	30	70	x	
96	40	70	10	
6303	60	110	x	
09	70	220	x	
16	40	120	x	
18	50	60	x	
21	90	140	10	
23	60	60	10	
40	20	90	10	
46	50	170	20	
64	30	160	30	
74	40	70	x	
76	50	80	x	
I- 1	110	180	50	
2	170	230	50	
3	90	900	60	
5	100	440	80	
7	60	270	60	
J-1	120	900	30	
3	100	260	x	
5	120	300	x	
6	110	340	10	
7	100	380	x	
No number	90	120	10	

x - less than 10 ppm

29

X-RAY ASSAY LABORATORIES LIMITED

CERTIFIED BY E. J. Brooke

DATE September 23, 1968

X-RAY ASSAY LABORATORIES

LIMITED

45 LESMILL ROAD DON MILLS ONTARIO 445-5755

Certificate of Analysis

NO. 1774

TO.
Geophoto Services Limited,
706- 6th. S. W.,
CALGARY, ALBERTA.

RECEIVED September 11, 1968 INVOICE NO. 3166

SAMPLE(S) OF soils SUBMITTED TO US SHOW RESULTS AS FOLLOWS:

Sample	Cu ppm	Zn ppm	Pb ppm	Mo ppm
Y-5631	60	330	20	
42	40	180	x	
48	20	70	x	
56	130	1100	40	
64	70	1050	10	
70	40	520	20	
89	40	70	x	
5702	30	60	x	
05	20	40	x	
13	30	50	x	
45	80	180	50	
89	20	70	x	
91	30	90	20	
5809	30	50	x	
20	20	60	10	
41	60	470	20	
51	40	70	10	
63	140	220	40	x
64	60	160	20	x
84	150	2000	170	
88	40	200	70	
92	10	40	30	
90	no sple			
96	50	300	20	
99	20	50	20	x
5904	10	60	x	
07	20	70	x	
23	90	170	10	
25	40	190	10	
26	70	430	40	
27	60	200	40	
29	100	190	20	
30	60	260	40	
32	40	160	10	
33	50	160	50	

34

X-RAY ASSAY LABORATORIES LIMITED

34

CERTIFIED BY E. J. Brooks

DATE September 23, 1968

PACIFIC PETROLEUMS LTD.
#408 - 58[illegible] Granville Street,
Vancouver 2, B.C.

July 15, 1971.

Mr. E. J. Joudrie,
Ashland Oil Canada Limited,
1900 Standard Life Bldg.,
639 - 5th Ave., S. W.
Calgary 1, Alberta.

Re: Beisel Claim Group

Dear Mr. Joudrie:

Please find attached hereto Log for D. D. H. #1 on the above-mentioned project.

Yours truly,
PACIFIC PETROLEUMS LTD.

E. B. Rowe per RB

ebr/vb

Encl: (1)

cc: Fred Perry - Gulf Minerals Canada Ltd.,
C. E. Cleveland - Calgary

MEMORANDUM
GULF D-3-A

DATE July 20, 1971

TO FCP

ROOM _____ BLDG. _____

- ☐ PER OUR CONVERSATION
- ☐ FOR YOUR INFORMATION
- ☐ FOR YOUR APPROVAL
- ☐ FOR YOUR SIGNATURE
- ☐ FOR YOUR COMMENTS
- ☐ FOR DISCUSSION
- ☐ PER YOUR REQUEST
- ☐ FOR DISTRIBUTION
- ☐ FOR YOUR FILE
- ☐ PLEASE SEND ME FILE

PLEASE RETURN TO: _____

FOR ACTION: _____

REMARKS:

This is DDH #1 drilled on site of proposed DDH #2 on anomaly B, the northwestern most IP anomaly. Only minor pyrite is present. Rocks are andesite, rhyolite, quartz eye schist and quartz veins. Depth 500 feet NOTHING. Assays are attached & plotted Aug 26/71

HDK

PACIFIC PETROLEUMS LTD.
#408 - 580 Granville Street,
Vancouver 2, B.C.

July 23, 1971.

Mr. H. E. Joudrie,
Ashland Oil Canada Limited,
1900 Standard Life Bldg.,
639 - 5th Ave., S. W.
Calgary 1, Alberta.

Kelsal Drilling

Dear Mr. Joudrie:

Enclosed please find copy of assay results for samples from D.D. H. #1, also a chart showing progress and drill contractor's expenses to July 15th.

results attached to log and plotted

Yours truly,
PACIFIC PETROLEUMS LTD.

R B Rowe

rbr/vb

R. B. Rowe

Enclosures.

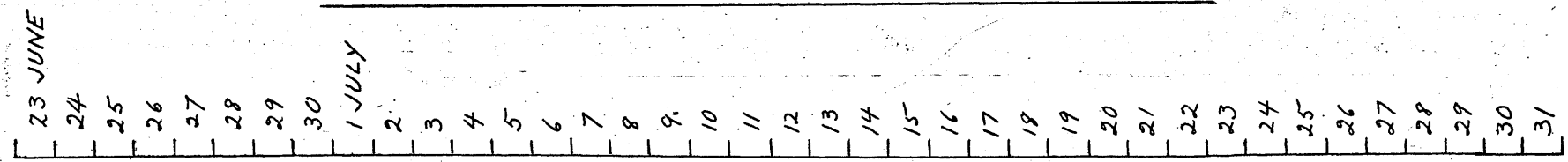
copies to: Mr. F. C. Perry
Gulf Minerals Canada Ltd.

C. E. Cleveland

DDH # 1

Gulf

KELSAL DRILLING — TIME FLOW



Move-in from Haines Rd. and set-up at site of D.D.H. #1

Drilling D.D.H. #1

Move to and set-up D.D.H. #3

Drilling D.D.H. #3

Move to and set-up D.D.H. #2

Drilling D.D.H. #2

Average of portable 5 days
" more 1½ days

DRILLING COST
AS PER CONTRACTOR'S INVOICE

$15,804.15 for 1,126' = 14.04 per foot (includes all costs)

$14.0355

RBR.

DDH #1

This is proposed DDH-2 on account B.

Sheet 1 of 4

Date 07 JULY 71
Project KELSAL CLAIMS
N.T.S. 114 Lat. _____ Long. _____
Geologist W D Cowan
Time-Day Start Hole 2000-01-07
Month. Finish Hole 2000-06-07

Hole No. ONE
Length 500 ft. Bearing (Mag. or True) 045° Inclination -61°
Collar Elv. 3015 MSL Core Size BQ
Length Casing 40 ft. Drill No. _____

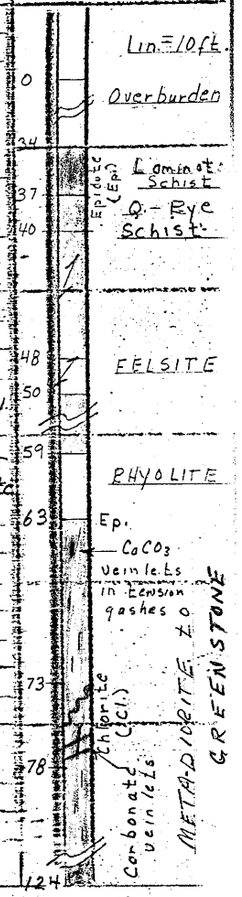
Co-ord. Line (Northings) 16+83S Sta. (Eastings) 3+80

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST. GR. % Pyrite	VIS. EST. GR. sample footage	ASSAYS Sample No.	ASSAYS oz/ton Au	ASSAYS Ag.	ASSAYS Cu%
0.0										
34.0			34.0	41	1	34 - 41	59476C	Trace	0.01	0.01
37.0	2.0	66	41	46		41 - 46	59477C	0.005	0.05	0.01
39.0	2.0	66	41	54	2±0.5					
44.0	4.5	90								
47.0	3.0	75	54	59	1	46' 51'	59478C	Tr.	.1	.01
52.0	5.0	100								
54.0	1.0	50				51 56	59479C	Tr.	.07	.01
57.0	3.0	100								
58.0	1.5	80				56 60	59480C	.005	.1	.01
62.0	1.6	80								
66.0	3.6	90								
67.0	0.8	80								
70.0	3.0	100								
72.0	1.5	75								
75.8	3.5	95								
77.6	1.5	95								
82.9	5.3	100								
87.6	4.7	100								
98.4	9.5	90								
106.6	7.6	100								
113.0	6.0	90								
121.0	7.0	90								
123.9	1.0	30								
133.4	9.0	95								
138.0	4.5	95								
142.0	3.5	90								
143.6		80								
148.6		100								
150.0	0.8	50								

DESCRIPTION OF

ALTERATION ~~Ore Minerals~~	~~Alteration~~ Rock Type
	LAMINATED SCHIST
36-40 : Epidote and Calcite in small ellipsoidal masses in Quartz Porphyry and Dacites.	34-37 : ^ : Blue-green color. Schistose structure. Banded texture in places. Aphanitic ground-mass contains 5% small angular grains of bl/sc-quartz. Pyrite occurs as very narrow bands 11 to schistosity (Tuff on Geological Map)
	37-40 : QUARTZ "EYE" SCHIST. Blue-gray color. Porphyritic fabric. Ground mass aphanetic - 70% Chlorite and 30% Quartz.
	40-48 : Laminated Schist : ∠40° 11 Schistosity
	48-50 : FELSITE DYKE. White color. Fine grained. 95% Feldspar 5% Pyrite. Slickensided Surface with core-angle 35° (∠35°)
	50-59 : Laminated SCHIST
63. Epidote ¼ in. bands.	59-63 : RHYOLITE : Blue-gray color. Banded - aphanitic texture (Cherty appearance).
73 — 77.6 : Chloritization. Rx friable and slickensided.	63 - 186 : META-DIORITE TO GREENSTONE
Carbonate veins and	

DIAGRAM OF CORE

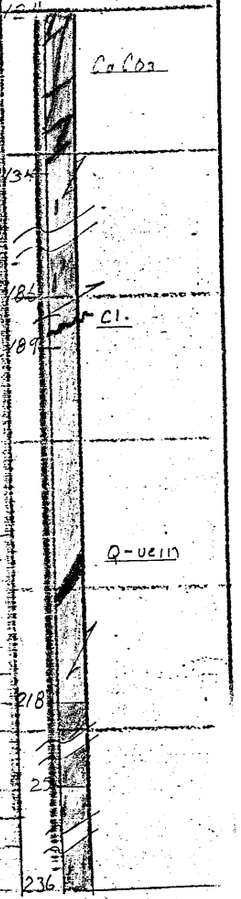


Date 07 JULY 71
Project KELSAL CLAIMS
N.T.S, ____ Lat. ____ Long. ____
Geologist W.D Cowan
Time-Day Start Hole 2000-01-07
Finish Hole 2000-06-07

Hole No. ONE
Length ____ Bearing (Mag.or True) ____ Inclination ____
Collar Elv. ____ Core Size ____
Length Casing ____ Drill No. ____
Co-ord. ____

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST. GR. % Pyrite	Sample footage	ASSAYS Sample No.	Au oz/ton	Ag oz/ton	Cu %	DESCRIPTION OF Alteration Ore Minerals	DESCRIPTION OF Alteration	DESCRIPTION OF Rock Type
155.0	4.5	90									associated breccia 5% of Rx. ∠40°	Green to dark green foliated and medium to fine grained.	
157.0	1.5	75										Feldspar, epidote and calcite: 55%	
159.0	1.5	70									124-134	Chlorite and hblende 40%.	
160.0		50									carbonitization.	small quartz grains 5%	
162.0	1.5	80									Calcite ∥ veinlets	∠40° ∥'l to schistosity.	
164.0	1.5	80									and veinlets ∥'l	Small tension cracks filled	
168.0	2.5	60									to schistosity and	with calcite < 1% of Rx	
172.0	3.0	70									at 60°. 1-10% Rx	Disseminated euhedral	
176.0	4.0	100									Minor ∥ veinlets	pyrite < 1% Minor pyrite	
177.6	1.6	100									of quartz.	in ∥ veinlets.	
181.6	3.8	90											
182.6	1.0	100										63-84 Fine grained	
184.6	1.5	75										84-113 Crse grained	
186.0	1.4	100	186	196	1						186-189: Chlorit-	113-132 Med grained	
188.5	1.5	60				186' 196'	59481	C	Tr.	Tr.	.01	ization. Rx	132-186 Fine grained
190.9	1.8	60									friable and slicken-		
194.0	2.5	60									sided.		
201.4	4.0	45										186-218: QUARTZ "EYE" SCHIST	
203.0	0.5	25										Gre.-green-green color.	
205.6	2.2	90										Porphyritic fabric. Matrix: banded,	
206.9	1.0	50										foliated-aphanitic texture.	
211.0	3.5	75	212		5	211.5 212.5	59482	C	Tr.	Tr.	.01	212-213.5: 2in	Rx 25% ellipsoidal quartz grains
216.0	4.5	90										Quartz vein. Milky	up to 0.5in. 1% Pyrite in
218.4	2.5	90										white quartz 60%	∥ bands ∥'l to foliation.
221.2	2.6	80										Calcite 15% Chlorite	
223.3	2.0	95										20% Pyrite 5%	Rock is 75% Chlorite.
224.6	1.0	95											
226.9	1.2	50											
228.6	1.8	50											
230.8	1.0	60											

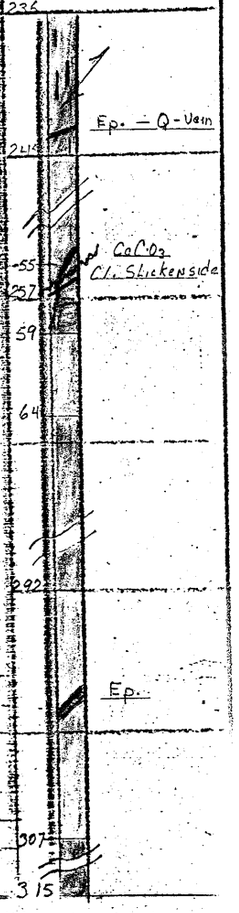
DIAGRAM OF CORE



Date 07 JULY 71
Project KELSAL CLAIMS
Hole No. ONE
Co-ord.
N.T.S. Lat. Long.
Length
Bearing (Mag. or True)
Inclination
Geologist W.D. COWAN
Collar Elv.
Core Size
Time-Day Start Hole 2000-01-07
Finish Hole 2000-06-07
Length Casing
Drill No.

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST. GR. %	VIS. EST. GR. oz/t	Sample footage	Sample No.	ASSAYS Au oz/tn	Ag oz/tn	Cu %	DESCRIPTION OF Ore Minerals	Alteration	Rock Type
233.0	1.0	30											218 — 225:	META-DIORITE
235.0	1.5	75											225 - 236:	QUARTZ 'EYE' SCHIST
237.0	1.5	75										244 2in epidote enveloping Dn Q-vein	236 - 245:	META-DIORITE ∠44 @ 242'
240.9	3.5	90											245 — 257:	QUARTZ 'EYE' SCHIST
243.5	2.5	100										255—257: $CaCO_3$ veinlets 5 to 10% Rx. Slickensides and chloritization.	257 - 259:	META-DIORITE
247.3	3.5	90											259 - 264:	QUARTZ 'EYE' SCHIST
249.0	1.5	75											264 - 292:	META-DIORITE
253.4	4.0	85												
256.6	2.0	60												
261.6	5.0	100												
263.6	0.5	25												
266.0	2.0	60												
268.0	1.5	70												
271.0	1.5	50												
274.0	2.0	70												
275.0	0.5	70	275	278	1		275 278	59483 C	Tr.	Tr.	.01			
275.6	0.5	100												
278.0	1.5	50												
292.0	1.0	50												
293.5	2.5	80												
284.6	0.3	50												
286.0	1.4	100												
289.2	2.2	90												
294.5	5.0	80	294	300	1		294 300	59484 C	Tr.	Tr.	.01	—	292 - 307:	QUARTZ 'EYE' SCHIST
300.9	5.0	85	295		2							299.5 — 300.5: Rx 50% Epidote in band ll'l to foliation.	5-10% phenocrysts. Massive aphenetic texture.	
304.9	4.0	95												
308.0	2.5	60												
311.2	3.0	90											307 — 320:	GREENSTONE
316.0	4.0	75												
320.8	4.0	75												

DIAGRAM OF CORE



Sheet 4 of 4

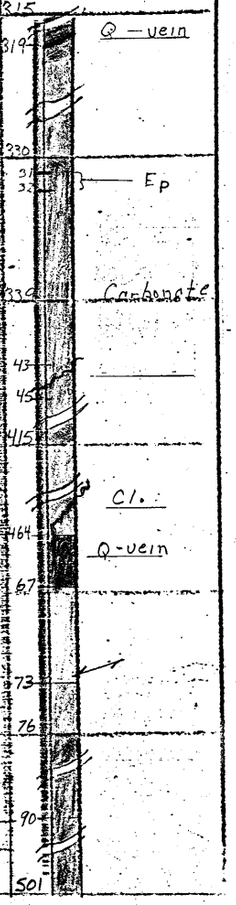
Date 07-JULY 71
Project KELSAL CLAIMS
Hole No. ONE
Co-ord.
N.T.S. Lat. Long.
Length
Bearing (Mag. or True)
Inclination
Geologist W. D Cowan
Collar Elv.
Core Size
Time-Day Start Hole 2000-01-07
Finish Hole 2000-06-07
Length Casing
Drill No.

LENGTH HOLE	CORE Len.	% Rec.	INTERVAL Fr.	To	VIS. EST. GR. %	Rel.	Sample footage		ASSAYS Sample No.		Au oz/ton	Ag oz/ton	Cu %
324.0	3.0	90											
330.0	4.5	70	327.0	338	1 to 2		327	331	59485	C	Tr.	Tr.	.02
334.0	3.5	80											
336.6	2.5	90	337	340	1		336	340	59486	C	Tr.	Tr.	.01
339.6	2.1	70											
430	3.0	70	340	345	2		340	345	59487	C	Tr.	Tr.	.01
476	3.0	65					345	350	59488	C	Tr.	.01	.01
355.0	6.0	70	345	355	2 to 5		350	355	59489	C	Tr.	Tr.	.01
59.0	3.0	75											
64.0	1.0	20											
69.0	4.0	70											
376.0	5.0	70											
380.0	4.0	100											
84.8	4.8	100											
388.8	4.0	100											
94.0	3.5	50											
99.0	3.5	50											
406.0	3.5	50											
410.4	3.5	70											
415.0	4.5	95											
419.4	3.5	80											
425.4	3.5	50											
428.4	1.0	30											
435	3.0	20											
440	3.0	60											
444.6	3.0	65	464	473	1								
471.0	19.5	60											
485.6	13.5	85											
501.	15.0	95											
TOTAL	377.4	75.1											

DESCRIPTION OF

~~Alteration Ore Minerals~~	~~Alteration~~	Rock Type
319: Q-vein 3in. with associated Epidote	320-330: 5-10% Small phenocrysts. Massive aphenetic texture.	QUARTZ 'EYE' SCHIST
331-332: Epidote + Calcite veinlets 5-10% Px	330-415: META-ANDESITE ∠54°	META-DIORITE to
At: 335, 337 to 338	330 - 336	meta-diorite
	336 - 381	Meta-andesite
	381 - 410	Meta-diorite
339-341: Carbonate veins 5-10% Px	410 - 415	Meta-andesite
343-345: Chlorite and slickensides:	415 - 464:	QUARTZ 'EYE' SCHIST SCHIST
Carbonatization - 350, 358, 365, 375 377, 383, 388, 399 409	464 - 473: LAMINATED-Banded - aphenetic foliation.	texture. Intense ∠72° @ 420°
	40% Chlorite	40% Felsite 20% Quartz
	473 - 476:	QUARTZ 'EYE' SCHIST
447 - 464: Chloritized friable and slicken sided.		
464 - 467: Quartz veining.		
	476 - 490:	GREENSTONE ∠72°
	490 - 501:	META-DIORITE

DIAGRAM OF CORE



B.C - Kelsal Claim gp. DDH #1

Gulf

BONDAR-CLEGG & COMPANY LTD.

geochemists ● assayers ● analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.
PHONE: 988-5315 TELEX: 04-54554

RECEIVED
JUL 23 1971
VANCOUVER OFFICE
Minerals Exploration

CERTIFICATE OF ASSAY

TO Pacific Petroleums Ltd.
308 - 580 Granville St.
Vancouver, B. C.

Report Number A 21-385
Samples Received July 14, 1971
Results Completed July 21, 1971

I hereby certify that the following are the results of assays made by us upon the herein described Core samples.

MARKED	GOLD		SILVER	Cu							TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
							D.D.H. #1				
Core											
59476C	Trace		0.01	0.01	34.0 - 41.0'						
59477C	0.005		0.05	0.01	41.0 - 46.0'						
59478C	Trace		0.10	0.01	46.0 - 51.0'						
59479C	Trace		0.07	0.01	51.0 - 56.0'						
59480C	0.005		0.10	0.01	56.0 - 60.0'						
59481C	Trace		Trace	0.01	186.0 - 196.0'						
59482C	Trace		Trace	0.01	211.5 - 212.5'						
59483C	Trace		Trace	0.01	275.0 - 278.0'						
59484C	Trace		Trace	0.01	294.0 - 300.0'						
59485C	Trace		Trace	0.02	327.0 - 331.0'						
59486C	Trace		Trace	0.01	336.0 - 340.0'						
59487C	Trace		Trace	0.01	340.0 - 345.0'						
59488C	Trace		0.01	0.01	345.0 - 350.0'						
59489C	Trace		Trace	0.01	350.0 - 355.0'						

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Gold & Silver values reported on these sheets have not been adjusted to compensate loses and gains inherent in fire assay methods.

Gold calculated at $.....per ounce

Registered Assayer, Province of British Columbia

PACIFIC PETROLEUMS LTD.
#408 - 580 Granville Street,
Vancouver 2, B.C.

August 30, 1971.

Mr. H. E. Joudrie,
Ashland Oil Canada Limited,
1900 Standard Life Bldg.,
639 - 5th Ave., S. W.
Calgary 1, Alberta.

Kelsal Claim Group - 1971 Program

Dear Mr. Joudrie:

Enclosed please find the assay report for samples from diamond drill holes #4 and #5.

Yours truly,
PACIFIC PETROLEUMS LTD.

R. B. Rowe

rbr/vb
Encls. (1)

copies to: Mr. F. C. Perry
Gulf Minerals Canada Ltd.,
Toronto

Dr. C. E. Cleveland

BONDAR-CLEGG & COMPANY LTD.

geochemists ● assayers ● analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.
PHONE: 988-5315 TELEX: 04-54554

RECEIVED
AUG 26 1971
VANCOUVER OFFICE
Minerals Exploration

CERTIFICATE OF ASSAY

TO Pacific Petroleums Ltd.
408 - 580 Granville St.
Vancouver 2, B.C.

Report No: A21-524
Samples Rec'd: Aug. 17, 1971
Results Completed: Aug. 25, 1971

I hereby certify that the following are the results of assays made by us upon the herein described 2 Core 4 Ore samples.

MARKED	GOLD		SILVER	Pt oz/ton	Cu	Zn	Ni				TOTAL VALUE PER TON (2000 LBS.)
	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
[redacted]											
[redacted]	---		---	---	[redacted]	---	[redacted]				
	---		---	---	---	[redacted]	---				
	---		---	[redacted]	[redacted]	---	[redacted]		KELSAL		
59339	Trace		0.02	---	0.11	---	---	D.D.H. #4 ; 54.5' – 55.5'			
59340	Trace		Trace	---	0.01	---	---	D.D.H. #4 ; 101' – 108'			
59341	Trace		Trace	---	0.01	---	---	D.D.H. #5 ; 35' – 36'			

L means less than

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Gold & Silver values reported on these sheets have not been adjusted to compensate loses and gains inherent in fire assay methods.

Gold calculated at $.....per ounce

Registered Assayer, Province of British Columbia

PACIFIC PETROLEUMS LTD.
#408 - 580 Granville Street,
Vancouver 2, B.C.

August 20, 1971.

