

XRF WHOLE ROCK ANALYSES OF SAMPLES FROM MEDICINE LAKE  
 STRAT TEST 57-13

SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

SUMMARY REPORT

RESULTS AS WT % OXIDES

OXIDE FORMULA depth (ft)	GI-27563- 67-1 470.5	GI-27563- 67-2 505	GI-27563- 67-3 543	GI-27563- 67-4 563	GI-27563- 67-4 563	GI-27563- 67-5 578
SI O2	71.70	57.69	62.13	65.31	65.26	72.01
AL2O3	15.04	18.48	19.08	16.22	16.15	14.83
NA2O	4.06	3.50	2.93	3.53	3.50	3.63
K2O	4.06	1.15	2.40	3.20	3.08	4.43
FE2O3	2.76	7.91	5.64	4.50	4.25	2.44
CA O	1.77	7.33	2.92	2.65	2.57	1.15
MG O	0.54	3.93	1.31	1.01	0.97	0.82
TI O2	0.47	1.02	0.98	0.82	0.80	0.44
MN O	0.05	0.12	0.10	0.08	0.08	0.05
P2O5	0.07	0.18	0.13	0.15	0.15	0.04
LOI	0.14	0.67	5.73	4.15	4.15	3.53
TOTALS	100.65	101.99	103.37	101.62	100.96	103.01
H2O	0.04	0.35	3.51	5.70	5.70	0.53
GRAMS						
SPL WT	1.6017	1.6010	1.6009	1.6021	0.6002	1.6027
BEAD WT	13.4410	13.2762	13.3046	13.2672	6.6825	13.3086

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Medicine Lake, California

STRAT TEST 57-13

SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

SUMMARY REPORT

RESULTS AS WT % OXIDES

OXIDE	GI-27563-	GI-27563-	GI-27563-	GI-27563-	GI-27563-	GI-27563-
FORMULA	67-6	67-7	67-8	67-9	67-9	67-10
depth (ft)	634	673	852	897	897	953
SI O2	73.25	70.67	72.28	75.21	75.55	70.90
AL2O3	14.34	13.99	14.05	14.44	14.19	14.17
NA2O	3.65	3.88	3.59	3.83	3.65	3.61
K2O	4.55	4.33	4.53	4.61	4.46	4.16
FE2O3	2.24	3.19	2.00	2.14	1.98	2.44
CA O	1.04	1.06	1.08	1.08	1.05	1.46
MG O	0.25	0.24	0.20	0.16	0.16	0.39
TI O2	0.41	0.40	0.35	0.35	0.34	0.43
MN O	0.04	0.04	0.04	0.08	0.07	0.05
FE3O4	0.04	0.05	0.03	0.03	0.03	0.06
LOI	2.93	0.18	3.10	0.46	0.46	2.19
TOTALS	102.73	98.03	101.25	102.40	100.05	95.61
H2O	0.30	0.03	0.11	0.14	0.14	0.14
GRAMS						
SPL WT	1.6003	1.6020	1.6036	1.6025	0.6007	1.6009
BEAD WT	13.2353	13.3333	13.2804	13.9577	6.6782	13.2874

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Medicine Lake, Calif. STRAT TEST 57-13

SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

SUMMARY REPORT

RESULTS AS WT % OXIDES

OXIDE FORMULA	GI-27563- 67-11	GI-27563- 67-12	GI-27563- 67-13	GI-27563- 67-14	GI-27563- 67-14
	<b>972.5</b>	<b>1039</b>	<b>1192</b>	<b>1399</b>	<b>1399</b>
SI O2	72.60	75.66	75.94	72.96	72.38
AL2O3	18.44	13.96	13.12	12.72	12.66
NA2O	3.25	3.71	2.94	2.94	2.72
K2O	4.59	4.71	4.72	4.55	4.41
FE2O3	1.31	1.87	1.22	1.31	1.22
CA O	1.09	1.09	0.69	0.86	0.84
MG O	3.27	0.21	0.12	0.15	0.14
TI O2	0.29	0.30	0.19	0.18	0.18
MN O	0.04	0.05	0.03	0.04	0.04
P2O5	0.03	0.03	< 0.006	0.01	< 0.006
LOI	2.94	0.34	4.17	5.43	5.43
TOTALS	100.45	101.93	103.14	101.15	100.00
H2O	0.16	0.29	0.24	1.17	1.17
GRAMS					
SPL WT	1.6013	1.6015	1.6002	1.6005	0.8012
BEAD WT	13.2051	13.3613	13.1916	13.2293	6.7029