H. E. Joudrie,
Ashland Oil Canada Limited,
1900 The Standard Life Building,
639 Fifth Avenue S. W.,
Calgary 1, Alberta.

F. C. Perry,
Gulf Minerals Canada Ltd.,
Suite 1300 - 10 King Street East,
Toronto 1, Ontario.

Kelsal Claim Group - 1971 Program

Gentlemen:

The drilling program was completed on August 15th.

Enclosed please find the logs for holes #4 and #5. Pyrite was the only sulphide mineral encountered.

Following our procedure with regard to the first three holes, the pyrite-bearing material was sampled and submitted for assay. Results of the assays will be forwarded on receipt.

The induced polarization anomalies can be explained by the presence of pyrite, however we are at a loss to explain the occurrence of anomalous copper and zinc in the silts and soils on the basis of the drilling results.

According to our records, the claims are in good standing until the following dates:

Kelsal #1 - #8 incl., #21 - #32 incl.,	-	July 29, 1974
Kelsal #9 - #20 incl.,	-	July 29, 1975
Kelsal Fractions #1 - #5 incl.,	-	July 30, 1976
Kelsal Fraction #6	-	Oct. 2, 1976

Cont'd./

Please let me know if you wish all or part of this year's work to be recorded for assessment purposes.

Comments regarding this year's work and ideas for future work would be greatly appreciated.

Please let me know if a meeting in this regard is desirable.

Yours truly,
PACIFIC PETROLEUMS LTD.

R. B. Rowe

rbr/vb

Enclosures.

copy to Dr. C. E. Cleveland

Gulf

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VANCOUVER OFFICE

Sheet 1 of 10

Date 31 July 71

Project Kelsol Claims

Hole No. D.D.H # 4 Mineral Co-ord. Northings: 46+99S Eastings: 19+73E

N.T.S. 114 P Lat. 59°48' Long. 136°30' Length 500 feet. Bearing (Mag. or True) N 45° E Inclination -59.5°

Geologist W.D Cowan

Time-Day Start Hole 0800 - 27 - 07 Collar Elv. 3933 MSL Core Size BQ — Wire line

Month Finish Hole 1800 - 04 - 08 Length Casing 18 feet Drill No.

LENGTH HOLE	CORE Len.	CORE % Rec	INTERVAL Fr.	INTERVAL To	VIS. EST. GR. Fe S2	VIS. EST. GR. Cu	VIS. EST. GR.	ASSAYS Sample No.	ALTERATION Ore Minerals	DESCRIPTION OF Alteration / Rock Type	DIAGRAM OF CORE
0.0										0-58: META-DIORITE.	0
										0-10: Fine grain size.	
15.6	7.0	50								15: Schistosity: 40°.	10
										14-20: Coarse grain size.	
21.6	60	95							25-26: Slickensides Rx very friable — breaks into thin laminae ll'l to foliation.		20
30.0	7.5	80							26-30: Epidote (Ep) grains and veinlets. 10% Rx.	26-30: Blue qtz grains 10% Rx.	26 Chl. Ep. 30
38.2	8.0	95							33: 1/4 in. Ep and blue qtz vein		33 Ep.
										48-52: Fine grain size, Faint foliation.	40
49.6	11.0	95	545	555		0.5		59339	55: 3in massive white quartz vein. 5% Cpy.		
										56-58: Aphanitic texture.	50
59.0	8.0	75							56-58: Ep in grains and veinlets. 5% Py.	58-61: QUARTZ-EYE-SCHIST.	55 Qtz Vein 58 Ep. 60

Date 31 July, 71
Project Kelsol Claims
N.T.S. 114P Lat. _____ Long. _____
Geologist W. D. Cowan
Time-Day Start Hole 0800 — 27 — 07
Month Finish Hole _____

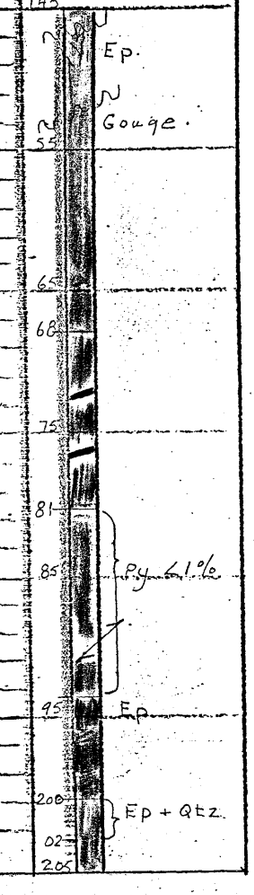
Hole No. D.D.H #4 Co-ord. _____
Length _____ Bearing (Mag. or True) _____ Inclination _____
Collar Elv. _____ Core Size _____
Length Casing _____ Drill No. _____

LENGTH HOLE	CORE Len.	CORE % Rec	INTERVAL Fr.	INTERVAL To	VIS. EST. GR. FeS_2	ASSAYS Sample No.	ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type	DIAGRAM OF CORE
59.0								61 — 63: META - DIORITE	61
									63 Ep
								63 - 69: QUARTZ - EYE SCHIST	70 Ep
67.0	6.0	65					63: Ep; 30% Rx.		
							65 - 68: Ep. veinlets 10% Rx.	69 — 101: META - DIORITE	84
80.0	5.0	30					70: Shear | 15°		90
							84: 1/4 in. blue - gray Qtz vein		
94.6	7.5	50							100
			101	108	5	5:3140	101 - 108: Py. disseminated grains and veinlets.	101 — 108: FELSITE	Felsite 5% Py.
								108 — 168: META - DIORITE	110
101.0	4.5	65					114 - 116: Ep + Calcite veinlets: 20% Chl laminae 50%		114 Ep., Calcite
									116
							118 - 120: Gouge S's ide | 10°		Gouge
115.6	6.0	45							120 Ep
							122 - 124: Ep 20% Py 2% envelope white Qtz vein		123 Ep, Py
124.0	0.0	85							130

Date 31 July 71
Project Kelsal Claims
Hole No. D.D.H. #4
Co-ord.
N.T.S. 114 P Lat. Long.
Length
Bearing (Mag. or True)
Inclination
Geologist W.D. Cowan
Collar Elv.
Core Size
Time-Day Start Hole
Month Finish Hole
Length Casing
Drill No.

LENGTH HOLE	CORE Len.	% Rec.	INTERVAL Fr.	To	VIS. EST. GR.	ASSAYS Sample No.	ALTERATION Ore Minerals	DESCRIPTION OF Alteration	Rock Type
124.0									
129.0	4.5	90					147-147.5: Gouge Ep 20% Calcite veinlets 10%		
146.0	17.0	95					153-154: Gouge and Slickse.		
								168 — 181: GREENSTONE	
154.0	6.5	70						1% disseminated pyrite.	
163.2	7.0	80					172: 1/4 in. Qtz vein	5% " veinlets, quartz	
168.0	3.5	65					177: 1/2 in Qtz vein	5% epidote grains.	
							181-194: Diss. grains and veinlets of Py < 1%	181 - 194: META-DIORITE	
175.0	5.0	65						Schistosity | 40°	
								194 - 200: LAMINATED SCHIST	
182.6	7.5	95					194.5 - 195: Qtz veinlets and grains in matrix of Ep (60%) Py 2%.	Schistosity | 50°	
								195 - 196: Epidote leucophyre	
188.0	5.0	90					195 - 196: 50% Ep Minor Calcite in fracture 20% Qtz veins.	196 - 197: "Quartz Eye" in aphanitic matrix	
196.0	7.5	90					197 - 198.5: Massive white Qtz vein.		
204.0	7.5	90							

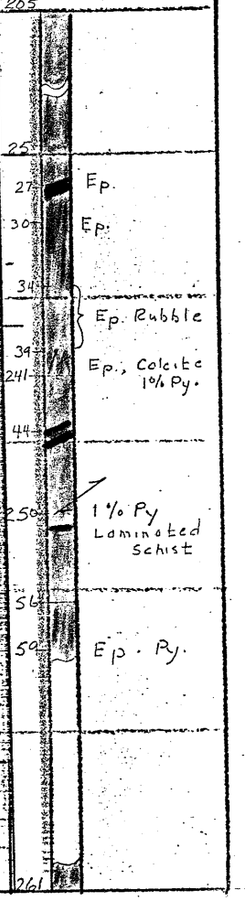
DIAGRAM OF CORE



Date 5 August 71.
Project Kelsol Claims
Hole No. D.D.H # 4
Co-ord.
N.T.S. 114P Lat. Long.
Length Bearing (Mag.or True) Inclination
Geologist W. D. Cowan
Collar Elv. Core Size
Time-Day Start Hole
Month. Finish Hole 1830 – 04 – 08
Length Casing Drill No.

LENGTH HOLE	CORE Len.	CORE % Rec	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
								200 – 225: META – DIORITE
213.0	9.0	95					200–202: Ep pervasive 60%. Qtz veinlets 20%.	
219.0	4.5	70						225 – 241: GREENSTONE.
							227–229: Qtz veinlets (20%) in Ep (80%)	225–229: "Quartz-eyes" in aphanitic matrix.
230.0	5.0	40					230: 6 in. Ep. veinlet.	
							234–239: Epidotized rubble.	
239.8	5.0	50						
							239–241: Calcite and Ep veinlets 10% Py 1%.	
246.4	6.0	85						241 – 256: META – DIORITE
							244: 2 in. Qtz vein.	250: ∠ 55° Schistosity
							245.5: 6 in. Qtz vein	251 – 252: Laminated Schist.
253.0	4.5	60					250.0: 1% Py.	
								256 – 260.8: GREENSTONE.
							259: 6 in. Ep with 2% Py. in laminae.	
260.8	5.5	65						

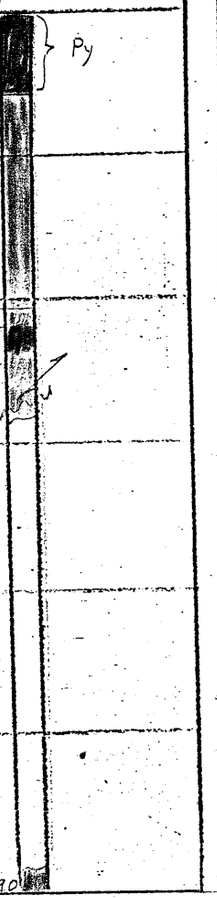
DIAGRAM OF CORE



Date 5 August 71
Project Kelsall Claims
Hole No. DDH #4
Co-ord.
N.T.S. 114P Lat. Long.
Length
Bearing (Mag. or True)
Inclination
Geologist W D Cowan
Collar Elv.
Core Size
Time-Day Start Hole
Finish Hole
Length Casing
Drill No.

LENGTH HOLE	CORE Len.	CORE % Rec	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	DESCRIPTION OF ~~Alteration~~ ALTERATION ~~Ore Minerals~~	DESCRIPTION OF Rock Type
260.8							261-265: Disseminated Py.	260.8 - 265: QUARTZ-EPIDOTE ROCK shaped Pale green irregularly masses and grains of quartz in an aphanetic Epidote matrix. Composition. Epidote 70 to 50% Quartz 30 to 50%
265.0	0.5	12						265-281: META-DIORITE
272.0	6.0	75						265-267: Greenstone, aphanetic texture.
276.0	3.5	80						270-275: Coarse texture.
279.0	3.0	100						275-281 Aphanetic texture.
289.0	5.0	50						281-285: LAMINATED SCHIST.
301.6	6.0	50						283-84: Qtz-Ep. Px
								285-290: META-DIOPITE
								285-87: Greenstone Schist /-50° Medium texture, Amygdule filled with dark brown material.

DIAGRAM OF CORE

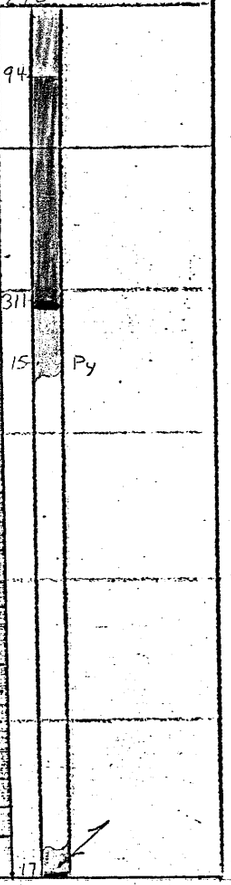


Date 5 August 71.
Project Kelsol Claims
N.T.S. 114P Lat. _____ Long. _____
Geologist W.D. Cowan
Time-Day Start Hole _____
Finish Hole _____

Hole No. D.D.H # 4
Length _____ Bearing (Mag. or True) _____ Inclination _____
Collar Elv. _____ Core Size _____
Length Casing _____ Drill No. _____

LENGTH HOLE	CORE Len.	CORE % Rec	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
								290 - 294 : GREENSTONE.
								1% ppy. vitreous luster.
								Gradational contact with Qtz-Ep Py.
								294 - 311 QTZ. — EP. ROCK:
								Agglomerate ?? Fragments of Qtz-Ep-leucophyre in Qtz-Ep-Py. Enveloped by laminae of meta. diorite and Qtz-Eye-schist.
								294 - 300 : Qtz-Ep. Rx
301.6								301 : Irregularly shaped masses of Ep (1in) in siliceous aphanetic matrix.
								301.5 : Qtz-Eye Leucophyre.
308.6	6.5	90						302 - 311 : Qtz-Ep. leucophyre and laminae of Qtz-Eye schist.
311.8	2.5	75						
							312 : 1/4 in Qtz vein	311 - 317 : LAMINATED SCHIST.
317.0	4.5	80						
							316 : 5% Py.	317 : Schistosity / 50°
								6 in Qtz-Ep. Rx. — Volcanic bomb ??

DIAGRAM OF CORE

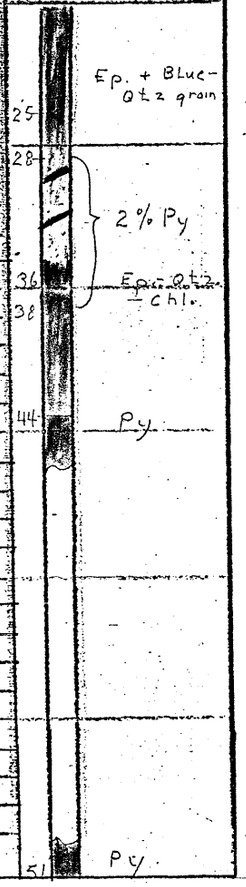


Sheet 7 of 10

Date 5 August 71.
Project Kelsal Claims
Hole No. D.D.H # 4 Co-ord.
N.T.S. 114P Lat. Long. Length Bearing (Mag.or True) Inclination
Geologist W.D Cowan Collar Elv. Core Size
Time-Day Start Hole Length Casing Drill No.
Finish Hole

LENGTH HOLE	CORE Len.	CORE % Rec	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
317.0								317 – 336 : GRAY FELSITE
322.0	4.5	90						317 – 325 : Irregular masses of Ep. and small Qtz grains in siliceous matrix.
23.5	1.5	100						
26.0	1.0	40						
								325 – 28 : Laminae of Qtz, Ep and felsite.
339.8	13.0	95					328 – 38 : 2% Py.	328 – 36 : Laminae of Ep. 20% Felsite 70% – with small
							329 – 332 : 2 @ 6in white Qtz veins	Qtz grains and Chlorite 8% Py in laminae 2%
344.6	4.5	95						
							344 – 351 : Py in laminae.	336 – 344 : META-DIORITE
								336 – 37 : Vitreous green-grey 10% small blue-Qtz grains.
353.0	6.5	70						
								344 – 351 : GREENSTONE
								Qtz-Ep. laminae 10% Ep grains 5%. Small (1/8 in) blue-Qtz grains (5%). 1% Ep 3% Py in laminae.

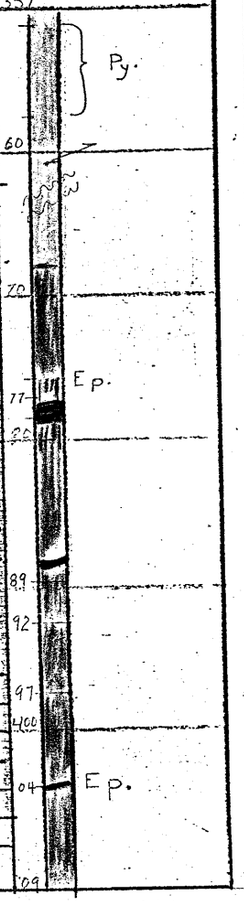
DIAGRAM OF CORE



Date 5 August 71
Project Kelsal Claims
Hole No. D.D.H #4
Co-ord.
N.T.S. Lat. Long.
Length
Bearing (Mag. or True)
Inclination
Geologist W.D. Cowan
Collar Elv.
Core Size
Time-Day Start Hole
Finish Hole
Length Casing
Drill No.

LENGTH HOLE	CORE Len.	CORE % Rec	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	DESCRIPTION OF ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
353.0								351 - 360.5 : LAMINATED SCHIST.
							352 - 358 : 1 - 2% disseminated Py.	354 - 58 : Lenticular Schist Lenticular masses of meta-diorite enveloped by relsite laminae 40% meta-diorite and 60% relsite.
361.6	7.0	80						
365.0	3.5	85						
								360.5 - 389 META-DIORITE.
370.0	5.0	100						
73.0	1.5	60					375-76 : Epidotization of Feldspar - Lt. green colour.	360.5 - 68 : Greenstone Schist 70°
								372 - 75 : Greenstone. Blue - Qtz grains.
377.0	3.5	80						377 - 78 : Qtz - Ep - Py. - Bomb P
81.0	3.8	95					388 : Hm. massive white Qtz-veins.	389 - 392 : GREENSTONE.
								Vitreous luster. Foliated. Blue-gray Qtz. grains.
388.0	7.0	100						
								392 - 397 : META - DIORITE
396.3	8.0	95						Light - Grey.
400.0	3.5	95						397 - 409 : GREENSTONE.
404.9	3.5	65					404. Qtz-Ep Laminae - Qtz vein.	401 - 02 : Blue - Qtz grains
411.2	6.0	95						

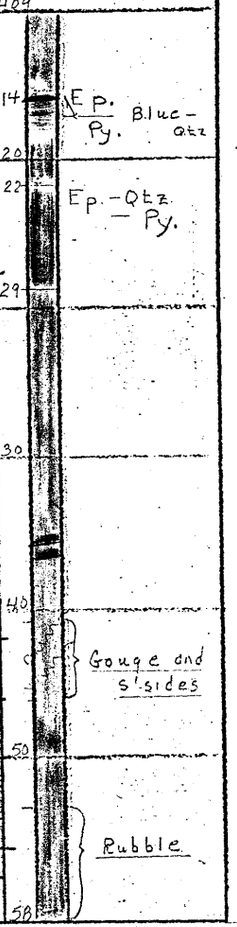
DIAGRAM OF CORE



Date 5 August 71
Project Kalsal Claims — Hole No. D.D.H # 4 — Co-ord.
N.T.S. 114P — Lat. — Long. — Length — Bearing (Mag.or True) — Inclination
Geologist W.D. Cowan — Collar Elv. — Core Size
Time-Day Start Hole — Length Casing — Drill No.
Finish Hole

LENGTH HOLE	CORE Len.	CORE % Rec	INTERVAL Fr.	INTERVAL To	VIS. EST.GR.	ASSAYS Sample No.	ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
411.2								409 — 422: META-DIORITE
								413 — 4: Aphanitic, blue-qtz-grains.
418.8	7.5	95					414 - 415.5: Qtz-Ep. Rx.	415.5 — 418.0: Aphanitic, blue-qtz grains and laminae 1-2% Py.
422.0	3.0	95						
428.6	2.5	40						422 — 428.6: GREENSTONE
								422 — 23: 20% Ep. and Qtz "Eye" 2% Py. Ptygmatic Qtz veinlets
438.0	8.0	85						424 — 35: Nitrous luster. 50% laminae of Qtz. enveloping greenstone.
443.6	4.5	75						428.6 — 449.5: META — DIORITE.
							436 and 437: 2 in. Massive white Q-veins.	
449.0	3.0	50					441 — 46: Gouge and Slickensides	
								449.5 — 457.5: GREENSTONE
457.6	7.5	85					454.5 — 57.5: Rubble.	

DIAGRAM OF CORE

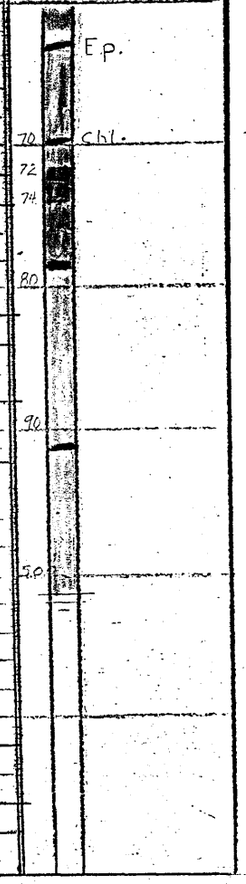


Sheet 1 of 10

Date 5 August 71
Project Kelsal Claims
Hole No. D.D.H # 4
Co-ord.
N.T.S. 114P Lat. Long.
Length Bearing (Mag. or True) Inclination
Geologist W.D. Cowan
Collar Elv. Core Size
Time-Day Start Hole
Finish Hole
Length Casing Drill No.

LENGTH HOLE	CORE Len.	CORE % Rec	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	DESCRIPTION OF ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
457.6								457.5 — 469 : META-DIORITE.
							462.2 : 2 in Qtz — Ep vein.	
								469 - 474 : GREENSTONE.
469.2	7.5	85					469-70 : Qtz veins with Chlorite envelopes.	
								474 - 500 : META-DIORITE
477.2	60	100					472-74 : Qtz - Ep laminae.	477-79 : Aphanitic.
								493 - 500 Very Crse
							477.5 — 478.5 : Qtz - Ep laminae	END
486.0	7.5	75						
							492 : 1/4 in Qtz vein with Ep alteration envelopes	
500.4	14.0	95						

DIAGRAM OF CORE



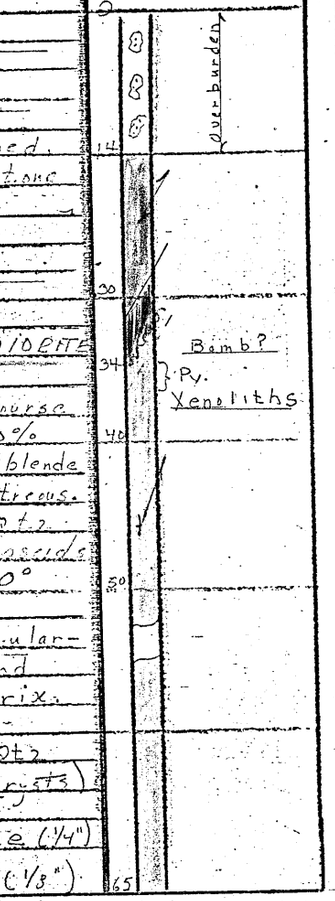
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Minerals Exploration

Sheet 1 of 10

Date 10 August 71
Project Kelsol Claims
Hole No. D.D.H #5
Co-ord. 42+51S and 3+78W
N.T.S. 114P Lat. 59°52'20" Long. 136°31'15" Length 500 feet Bearing (Mag. or True) N 35° E Inclination 45°
Geologist W. D. Cowan.
Collar Elv. 3130 M.S.L. Core Size BQ Wireline
Time-Day Start Hole 0800 - 23-08
Finish Hole
Length Casing 18 feet Drill No.

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST. GR. FeS_2	ASSAYS Sample No.	DESCRIPTION OF ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
0.0	~	~						0-14. OVERBURDEN
14.0	~	~						14-30. META-DIORITE
19.0	3.5	75						Dark green, fine grained, pebble. Contact Greenstone L 30°. Schistosity L 30°
24.0	4.5	90						30 — 34: GREENSTONE.
25.5	1.4	95					33-34: Gouge Laminae 1/4" Blue-Qtz. Shear L 30°	
31.0	4.0	80						34 — 64.4 LIGHT-GREEN DIORITE
33.0	1.8	90						Light green, medium to course grain. 70% felsic and 30% mafic (H'blende) minerals. H'blende is unaltered, and feldspar is vitreous. Slight foliation. < 20% Qtz. in round grains and ellipsoids at edges. Schistosity L 20°
			350	36.5	10	59341	35. — 36.5: Py.	
34.0	~9	90						34: Ellipsoidal and irregularly shaped masses of Qtz and felsite in a Diorite matrix.
36.0	1.8	95						35: 2in Rhyolite (white, Qtz. and Orthoclase phenocrysts) Allothogenous.
38.3	2.0	95						35. — 36.5: Siliceous laminae (1/4") and laminae as per 34. (1/8")

DIAGRAM OF CORE

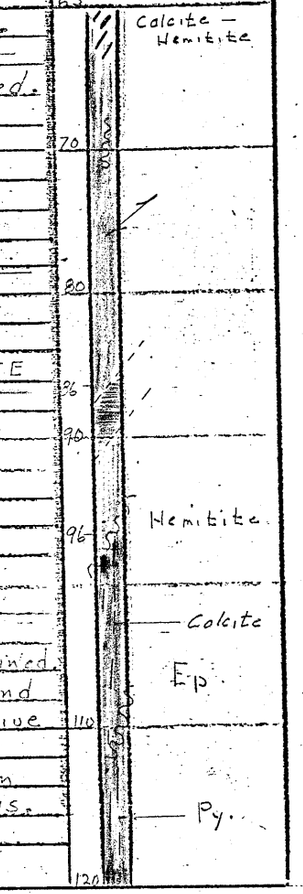


Date 12 August 71
Project Kelsal Claims
N.T.S. _____ Lat. _____ Long. _____
Geologist W. D Cowan
Time-Day Start Hole _____
Finish Hole _____

Hole No. DDH #5
Length _____
Collar Elv. _____
Length Casing _____
Co-ord. _____
Bearing (Mag. or True) _____
Inclination _____
Core Size _____
Drill No. _____

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
38.3	~	~						64.4 – 85.8: META-DIORITE.
64.4	25	95					65–66: Calcite and hemitite. 5% Bv. In gashes | 40°	Dark green fine grained. Schistosity | 56°
							70: Shear. 6 in gouge. | 0°	
								85.8 – 90.6: GREENSTONE
82.5	16	90						Green. Aphanitic.
85.0	2.5	100						90.6 – 96.0: LIGHT-GREEN DIORITE
93.0		90						< 20% Qtz fragment.
96.0	2.4	80						92.5 – 93.5: Aphanitic.
99.0	1.8	60					96: Shear. 1/4 in. Hemitite gouge | 20°.	
102.6	2.5	95						96.0 – 171: META-DIORITE
107.4		100						96 – 112: Dark green fine grained. Blue-Qtz. Eyes. Ep. grains and
114.6	7.0	95					112: Shear. 6 in. gouge | 5°	¼" veinlets of calcite. Massive
								125-127: Grey green, medium grained. ¼" quartz veins.
132.8		100						

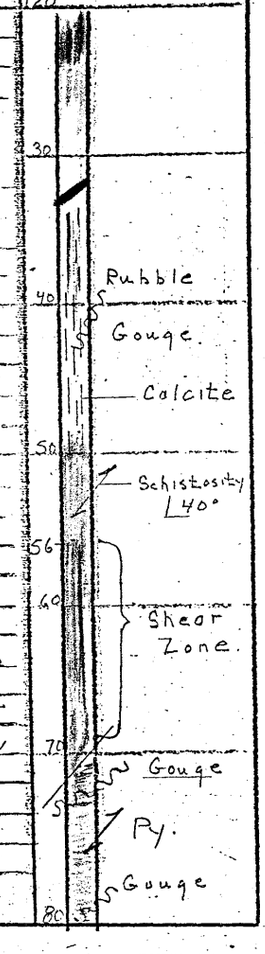
DIAGRAM OF CORE



Date 13 August 71
Project Kelsal Claims — Hole No. D.D.H # 5 — Co-ord.
N.T.S. — Lat. — Long. — Length — Bearing (Mag.or True) — Inclination
Geologist W. D. Cowan — Collar Elv. — Core Size
Time-Day Start Hole — Length Casing — Drill No.
Finish Hole

LENGTH HOLE	CORE Len.	CORE % Rec	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	DESCRIPTION OF ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
132.8	~	~					132.8 – 133.8 : 1 ft. White Qtz vein.	
138.0	5.0	95					133.8 – 150 : Calcite veinlets 10-15% Py. 138 : 4 in. Rubble (Core broken into pea-size fragments)	
150.0	10.0	85					139 – 140.5 : Gouge and rubble Shear / 5°	
157.0	6.5	90					156-57 : Shear Gouge / 5°	150 – 156 : Aphanitic
165.0	5.1	65					158-63 : Gouge.	
168.0	2.2	75					163 – 68 : Rubble.	
170.0	1.8	90					168 : 6 in Qtz vein and Fp envelope of alteration.	
172.0	1.7	85					171-73 : Shear. Gouge S'side / 50°	171 – 211 : LIGHT-GREEN DIORITE
174.0	1.2	60					172 : 3 in. Qtz breccia in sheared py matrix.	Contact / 40°. Schistosity / 40°. 10% Qtz grains. 30% H'blende. < 1% Py.
177.0	1.8	60						173 – 175 : Aphanitic.

DIAGRAM OF CORE

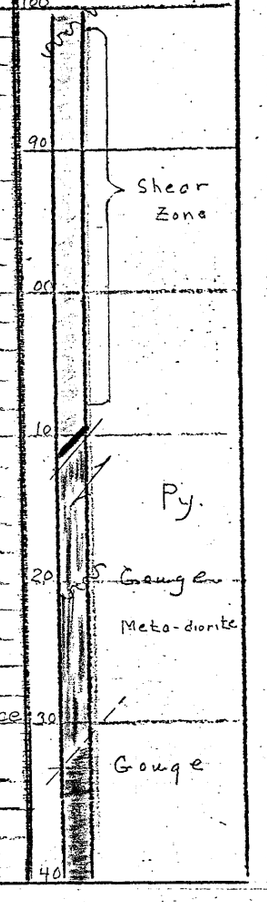


Sheet 4 of 10

Date 13 August 71
Project Kelsol Claims
Hole No. D.D.H #5
Co-ord.
N.T.S. Lat. Long.
Length
Bearing (Mag. or True)
Inclination
Geologist W.D. Cowan
Collar Elv.
Core Size
Time-Day Start Hole
Finish Hole
Length Casing
Drill No.

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	DESCRIPTION OF ~~Ore Minerals~~ ALTERATION	DESCRIPTION OF ~~Alteration~~ Rock Type
177.0	~	~					175: 6in. Gouge	
179.0	1.4	70					180: 3in Gouge. Side | 50°	
							182: Shear | 40°	
185.0	4.8	80					182.5-84: Gouge and rubble.	
187.6	2.1	85					185-192: Gouge and rubble.	
191.0	2.4	70					192-99: Gouge — breccia; Fragments of Diorite in gouge.	
194.6	3.2	90						
205.0	8.9	85					201-08: Gouge — breccia.	
222.0	17.0	95					211: 1in White Qtz vein.	211-234: GREENSTONE
225.0	2.6	85					219-22: Shear. Chlorite gouge | 40°-50°	Green, fine grained. Small grains of qtz and of Fo. Fine laminae of felsite | 50°
								222-27: Meta-Diorite, medium grained
233.4	8.0	95					233-34: Gouge.	
234.8	1.0	80						

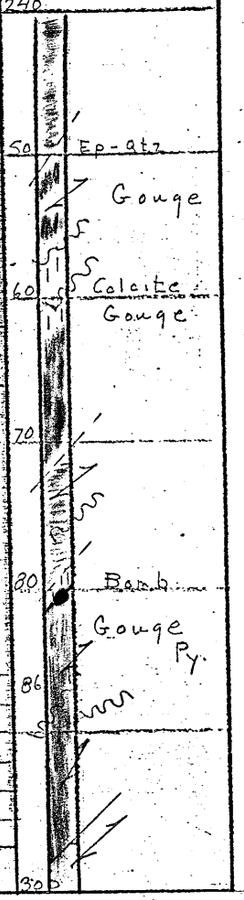
DIAGRAM OF CORE



Date 13 August 71
Project Kelsol Claims
Hole No. D.D.H #5
Co-ord.
N.T.S, Lat. Long.
Length Bearing (Mag. or True) Inclination
Geologist W.D. Cowan
Collar Elv. Core Size
Time-Day Start Hole
Finish Hole
Length Casing Drill No.

LENGTH HOLE	CORE Len.	% Rec	INTERVAL Fr.	To	VIS. EST. GR.	ASSAYS Sample No.	DESCRIPTION OF ALTERATION ~~Ore Minerals~~	~~Alteration~~ Rock Type
234.8	~	~						234 - 250: META — DIORITE.
236.0	1.1	90						248 — 50: Light gray vitreous luster. Qtz and Fs. veins.
239.0	2.3	75						
242.6	3.6	100						250 — 273: GREENSTONE.
							250 — 54: Gouge.	
246.3	3.4	95						
248.2	1.4	80					256: Slickenside | 50° Hematite.	
250.6	1.2	90						
253.0	1.5	60					258 — 61.5: Calcite 5%	
255.0	1.5	75					Ep. 5%, Chlorite	
257.4	2.4	100					gouge. | 45°	
								273 — 279: LIGHT-GREEN DIORITE
								Fine grained. Ep. grains 20% Qtz grains (5-10)%. Shear 11' | to schistosity | 50°
273.9	16.0	95						
								279 — 337: GREENSTONE.
275.0	0.4	40						
							280 — 83: Gouge.	280 Irregular mass of C-Qtz-Fs. Volcanic band 2% Blue — qtz grains.
285.6	9.6	95						

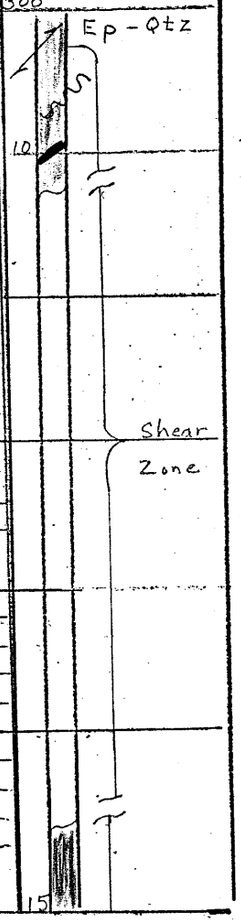
DIAGRAM OF CORE



Date 13 August 71.
Project Kelsel Claims. Hole No. D.D.H #5 Co-ord.
N.T.S. _____ Lat. _____ Long. _____ Length _____ Bearing (Mag. or True) _____ Inclination _____
Geologist W.D. Cowan Collar Elv. _____ Core Size _____
Time-Day Start Hole _____ Length Casing _____ Drill No. _____
Finish Hole _____

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
285.6	~	~						280 – 86: Light-green. Aphanitic 2% Blue – qtz grains. 1% Py. Schistosity. |45°
296.0		100					296: Slickensides |25° + 70°	286 – 87: Qtz – Ep. – Felsite Rx. Irregular masses of Qtz, Ep. + felsite with 1/16 in chlorite lamina.
305.0	8.0	90						287 – 92: Foliated |35° 10% Qtz grains. Qtz laminae Irregular masses of Ep.
310.0	3.3	65						293 – 95: Meta-Diorite; fine grained. Contact |45° Schistosity |50°
313.0	2.4	80						
315.0	1.2	60						
318.0	0.9	30						295: Light – green. 25% Qtz grains. deminishes to 5% 6 in from contact.
320.0	1.7	85						
328.0	7.6	95						298: 6 in laminated schist.
331.6	3.2	90					302: to 319: Shear |45° Gouge, Rubble and S's sides. 310: 1/2 in. Qtz vein	301: 1/4 in Ep – Qtz lamina |45°
335.6	3.8	95						319: Qtz – eyes and lamina.

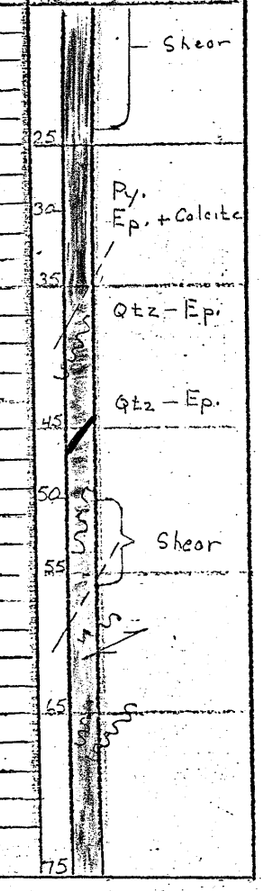
DIAGRAM OF CORE



Date 14 August 71
Project Kelsol Claims
Hole No. D D H # 5
Co-ord.
N.T.S. Lat. Long.
Length
Bearing (Mag.or True)
Inclination
Geologist W. D Cowan
Collar Elv.
Core Size
Time-Day Start Hole
Finish Hole
Length Casing
Drill No.

LENGTH HOLE	CORE Len.	CORE % Rec	INTERVAL Fr.	INTERVAL To	VIS. EST.GR.	ASSAYS Sample No.	DESCRIPTION OF Ore Minerals	DESCRIPTION OF Alteration	DESCRIPTION OF Rock Type
335.6	~	~					329-30: Shear | 20° 5% Py.		
343.0		100					333: Ep. and calcite in gashes 5% Py	333: Quartz grains 5-10% Py. : Massive.	
349.5	6.2	95					337: Slickensides | 20°	337 — 357: META — DIORITE.	
								337: 1in. Qtz-Ep lamina | 30°	
353.9		100						342: Qtz-Ep laminae	
							346.5: 1/4 in. White Qtz. vein		
359.6	5.4	95					350: 6 in. White Qtz vein 1% Py + 1 grain of Cpy.		
366.0	4.9	80					351 356 } Shear | 5°	357 — 377: GREENSTONE.	
							359-61: Shear | 65°	Schistosity | 65°	
371.6		90					365-67: Slickensides | 5° + 30°		
								376: Ep laminae | 30°	
376.8		95							

DIAGRAM OF CORE

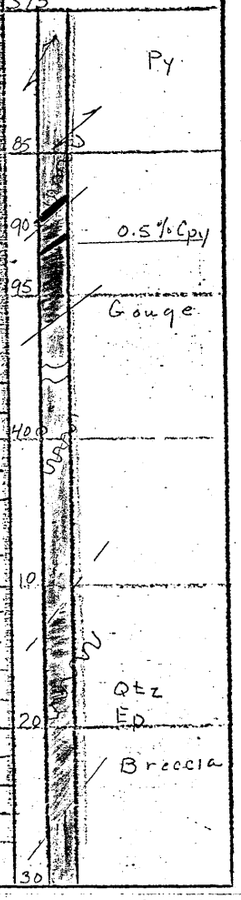


Sheet 8 of 10

Date 14 August 71.
Project Kelsol Claims
Hole No. D D H #5
Co-ord.
N.T.S. Lat. Long.
Length
Bearing (Mag. or True)
Inclination
Geologist W. D Cowan
Collar Elv.
Core Size
Time-Day Start Hole
Finish Hole
Length Casing
Drill No.

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
376.8	~	~						377 – 389: META – DIORITE.
								>1% Euhedral Py.
								382: 1/8 in. Ep. lamina / 50°
							387: Slickenside / 10°	
							388: Massive White Qtz vein.	389 – 397: GREENSTONE.
							392: 3 in. White Qtz vein 0.5% Cpy.	Fine grained, massive. Contact / 50°
402.0	23.9	95					396.5 – 97.5: Slickensides and Gouge	397 – 412: META – DIORITE
								Green. Medium grained. massive.
							400: Shear / 20°	400: Ep laminae / 35°
410.0	8.0	100						Qtz laminae / 65°
413.0	3.0	95						412 – 426: GREENSTONE.
							418: Shear / 20°	418: 5% Qtz grains and μ veinlets.
420.0	6.4	90						420: Ep grains and ptygmatic veins

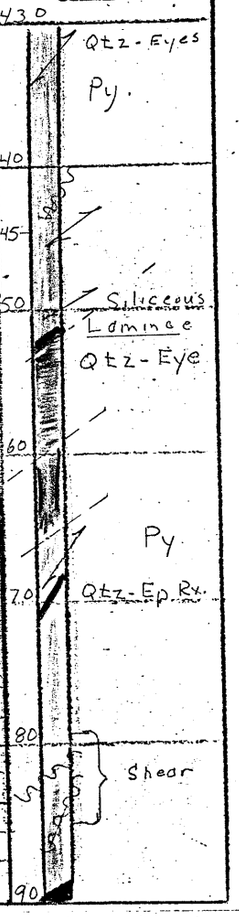
DIAGRAM OF CORE



Date 14 August 71
Project Kelsol Claims
Hole No. DDH #5
Co-ord.
N.T.S. ____ Lat. ____ Long. ____
Length ____ Bearing (Mag. or True) ____ Inclination ____
Geologist W.D. Cowan
Collar Elv. ____ Core Size ____
Time-Day Start Hole ____
Finish Hole ____
Length Casing ____ Drill No. ____

LENGTH HOLE	CORE Len.	% Rec.	INTERVAL Fr.	To	VIS. EST. GR.	ASSAYS Sample No.	ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
420.0	~	~						
22.0	1.7	85						424 — 25.6: Breccia: G'stone in Ep. matrix. 20% Ep. Vitreous luster.
25.0	2.7	90						
								426 — 452: META-DIORITE.
431.0	5.7	95						1% Py.
								431: 6 in layer of Qtz-eyes
437.0	5.7	95						433: 6 in layer of Qtz-eyes and laminae. ∠ 40°
38.6	1.6	100						
							446: Shear ∠ 30°	446: Schistosity ∠ 55°
444.0	2.1	35						450.3: Siliceous laminae. ∠ 55°
446.0	1.9	95					452: ½ in White Qtz vein.	452 — 460: GREENSTONE.
448.0	1.8	90						452 — 54: Qtz-eyes.
450.3	1.5	65						460 — 466: META-DIORITE.
453.8	3.3	95						466 — 495: QUARTZ-EYE SCHIST.
457.9	3.5	85						≥1% Py. Schistosity ∠ 35°
462.6	4.7	100						469: Qtz-Ep. Rock. (3 in.)
472.6	9.6	95						

DIAGRAM OF ~~CORE~~



Sheet 10 of 10

Date 14 August 71
Project Kelsol Claims
Hole No. D.D.H. #5
Co-ord.
N.T.S. Lat. Long.
Length
Bearing (Mag. or True)
Inclination
Geologist W/ D. Cowan
Collar Elv.
Core Size
Time-Day Start Hole
Finish Hole
Length Casing
Drill No.

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	DESCRIPTION OF ~~ALTERATION Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type	DIAGRAM OF CORE
472.6	~	~						469-73: Qtz-Ep. Rock.	490
							479.5-85: Shear, Gouge and Rubble | 50° and 25°.		
482.9	9.2	90						488: Schistosity | 55°	500
485.6	2.2	85					489: 2 ft. White Qtz vein.	495 — : META-DIORITE.	
								Schistosity | 40°	
500.0	14.3	95							
								END	

PACIFIC PETROLEUMS LTD.

August 3, 1971.

Mr. H. E. Joudrie,
Ashland Oil Canada Limited,
1900 Standard Life Bldg.,
639 - 5th Ave., S. W.,
Calgary 1, Alberta.

Re. Kelsal Claim Group

Dear Mr. Joudrie:

Please find attached hereto log for D. D. H. #2, which was the third hole drilled on the Kelsal Claim Group.

Yours truly,
PACIFIC PETROLEUMS LTD.

R B Rowe

R. B. Rowe

rbr/vb

Encl: (1)

cc: Mr. F. Perry - Gulf Minerals Canada Ltd., Toronto
Dr. C. E. Cleveland - Calgary

BONDAR-CLEGG & COMPANY LTD.

geochemists ● assayers ● analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.
PHONE: 988-5315 TELEX: 04-54554

RECEIVED
AUG 5 1971
VANCOUVER OFFICE
Minerals Exploration

CERTIFICATE OF ASSAY

TO Pacific Petroleums Ltd.
408 - 580 Granville St.
Vancouver, B.C. Att: Mr. R.B. Rowe

Report No: A21-446
Samples Rec'd: July 30, 1971
Results Completed: Aug. 3, 1971

I hereby certify that the following are the results of assays made by us upon the herein described Core Ore samples.

MARKED	GOLD		SILVER	Cu							TOTAL VALUE PER TON (2000 LBS.)
10 Core 2 Ore	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
				Kelsall Project - D.D.H. #2							
59329	Trace		0.03	0.16	65.5' — 71.5'						
59330	Trace		0.02	0.04	84.5' — 87.5'						
59331	Trace		0.01	0.01	94.0' — 96.0'						
59332	Trace		Trace	0.01	192.0' — 195.0'						
59333	Trace		Trace	0.01	221.0' — 227.0'						
59334	Trace		0.01	0.02	243.0' — 247.0'						
59335	Trace		0.01	0.02	293.0' — 297.0'						
59336	Trace		0.02	0.01	333.0' — 338.0'						
59337	Trace		0.01	0.01	393.0' — 397.0'						
59338	Trace		0.01	0.01	464.3' — 469.5						
[redacted]	[redacted]		[redacted]	[redacted]							
[redacted]	[redacted]		[redacted]	[redacted]							

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Gold & Silver values reported on these sheets have not been adjusted to compensate loses and gains inherent in fire assay methods.

Gold calculated at $ ..... per ounce

D. S. MacMath
Registered Assayer, Province of British Columbia

→ HDK file

PACIFIC PETROLEUMS LTD.
#408 - 580 Granville Street,
Vancouver 2, B.C.

August 5, 1971.

Mr. H. E. Joudrie,
Ashland Oil Canada Limited,
1900 Standard Life Bldg.,
639 - 5th Ave,, S.W.,
Calgary 1, Alberta.

Kelsal Drilling Results

Dear Mr. Joudrie:

Please find enclosed herewith copy of assay results for samples from D.D.H. #2 and D.D.H. #3 from the Kelsal claim group.

Yours truly,
PACIFIC PETROLEUMS LTD.

R. B. Rowe per RB.

rbr/vb

Enclosures.

Copies to: Mr. F. C. Perry ✓
Gulf Minerals Canada Ltd.,
Toronto

Dr. C. E. Cleveland

Assay results filed with the logs of the DDH's

RECEIVED
JUL 29 1971
ASSESSMENT OFFICE

Sheet 1 of 7

Date 24 July 71
Project Kelsal Claims
N.T.S. 114 P Lat. Long.
Geologist W.D. Cowan
Time-Day Start Hole 1500 - 14 - 07
Finish Hole 0800 - 24 - 07

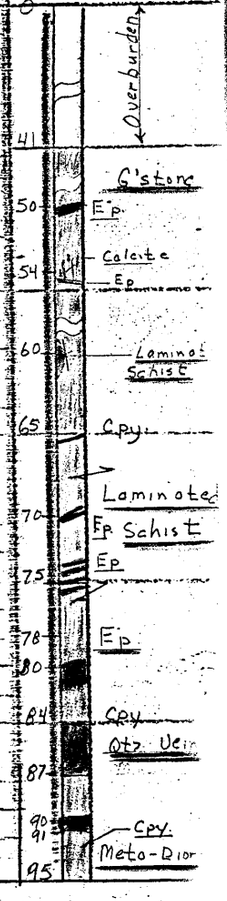
Hole No. D.D.H # 2
Length 501 feet
Collar Elv. 3265 MSL
Length Casing 40 feet

Co-ord. Northings: 25+37 S Eastings 11+14 E
Bearing (Mag. or True) N 45° E
Inclination 60°
Core Size BQ - Wire line
Drill No.

Scale 1 in. = 10 ft.