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# Medicine Lake, Calif STRAT TEST 57-13

## SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

### SUMMARY REPORT

#### RESULTS AS WT % OXIDES

OXIDE	GI-27563-	GI-27563-	GI-27563-	GI-27563-	GI-27563-	GI-27563-
FORMULA	67-15	67-16	67-17	67-18	67-18	67-19
<i>depth(ft)</i>	<i>1470</i>	<i>1565</i>	<i>1639</i>	<i>1679</i>	<i>1679</i>	<i>1766</i>
SI O2	73.13	77.84	75.91	70.13	69.08	72.40
AL2O3	12.68	13.48	13.10	13.34	13.07	12.51
NA2O	3.04	3.39	3.19	1.85	2.00	1.65
K2O	4.19	4.63	4.56	3.78	3.88	4.19
FE2O3	1.37	1.45	1.33	1.01	1.01	1.24
CA O	1.03	0.82	0.81	1.36	1.33	1.33
MG O	0.28	< 0.039	0.12	0.25	0.25	0.28
TI O2	0.18	0.20	0.19	0.08	0.07	0.08
MN O	0.04	0.02	0.04	0.02	0.02	0.04
P2O5	0.01	< 0.008	< 0.008	< 0.008	< 0.008	< 0.008
LOI	4.05	0.29	3.68	8.26	8.26	7.74
TOTALS	100.05	102.12	102.92	100.06	98.75	101.75
H2O	1.12	0.08	0.18	4.78	4.78	3.70
GRAMS						
SPL WT	1.6021	1.6019	1.6034	1.6001	1.6020	1.6008
BEAD WT	13.1200	13.4355	13.3319	13.2941	13.2507	13.1880

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NAME: BILL LE ROY DATE: 22-OCT-85

Medicine Lake, Calif. STRAT TEST 57-13

SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

SUMMARY REPORT

RESULTS AS WT % OXIDES

OXIDE FORMULA depth (ft)	GI-27563- 67-20 1936	GI-27563- 68-1 1911	GI-27563- 68-2 2031	GI-27563- 68-3 2136	GI-27563- 68-3 2136	GI-27563- 68-4 2198
SI O2	74.66	76.25	75.71	78.42	75.94	76.99
AL2O3	14.29	14.09	14.26	13.31	12.86	13.56
NA2O	3.93	3.53	3.95	3.27	3.18	3.56
K2O	4.58	4.87	4.66	4.77	4.65	4.89
FE2O3	1.49	1.32	1.71	1.21	1.19	1.62
CA O	0.87	0.63	0.79	0.64	0.62	0.66
MG O	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059	< 0.059
TI O2	0.41	0.07	0.38	0.07	0.07	0.08
MN O	0.02	0.05	0.05	0.06	0.06	0.07
P2O5	0.03	< 0.008	0.02	< 0.008	< 0.008	< 0.008
LOI	0.43	0.20	0.45	0.38	0.38	0.24
TOTALS	100.71	100.97	101.99	102.14	98.91	101.68
H2O	0.15	0.05	0.15	0.19	0.19	0.09
GRAMS						
SPL WT	1.6023	1.6033	1.6011	1.6008	1.6020	1.6015
BEAD WT	13.4725	13.4203	13.3774	13.3023	13.2291	13.3065

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# Medicine Lake, California Strat Test 57-13

## SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

### SUMMARY REPORT

#### RESULTS AS WT % OXIDES

OXIDE FORMULA depth (ft)	GI-27563- 68-5 2375	GI-27563- 68-6 2498	GI-27563- 68-7 2712	GI-27563- 68-8 2783	GI-27563- 68-8 2783
SI O2	70.62	75.00	76.63	49.38	48.92
AL2O3	14.84	12.78	13.04	16.22	16.06
NA2O	3.74	3.25	3.30	3.08	2.74
K2O	3.95	4.86	4.72	0.30	0.30
FE2O3	3.74	1.18	1.20	12.90	12.84
CA O	2.07	0.69	0.71	8.27	8.26
MG O	0.65	< 0.058	< 0.058	6.00	6.07
TI O2	0.66	0.07	0.07	1.85	1.85
MN O	0.10	0.05	0.05	0.14	0.14
P2O5	0.15	< 0.008	< 0.008	0.34	0.33
LOI	0.54	3.10	1.98	1.76	1.76
TOTALS	101.05	100.98	101.71	100.24	99.37
H2O	0.50	0.19	0.22	3.95	3.95
GRAMS					
SPL WT	1.6013	1.6026	1.6021	1.6027	1.6022
BEAD WT	13.3732	13.3753	13.2942	13.4171	13.2905