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST. GR.	ASSAYS Sample No.	Au oz/ton	Ag oz/ton	Cu %	DESCRIPTION OF ALTERATION Ore Minerals	Alteration	Rock Type
0.0												
41.0	~	Nil									0 - 41.0:	OVERBURDEN.
											41 - 65.0:	GREENSTONE.
49.0	6.5	75									44.0 - 47.0	Medium grain slate
										49.5 - 51.5: Qtz. vein Epidote envelopes. Minor Cpy (0.01% Cu)	65.0 - 76:	LAMINATED SCHIST.
59.0	7.0	70										
65.5	4.5	60								54.5: Calcite ± vein lets. Epidote (Ep) 2% of rock (Rx.)	76 - 85:	GREENSTONE.
67.6	1.0	50										
73.4	4.5	70									85 - 91:	LAMINATED SCHIST.
			65.5	71.5	2-5	59329	Tr.	.03	.16	60: Contact | 35°		
76.0	1.2	45										Vitreous luster. Hardness 7.
										65.5: 0.5 in. massive sulfide 1% Cu		Schistose structure. Blue quartz grains 5% Rx.
81.3	5.0	100	84.5	87.5	1	59330	Tr.	.02	.04			Thin quartz lamina 25% Rx. Angular Ep. grains 5%
										70: Small qtz vein enveloped by Ep.		Ground mass of felsite and chlorite. 1% pyrite ∠ 80°
90.6	6.0	65										
										74-76: Qtz + Ep laminations 50% of Rx. ∠ 60°		
										78: Ep. grains 5% Rx.		

DIAGRAM OF CORE

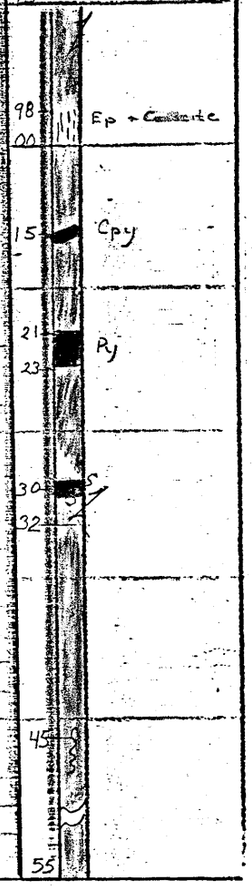


Sheet 2 of 7

Date 26 July 71.
Project Kelsal Claims Hole No. D.D.H # 2 Co-ord.
N.T.S. ____ Lat. ____ Long. ____ Length ____ Bearing (Mag. or True) ____ Inclination ____
Geologist W.D Cowan Collar Elv. ____ Core Size ____
Time-Day Start Hole ____ Length Casing ____ Drill No. ____
Finish Hole ____

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST.GR.			Sample No.	oz/ton ASSAYS Au	Ag	% Cu			DESCRIPTION OF ALTERATION Ore Minerals	Alteration	Rock Type
														80.0 – 82.6: Qtz Vein. and Ep. envelope.		
102.0	7.5	70														
														84.5 – 87.5: Qtz Vein minor Chalcopyrite		
110.0	4.5	55												90.5: Qtz Vein 1% Py. 15% Ep 80% Qtz. 5% Black chlorite.	91 – 115: META – DIORITE.	
120.0	4.5	45												92.0: Minor Cpy. (Just visible.)		
			94	96	5			59331	Tr.	.01	.01			93-95: Calcite and Ep. veinlets 2 to 5% Py. Schistosity ∠30°		
														98 – 100: Calcite – Ep. 5%		
135.6	11.0	60												115: Qtz vein minor Cpy.	115 – 132: GREENSTONE	
														121-123: Small Qtz veins 10%. Py 2%		
														130: 1/4" Qtz – Ep. laminae 15% Py ∠35° Shear ∠25°		

DIAGRAM OF CORE



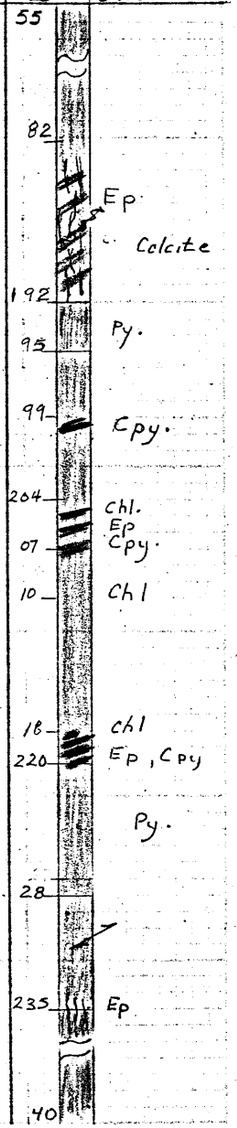
26 July 71 — DDH # 2 — Page 3 of 7

Kelsol Claims

W.D. Cowon

LENGTH	CORE Len.	CORE Rec.	INTERVAL From	INTERVAL To	% Pyrite	SAMPLE NO.	ALTERATION	ROCK TYPE
148.3	10.0	75						132 — 192: META-DIORITE
161.6	9.0	70					145: Shear ∠ 0°	
							146 - 147.5: Gouge (?) Soft, extremely friable — breaks into fine powder and feels soapy.	
172.0	10.5	80					168: Gouge. (?)	167.5: Schistosity ∠ 45°
							174.5: Gouge (?)	
180.6	6.5	75					180.0: Gouge (?)	
							182 - 191: Qtz and calcite veinlets. 5-10% of Rx. Ep. 10% of Rx. Shear ∠ 50°	
187.6	6.0	90	192.0	195.0	2	59332 Au. tr Ag Tr Cu .01%		192 — 195: LAMINATED SCHIST 2% pyrite // to Schistosity
197	8.0	75						195 — 220: META-DIORITE
200.8	1.0	30					199.5 Qtz vein. Minor Cpy.	
							204 — 207: Small Qtz veins and slickensides. Soft, extremely friable — lamina, feels soapy. Minor Ep and Cpy (faintly visible, identification uncertain)	
215	9.5	60						

DIAGRAM



26 July 71

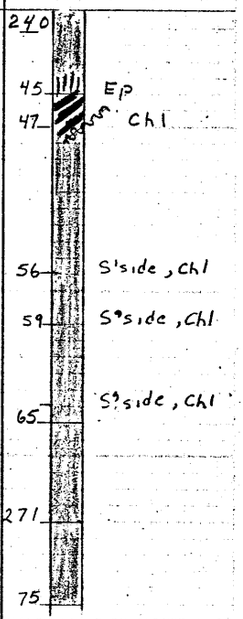
Kelsal Claims

I.X.D Cowon

D.D.H #2

LENGTH	RECOVERY Len	RECOVERY %	INTERVAL FROM	INTERVAL TO	% PYRITE	SAMPLE NO.	ALTERATION	ROCK TYPE
							209-210: Slickenside	
							217-218: Slickenside	
226.0	7.0	70					219-220: Qtz-Ep veins 70% Rx. minor Cpy.	220-228: LAMINATED SCHIST.
			221	227	5	59333 Au Tr. Ag Tr. Cu .01	221-227: Py 11'1 to Schistosity	
235.0	7.0	80						228-235 QUARTZ-EYE SCHIST
								233: Schistosity /60°
242.0	5.0	70						
							235: Ep and calcite veinlets, 20% of Rx.	235-245: META-DIORITE
251.0	80	80					243-245: Ep and calcite veinlets, 5% of Rx.	245-265: GREENSTONE
			245	247	5	59334 Au tr Ag .01 Cu .02	245-247: Slickensides? (Chloritization and shearing) /50° Qtz lamina 1/2 in. 10% Rx	
265.2	9.5	60					256 and 259 and 264 Slickensides? Ep veinlets and 5% Py.	
								265-271: META-DIORITE
277.5	10.0	75					266: Gouge and S°sides	
								271-275 GREENSTONE

DIAGRAM

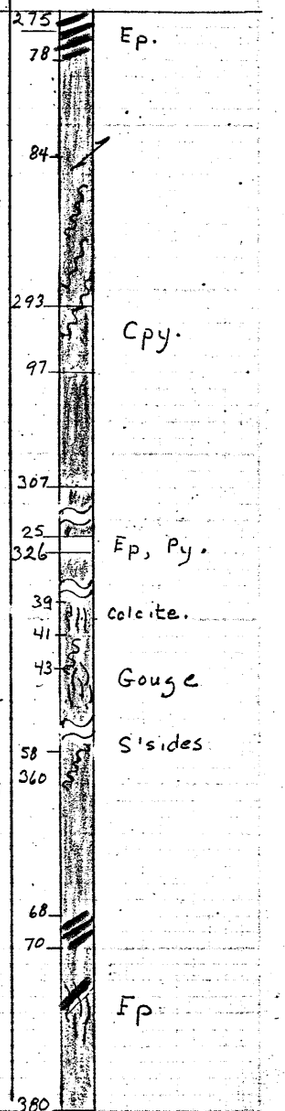


26 July 71
Kelsal Claims
W. D Cowan

D.D.H #2

LENGTH	RECOVERY Len	RECOVERY %	INTERVAL From	INTERVAL To	% PYRITE	SAMPLE NO.	ALTERATION	ROCK TYPE
							275 – 278: Qtz veins 1/4 in. in Ep 5% Rx.	275 – 293: META-DIORITE
285.4	6.5	75					284: Slickensides	
							286.5 – 293: Slickensides Shear ⌊ 10-20° Sch. ⌊ 50°	
292.0	2.5	30	293	297		59 335	293 – 297: Occosional minute grain of Cpy.	293 – 297: GREENSTONE SCHIST
297.0	2.5	50				Au. tr. Ag. .01 Cu. .02		297 – 307: META-DIORITE
							303 – 306: Slickensides ⌊ 10-20 Breaks into pea-size fragments	
308.0	5.5	60						307 – 325: QUARTZ-EYE SCHIST
316.0	2.5	30					307 – 314: } Gouge and 321 – 323: } Slickensides.	
322.0	4.0	65					325 – 326: Pyrite (Py) 1% Ep. eye 10%	325 – 326: FELSITE
327.3	3.5	70						
338.0	9.0	85	333	338	2	59 336		326 – 380: META-DIORITE
341.0	2.5	85				Au. tr. Ag. .02 Cu .01	339 – 341: Calcite veinlets 20%	326 – 338: Tonalite Grey color, vitreous luster fined grain size. Small ellipsoidal grains of Qtz and Ep. (Together and seperate)
							343 – 345: Gouge and Calcite veinlets. Shear ⌊ 20°	
348.0	6.0	60					358 – 372: Gouge and Slickensides (S'sides) and 353: Shear ⌊ 15°	
							368 – 370: Qtz veins Ep envelopes and Py all 20%	345 – 348: Qtz-eyes siliceous zone. Vitreous luster.
358.0	6.0	60					374 – 375: Qtz., Ep and calcite veinlets.	
372	30	20						

DIAGRAM



26° July 71
Kelsal Claims W.D Cowan.

D.D.H # 2

LENGTH	RECOVERY Len.	RECOVERY %	INTERVAL From	INTERVAL To.	% PYRITE	SAMPLE NO.
389.6						
			393	397	2	59337 Au. Tr. Ag. .01 Cu. .01
399.6	11.0	100				
405.0	5.5	100				
414.0	4.0	45				
422.0	6.5	70				
429.0	5.5	75				
437.0	6.0	75				
444.6	6.5	75				
451.9	6.0	85				
462.6	5.0	45				
467.6	3.0	60				

ALTERATION

391: Carbonate veinlets 10% Rx. Shear ∠20°

404: } Sigmoidal blue qtz
408: } veins.

416: } 6 in. massive white
418: } qtz. veins.

419 — 420.5: Qtz vein blue-grey. 20% Rx. Gouge.

428 — 429: Brecciation. Chlorite and Epidote. Schistosity ∠45°

438.5: Slickensides — breaks into pea-sized fragments.

439 — 440.5: Ep. 70% Qtz. 10% Chlorite 20% Rx

444.5 — 445.5: Gouge and slickensides. Hemitite along shear ∠15 - 20°

449: Chlorite 60°, Ep 20% Qtz. 20% of Rx

461: Gouge. Calcite & veinlets 5%, Ep 20%

462: 6 in. massive white quartz vein and Ep envelope.

462.5 — 464: Calcite vein and associated brecciation Calcite 20% Ep. 50%.

ROCK TYPE

380 — 432:

GREENSTONE.- 20% ellipsoidal grains of Ep. around quartz grains, size of match head.

391 — 401: Qtz grains 10% Ep. 15% of Rx

396 Qtz and Ep lamina.

411 - 418: Fine grained texture.

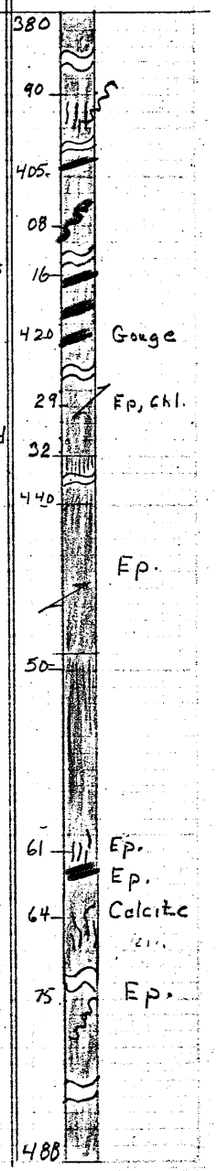
432 — 449:

META - DIORITE Ep. in ellipsoidal grains and lamina 10% Rx. ∠60°.

449 — 488:

GREENSTONE

DIAGRAM

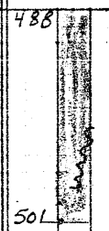


26 July 71 — D.D.H #2 — Page 7 of 7

Kelsol Claims — W.D Cowan

LENGTH	RECOVERY Len	RECOVERY %	INTERVAL From	INTERVAL To	% PYRITE	SAMPLE NO.	ALTERATION	ROCK TYPE
			464.5	469.5	5	59338 Au. Tr. Ag. .01 Cu. .01	463 — 467.6: Gouge and slickensides.	467 — 469: Siliceous. 70% Rx blue qtz lamina.
476.6	8.5	90					476 — 477: Hemitite on slickenside ∠ 20°. 80% Ep.	
							496.5 — 501 Gouge.	488 — 501: META-DIORITE
4.86	3.5	35					(Highly friable — breaks into powder.) 5% Calcite 10% Qtz 15% Ep 60% Chlorite.	
492.6	3.5	50					Hematite on shears ∠ 10°	
501	8.0	90						

DIAGRAM.



F. C. Perry. July 21, 1971

Kelsey Lake
DDH #3 31 +18 S
4 +28 E.

Drilled on Anomaly A, the largest and best defined of the IP anomalies. Depth 501 feet
Result: Barren sulphides (pyrite)
15' from 179 to 195 feet could possibly cause this anomaly.
Laminated schists green and felsite interbeds. Could be tuff layers.

This hole was drilled on proposed DDH 1 testing anomaly "A".

Results negative (except if assays on Au, Ag, Cu show anything, results not yet available, plotted on log Aug 25/71 HDK

HDK

PACIFIC PETROLEUMS LTD.
#403 - 580 Granville Street,
Vancouver 2, B.C.

July 19, 1971.

Mr. H. E. Joudrie,
Ashland Oil Canada Limited,
1900 Standard Life Bldg.,
639 - 5th Ave., S. W.,
Calgary 1, Alberta.

Re. Kelsal Claim Group

Dear Mr. Joudrie:

Please find attached hereto log for D. D. H. #3 which was the second hole drilled on the Kelsal Claim Group.

Yours truly,
PACIFIC PETROLEUMS LTD.

R. B. Rowe

rbr/vb

Encl: (1)

cc: Fred Perry - Gulf Minerals Canada Ltd.,
C. E. Cleveland - Calgary

Kelsey DDH 3 | Barren sulphide intercepts

131 - 141 (4')	1%	Py.	sample 59490	Au, Ag, Cu
165 - 168.5 (3.5')	3%	Pyrite	no sample	
179 - 185 (5')	5%	py	59492	Au, Ag, Cu.
185 - 190 (5')	5%	py	59493	" " "
190 - 195 (5')	5%	py	59494	" " "
232 - 239 (7')	2%	py	59495	" " "
245 - 250 (5')	1%	py	59496	"
268 - 274 (6')	1%	py	59497	"
337.5 - 340 (2.5')	2%	py		
349 - 351 (2')	2%	py.		no check
454 - 463 (7')	1%	py	samples	Au, Ag, Cu
467 - 475 (8')	1%	py	to be	"
475 - 483 (8')	1%	py	arranged	"
483 - 491 (8')	5%	py		"

Kalsac DDH 3 / Barren sulphide intercepts

Assays & plot

137 - 141 (4')	1%	py	sample 59496	Au, Ag, Cu
165 - 168.5 (3.5')	3%	pyrite	no sample	
179 - 185 (5')	2%	py	59492	Au, Ag, Cu.
185 - 190 (5')	5%	py	59493	" " "
190 - 195 (5')	5%	py	59494	" " "
232 - 239 (7')	2%	py	59495	" " "
245 - 250 (5')	1%	py		
268 - 274 (6')	1%	py	59496	"
337.5 - 340 (2.5')	2%	py	59497	"
349 - 351 (2')	2%	py		no check
354 - 463 (7')	1%	py	Samples,	Au, Ag, Cu
467 - 475 (8')	1%	py	to lab	"
475 - 483 (8')	1%	py	arranged	"
483 - 491 (8')	5%	py		"

Kelsall L. DDH 3

BONDAR-CLEGG & COMPANY LTD.

geochemists ● assayers ● analytical chemists

1500 PEMBERTON AVENUE, NORTH VANCOUVER, B.C.
PHONE: 988-5315 TELEX: 04-54554

Kelsall

RECEIVED
JUL 29 1971
VANCOUVER OFFICE
Minerals Exploration

CERTIFICATE OF ASSAY

TO Pacific Petroleums Ltd.
408 - 580 Granville St.
Vancouver, B.C.

Report No: A21-404
Samples Rec'd: July 20, 1971
Results Completed: July 28, 1971

I hereby certify that the following are the results of assays made by us upon the herein described Core samples.

DDH 3

MARKED	GOLD		SILVER	Cu							TOTAL VALUE PER TON (2000 LBS.)
Core	Ounces per Ton	Value per Ton	Ounces per Ton	Percent	Percent	Percent	Percent	Percent	Percent	Percent	
59490	Trace		Trace	0.02		137.0'	D.D.H. # 3 to	141.0'			
59491	Trace		Trace	0.03		165.0'	"	168.5'			
59492	0.005		0.05	0.01		179.0'	"	185.0'			
59493	Trace		0.02	0.03		185.0'	"	190.0'			
59494	Trace		Trace	0.02		190.0'	"	195.0'			
59495	Trace		Trace	0.01		232.0'	"	239.0'			
59496	0.005		0.05	0.01		245.0'	"	250.0'			
59497	0.005		0.05	0.02		268.0'	"	274.0'			
59498	Trace		Trace	0.02		337.5'	"	340.0'			
59499	Trace		Trace	0.01		349.0'	"	351.0'			
59500	Trace		Trace	0.02		454.0'	"	463.0'			
59326	Trace		Trace	0.02		467.0'	"	475.0'			
59327	Trace		Trace	0.01		475.0'	"	483.0'			
59328	Trace		Trace	0.01		483.0'	"	491.0'			

NOTE:
Rejects retained two weeks
Pulps retained three months
unless otherwise arranged.

Gold & Silver values reported on these sheets have not been adjusted to compensate loses and gains inherent in fire assay methods.

Gold calculated at $.....per ounce

Registered Assayer, Province of British Columbia

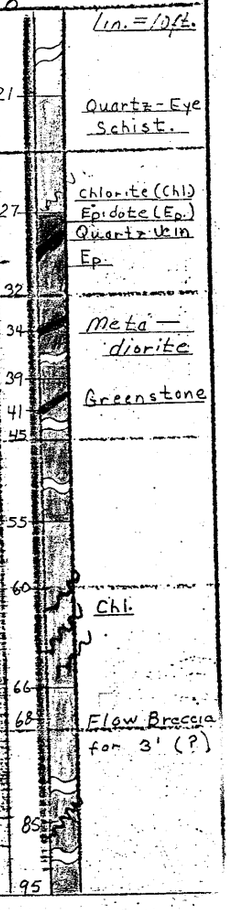
Date 14 July 71
Project Kelsal Claims
N.T.S. 114 P Lat. ____ Long. ____
Geologist W.D Cowan
Time-Day Start Hole 2000 - 07 - 07
Mont. Finish Hole 0800 - 13 - 07

Hole No. D.D.H #3 Co-ord. Northings: 31+18S Eastings: 4+28E
Length 501 ft. Bearing (~~Mag~~ or True) 040° Inclination 60.5°
Collar Elv. 3155 MSL Core Size BQ Wireline
Length Casing ____ Drill No. ____

LENGTH HOLE	CORE Len.	% Rec.	INTERVAL Fr.	To	VIS. EST. GR. Pyrite			ASSAYS Sample No.	Au	Ag	Cu	Zn
0.0												
20.0												
28.4	4.0	50										
36.5	6.5	60										
44.0	5.5	65										
56.5	10.5	75										
60.5	3.5	85										
65.0	1.2	20										
74.4	7.0	80										
85.8	8.5	75										
93.0	2.5	40										
97.8	4.0	85										

~~Alteration~~ Ore Minerals	~~Alteration~~ Rock Type
22.0: Two small grains of Chalcopyrite	0 - 21: Overburden.
26 - 27: slickensides and chloritization.	21 - 27: QUARTZ-EYE SCHIST. Dark blue-green color. Aphanetic schistose texture. Rock is soft and friable. Ellipsoidal grains of quartz and calcite and epidote. Epidote usually enveloped by quartz. Vary in size up to 1/2 in. long. Composition: 70% chlorite, 25% quartz, 2% calcite 2% epidote 1% pyrite.
27-32 Epidote envelope and massive white quartz vein.	
34.5: Quartz vein 2 in.	
41.5: Quartz vein.	27 - 39: META - DIORITE.
60 - 65: chloritized Zone. Slickensides ∠ 40°	39 - 45: GREENSTONE Green to dark green color. Aphanetic texture. Massive. Composition: 70% chlorite feldspar, epidote and calcite 20% and small quartz grains 10%.
68: Slicken sides	
85: slicken sides	
97: slicken sides	
106: Quartz vein.	45 - 55: META - DIORITE.
	55 - 66: QUARTZ-EYE SCHIST.
	66 - 95: GREENSTONE

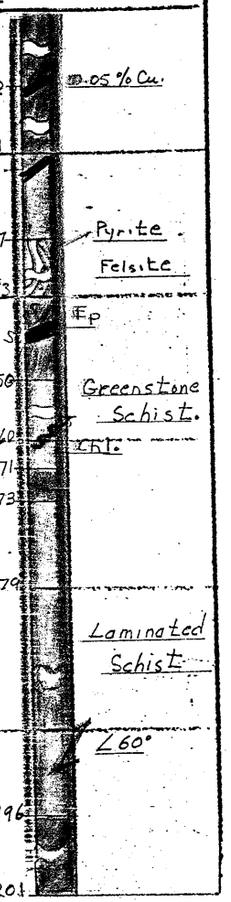
DIAGRAM OF CORE



Date 14 July 71
Project Kelsal Claims
Hole No. D.D.H # 3
Co-ord.
N.T.S. 114P Lat. Long.
Length Bearing (Mag. or True) Inclination
Geologist W. D. Cowan
Collar Elv. Core Size
Time-Day Start Hole 2000-07-07
Length Casing Drill No.
Month Finish Hole 0800-13-07

LENGTH HOLE	CORE Len.	% Rec.	INTERVAL Fr.	To	VIS. EST. GR.	ASSAYS Sample No.	Au.	Ag	Cu	Zn	DESCRIPTION OF Alteration Ore Minerals	Alteration Rock Type
103.0	5.0	95					oz/ton	oz/ton	%	%	112: Quartz vein minor Chalcopyrite.	95-131: META-DIORITE.
108.0	5.0	100										131-137: QUARTZ-EYE SCHIST. L 35° for schistosity.
120.0	6.0	50	137	141	1	59490	Tr	Tr	.02		132: Quartz vein with Epidote pyrite and chlorite.	137-143: FELSITE. Light gray color. Aphanetic texture.
125.6	5.0	90									133-135: Rock very friable.	Vitreous luster. Pyrite 2% in thin 1/4" seams.
130.0	4.0	85										
134.5	4.0	85										
143.6	4.5	40									143-146: Shearing L 60°, Quartz veins and E.P.	143-150: GREENSTONE.
147.6	3.5	75										150-171: GREENSTONE SCHIST. Dark green color. Schistose texture. Dull-earthy luster. Occasional bands of calcite. Composition: Chlorite 90% calcite 10%.
157.0	8.0	80									158-160: Shearing L 55°	
165.0	5.0	65	165	168.5	3	59491	Tr	Tr	.03		163-165: Chlorit-ized.	
173.0	7.5	85										171-173: META-DIORITE
178.0	5.0	100									176-196: Veinlets and 1/4" veinlets of selenite pervade the laminated schist 2-5% of Rock	173-179: QUARTZ-EYE SCHIST
183.0	5.0	100	179	185	5	59492	.005	.05	.01			179-196: LAMINATED SCHIST Gray green color. Schistose. aphanetic texture. Bands of light gray felsite with bands of chlorite and chlorite with quartz grains. Band width: 0.01 in to 0.5 ft. Comp: 20-30% chlorite, 40-60% felsite 10% Quartz
188.0	5.0	100	185	190	5	59493	Tr	.02	.03			
			190	195	5	59494	Tr	Tr	.02			
193.0	5.0	100										
198.0	5.0	100									198: Quartz vein	
203.4	3.5	45										

DIAGRAM OF CORE

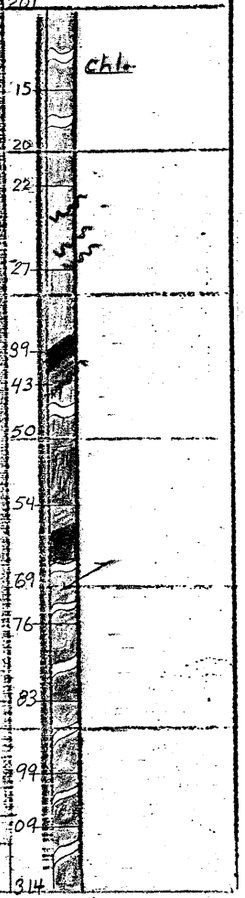


Date 15 July 71
Project Kelsal claims
N.T.S. 114P Lat. ____ Long. ____
Geologist W. D Cowan
Time-Day Start Hole ____
Finish Hole ____

Hole No. DDH #3
Length ____ Bearing (Mag. or True) ____ Inclination ____
Collar Elv. ____ Core Size ____
Length Casing ____ Drill No. ____
Co-ord. ____

LENGTH HOLE	CORE Len.	CORE % Rec.	INTERVAL Fr.	INTERVAL To	VIS. EST. GR. PYRITE	ASSAYS Sample No.	Au	Ag	Cu	ALTERATION ~~Ore Minerals~~	DESCRIPTION OF ~~Alteration~~ Rock Type
210.8	3.5	45									5% pyrite. Pyrite as laminations.
215.8	3.5	70								211 – 214 : Chloritization. Rx very friable. Small quartz veins.	196 – 201 : META – DIORITE
222.4	0.8	10									201 – 215 : LAMINATED SCHIST
											215 – 220 : GREENSTONE SCHIST
231.6	6.5	65								221 – 227 : Slickensides ∠50°	
239.0	5.0	75									220 – 222 : LAMINATED SCHIST
243.0	3.5	80									222 – 227 : GREENSTONE SCHIST
			232	239	2	59495	Tr	Tr.	.01	237 – 241 : Massive white quartz vein.	227 – 239 : LAMINATED SCHIST
252.0	6.5	70									239 – 243 : META – DIORITE
			245	250	1	59496	.005	.05	.01	243 : Slickenside ∠40°	243 – 250 : LAMINATED SCHIST
257.0	4.5	65									
262.0	5.0	100									250 – 254 : META – DIORITE
			268	274	1	59497	.005	.05	.02		
271.6	7.5	80									254 – 276 : LAMINATED SCHIST
277.0	5.0	90								256 – 258 : Massive white quartz vein.	276 – 283 : META – DIORITE
285.6	8.0	90									283 – 299 : QUARTZ-EYE SCHIST
296.5	7.0	70								269 : Schistosity ∠60°	299 – 309 : META – DIORITE
301.6	5.0	95									309 – 314 : QUARTZ-CHLORITE SCHIST
312.8	10.5	95									

DIAGRAM OF CORE

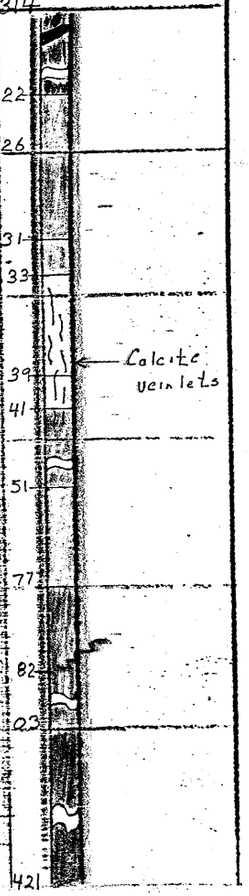


Date 15 July 71
Project Kelsal Claims
N.T.S. 114 P Lat. ____ Long. ____
Geologist W. D Cowan.
Time-Day- Start Hole ____
Finish Hole ____

Hole No. D.D.H #3
Length ____ Bearing (Mag. or True) ____ Inclination ____
Collar Elv. ____ Core Size ____
Length Casing ____ Drill No. ____

LENGTH HOLE	CORE Len.	% Rec.	INTERVAL Fr.	To	VIS. EST. GR.	ASSAYS Sample No.	Au	Ag	Cu	DESCRIPTION OF Alteration. ~~Ore Minerals~~	~~Alteration~~ Rock Type
317.6	3.0	60									314 – 322 : META-DIORITE
323.0	4.5	80								316: Quartz vein	322 – 326 : QUARTZ-CHLORITE SCHIST Quartz-Eye Schist. Quartz 40% in bands ⅛ in. wide.
333.0	5.5	55	337.5	340.0	2	59498	Tr.	Tr.	.02	335 – 342: Minor Calcite veinlets.	326 – 331 : GREENSTONE.
340.6	5.0	70									331 – 333 : Q.-CHL. SCHIST.
345.0	3.5	70									333 – 339 : META-DIORITE
			349	351	2	59499	Tr.	Tr.	.01		339 – 341 : Q-CHL-SCHIST
355.0	7.5	60									341 – 351 : GREENSTONE
366.0	9.0	80									351 – 377 : GREENSTONE SCHIST
376.0	6.5	60									377 – 403 : GREENSTONE
386.4	6.0	55									403 – 421 : META-DIORITE
396.4	6.0	60								382: Rx chloritized and very friable ∠50°	
411.0	9.5	70									
423.0	10.0	80									

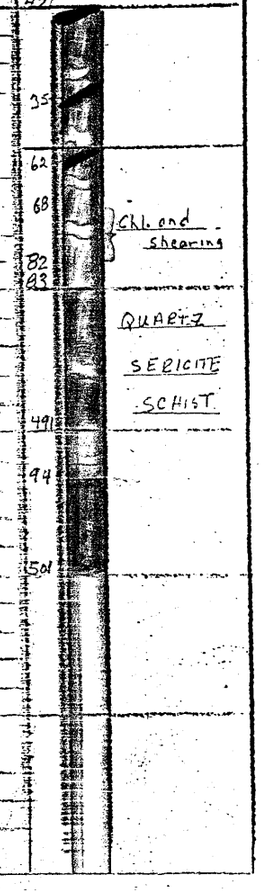
DIAGRAM OF CORE



Date 15 July 71
Project Kelsall Claims
Hole No. D.D.H. #3
Co-ord.
N.T.S. 114P Lat. Long.
Length Bearing (Mag. or True) Inclination
Geologist W.D. Cowan
Collar Elv. Core Size
Time-Day Start Hole
Finish Hole
Length Casing Drill No.

LENGTH HOLE	CORE Len.	% Rec.	INTERVAL Fr.	To	VIS. EST. GR. Pyr.	Arg.	ASSAYS Sample No.	Au	Ag	Cu	DESCRIPTION OF ~~ALTERATION Ore Minerals~~	~~Alteration~~	Rock Type
432.0	6.0	65											
											421: Quartz vein	421 – 483:	GREENSTONE
440.6	8.0	90											
											435: Quartz vein	483 – 491:	QUARTZ SERICITE
453.0	7.5	60	454	463	1		59500	Tr.	Tr.	.02	462: Quartz vein.		SCHIST.
												Silver-gray color. Schistose.	
											468-482: Rx	aphanatic texture. 60% quartz	
465.6	7.0	60	467	475	1		59326	Tr.	Tr.	.02	very friable	in elongated lens, 35%	
			475	483	1		59327	Tr.	Tr.	.01	and chloritized.	sericite and kaolinite, 5%	
												pyrite ∠ 60°	
											486: Slickenside		
482.8	7.5	40	483	491	5		59328	Tr.	Tr.	.01	∠ 40°		
												491 – 494:	QUARTZ-EYE SCHIST
												Schistosity ∠ 60°	
490.4	6.5	75											
												494 – 501:	META-DIORITE
501.0	9.0	90											

DIAGRAM OF CORE



PACIFIC PETROLEUMS LTD.

HDK/ ~~FCP~~ —.
for comment.
6K

#408 - 580 Granville Street
Vancouver 2, B.C.

Dr. C. E. Cleveland - Calgary

August 14, 1970.

Dr. R. B. Rowe - Vancouver

Carcross Project - Check Samples from "Uranium Anomaly" near Bennett Lake and Kelsal Claims and Remarks

1. In comparison with values of 82 and 132 ppm Ur from Geophoto samples, those collected by Rowe from the same stream near the Geophoto sites contained 2.4, 17 and 18 ppm. Ur. This is not a good correlation! Possibly, the Geophoto samples contained organic material.

2. A comparison of the analyses of 4 soil samples taken by Rowe from the Tupper grid and the Tupper results is as follows:

	Cu		Zn		Pb	
Location	Tupper	Rowe	Tupper	Rowe	Tupper	Rowe
24 +00-7E	26	335	60	900	12	12
27 +00-3E	48	50	113	100	36	10
33 +00-3E	67	130	606	360	21	9
39 +00 on B.L.	121	235	119	1800	21	15

This is not good reproducability either! Probably, the soil over and near the geophysical anomalies should be resampled.

FOR ACTION:

REMARKS: ① Suggest we ask Tupper for his thoughts.
② Deviation from "B" zone sampling in soil will have this precise effect
③ Suggest before any geochemical sampling of any sort is done anywhere for Gulf that it be discussed in this office & rigid specifications be set out for survey. FCP.

rbr/vb

cc: N. Ediger

AME

Concerns

File Note

Nov 23/70

Phone Call to Dr. R. Rowe

① They are sending the geol. & geochemistry of Kelsall Lake

② If we concur that a drill target is indicated we are to phone or write confirmation of this.

③ In this way we set up a 2000 ft "A" ore drilling program for next year for $40,000. 45,000

④ In addition he will talk to Woodcock re the bottom of the bigger rivers for geochem (stream sed. sampling) & call us re the results of conversation.

⑤ Meeting transferred to mid January ?.

F.C. Runge

Discussed & approved by VME and on phone with Dr. Cleveland

GRAND & TOY LIMITED

Carcross - Y.T. Northwest Agreement file

File note: Nov. 25, 1990.

The following work was carried out in the review of the Carcross project:

1. The copper occurrences were plotted on magnetic maps 105-D-11 and 105-D-10, Whitehorse copper belt (GSC paper 63-41). The Ag, As, Pb, Sb and Cu showings of the Montana Mountain area and Coalbin Hill and Mt. Anderson area (Yukon Antimony) were plotted on magnetic map 105D. (1:4 miles).

The Casino copper discovery 69/10 of Brameda Resources was plotted on the magnetic maps 115 J, 115 K E/2 and on 115 J 15 and 115 J 10.

There is no magnetic correlation between these occurrences. Orvel Leigh of Derry, Michener and Booth told me the same. He had worked several seasons in the Yukon and in 1970 in the Dawson Range.

Literature (GSC) was reviewed re: project area. General impression: Coast range intrusion deficient as ore bringer. Only a few commercial deposits exist at edge of intrusion — metasomatic replacement of Triassic (Lewes River) limestone.

Some comparison checks were made between Woodcock and Tupper on anomalies. Recommended investigation of 1/3 of project area below tree line by stream silt geochemistry.

Hans D. Knipping

Northwest Agreement - Nov. 17/70

NTS 105 D (Whitehorse area) (J.O. Wheeler, 1961 - Mem. 312)
All metalliferous deposits close to granitic contacts
in favoured contact zones with LS or lime-rich rock of any age.
Irregular - difficult to explore

Au-Ag and Sb-Ag - fracture systems extensive for quartz veins,
but sulphide content of veins irregular - difficult to evaluate.

HDK: info partly from Consultant, who worked 4 seasons in the Yukon
Orval Leigh of Denny, Michener and Booth.

Plotting of deposits on 105 D (& 115 A) - no magnetic correlation
with the deposits. The Casino porphyry copper plug cannot be recog-
nized on magnetic maps (found by geochemistry)

Check on anomalies not advisable in view of the fact that Tuppe (p. 5)
had difficulty in locating anomalies.

Coast crystalline complex (Coast Range batholith) neglected
by mining companies because of scarcity of known deposits (Woodcock)

Geoplata 1968

Tupper: Silt sample 1 sample per 2 square miles.
Limited to above tree line (accessible to Helicopter) (1/3 of area below tree line)
Cu, Pb, Zn, some for Mo, Ag, As.

1 Whitehorse copper belt
2 Mount Anderson gold-antimony belt
3 Montana Mountain gold-silver belt
4 Rainy Hollow copper belt
5 Square Range base metal belt.

} 5 belts did not stand out as anomalous belts
1 & 3 (most significant belts) not detected in Geoplata survey
No orientation surveys run on these belts or nature of dispersion trains resulting from them.

Disconcerting follow up on geochem program - major occurrences/prospects not detected

Woodcock: p. 12. No outstanding Cu anomalies
8 anomalies warrant further investigation 1. vicinity of Cu-rich Haines Road region
2. eastern part of Coast range batholith (see Whitehorse Cu belt)

Some high Mo values —.

PACIFIC PETROLEUMS LTD.
#308 - 580 Granville Street,
Vancouver 2, B.C.

GULF OIL CANADA LIMITED
RECEIVED
APR 16 1969
EXPLORATION

April 15, 1969

Mr. W. H. Dow,
Gulf Oil Canada Limited,
707 - 7th Avenue S. W.,
Calgary, Alberta

Re. Carcross Project

Dear Walter:

Please find enclosed herewith copies of the final batch of assays received from Vancouver Geochemical Laboratories, North Vancouver, B.C.

Yours truly,
PACIFIC PETROLEUMS LTD.

Bob Rowe

rbr/vb

R. B. Rowe

Enclosures.

VANCOUVER GEOCHEMICAL LABORATORIES LTD.

RECEIVED
APR 14 1969
VANCOUVER OFFICE
Minerals Exploration

GEOCHEMICAL ANALYTICAL REPORT

1521 Pemberton Ave.
North Vancouver, B.C.
988-2171

Date: March 30, 1969

Report Number: 69-04-011

From: Pacific Petroleum Ltd
Calgary, Alberta.

Submitted By: Mr. J. R. Woodcock

Report On: 357 geochem samples

Analyzed For: As, Ag, Pb, Mn, Ni, Co

Date Sample Received:

Date Report Mailed: April 10, 1969

Weight of Sample Used: 1.00 gr

Extraction: hot HCl, HNO_3, $HClO_4$

Method of Analyses: Ag, Pb, Mn, Ni, Co by A A S
As, by Modified ~~Bett~~* Gutzeit

Volume of Dilution: 20 ml

Instrument Used: Techtron A A 4

Disposition of Sieved Material: in file

Analyst: C. Chun

Signed: Conway Chun

REMARKS: ND = None detected , "-1" = less than 1.0 ppm
Detection limite of As , 5 ppm
Detection limite of Ag, 1.0 ppm

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instrument used.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 7	20	27	-1	575			
02	12	ND	12	-1	175			
03	274	5	86	-1	1150			
04	290	900	176	1.5	1200			
05	292	100	120	1.0	700			
06	293	50	120	1.0	1200			
07	331	5	22	-1	325			
08	332	20	36	-1	525			
09	333	5	46	1.5	725			
10	334	5	32	-1	450			
11	341	5	27	1.5	450			
12	342	ND	32	-1	825			
13	343	ND	22	1.0	700			
14	344	ND	42	-1	625			
15	Y - 350	10	42	-1	550			

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1521 Pemberton Ave.
North Vancouver, B.C.
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Date: March 30 ,1969 Report Number: 9-04-011

From: Pacific Petroleum Analyst: C. C.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 352	10	42	2.0	575			
02	354	10	42	1.0	750			
03	355	15	32	1.0	1000			
04	414	25	120	2.0	1400			
05	415	20	90	1.0	1050			
06	423	ND	50	1.5	700			
07	424	ND	32	-1	450			
08	425	ND	23	-1	375			
09	426	ND	37	1.0	1900			
10	428	ND	86	2.0	1350			
11	430	5	56	1.5	850			
12	431	ND	42	1.0	825			
13	432	ND	50	1.5	825			
14	433	ND	37	1.0	500			
15	460	ND	106	2.0	750			
16	461	ND	106	1.5	900			
17	462	25	90	1.0	900			
18	463	40	76	1.5	900			
19	464	80	47	1.5	1000			
20	621	40	82	2.0	625			
21	622	5	42	1.5	750			
22	623	50	126	2.5	4100			
23	626	ND	100	1.5	1050			
24	628	5	46	-1	700			
25	669	ND	375	6.0	575			
26	672	ND	146	-1	700			
27	673	5	130	2.0	675			
28	674	20	95	1.0	625			
29	675	5	110	2.0	450			
30	Y - 676	No sample		—	—			

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From: Pacific Petroleums Ltd Analyst: C. C.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 677	15	220	2.0	1000			
02	726	180	75	-1	825			
03	729	50	95	2.0	1200			
04	738	85	90	1.0	1150			
05	739	___	160	-1	1200			
06	742	40	100	-1	975			
07	748	75	106	3.0	475			
08	749	10	60	2.0	450			
09	750	40	90	2.0	525			
10	752	10	47	1.0	800			
11	753	20	47	-1	1150			
12	783	ND	42	-1	850			
13	792	ND	50	-1	675			
14	1534	ND	50	-1	325			
15	1742	ND	32	-1	500			
16	1743	ND	47	-1	400			
17	1972	10	47	-1	475			
18	1974	30	100	1.5	1050			
19	1975	50	66	1.5	900			
20	1976	90	66	1.5	800			
21	1977	ND	42	-1	1150			
22	1978	ND	32	1.0	1050			
23	3221	ND	32	-1	250			
24	3747	ND	23	-1	300			
25	3843	10	42	2.0	900			
26	4001	25	37	1.5	1000			
27	4002	10	42	1.5	1350			
28	4003	25	32	2.0	925			
29	9010	ND	23	-1	225			
30	Y - 2564	---	176	3.5	550			

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From: Pacific Petroleums Ltd. Analyst: C. C.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 2565		77	1.0	725			
02	2567		22	1.0	475			
03	2703		22	-1	375			
04	~~2706~~				~~400~~			see page 7
05	2763		27	-1	450			
06	2764		42	-1	950			
07	3225		27	-1	650			
08	~~3226~~				~~580~~			see page 9
09	3228		32	-1	500			
10	3229		27	-1	300			
11	3456		50	1.0	1800			
12	3743		22	-1	200			
13	3744		50	-1	800			
14	3745		22	-1	275			
15	2920		27	-1	350			
16	2921		50	-1	240			
17	2922		36	-1	225			
18	2923		60	-1	275			
19	2924		36	-1	550			
20	2926		46	2.0	625			
21	2927		42	1.5	600			
22	2928		36	-1	175			
23	2929		70	-1	275			
24	2930		56	1.0	800			
25	817		32	2.5	1350			
26	820		22	1.0	600			
27	822		6	-1	325			
28	824		17	-1	750			
29	2650		10	-1	375			
30	Y - 2651		22	-1	500			

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Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn	Ni	Co	Remarks
01	Y - 2648		17	-1	375			
02	1400		27	1.5	340	100	16	
03	1403		17	-1	275	50	10	
04	1404		22	-1	463	650	40	
05	1405		22	-1	375	325	25	
06	1406		12	1.0	450	175	25	
07	1407		27	-1	425	150	25	
08	1410		32	-1	500	175	30	
09	8			1.5	275			
10	900			1.5	280			
11	670			1.5	500			
12	737			-1	1520			
13	779			-1	500			
14	1539			2.5	1400			
15	2535			-1	600			
16	3452			1.5	800			
17	3453			-1	600			
18	3454			-1	450			
19	3455			1.5	700			
20	3737			1.5	340			
21	3822			-1	1100			
22	697	50	40	1.5	740			
23	698	No sample		~~6~~**********				
24	699	No sample		*******				
25	700	ND	32	-1	520			
26	701	40	32	-1	600			
27	4052	5	20	-1	200			
28	4053	40	36	-1	400			
29	4054	ND	40	-1	580			
30	Y- 4055	30	32	-1	280			

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From: Pacific Petroleums Ltd Analyst: C. C.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 4057	20	16	-1	230			
02	4058	ND	48	-1	480			
03	4059	ND	20	-1	580			
04	4069	ND	40	-1	460			
05	4070	ND	28	-1	440			
06	416	ND	128	1.0	1600			
07	1781	20	100	2.0	840			
08	1782	ND	60	-1	540			
09	1784	5	60	-1	420			
10	3143	ND	16	-1	220			
11	3144	ND	8	-1	210			
12	3146	ND	8	-1	220			
13	3147	ND	12	-1	220			
14	3221	ND	24	-1	300			
15	1776	ND	88	-1	660			
16	1777	ND	310	2.0	1360			
17	1786	55	180	2.5	840			
18	3145	ND	280	-1	340			
19	3222	ND	40	-1	680			
20	3454	ND	40	-1	460			
21	3737	ND	160	-1	340			
22	1626	30	32	-1	540			
23	1629	50	28	-1	660			
24	1642	ND	8	-1	380			
25	1865	10	25	-1	360			
26	1866	ND	20	-1	320			
27	737	70	60	1.5	1520			
28	~~749~~ **********	**********	**********	**********	**********			see page 3
29	751	180	40	1.5	880			
30	Y - 755	ND	16	1.5	4000			

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From: Pacific Petroleums Ltd Analyst: C. C.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 789	ND	32	-1	1120			
02	790	ND	60	-1	90			
03	~~817~~ **********	**********	**********	**********	**********			see page 4
04	~~820~~ **********	**********	**********	**********	**********			" " "
05	~~822~~ **********	**********	**********	**********	**********			" " "
06	895	20	260	-1	540			
07	896	ND	40	1.5	540			
08	2504	ND	40	-1	490			
09	2506	ND	32	-1	740			
10	2507	ND	180	-1	700			
11	2508	ND	55	-1	660			
12	2513	ND	80	-1	350			
13	2514	ND	48	1.0	1080			
14	2515	ND	60	-1	900			
15	~~2535~~ **********	**********	**********	**********	~~600~~ **********			
16	2554	ND	20	-1	440			
17	2555	ND	16	-1	460			
18	2556	ND	32	1.0	560			
19	2557	ND	12	-1	170			
20	2558	ND	64	1.5	500			
21	2560	20	48	1.0	740			
22	2561	150	88	2.0	620			
23	2562	100	88	2.0	540			
24	2564	20	168	4.5	580			
25	~~2565~~ **********	**********	**********	**********	725 **********			
26	2566	15	152	1.5	460			
27	2578	15	60	2.0	680			
28	2706	ND	24	-1	400			
29	2900	ND	40	-1	400			
30	Y - 2901	ND	48	1.5	420			