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Medicine Lake, Calif. STRAT TEST 57-13

SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

SUMMARY REPORT

RESULTS AS WT % OXIDES

OXIDE FORMULA depth(ft)	GI-27563- 68-3 2818	GI-27563- 68-10 2850	GI-27563- 68-11 2880	GI-27563- 68-12 2930	GI-27563- 68-12 2930	GI-27563- 68-13 3000
SI O2	48.88	48.28	50.44	54.57	56.04	55.02
AL2O3	19.71	17.15	16.45	18.98	19.37	18.48
NA2O	2.57	2.49	2.59	2.88	2.98	2.98
K2O	0.64	0.24	0.86	1.04	1.04	1.04
FE2O3	13.00	13.48	12.76	7.18	7.07	8.78
CA O	8.61	8.58	8.10	8.10	8.58	8.98
MG O	5.78	5.49	5.35	4.70	4.74	4.56
TI O2	1.81	1.87	1.82	0.82	0.82	1.11
MN O	0.20	0.24	0.21	0.16	0.16	0.16
P2O5	0.34	0.33	0.36	0.18	0.18	0.25
LOI	0.84	2.21	0.92	0.78	0.78	0.98
TOTALS	99.37	100.28	99.69	99.84	101.22	101.18
H2O	0.42	1.62	1.16	1.17	1.17	0.71
GRAMS						
SPL WT	1.6006	1.6027	1.6007	1.6009	1.6001	1.6018
BEAD WT	13.3180	13.2338	13.3170	13.3168	13.2574	13.4258

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# Medicine Lake, Calif. STRAT TEST 57-13

## SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

### SUMMARY REPORT

FIRST 11 ELEMENTS ARE WT %

ELEMENT	GI-27563- 67-1	GI-27563- 67-2	GI-27563- 67-3	GI-27563- 67-4	GI-27563- 67-5	GI-27563- 67-6
depth Ft	470.5	505	543	563	578	634
SI	33.59	24.79	27.38	28.13	33.56	34.24
AL	7.47	8.99	9.35	7.22	7.39	7.15
NA	3.23	2.67	1.84	2.80	3.07	3.22
K	9.17	8.93	1.67	2.35	3.47	3.51
FE	1.90	5.30	3.99	3.49	1.62	1.65
CA	1.38	5.56	2.23	1.72	0.54	0.74
MG	0.23	1.35	0.63	1.42	0.13	0.15
TI	0.28	0.65	0.61	0.47	0.28	0.25
MIN	0.04	0.09	0.06	0.06	0.04	0.04
P	0.04	0.08	0.05	0.03	0.02	0.02
S	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

SECOND 10 ELEMENTS ARE PPM

CL	< 50.000	< 50.000	< 50.000	64.15	< 50.000	< 50.000
V	45.72	198.48	56.84	37.53	22.31	20.53
NI	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000
CU	< 20.000	63.13	35.37	< 20.000	< 20.000	< 20.000
ZN	41.17	64.52	30.78	63.42	47.86	36.32
RB	137.73	47.17	94.62	97.94	145.72	143.62
SR	164.44	422.20	234.61	173.33	121.61	102.63
ZR	289.23	165.06	365.13	405.48	376.67	366.46
BA	820.96	359.54	740.72	770.91	936.55	921.70
PB	< 40.000	< 40.000	< 40.000	< 40.000	< 40.000	< 40.000

H2O 0.04 0.35 3.51 5.70 0.53 0.30

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Medicine Lake, Calif. STRAT TEST 57-13

SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

SUMMARY REPORT

FIRST 11 ELEMENTS ARE WT %

ELEMENT	GI-27563- 67-7 673	GI-27563- 67-8 852	GI-27563- 67-9 897	GI-27563- 67-10 953	GI-27563- 67-11 972.5	GI-27563- 67-12 1039
SI	34.50	34.14	33.60	32.72	34.34	35.02
AL	7.20	6.95	6.74	6.77	6.74	6.53
NA	3.42	3.20	3.50	3.42	2.87	2.93
K	3.47	3.45	3.42	3.22	3.67	3.69
FE	1.64	1.45	1.59	1.95	1.83	1.84
CA	0.50	0.78	1.72	1.02	0.73	0.73
MG	0.13	0.23	0.15	0.27	0.11	0.19
TI	0.26	0.21	0.20	0.25	0.13	0.13
MN	0.04	0.04	0.06	0.04	0.05	0.04
P	0.03	0.02	0.02	0.03	0.02	0.02
S	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