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Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 2915	ND	20	-1	300			
02	2919	ND	60	-1	550			
03	2933	ND	180	-1	240			
04	2934	150	20	-1	380			
05	2935	ND	32	-1	440			
06	2936	ND	20	-1	400			
07	2937	ND	32	-1	5450			
08	2939	ND	60	-1	960			
09	2940	ND	40	-1	440			
10	2942	ND	24	-1	400			
11	2950	40	24	2.0	820			
12	1605	10	20	-1	420			
13	1867	85	380	4.5	740			
14	1868	220	175	2.5	620			
15	5242	50	16	-1	200			
16	5246	ND	28	-1	450			
17	5247	60	16	-1	1100			
18	5626	ND	40	-1	500			
19	5627	ND	40	-1	720			
20	5628	ND	40	-1	520			
21	5655	10	60	-1	600			
22	5657	20	28	-1	1120			
23	5664	40	56	1.5	480			
24	5665	ND	20	-1	250			
25	5841	ND	50	-1	310			
26	5842	10	40	1.5	660			
27	5883	ND	180	1.5	760			
28	5884	ND	200	2.0	980			
29	5888	10	80	1.0	860			
30	Y - 5890	ND	40	-1	520			

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From: Pacific Petroleums Ltd. Analyst: C. C.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 3226	ND	64	-1	580			
02	3738	ND	68	1.0	420			
03	3739	ND	68	1.0	460			
04	1746	ND	160	1.5	1000			
05	3223	ND	120	-1	400			
06	3224	ND	120	-1	520			
07	3740	ND	18	-1	400			
08	~~669~~	ND	**********	**********	575			
09	670	35	**********	**********	**********			
10	671	20	**********	**********	**********			
11	~~672~~	20	**********	**********	**********			see page 2
12	~~673~~	25	**********	**********	**********			"
13	~~674~~	50	**********	**********	**********			"
14	~~675~~	15	**********	**********	**********			"
15	~~676~~	No sample	**********	**********	**********			
16	1587	ND	20	-1	210			
17	1588	ND	20	-1	290			
18	1589	ND	20	-1	290			
19	1590	ND	16	-1	250			
20	1591	ND	20	-1	400			
21	1592	30	32	-1	460			
22	2074	35	20	-1	580			
23	2075	30	28	-1	640			
24	2076	ND	32	1.0	560			
25	2077	30	28	1.5	620			
26	2078	ND	32	-1	860			
27	2079	ND	12	-1	290			
28	2080	ND	36	1.0	740			
29	2081	ND	12	-1	640			
30	Y - 2082	ND	28	-1	640			

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From: Pacific Petroleums Ltd Analyst: C. C.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 2083	ND	20	-1	450			
02	2084	25	28	-1	440			
03	2085	ND	28	1.0	440			
04	2086	35	32	1.0	360			
05	2087	30	40	1.5	680			
06	2088	55	120	2.5	1000			
07	2089	ND	36	-1	600			
08	2090	ND	24	-1	540			
09	2091	ND	36	-1	980			
10	2092	ND	20	-1	420			
11	2093	ND	16	-1	410			
12	2094	ND	28	-1	470			
13	2095	ND	44	-1	720			
14	2096	ND	28	-1	470			
15	2097	ND	20	-1	300			
16	2104	ND	40	1.5	700			
17	2105	ND	20	-1	500			
18	2106	ND	20	-1	460			
19	2107	ND	20	-1	420			
20	2108	ND	45	-1	700			
21	2109	ND	20	-1	440			
22	2110	ND	48	-1	660			
23	2111	ND	60	1.5	980			
24	2112	25	60	2.0	800			
25	2113	30	48	1.5	360			
26	2114	ND	32	1.0	480			
27	2115	20	48	1.0	640			
28	2116	25	24	1.0	460			
29	2117	20	36	-1	400			
30	Y - 2118	ND	32	-1	760			

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From: Pacific Petroleums Ltd Analyst: C. C.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 2119	ND	28	-1	480			
02	2120	60	56	1.5	740			
03	2121	ND	28	1.0	360			
04	2122	ND	20	-1	260			
05	2123	ND	20	-1	440			
06	2124	ND	16	-1	280			
07	2098	55	40	2.0	860			
08	2099	ND	32	1.5	620			
09	2100	ND	32	1.0	500			
10	2101	ND	32	1.5	480			
11	2102	35	32	1.5	620			
12	2103	ND	36	1.0	620			
13	~~2621~~	~~45~~			~~660~~			see page 2
14	~~622~~	~~20~~			~~640~~			
15	625	65	-------		680			
16	627	70	-------		2000			
17	~~628~~	~~75~~			~~880~~			
18	629	ND	-------		320			
19	270	ND	36	-1	860			
20	273	ND	48	-1	760			
21	275	10	56	1.5	700			
22	276	10	60	-1	620			
23	277	ND	40	-1	580			
24	278	15	140	2.5	1400			
25	279	10	80	2.0	760			
26	281	ND	40	-1	580			
27	282	ND	48	-1	580			
28	283	ND	100	1.5	900			
29	284	ND	52	1.0	1000			
30	Y - 285	ND	60	1.0	800			

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From: Pacific Petroleums Ltd. Analyst: C. C.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 286	ND	48	-1	500			
02	287	ND	40	-1	700			
03	288	ND	80	-1	720			
04	289	180	88	-1	700			
05	294	ND	72	1.5	1080			
06	319	170	80	-1	760			
07	323	50	40	-1	620			
08	359	ND	48	-1	820			
09	360	ND	28	-1	440			
10	364	40	52	-1	540			
11	365	ND	20	-1	780			
12	367	ND	40	-1	620			
13	369	ND	72	-1	1080			
14	370	ND	40	-1	640			
15	371	ND	72	-1	800			
16	618	ND	100	1.5	1120			
17	619	15	92	-1	1000			
18	620	ND	120	2.0	900			
19	631	ND	40	-1	640			
20	632	ND	28	-1	560			
21	633	ND	20	-1	460			
22	634	30	40	-1	800			
23	635	ND	20	-1	380			
24	636	ND	20	-1	380			
25	637	ND	20	-1	480			
26	640	ND	20	-1	500			
27	641	ND	20	-1	580			
28	642	ND	52	-1	860			
29	645	ND	30	-1	440			
30	Y - 647	180	160	6.0	1080			

VANCOUVER GEOCHEMICAL LABORATORIES LTD.

GEOCHEMICAL ANALYTICAL REPORT

1521 Pemberton Ave.
North Vancouver, B.C.
988-2171

Date: March 30, 1969 Report Number: 69-04-011

From: Pacific Petroleums Ltd. Analyst: C. C.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 648	50	3.0	80	1040			
02	649	200	7.5	320	3500			
03	650	20	1.5	60	720			
04	652	60	-1	40	620			
05	653	170	5.0	140	840			
06	655	150	-1	72	640			
07	656	150	1.5	60	1160			
08	657	200	2.0	60	740			
09	658	70	1.5	52	360			
10	659	10	-1	20	300			
11	660	30	1.5	48	780			
12	661	50	2.0	148	640			
13	662	30	2.0	120	360			
14	663	10	-1	80	720			
15	664	50	-1	68	560			
16	665	25	-1	160	420			
17	666	ND	-1	80	630			
18	667	30	-1	52	580			
19	668	10	1.5	120	800			
20	678	ND	-1	32	420			
21	679	ND	1.5	120	1040			
22	680	ND	-1	56	680			
23	681	ND	-1	40	400			
24	683	70	1.5	60	740			
25	686	ND	1.5	92	640			
26	687	100	-1	110	1000			
27	689	10	-1	32	580			
28	691	ND	-1	48	880			
29	692	ND	-1	32	460			
30	Y - 693	10	-1	40	1240			

VANCOUVER GEOCHEMICAL LABORATORIES LTD.

GEOCHEMICAL ANALYTICAL REPORT

1521 Pemberton Ave.
North Vancouver, B.C.
988-2171

Date: March 30, 1969 Report Number: 69-04-011

From: Pacific Petroleums Ltd. Analyst: C. C.

Lab. No.	Sample Number	~~Mo~~ As	~~Cu~~ Pb	Ag	Mn			Remarks
01	Y - 694	10	-1	64	1080			
02	Y - 696	5	-1	48	780			
03								
04								
05								
06								
07								
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

PACIFIC PETROLEUMS LTD.
#408 - 580 Granville Street,
Vancouver 2, B.C. PHONE NO. - 688-6929 A.C. 604

July 6, 1970

Mr. N. M. Ediger,
Gulf Minerals Company,
1300 - 10 King Street East,
Toronto 1, Ontario.

RE. CARCROSS PROJECT

Dear Nick:

Enclosed please find Tupper's sketch-map showing the uranium silt sample areas. It appears that the sample sites are in the following map sheets:

114 P: NW, SW, NE & SE
105 D: NW, SW, SE
104 M: NW, SE

With regard to the 36 anomalous samples-- I have asked Vancouver Geochemical Laboratories to pull out these samples and we will forward them to you in a few days. I doubt that there will be much material remaining after all this analytical work.

Best regards,

Yours truly,
PACIFIC PETROLEUMS LTD.

Bob Rowe

R. B. Rowe

rbr/vb

Enclosure: (1)

cc: Dr. C. E. Cleveland

July 2, 1970.

Mr. R. B. Rowe,
Pacific Petroleums Limited,
Suite 408,
580 Granville Street,
Vancouver 2, B.C.

Dear Bob:

We have checked through the uranium analysis results of the Carcross silt samples. A frequency distribution of the results indicates that 36 samples containing greater than 20ppm uranium are anomalous. These samples are tabulated on the attached list, showing sample numbers and ppm uranium.

If agreeable with you, we could have our geologist examine the anomalous samples. It may then be advisable to have a mineralogical and petrographic analysis made of selected samples to determine the source of the uranium and associated rock types. This, in turn, should help determine which of the anomalous areas are worth following up in the field.

If you are in agreement with the above procedure, would you please arrange to have the 36 samples from the attached sheet sent to us.

Very truly yours,

Original signed
By W. Y.

N. M. Ediger

WY/gm

Enclosures - 2

SAMPLES > 19.9

MARKING	U	REMARKS
Y - 202	32.0	- Map 105 D SW
Y - 240	26.0	"
Y - 241	50.0	"
Y - 252	31.2	" 0.08 g
Y - 255	21.4	" 0.15 g
Y - 256	30.0	"
Y - 257	22.0	"
Y - 259	30.0	"
Y - 295	20.0	"
Y - 304	132.0	"
Y - 305	82.0	"
Y - 306	21.0	"
Y - 313	34.0	"
Y - 384	29.0	"
Y - 657	26.0	"
Y - 662	70.0	"
Y - 670	80.0	"
Y - 677	40.0	"
Y - 680	22.0	"
Y - 692	56.0	"
Y - 1427	34.0	- 104 M NE
Y - 1820	52.0	" 0.09 g
Y - 1847	66.0	"
Y - 2113	22.0	- Map 104 MNW
Y - 5178	92.0	- Map 114 P NE

Cont'd.....

SAMPLES > 19.9 (cont'd)

MARKING	U	REMARKS
Y - 5188	36.0	
Y - 5195	32.0	
Y - 5201	22.0	
Y - 5204	54.0	
Y - 5206	26.0	
Y - 5214	28.0	
Y - 5254	32.0	
Y - 5860	40.0	
Y - 5866	56.0	
Y - 5898	42.0	
Y - 5951	52.0	0.02 g

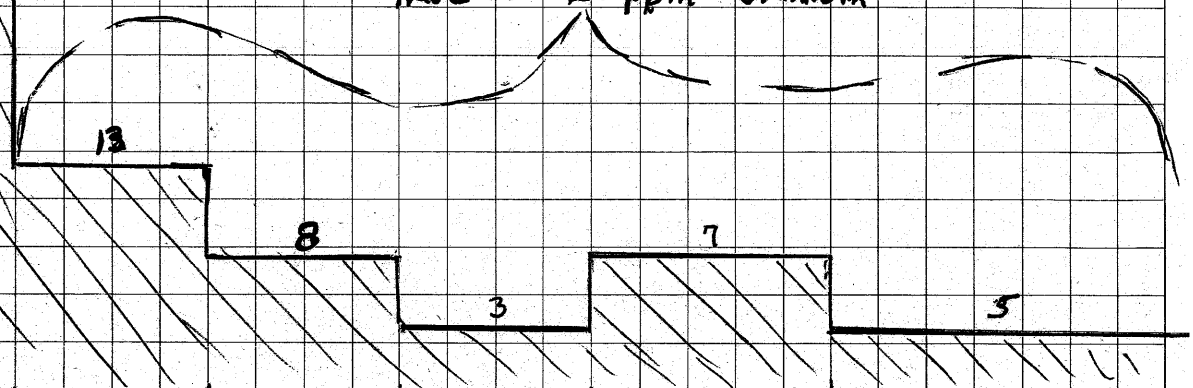
1675 SAMPLES

85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
5

FREQUENCY DISTRIBUTION OF SELECTED SAMPLES FROM CARCROSS PROJECT

PPM URANIUM

36 Samples out of 1841 Total Samples have > 20 ppm Uranium



Carlyle - 14
Edger

PACIFIC PETROLEUMS LTD.

P.O. BOX 6666 • CALGARY 2, ALBERTA • PHONE 266-8901

GULF OIL CANADA LIMITED
RECEIVED
JUL 3 1969
EXPLORATION

July 2, 1969

Dr. E. A. Schiller
Ashland Oil & Refining Company
736 - 8th Avenue S. W.
Calgary, Alberta

Mr. W. H. Dow
Mineral Development
Gulf Oil Canada Limited
P. O. Box 130
Calgary 2, Alberta

Gentlemen:

Re: Rose Group of Mineral Claims
Yukon Territory

With reference to the above captioned mineral claims staked in the Carcross area for the Joint Venture by Geophoto Services in September 1968, both Dr. W. Tupper, Consulting Geologist and Dr. R. Rowe of Pacific Petroleums Ltd. have examined the mineral claims. Dr. Rowe recommends allowing the claims to lapse. I feel that Dr. Tupper is in accord, but I will await his decision before we formally decide on allowing the claims to lapse.

GULF OIL CANADA LTD.
CALGARY, ALTA.
RECEIVED
AUG 1969

Yours very truly,

C. E. Cleveland

C. E. Cleveland
Manager Mineral Exploration

CEC/ls
Encl. (2)

PACIFIC PETROLEUMS LTD.
#308 - 580 Granville Street,
Vancouver 2, B.C.

INTER - OFFICE MEMORANDUM

TO: Dr. C. E. Cleveland - Calgary, Alberta

DATE: June 27, 1969

FROM: Dr. R. B. Rowe - Vancouver, B.C.

FILE: N.T. S.
#104 - #105
#114-#115

SUBJECT: Surrender of Rose Group of Claims - Carcross Project

Recommendation

It is hereby recommended that the Rose Group of mining claims be allowed to lapse on their due dates as follows:

Claims #1 to #16 inclusive	September 4, 1969
Claims #16 to #24 inclusive	September 5, 1969

These claims were staked in 1968 by Geophoto Services Ltd., of Calgary on behalf of the Carcross Project partners to cover an occurrence of sphalerite and galena.

Follow-up work in 1969 has failed to produce any evidence that the occurrence is of economic interest.

Property and Location

The Rose Group consists of 24 mining claims totalling about 1,225 acres, and is located 44 miles southwest of Whitehorse, Yukon Territory.

N.T.S. 105 - D - W

Partners and Percentage Interests

Pacific (Operator)	33 1/3%
Gulf	33 1/3%
Ashland	33 1/3%

Work Done and Results

During the course of reconnaissance stream silt sampling in 1968 by Geophoto Services Ltd., on behalf of the Carcross Project partners, an occurrence of sphalerite and galena was found near the site of a single, isolated, high zinc reading.

E. A. Schiller of Ashland and the writer attempted to examine the occurrence in late September of 1968 but were not successful due

to the presence of several inches of snow.

As part of the 1969 follow-up program, Dr. W. M. Tupper, of Carleton University, assisted by W. Ostifachuck, spent two days mapping the occurrence and the adjacent area and collecting additional silt samples. Tupper located three small lenses in marble containing sphalerite and minor galena in a matrix of calc - silicate minerals. The lenses are about 10 inches in maximum width and 6 feet in length and the occurrence is in an area of about 100 feet x 100 feet. He found only insignificant amounts of heavy metals in the silt samples from the stream draining the area. These facts indicate to Tupper that no large base metal deposit occurs in the Rose claim group.

The writer visited the occurrence in company with Tupper and Ostifachuck on June 25th. In addition to examining the occurrence, all accessible outcrops within a half mile radius of the occurrence were examined and additional silt samples from stations selected by the writer were analyzed for heavy metals. One high silt reading was obtained at a station about 200 feet downstream from the occurrence, however, only background values appeared at several stations located at 200 - foot intervals both down-and up-stream from the occurrence.

The lack of a decay train in the silts of the stream that drains the area together with the insignificant nature of the surface expression of the sphalerite - galena occurrence constitute strong evidence that no metal deposit of economic significance occurs on the claims.

Dr. Tupper and the writer concur that no further work is warranted.

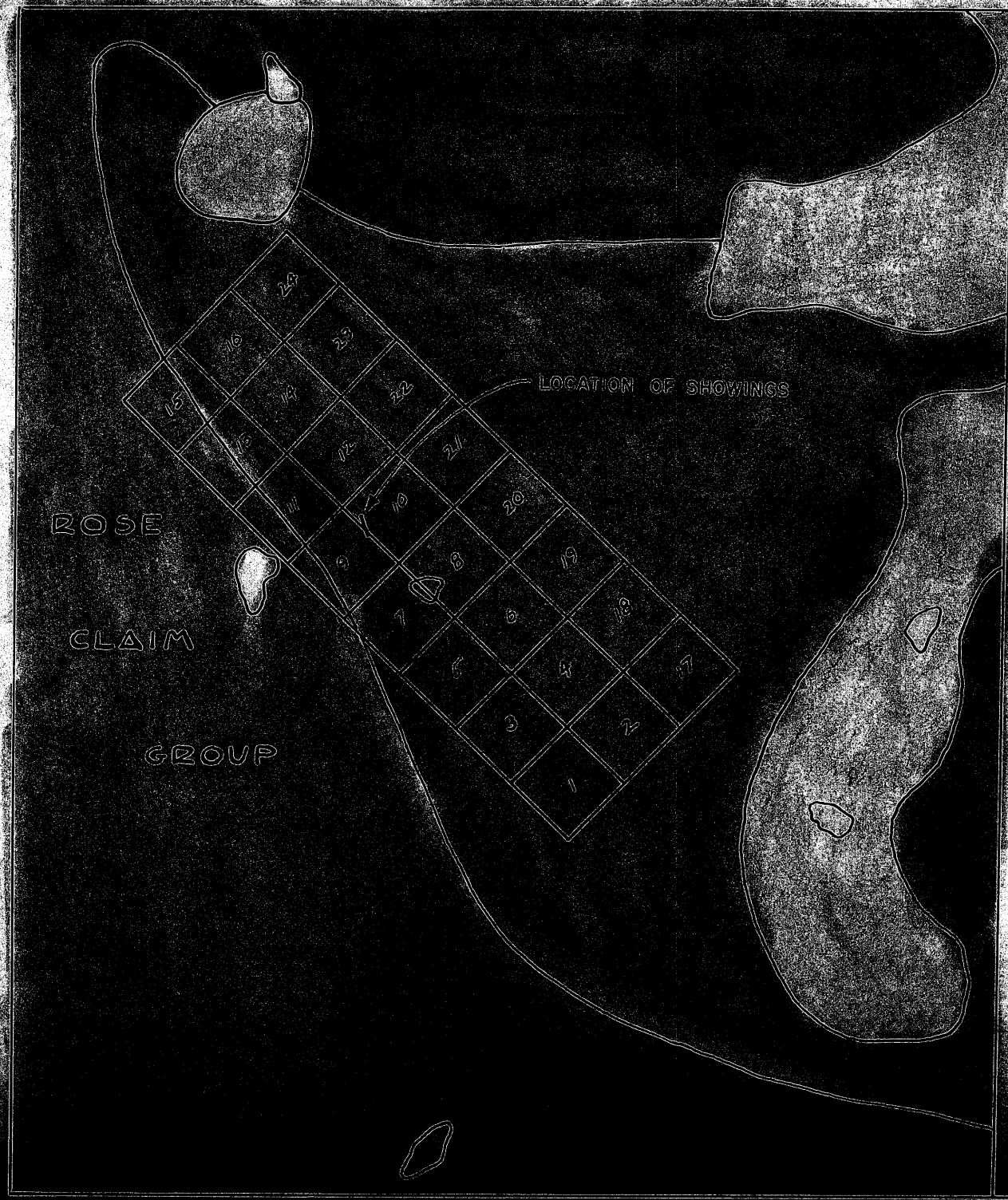
Expenditure

The total to date is estimated to be about $2,500.

R. B. Rowe

rbr/vb

Enclosures (2)



MAP OF ROSE GROUP OF MINING CLAIMS CARCROSS PROJECT AREA

N

SCALE IN MILES

0 .5 1.0

GEOLOGY AFTER GEOPHOTO SERVICES LTD.

GEOLOGICAL UNITS

ALLUVIUM, GLACIAL MATERIAL

GRANITIC ROCKS

SEDIMENTARY AND METAVOLCANIC ROCKS

R B Rowe, June 26/69

LOCATION OF ROSE CLAIMS

MAP SHOWING

TRUE NORTH

WHITEHORSE

LAKE

FISH

ROSE CLAIMS

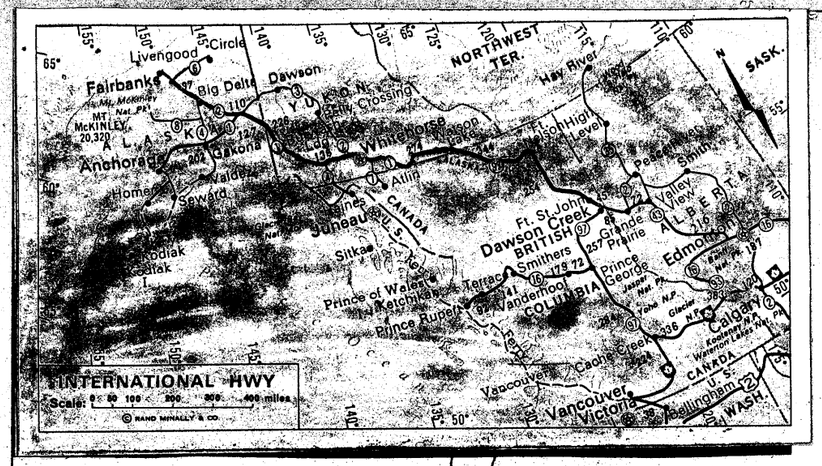
ROSE LAKE

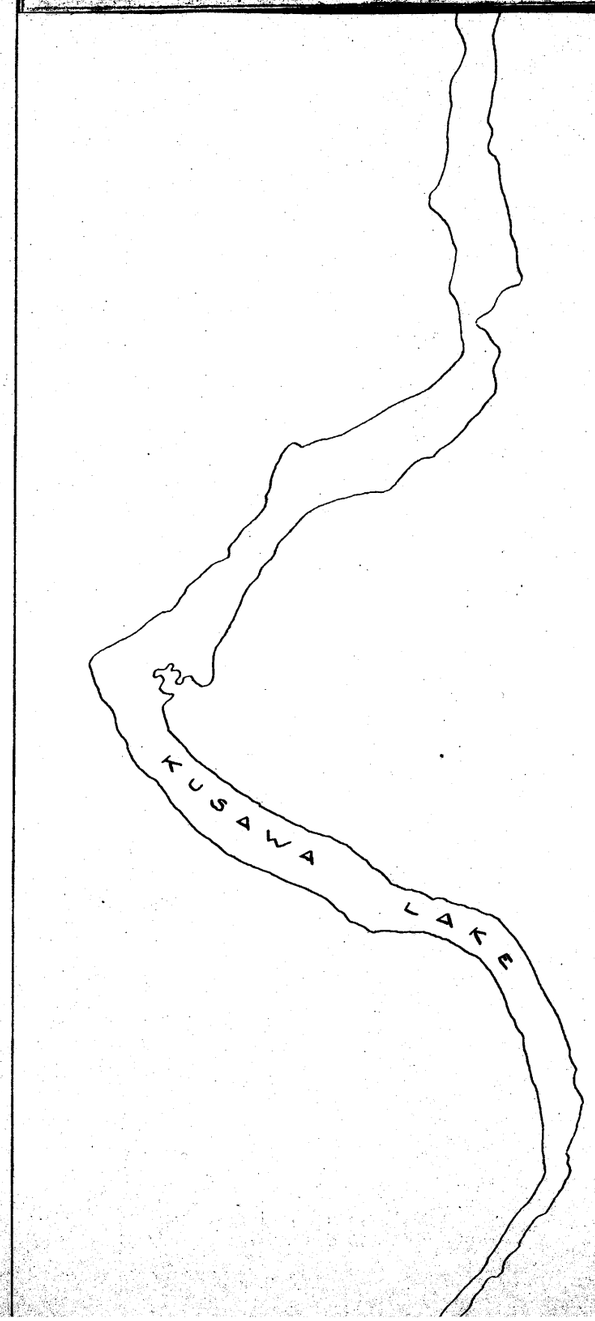
JAKE

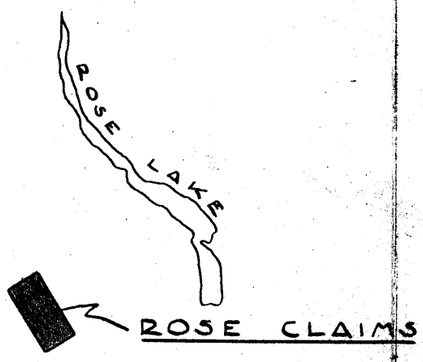
YUKON TERRITORY

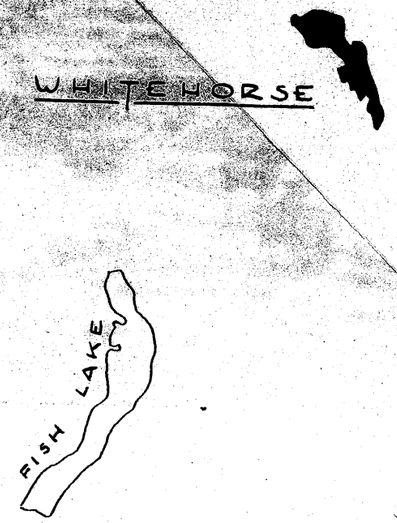
INTERNATIONAL HIWAY

Scale 1:1,000,000 30 0 30 miles









TRUE NORTH

MAP SHOWING

LOCATION OF ROSE CLAIMS

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C., CANADA TELEPHONE 604-988-2177

RECEIVED
MAY 28 1970
VANCOUVER OFFICE
Minerals Exploration

GEOCHEMICAL ANALYTICAL REPORT

REPORT No. 70-73-001 DATE May 28, 1970

SAMPLES SUBMITTED BY in file COMPANY Pacific Petroleums Ltd.

SHIPPED VIA n/a FROM as above

REPORT ON 1841 samples for Uranium DATE SAMPLES ARRIVED 1969 samples

* * *

3 COPIES OF THIS REPORT SENT TO:

(1) Pacific Petroleums Ltd.,
510 - 580 Granville Street,
(2) Vancouver, B. C.
(3)

TRANSMITTED BY:

delivered by hand

SAMPLES SIFTED ~~OR CRUSHED~~ TO -80 MESH WEIGHT USED 0.25 g

FINAL VOLUME 10 ml ALIQUOT USED 0.2 ml

* * *

METHOD OF ANALYSIS: Instrumental - Florometric

EXTRACTION: 4N HNO_3
Carbonate-Fluoride Flux - 0.75 gr. @ 650° C.

DETECTION: Jarrell-Ash Fluorometer - Model No. 26-000 with 3/4 inch diameter platinum dishes.

SAMPLES ASSIGNMENT: (a) PREPARED SAMPLES: returned to file

(b) REJECTS: none

* * *

ANALYST(S) D.Malo, L.Nicol TYPIST ati.

SUPERVISING CHEMIST L.Nicol, C.Chun CHECKED BY C. Chun

nd = none detected

Detection Limit 0.2 ppm.

COSTS:

SHIPPING CHARGE	$ --
SAMPLE PREPARATION	$ --
ANALYSIS	$ 3,682.00
OTHER	$ --
TO T A L	$ 3,682.00

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 1 OF 48

MARKING	U
Y - 182	2.6
83	1.4
84	1.0
85	1.0
86	1.4
87	.4
88	.8
89	.8
90	.8
92	1.2
93	3.4
94	4.0
95	1.6
96	2.2
97	4.0
98	9.6
199	4.8
200	1.0
1	1.4
Y - 202	32.0

MARKING	U
Y - 203	4.0
4	.8
5	2.4
6	7.2
7	.8
8	1.4
9	.4
10	.2
11	3.2
12	.4
13	.8
14	3.8
15	10.8
16	1.6
17	1.6
18	24
19	11.4
20	3.6
Y - 221	6.4

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 2 OF 48

MARKING	U			
Y - 222	1.6			
23	3.4			
24	2.0			
25	4.0			
26	9.2			
27	3.2			
28	6.0			
29	2.4			
30	2.8			
31	5.4			
32	1.6			
33	.8			
34	.8			
35	.4			
36	.8			
37	3.6			
38	.4			
39	.4			
40	26.0			
Y - 241	50.0			

MARKING	U	Remarks		
Y - 242	1.6			
43	12.8			
44	12.0			
45	10.4			
46	7.0			
47	7.0			
48	3.6			
49	5.0			
50	8.4			
51	12.4			
52	31.2	0.08 g		
53	6.8			
54	15.2			
55	21.4	0.15 g		
56	30.0			
57	22.0			
58	10.6			
59	30.0			
Y - 260	8.0			

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 3 OF 48

MARKING	U	Remarks	MARKING	U	Remarks
Y - 261	15.0				
62	16.0	0.05 g	Y - 281	.8	
63	—	No sample	82	.6	
64	—	No sample	83	1.6	
65	.8		84	1.6	
66	13.0		85	3.6	
67	—	No sample	86	3.3	0.12 g
68	1.2		87	11.6	
69	1.0		88	6.1	0.18 g
70	.4		89	.8	
71	—	No sample	90	.4	
72	5.4		92	.6	
73	.8		93	1.0	
74	.8		94	1.2	
75	.4		95	20.0	
76	.8		96	7.6	
77	.4		97	12.4	
78	.4		98	3.2	
79	.4		99	1.6	
Y - 280	12.6	0.15 g	Y - 300	5.0	

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 4 OF 48

MARKING	U				MARKING	U			
Y - 301	2.4								
2	3.0				Y - 321	1.4			
3	.8				22	2.2			
4	132.0				23	1.4			
5	82.0				24	1.6			
6	21.0				25	1.0			
7	10.6				26	1.8			
8	2.6				27	1.6			
9	6.6				28	.8			
10	4.4				29	1.6			
11	3.6				30	1.0			
12	2.4				31	5.4			
13	34.0				32	1.2			
14	2.6				33	3.2			
15	2.2				34	1.6			
16	4.0				35	2.8			
17	1.2				336	2.2			
18	.8				359	5.6			
19	2.4				60	3.6			
Y - 320	3.4				Y - 361	—	No sample		

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 5 OF 48

MARKING	U
Y - 362	1.6
63	4.2
64	5.0
65	.6
66	1.6
67	14.0
68	1.0
69	1.6
70	.8
71	1.8
72	1.6
73	1.0
74	1.4
75 A	1.0
75 B	1.0
76	2.0
77	2.2
78	4.0
79	2.0
Y - 380	3.6

MARKING	U
Y - 381	2.6
82	5.4
83	18.4
84	29.0
85	8.2
86	2.2
87	1.2
88	3.6
89	4.2
90	13.0
91	2.0
92	1.2
93	1.8
94	4.2
95	4.8
96	3.8
97	1.8
98	4.4
Y - 399	15.2

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 6 OF 48

MARKING	U	Remarks
Y - 400	4.4	
1	6.4	
2	2.0	
3	2.4	
4	3.0	
5	.6	
6	.8	
7	—	No sample
8	3.0	
9	1.2	
10	2.0	
411	5.2	
588	.4	
89	1.0	0.10 g
90	.4	
91	.4	
92	.8	
93	.4	
94	.4	
Y - 595	.4	

MARKING	U	Remarks
Y - 596	1.4	
97	1.6	
98	.8	
99	1.0	
600	1.6	
1	2.8	
2	2.0	
3	2.0	
4	2.5	0.02 g
5	.4	
6	.4	
7	.4	
8	.4	
9	.4	
10	.4	
611	.4	
613	.4	
14	.8	
Y - 618	1.0	

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 7 OF 48

MARKING	U	Remarks		
Y - 619	.4			
20	.8			
642	1.6			
43	2.2			
44	1.2			
45	.4			
46	.6			
47	6.0			
48	5.2			
49	1.0			
50	5.0			
51	.4			
52	.4			
53	17.6			
54	1.1		0.22	g
55	3.6			
56	1.2			
57	26.0			
58	2.4			
Y - 659	10.6			

MARKING	U	Remarks		
Y - 660	1.2			
61	12.8			
62	70.0			
63	5.2			
64	7.4			
65	4.4			
66	3.6			
67	6.4			
68	7.6			
69	8.2			
70	80.0			
71	11.2			
72	3.4			
73	4.8			
74	1.6			
75	12.0			
76	6.5		0.10	g
77	40.0			
Y - 678	5.6			

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 8 OF 48

MARKING	U	Remarks
Y - 679	13.6	
80	22.0	
81	3.4	
82	4.8	
83	3.2	
84	4.8	
85	9.2	
86	7.4	
87	10.2	
88	12.4	
89	4.8	
90	4.5	0.19 g
91	2.6	
92	56.0	
93	1.8	
94	.6	
95	1.6	
96	1.2	
97	1.4	
Y - 698	—	No sample

MARKING	U	Remarks
Y - 699	—	No sample
700	2.2	
1	1.2	
2	2.8	
3	2.2	
4	.8	
5	4.8	
6	2.8	
7	9.6	
8	1.4	
9	3.2	
10	6.4	
11	3.4	
712	5.6	
876	.2	
877	.2	
961	.6	
62	.4	
Y - 963	.2	

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

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MARKING	U				MARKING	U			
Y - 964	.4								
65	.6				Y - 988	.6			
66	.8				89	.2			
67	.2				90	.6			
68	.6				91	.4			
69	1.2				92	.4			
70	.8				995	.4			
71	.8				1000	.4			
72	.4				1	.4			
73	.4				2	.4			
74	.8				3	.2			
75	.6				4	.2			
976	.8				5	2.6			
981	.4				6	2.0			
82	.4				9	2.8			
83	.4				16	.4			
84	.4				17	2.0			
85	.4				18	2.8			
86	.6				19	3.2			
Y - 987	.8				Y -1020	1.4			

REMARKS

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MARKING	U				MARKING	U			
Y - 1021	3.2								
22	.8				Y - 1048	.2			
23	2.2				49	.4			
24	1.4				50	.4			
25	1.2				51	.8			
26	2.8				52	.4			
27	3.4				53	1.2			
28	2.8				54	.4			
29	2.0				55	.4			
30	.2				56	.8			
31	2.0				57	.6			
32	1.6				58	.2			
40	7.6				59	.8			
41	3.6				60	.8			
42	2.4				61	1.2			
43	3.2				62	.8			
44	3.6				63	.8			
45	3.4				64	.8			
46	.8				65	.6			
Y - 1047	.8				Y - 1066	1.2			
REMARKS	✓					✓			

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MARKING	U				MARKING	U			
Y - 1067	2.0								
1215	.2				Y - 1277	nd			
16	.2				78	.4			
17	.2				79	.4			
18	.2				1280	1.2			
19	.2				1422	.2			
20	.2				23	.4			
64	.2				24	.4			
65	.4				25	.2			
66	.2				26	.4			
67	.2				27	34.0			-
68	.2				28	1.2			
69	.4				29	1.6			
70	.8				30	1.6			
71	.2				31	.4			
72	.2				32	1.4			
73	.4				33	1.8			
74	.2				34	2.2			
75	.4				35	1.2			
Y - 1276	.2				Y - 1436	2.4			

REMARKS ✓ ✓

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MARKING	U			
Y - 1437	3.6			
1438	9.2			
1546	5.0			
47	3.0			
48	4.6			
50	4.0			
57	14.0			
58	6.8			
60	16.4			
61	5.0			
85	5.0			
86	1.2			
87	.6			
88	6.0			
89	1.4			
90	1.2			
91	2.2			
92	3.8			
93	2.4			
Y - 1594	1.6			

MARKING	U	Remarks
Y - 1605	.2	
6	3.0	
7	—	No sample coarse
9	4.4	
10	.8	
11	—	No sample coarse
12	3.4	coarse
13	17.2	
14	.6	
15	.4	
16	.2	
17	.6	
18	2.4	
19	4.2	
20	2.8	
21	2.4	
22	1.4	
23	2.6	
Y - 1624	1.2	

REMARKS

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MARKING	U				MARKING	U			
Y - 1625	2.2								
26	1.4				Y - 1645	.2			
27	2.2				46	.6			
28	.4				47	.4			
29	.4				48	1.6			
30	5.2				49	1.6			
31	.4				50	2.2			
32	1.2				51	.8			
33	1.0				1652	1.6			
34	.2				1788	2.6			
35	.4				89	.6			
36	.4				90	.2			
37	1.4				91	.4			
38	.4				92	.4			
39	.2				93	.2			
40	.2				94	nd			
41	.2				95	.4			
42	.4				96	.4			
43	.2				97	.4			
Y - 1644	.2				Y - 1798	.2			

REMARKS

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MARKING	U			
Y - 1810	.2	Remarks		
11	.4			
12	3.6			
13	6.2			
14	2.8			
15	2.4			
16	17.0			
17	6.8			
18	3.4			
19	3.2			
20	52.0		0.09	g
22	1.2			
23	2.0			
24	3.6			
25	2.6			
26	1.6			
27	4.0			
28	16.6			
29	8.0			
Y - 1830	19.2			
REMARKS	✓			

MARKING	U	Remarks		
Y - 1831	6.0			
32	6.6			
33	2.8			
34	1.4			
35	1.6			
36	16.4			
37	12.2			
38	6.7		0.21	g
39	13.6			
40	9.2			
41	.6			
42	.4			
43	5.0			
44	1.2			
45	6.2			
46	5.2			
47	66.0			
48	2.2			
Y - 1849	4.0			
	✓			

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MARKING	U				MARKING	U	Remarks		
Y - 1850	8.2				Y - 1874	1.8			
51	4.2				75	.4			
52	6.4				76	.4			
53	5.6				77	.4			
54	4.2				78	.4			
55	4.0				79	.2			
56	2.8				80	.2			
57	6.0				81	5.0			
58	16.8				82	.6			
59	16.0				83	.4			
60	.4				84	1.6		0.19	g
61	.2				85	.2			
62	.2				86	.8			
63	.8				87	.4			
64	2.2				88	.2			
69	2.6				89	.4			
70	1.0				90	2.0		0.05	g
71	3.0				91	.4			
72	7.0				Y - 1892	.2			
Y - 1873	12.6								
REMARKS	✓					✓			

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MARKING	U			
Y - 1893	1.2			
94	.6			
95	.2			
96	.4			
97	.2			
98	.6			
99	.6			
1900	.4			
1	.2			
2	.6			
3	2.0			
4	.2			
5	.8			
6	.4			
7	.4			
8	.4			
9	.4			
10	.6			
11	.8			
Y - 1912	.6			

MARKING	U			
Y - 1913	.6			
14	.4			
15	.4			
16	.2			
17	.6			
18	.4			
19	2.0			
20	2.6			
21	1.0			
22	.6			
23	.8			
24	.4			
25	.4			
26	.4			
27	1.0			
28	.6			
29	.2			
30	.2			
Y - 1931	.2			

REMARKS

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MARKING	U		Remarks	
Y - 2072	8.4			
73	7.4			
74	1.4			
75	5.8			
76	2.8			
77	2.4			
78	1.2			
79	1.4			
80	.8			
81	.2			
82	.2			
83	1.8			
84	1.6			
85	1.6			
86	2.4			
87	.6			
88	4.7		0.17	g
89	.2			
90	2.4			
Y - 2091	5.0			

MARKING	U			
Y - 2092	.4			
93	1.4			
94	4.6			
95	.6			
96	5.8			
97	10.6			
2104	.4			
5	.4			
6	2.8			
7	2.0			
8	.2			
9	2.8			
10	nd			
11	1.8			
12	4.8			
13	22.0			
14	2.2			
15	1.6			
Y - 2116	1.6			

REMARKS

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MARKING	U				MARKING	U			
Y - 2117	6.4								
18	1.2				Y - 2985	.2			
19	8.2				86	.2			
20	6.2				87	nd			
21	5.2				88	.4			
22	4.2				90	.2			
23	4.4				91	.2			
24	2.8				92	.2			
51	.2				93	nd			
52	.4				94	nd			
53	2.0				95	.6			
54	.4				96	1.0			
55	.4				97	nd			
56	.4				98	.2			
57	.8				2999	.4			
58	.4				3000	.4			
59	1.2				1	.2			
60	.6				2	nd			
61	.2				3	.2			
Y - 2162	.2				Y - 3004	.2			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

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MARKING	U			
Y - 3005	2.8			
6	.2			
7	.6			
8	.2			
9	.2			
10	.2			
11	1.2			
12	.2			
3015	.8			
3234	7.8			
35	.4			
36	1.2			
37	.2			
38	.4			
39	.4			
40	.4			
41	.2			
42	.4			
43	.6			
Y - 3244	.4			

MARKING	U			
Y - 3245	.2			
46	.2			
47	.4			
50	.4			
51	.2			
52	.4			
53	.4			
54	nd			
55	.2			
56	.4			
57	.4			
58	.4			
59	.4			
60	.4			
61	.2			
62	.4			
63	.2			
64	nd			
Y - 3265	.2			

REMARKS

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MARKING	U				MARKING	U			
Y - 3266	.2								
67	.4				Y - 3287	nd			
68	.4				88	.2			
69	nd				3289	.8			
70	.4				3515	1.6			
71	.4				16	2.0			
72	.6				17	.2			
73	.4				18	.4			
74	.4				19	nd			
75	.6				20	.4			
76	5.0				21	3.6			
77	.6				22	.4			
78	.8				23	1.6			
79	.4				24	6.2			
80	.8				25	1.6			
82	.4				26	2.2			
83	.8				27	.8			
84	.8				3528	.2			
85	.4				3769	.4			
Y - 3286	1.8				Y - 3770	.2			

REMARKS

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MARKING	U				MARKING	U			
Y - 4117	1.0								
18	.2				Y - 4238	nd			
19	.6				39	.6			
20	2.6				40	.4			
21	.6				41	.6			
23	1.0				44	.2			
25	.8				45	nd			
26	1.6				46	.4			
27	2.4				47	nd			
28	.8				48	.2			
29	1.6				49	.2			
30	.2				50	.4			
31	.8				51	.2			
32	nd				52	.2			
33	.6				53	.2			
34	.2				54	.2			
35	2.0				55	.4			
36	.8				56	.4			
37	nd				57	.4			
Y - 4138	.2				Y - 4258	nd			

REMARKS

V ✓

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MARKING	U			
Y - 4259	nd			
60	nd			
61	.6			
62	.2			
63	.6			
64	.4			
65	nd			
66	.2			
67	.2			
68	nd			
69	nd			
70	nd			
71	nd			
4288	.2			
4338	.2			
39	.2			
40	.2			
41	.2			
42	.2			
Y - 4343	.2			

MARKING	U			
Y - 4344	.2			
45	.2			
46	.2			
47	.2			
48	.4			
49	.2			
50	nd			
51	nd			
52	.2			
53	1.4			
54	.6			
55	.2			
56	.2			
57	.2			
58	.2			
59	.2			
60	.2			
61	.4			
Y - 4362	.4			

REMARKS ✓ /

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MARKING	U				MARKING	U			
Y - 4363	.4								
64	nd				Y - 4384	1.6			
65	.2				85	.4			
66	.4				86	.8			
67	.2				87	.8			
68	nd				88	.4			
69	.4				89	3.0			
70	.2				4390	.4			
71	.2				4511	nd			
72	.2				12	.4			
73	.6				13	.4			
74	.6				15	.4			
76	.2				16	.2			
77	1.4				17	.4			
78	.2				18	.2			
79	.4				19	.2			
80	.2				20	.2			
81	.8				21	.2			
82	.2				22	.4			
Y - 4383	4.0				Y - 4523	.4			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

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MARKING	U				MARKING	U			
Y - 4524	.2								
25	.4				Y - 4921	.4			
26	.4				22	.4			
27	.2				23	.6			
28	.2				24	.2			
29	.4				25	.2			
34	.2				26	.2			
35	.2				27	.2			
36	.2				28	nd			
37	.4				29	.2			
38	.4				30	.4			
39	.2				31	.6			
40	.2				32	.2			
41	nd				33	.4			
42	.4				34	.6			
43	.2				35	.6			
4544	.6				36	.6			
4918	.2				37	.8			
19	.2				38	.2			
Y - 4920	.2				Y - 4939	.4			

REMARKS ✓ ✓

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Vancouver Geochemical Laboratories Ltd.

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MARKING	U				MARKING	U			
Y - 4940	.4								
41	.2				Y - 5056	nd			
42	.6				57	nd			
43	.4				58	.2			
44	.8				59	nd			
45	1.0				60	nd			
4946	1.0				61	nd			
5043	1.2				62	nd			
44	.4				63	nd			
45	.6				64	nd			
46	1.0				65	.2			
47	.6				66	.8			
48	.8				67	nd			
49	.4				68	2.8			
50	.2				69	.8			
51	nd				70	4.0			
52	nd				71	nd			
53	1.0				72	nd			
54	.2				73	nd			
Y - 5055	.8				Y - 5074	nd			

REMARKS

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MARKING	U				MARKING	U			
Y - 5075	.2								
76	nd				Y - 5095	nd			
77	nd				96	nd			
78	.4				97	.2			
79	.6				98	nd			
80	.8				99	.2			
81	6.6				5100	nd			
82	.6				1	nd			
83	.4				2	nd			
84	nd				3	nd			
85	.6				4	.2			
86	.4				5	.2			
87	.8				6	.2			
88	nd				7	1.6			
89	nd				8	.2			
90	.2				9	nd			
91	nd				10	.2			
92	nd				11	.6			
93	nd				12	nd			
Y - 5094	nd				Y - 5113	.4			

REMARKS ✓ ✓

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MARKING	U				MARKING	U			
Y - 5114	5.2								
19	.4				Y - 5138	.4			
20	.4				39	.4			
21	1.8				40	.4			
22	.6				41	.4			
23	.4				42	.4			
24	nd				43	.4			
25	nd				48	nd			
26	nd				49	.8			
27	nd				53	.4			
28	.2				54	.4			
29	nd				55	.4			
30	nd				56	.2			
31	nd				57	.2			
32	nd				58	.4			
33	nd				59	.4			
34	nd				60	.2			
35	2.0				61	.2			
36	nd				62	.2			
Y - 5137	nd				Y - 5163	nd			

REMARKS

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MARKING	U
Y - 5164	.4
65	nd
66	nd
67	.2
68	nd
69	nd
70	nd
71	nd
72	nd
73	.2
74	.2
75	.2
76	.4
77	4.0
78	92.0
79	3.6
80	.6
81	.8
82	2.4
Y - 5183	.8

MARKING	U
Y - 5184	.2
85	1.2
86	1.4
87	3.8
88	36.0
89	7.2
90	10.6
91	1.2
92	1.2
93	7.2
94	1.8
95	32.0
96	6.0
97	10.8
98	6.0
99	2.8
5200	2.8
1	22.0
Y - 5202	11.0

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

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MARKING	U				MARKING	U			
Y - 5203	15.2								
4	54.0				Y - 5223	.4			
5	2.4				24	.4			
6	26.0				25	nd			
7	6.0				26	.4			
8	3.2				27	2.4			
9	6.0				28	5.2			
10	8.0				29	5.6			
11	11.0				30	6.4			
12	18.0				31	13.2			
13	1.2				32	4.0			
14	28.0				33	1.6			
15	1.0				34	4.0			
16	.4				35	3.0			
17	.6				36	nd			
18	nd				37	2.8			
19	nd				38	1.0			
20	.8				39	1.0			
21	nd				40	nd			
Y - 5222	.4				Y - 5241	.4			

REMARKS

All values are reported in parts per million unless specified otherwise. All values are believed to be correct to the best knowledge of the analyst based on the method and instruments used.

Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

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MARKING	U				MARKING	U			
Y - 5242	.4								
43	6.0				Y - 5263	.4			
44	1.0				64	nd			
45	10.8				65	1.2			
46	1.6				66	nd			
47	2.4				67	.8			
48	.4				68	.2			
49	.4				69	.6			
50	.4				70	.8			
51	.2				71	nd			
52	nd				72	nd			
53	.6				73	.4			
54	32.0				74	.8			
55	.2				75	nd			
57	nd				76	.4			
58	nd				77	nd			
59	nd				78	nd			
60	nd				79	nd			
61	.2				80	.6			
Y - 5262	.6				Y - 5281	nd			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

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MARKING	U
Y - 5282	.6
83	nd
84	nd
85	nd
86	nd
87	nd
88	nd
89	.4
90	nd
91	1.8
92	.2
93	3.4
94	1.6
95	nd
96	.4
97	.4
98	nd
5299	1.6
5300	nd
Y - 5301	3.4

MARKING	U
Y - 5302	1.0
3	1.4
4	1.2
5	2.8
6	1.8
7	nd
8	.2
9	nd
10	1.2
11	nd
12	.4
13	.6
14	2.8
15	nd
16	nd
17	.6
18	1.6
19	.4
Y - 5320	1.0

REMARKS

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Vancouver Geochemical Laboratories Ltd.

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MARKING	U				MARKING	U			
Y - 5321	nd								
22	nd				Y - 5365	nd			
23	nd				66	nd			
24	.8				67	nd			
25	nd				68	nd			
26	nd				69	nd			
29	nd				70	nd			
30	nd				71	nd			
31	nd				72	nd			
32	nd				73	nd			
33	nd				74	.8			
34	nd				75	.4			
35	nd				76	nd			
58	nd				77	.2			
59	nd				78	2.0			
60	nd				79	.4			
61	nd				88	.6			
62	nd				89	.4			
63	nd				90	.2			
Y - 5364	nd				Y - 5391	.8			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

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MARKING	U				MARKING	U			
Y - 5392	.2								
93	.2				Y - 5522	nd			
94	1.2				23	.2			
95	.4				24	.2			
96	.8				25	nd			
97	nd				26	nd			
5398	.6				27	nd			
5441	nd				28	nd			
42	nd				29	nd			
43	nd				30	.4			
44	.4				31	nd			
45	.4				32	.2			
47	.2				33	.2			
48	nd				34	.2			
49	nd				35	.8			
50	.4				36	nd			
51	nd				37	.4			
5452	.2				38	nd			
5520	nd				39	.2			
Y - 5521	nd				Y - 5540	.4			

REMARKS ✓ ✓

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

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MARKING	U				MARKING	U			
Y - 5541	.2								
42	nd				Y - 5564	nd			
43	nd				65	.4			
44	nd				66	.2			
45	nd				67	.4			
46	nd				68	.4			
47	nd				71	nd			
48	nd				72	nd			
49	nd				73	nd			
50	nd				74	.2			
51	nd				75	.2			
52	nd				76	.2			
53	nd				77	.4			
54	nd				78	.2			
58	nd				79	.2			
59	nd				80	.2			
60	.2				81	.2			
61	nd				82	.2			
62	.2				83	.4			
Y - 5563	.2				Y - 5584	.4			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

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MARKING	U		Remarks	
Y - 5585	.2			
86	.2			
87	.2			
88	.2			
89	.2			
90	nd			
91	nd			
92	.2			
5593	nd			
5643	—	No sample		
44	—	No sample		
45	—	No sample		
46	.4			
47	.8			
48	1.0			
49	1.0			
50	nd			
51	.2			
52	nd			
Y - 5653	nd			

MARKING	U	Remarks		
Y - 5654	.2			
55	nd			
56	5.0		0.02	g
57	.2			
58	nd			
59	.2			
60	.2			
61	.4			
62	.2			
63	.6			
64	.6			
65	1.4			
66	nd			
67	nd			
68	.2			
69	nd			
70	.2			
71	1.2			
Y - 5672	1.6			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

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COMPANY Pacific Petroleums Ltd. REPORT No. PAGE 36 OF 48

MARKING	U				MARKING	U			
Y - 5673	.6								
74	.2				Y - 5693	nd			
75	3.0				94	nd			
76	.6				95	nd			
77	2.6				96	nd			
78	1.2				97	nd			
79	1.2				98	nd			
80	1.2				5699	nd			
81	2.4				5700	nd			
82	.4				1	nd			
83	.2				2	nd			
84	nd				3	nd			
85	nd				4	nd			
86	nd				6	nd			
87	.4				7	nd			
88	nd				8	nd			
89	nd				9	nd			
90	nd				10	nd			
91	nd				11	nd			
Y - 5692	.2				Y - 5712	nd			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

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COMPANY Pacific Petroleums Ltd. REPORT No. PAGE 37 OF 48

MARKING	U				MARKING	U			
Y - 5713	nd								
14	nd				Y - 5736	nd			
15	nd				39	.4			
16	nd				40	.2			
17	nd				41	nd			
18	nd				42	nd			
19	nd				43	nd			
23	nd				44	nd			
24	.4				45	nd			
25	nd				46	nd			
26	nd				47	nd			
27	1.2				48	nd			
28	.6				49	nd			
29	1.6				50	nd			
30	.4				51	nd			
31	2.8				52	nd			
32	1.0				53	nd			
33	1.0				54	nd			
34	2.2				55	nd			
Y - 5735	.8				Y - 5756	.2			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

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MARKING	U				MARKING	U			
Y - 5757	.4								
58	.2				Y - 5777	.2			
59	.2				78	.4			
60	.4				79	.6			
61	.4				80	.2			
62	.8				81	2.0			
63	.2				82	nd			
64	1.6				83	1.8			
65	.6				84	1.6			
66	.2				85	.4			
67	nd				86	.6			
68	.2				87	nd			
69	.2				88	.6			
70	.4				89	.8			
71	nd				90	nd			
72	.2				91	nd			
73	nd				92	nd			
74	.4				93	nd			
75	1.6				94	nd			
Y - 5776	.4				Y - 5795	.2			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 39 OF 48

MARKING	U
Y - 5796	nd
5797	nd
5859	10.4
60	40.0
61	.2
62	.4
63	.2
64	.4
65	4.4
66	56.0
67	.6
68	4.2
69	1.8
70	10.2
71	6.6
72	4.8
73	1.0
74	3.6
75	.8
Y - 5876	3.4

MARKING	U
Y - 5877	9.2
78	2.8
79	.8
80	2.0
81	.4
82	2.6
83	6.4
84	2.4
85	3.2
86	1.0
87	nd
88	1.2
89	.4
90	2.4
91	9.6
92	3.2
93	2.6
94	1.4
Y - 5895	7.4

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 40 OF 48

MARKING	U
Y - 5896	1.2
97	1.0
98	42.0
5899	1.2
5900	.2
1	.2
2	.2
3	.4
4	.4
5	1.0
6	.6
7	.2
8	1.8
9	.4
10	nd
11	.6
12	.6
13	.2
14	.2
Y - 5915	.2

MARKING	U
Y - 5916	.2
17	.2
18	.2
19	nd
20	2.0
21	.2
22	.6
23	.2
24	nd
25	.4
26	.4
27	1.0
28	.8
29	1.8
30	1.2
31	nd
32	.2
33	11.4
Y - 5934	.8

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Gx Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 41 OF 48

MARKING	U	Remarks		
Y - 5935	.2			
36	.2			
37	nd			
38	nd			
39	.6			
40	.4			
41	.4			
42	1.2			
43	.4			
44	nd			
45	2.2			
46	2.0			
47	2.4			
48	1.2			
48	3.2			
50	.2			
51	52		0.02	g
52	.2			
53	nd			
Y - 5955	6.4			

MARKING	U			
Y - 5956	3.0			
57	1.8			
58	6.6			
59	nd			
60	2.4			
61	2.0			
62	nd			
63	nd			
64	1.8			
65	.2			
66	.8			
67	.4			
68	nd			
68	nd			
70	.4			
71	.8			
72	.6			
73	.2			
Y - 5974	.4			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 42 OF 48

MARKING	U				MARKING	U			
Y - 5975	.2								
76	.6				Y - 5995	1.2			
77	.4				96	.4			
78	.4				97	.4			
79	.4				98	.4			
80	4.0				99	.4			
81	.2				6000	.4			
82	.2				1	nd			
83	.2				2	.4			
84	.2				3	.4			
85	nd				4	.8			
86	nd				5	.8			
87	nd				6	.4			
88	nd				7	.6			
89	nd				8	2.0			
90	.2				9	5.2			
91	.6				10	.8			
92	nd				11	1.0			
93	3.6				12	.2			
Y - 5994	nd				Y - 6013	nd			

REMARKS / ✓

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

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MARKING	U				MARKING	U			
Y - 6014	.6								
15	nd				Y - 6034	nd			
16	.6				35	nd			
17	nd				36	nd			
18	nd				37	nd			
19	nd				38	nd			
20	.2				39	nd			
21	.4				40	nd			
22	nd				41	.2			
23	1.2				42	nd			
24	nd				43	nd			
25	.8				44	nd			
26	.2				45	nd			
27	nd				6046	nd			
28	.2				6109	nd			
29	nd				10	nd			
30	nd				11	nd			
31	nd				12	nd			
32	nd				13	nd			
Y - 6033	nd				Y - 6114	nd			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

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MARKING	U			
Y - 6115	.2			
16	nd			
17	nd			
18	nd			
19	nd			
20	nd			
21	nd			
24	.2			
25	1.6			
26	.2			
27	.2			
28	nd			
29	nd			
30	nd			
31	.4			
32	.6			
33	.6			
34	.4			
35	.4			
Y - 6137	.8			

MARKING	U			
Y - 6138	nd			
39	nd			
40	nd			
41	.2			
42	nd			
43	.2			
44	.4			
46	nd			
47	nd			
48	.4			
49	nd			
50	nd			
51	nd			
52	nd			
53	nd			
54	nd			
55	nd			
56	nd			
Y - 6157	nd			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

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MARKING	U				MARKING	U			
Y - 6158	nd								
59	nd				Y - 6178	nd			
60	nd				6204	nd			
61	nd				5	nd			
62	nd				6	nd			
63	nd				7	nd			
64	nd				8	nd			
65	nd				9	nd			
66	nd				10	nd			
67	nd				11	nd			
68	.2				12	nd			
69	nd				13	1.4			
70	nd				14	nd			
71	nd				15	nd			
72	nd				16	1.4			
73	nd				17	.4			
74	nd				18	3.2			
75	nd				19	nd			
76	nd				20	.4			
Y - 6177	nd				Y - 6221	nd			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 46 OF 48

MARKING	U				MARKING	U			
Y - 6222	.2								
23	nd				Y - 6242	.2			
24	nd				43	.2			
25	nd				44	.4			
26	nd				45	nd			
27	nd				46	nd			
28	nd				47	nd			
29	nd				48	.2			
30	nd				49	nd			
31	.4				50	nd			
32	nd				51	1.8			
33	nd				52	nd			
34	nd				53	nd			
35	.4				54	nd			
36	1.0				55	.4			
37	.2				56	nd			
38	.2				57	nd			
39	.2				58	nd			
40	nd				59	.4			
Y- 6241	.6				Y - 6260	.2			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

COMPANY Pacific Petroleums Ltd. REPORT No. 70-73-001 PAGE 47 OF 48

MARKING	U				MARKING	U			
Y - 6261	.2								
62	.4				Y - 6343	nd			
63	.8				44	nd			
6264	nd				45	nd			
6313	nd				46	nd			
28	1.2				47	nd			
29	.2				48	nd			
30	.8				49	nd			
31	1.6				50	.4			
32	.6				51	nd			
33	1.2				52	.2			
34	nd				53	nd			
35	1.0				54	nd			
36	1.0				55	.2			
37	.2				56	.2			
38	nd				57	.2			
39	nd				58	nd			
40	nd				59	.4			
41	nd				60	nd			
Y - 6342	nd				Y - 6361	nd			

REMARKS

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Vancouver Geochemical Laboratories Ltd.

1521 PEMBERTON AVENUE NORTH VANCOUVER, B.C. CANADA TELEPHONE 604-988-2172

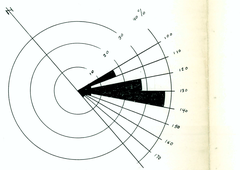
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MARKING	U	Remarks
Y - 6362	nd	
63	.2	
64	nd	
65	nd	
66	nd	
67	nd	
68	nd	
69	nd	
70	nd	
71	nd	
72	nd	
73	.2	
74	.8	
75	.6	
76	nd	
77	.6	
78	nd	
79	nd	
Y - 6380	.4	
Y - 191	—	No sample

MARKING	U
Y - 1821	14.8
Y - 3290	1.0

REMARKS

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Rose Diagram — Showing the Strike of Schistosity
Scale 1 inch = 20 percent

LEGEND

- Meta-Andesite Amygdaloidal — 1A
- Siliceous Tuff, Argillite — 2
- Felsite — 3
- Mineral Occurrence
  - Chalcopyrite — +Cp
  - Pyrite >= 5% — +Py
  - Epidote — E
  - Quartz / Quartz Vein — Q / Q
- Mineral Occurrence in Float
- Magnetic Rock — M
- Outcrop
- Small Outcrop — X
- Geologic Boundary
- Small Lens of Map Unit 2 — S
- Foliation
- Fracture / Joint
- Fault / Shear
- End Moraine
- Claim Post
- Claim Line
- Picketed Line
- Lake
- Stream
- Drill Hole — Inclination, Total Length

Scale 1 inch = 300 feet

Kelsall Lake

F.M.C. 1
F.M.C. 2
F.M.C. 3
F.M.C. 4
F.M.C. 5
F.M.C. 6

Snow Field

Seepage Area

Alternate Drill Hole

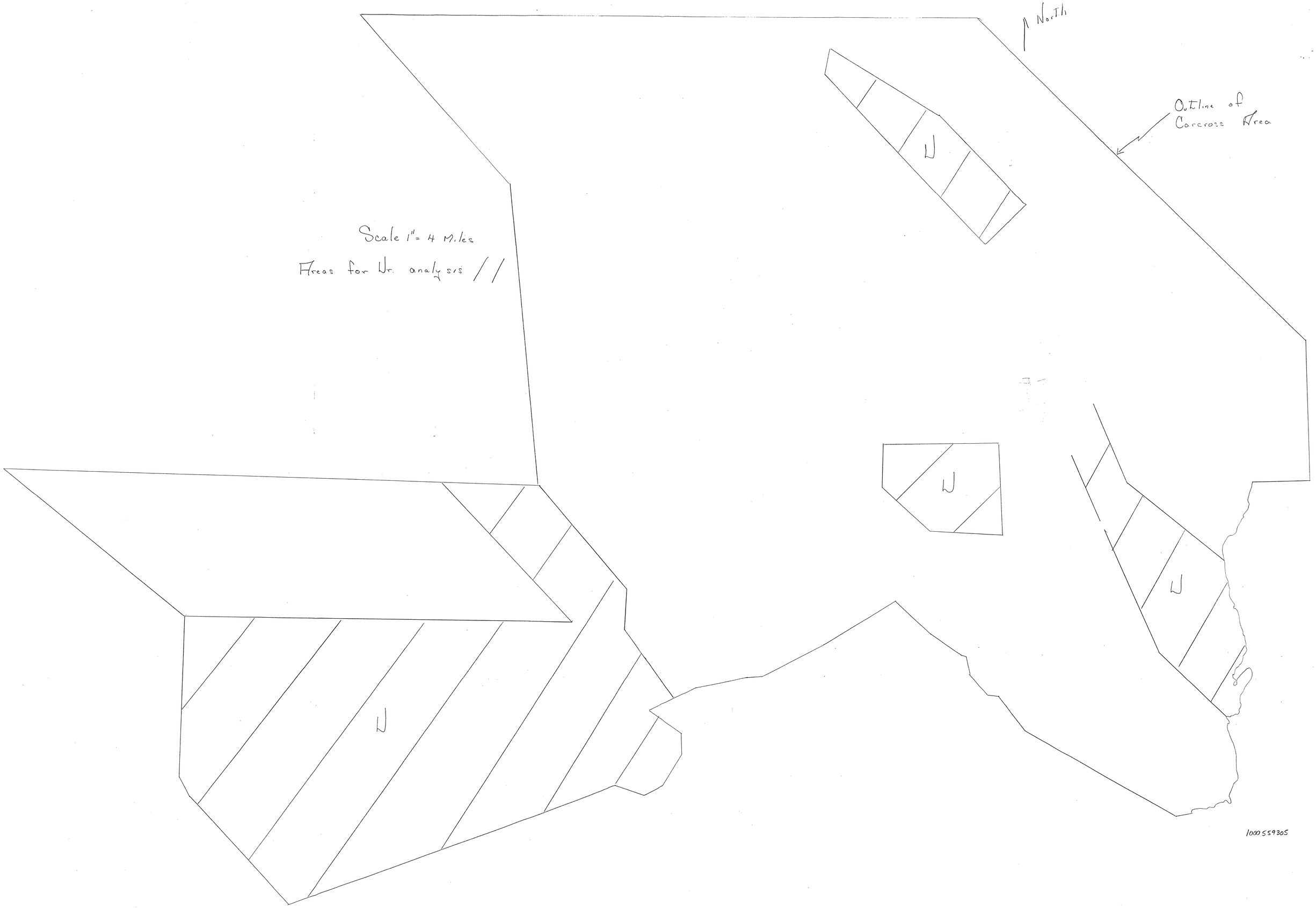
Q-Cp
Q-Py
Q-Cpy
Q-E

PACIFIC PETROLEUMS LTD.

Geological Map of The Kelsal Claims
to
Accompany the Geological Report on the Kelsal Claims, Atlin Mining Division, B.C.
by
W.D. Cowan P.Eng

Drawn: W.D. Cowan	Date: 23 Nov 70
Checked:	Figure 1

1000 559205


North
Outline of
Carcross Area
Scale 1" = 4 Miles
Areas for Ur. analysis
J
J
J
J

1000559305

10005559305

PLATE 6

GEOLOGIC MAP
"ROSE" CLAIM GROUP

SCALE: 1 INCH = 1/2 MILE

GEOPHOTO SERVICES LTD. CALGARY ALBERTA CANADA

136°00'

60°20'

60°10'

Y2597-1 Y2653-1 Y2652-1 Y2647-2 Y2644-2 Y2645-1 Y2649-2 Y2612-1 Y2613-1 Y2614-1 Y2655-1 Y2654-2 Y2615-1 Y2616-1 Y2619-1 Y2618-1 Y2617-1 Y2625-1 Y2620-1 Y2624-1 Y2627-1 Y2626-1 Y2623-1 Y2630-1 Y2633-2 Y2634-1 Y2631-3 Y2632-1 Y2629-2 Y2628-2 Y2639-1 Y2635-2 Y2638-1 Y2640-1 Y2636-1 Y2637-2 Y2642-1 Y2641-1 Y3806-1 Y3806-20-X-90 Y2777-1 Y2776-2 Y2775-2 Y2774-3 Y2773-2 Y2772-2 Y2770-1 Y2771-1 Y2768-1 Y2769-1 Y2766-2 Y2766-40-X-180 Y2763-2 Y2764-1 Y2767-2 Y2765-1 Y2765-20-10-130 Y2738-1 Y2737-1 Y2736-1 Y2740-1 Y2739-1 Y2761-14-1 Y2761-70-40-1000 Y2762-3 Y2762-30-X-180 Y2760-1 Y2741-1 Y2742-1 Y2743-1 Y2744-1 Y2759-1 Y2758-1 Y2757-1 Y2745-1 Y2755-1 Y2755-20-20-80 Y2756-1 Y2754-1 Y2746-1 Y2752-1 Y2753-1 Y2750-1 Y2751-1 Y2751-10-50-70-10 Y2747-1 Y2749-1 Y3779-4 Y3778-6 Y3780-4 Y3792-2 Y3790-2 Y3791-2 Y3783-4 Y3782-4 Y3781-4 Y3785-4 Y3786-5 Y3784-4 Y3788-4 Y3789-3 Y3787-4 Y2848-1 Y4203-2 Y4202-2 Y4204-5 Y4201-3 Y4206-2 Y4490-1 Y4489-2 Y4486-1 Y4485-1

RG1-0.2-26.5-0.16
RG2-11.0-14.1-0.86
RG3-0.11-0.15-0.32

"ROSE" CLAIM GROUP

May Include

KJc p€y Q

ROSE LAKE

Primrose River

Mantled

KUSAWA LAKE

2875'

GEOPHOTO SERVICES, LTD. FEB 13 1969

MAP UNITS

QUATERNARY	Q	Alluvium, terrace deposits, talus; glacial outwash and morainal deposits; older glacial till and drift.
JURASSIC AND CRETACEOUS	KJc	COAST INTRUSIONS – Granodiorite, granite, quartz monzonite, diorite, gabbro; pegmatites and granitic gneisses.
PRECAMBRIAN	p€y	YUKON GROUP – Schist, gneiss, quartzite, slate, amphibolite, greenstone; gneissic granitic rocks; quartzite, crystalline limestone. Includes metamorphic volcanics of uncertain age.

MAP SYMBOLS

ATTITUDE OF SEDIMENTARY ROCKS

- Horizontal
- Dip less than 3°
- Dip 3° to 10°
- Dip 11° to 25°
- Dip 26° to 45°
- Dip more than 45°
- Vertical
- Overturned
- Degree of dip indeterminate
- Field measured
- From published map

ATTITUDE OF IGNEOUS & METAMORPHIC ROCKS

- Strike & inclination of most prominent structural grain
- From published map
- Strike of most prominent structural grain

FOLDS

- Crest line of antiform showing apex & plunge of axis
- Trough line of synform showing high point & plunge of axis
- Overturned antiform & synform; direction of dip of limbs shown

FAULTS & FRACTURES

- Major Fault or Lineament
- Thrust Fault

Dashed where indefinite; queried where inferred; dotted where concealed; arrow indicates dip of fault plane; triangles on thrust sheet

- Fault separation — + indicates dip separation, arrows indicate strike separation
- Lineation, fracture or minor fault
- Vein or dyke

CONTACTS

- Contacts: definite, position indefinite, inferred, concealed
- SB — Stratigraphic break
- LB — Lithologic break
- MB — Metamorphic break
- Trace of bedding or structural grain

MISCELLANEOUS

- Esker or glacial crevasse filling
- Moraine
- Strand lines
- Permanent ice
- Glacial lineation – direction of ice movement shown
- Glacial lineation – direction of ice movement not known
- Isolated outcrop
- Identifies isolated segment with labelled area
- Mine or prospect

GEOCHEMICAL SAMPLES

- •Y2700-10-20-601-10 — Geochemical Sample No., Commercial assays for copper, lead, zinc, and molybdenum in ppm
- •Y2700-10-1 — Geochemical Sample No., Cold extractions for heavy and copper in cc's. of 0.001% dithizone titration.
- ▲RG4-11-10 1-0.76 — Rock Sample No., Assay for lead, zinc in %; silver in oz./ton.

PLATE 6