SECOND 10 ELEMENTS ARE PPM

CL	< 50.000	233.67	< 50.000	104.84	181.93	< 50.000
V	22.26	< 20.000	< 20.000	20.04	22.19	27.96
NI	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000
CU	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000
ZN	36.41	40.29	27.39	42.19	31.34	28.70
RB	156.40	143.33	141.43	126.35	153.12	163.06
SR	104.53	102.53	96.37	106.54	93.80	100.19
ZR	336.25	350.52	359.92	370.01	298.52	266.07
BA	831.19	919.68	901.92	812.33	851.11	802.92
PB	< 40.000	< 40.000	< 40.000	< 40.000	< 40.000	< 40.000

H2O 0.03 0.11 0.14 0.14 0.16 0.29

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Medicine Lake, Calif. STRAT TEST 57-13

SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

SUMMARY REPORT

FIRST 11 ELEMENTS ARE WT %

ELEMENT GI-27563- GI-27563-

67-13 67-14

depth(ft) 1192 1399

<del>SI</del>	<del>34.74</del>	<del>35.14</del>
<del>AL</del>	<del>6.37</del>	<del>6.28</del>
<del>NA</del>	<del>2.54</del>	<del>2.67</del>
<del>K</del>	<del>6.63</del>	<del>3.60</del>
<del>FE</del>	<del>0.33</del>	<del>0.99</del>
<del>CA</del>	<del>0.44</del>	<del>0.56</del>
<del>MG</del>	<del>0.08</del>	<del>0.08</del>
<del>TI</del>	<del>0.12</del>	<del>0.12</del>
<del>MN</del>	<del>0.03</del>	<del>0.03</del>
<del>P</del>	<del>0.01</del>	<del>0.01</del>
S	< 0.050	< 0.050

SECOND 10 ELEMENTS ARE PPM

CL	110.82	51.27
V	< 20.000	< 20.000
NI	< 20.000	< 20.000
CU	< 20.000	< 20.000
ZN	33.73	26.72
RB	163.23	167.26
SR	56.73	75.75
ZR	241.27	234.33
BA	747.12	755.29
PB	< 40.000	< 40.000

H2O 0.24 1.17

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# Medicine Lake, Calif. STRAT TEST 57-13

## SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

### SUMMARY REPORT

FIRST 11 ELEMENTS ARE WT %

ELEMENT	GI-27563- 67-15	GI-27563- 67-16	GI-27563- 67-17	GI-27563- 67-18	GI-27563- 67-18	GI-27563- 67-19
depth(A+)	1470	1565	1638	1679	1679	1766
SI	35.33	36.14	35.45	35.02	35.02	35.23
AL	6.50	6.72	6.45	7.37	7.35	6.51
NA	2.81	2.87	2.97	1.74	1.72	1.41
K	3.28	3.57	3.57	3.12	3.13	3.23
FE	1.00	0.99	0.95	0.80	0.80	0.94
CA	0.76	0.97	1.04	1.12	1.12	1.57
MG	0.21	0.22	0.24	0.22	0.22	0.25
TI	0.12	0.13	0.12	0.06	0.06	0.06
MN	0.03	0.02	0.03	0.02	0.02	0.02
P	0.01	0.01	0.01	0.01	0.01	0.01
S	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

SECOND 10 ELEMENTS ARE PPM

CL	< 50.000	< 50.000	320.25	< 50.000	< 50.000	< 50.000
V	< 20.000	24.26	< 20.000	< 20.000	< 20.000	< 20.000
NI	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000
CU	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000
ZN	34.34	29.92	25.41	54.83	53.51	58.68
RB	153.13	157.13	155.26	161.12	163.11	173.87
SR	67.26	73.34	59.81	62.06	53.51	66.08
ZR	212.80	180.92	217.50	167.42	167.84	163.78
BA	942.19	829.73	844.28	577.44	598.52	639.81
PB	< 40.000	< 40.000	< 40.000	43.73	43.93	< 40.000

H2O 1.12 0.08 0.16 4.78 4.76 3.73

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# Medicine Lake, Calif strat test 57-13

## SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

### SUMMARY REPORT

FIRST 11 ELEMENTS ARE WT %

ELEMENT	GI-27568- 67-20	GI-27568- 68-1	GI-27568- 68-2	GI-27568- 68-3	GI-27568- 68-3	GI-27568- 68-4
depth (ft)	1836	1911	2031	2136	2136	2199
SI	35.20	35.91	35.02	36.24	36.29	34.56
AL	7.23	7.00	7.06	6.93	6.92	7.06
NA	3.52	3.09	3.35	2.98	2.94	3.44
K	3.59	3.79	3.60	3.71	3.69	3.30
FE	1.06	0.85	1.22	0.80	0.79	1.10
CA	0.69	0.41	0.54	0.46	0.43	0.45
MG	0.03	< 0.01	0.02	0.02	0.06	0.04
TI	0.25	0.06	0.23	0.05	0.06	0.06
MN	0.01	0.03	0.04	0.05	0.05	0.05
P	0.02	0.01	0.02	0.01	0.01	0.01
S	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

SECOND 11 ELEMENTS ARE PPM

CL	< 50.000	< 50.000	< 50.000	< 50.000	< 50.000	< 50.000
V	23.74	< 20.000	21.10	< 20.000	< 20.000	< 20.000
NI	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000
CU	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000	< 20.000
ZN	48.66	23.33	41.36	40.51	39.63	38.63
RB	142.00	178.72	141.99	156.22	160.47	147.26
SR	79.20	43.00	66.33	48.64	48.39	< 40.000
ZR	361.51	161.69	363.32	138.99	136.71	174.70
BA	1006.69	787.68	957.90	752.24	655.05	733.42
PB	< 40.000	< 40.000	< 40.000	< 40.000	< 40.000	< 40.000

H2O            0.15            0.05            0.15            0.13            0.13            0.09

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# Medicine Lake, Calif. Strat Test 57-13

## SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

### SUMMARY REPORT

FIRST 11 ELEMENTS ARE WT %

ELEMENT	GI-27563- 68-5	GI-27563- 68-6	GI-27563- 68-7	GI-27563- 68-8	GI-27563- 68-8
depth(A+)	2375	2498	2712	2783	2783
SI	32.91	35.66	35.26	21.46	21.54
AL	7.02	6.37	6.31	6.66	6.57
NA	3.12	2.70	2.84	2.06	2.04
K	3.05	3.86	3.70	0.30	0.29
FE	2.57	0.95	0.90	8.57	8.71
CA	1.56	0.42	0.45	4.67	4.66
MG	0.37	0.04	0.07	4.34	4.28
TI	0.32	0.06	0.06	1.01	1.02
MN	0.08	0.04	0.04	0.08	0.08
P	0.07	< 0.005	0.01	0.13	0.12
S	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

SECOND 10 ELEMENTS ARE PPM

CL	< 50.000	482.87	674.53	< 50.000	< 50.000
V	50.60	< 20.000	< 20.000	257.02	260.85
NI	< 20.000	< 20.000	< 20.000	32.15	32.57
CU	< 20.000	< 20.000	< 20.000	54.77	61.13
ZN	47.72	41.69	40.22	91.95	93.71
RB	122.55	170.43	156.96	48.49	38.42
BR	160.96	40.45	< 40.000	378.54	382.56
ZR	317.14	177.35	185.05	164.93	163.46
BA	601.08	685.16	663.30	351.40	311.54
PB	< 40.000	< 40.000	< 40.000	< 40.000	< 40.000

H2O 0.50 0.19 0.22 3.96 3.96

DATE : OCT 22, 1985 FILE CODE : 85295 RCC

NAME: BILL LE ROY DATE: 22-OCT-85

# Medicine Lake, Calif. STRAT TEST 57-13

## SIMULTANEOUS X-RAY FLUORESCENCE ANALYSIS

### SUMMARY REPORT

FIRST 11 ELEMENTS ARE WT %

ELEMENT	GI-27563- 68-9	GI-27563- 68-10	GI-27563- 68-11	GI-27563- 68-12	GI-27563- 68-12	GI-27563- 68-13
depth(ft)	2818	2850	2880	2930	2930	3000
SI	21.13	21.12	21.70	23.98	23.84	23.42
AL	8.07	7.55	7.70	8.73	8.61	8.34
KA	2.45	2.09	2.51	2.49	2.56	2.33
K	0.55	0.53	0.75	0.55	0.86	0.84
FE	8.21	8.79	8.13	4.99	5.00	5.86
CA	5.68	5.42	6.20	5.98	5.68	5.90
MG	3.16	3.51	2.85	3.10	3.08	3.71
TI	1.07	1.25	1.05	0.49	0.42	0.63
MN	0.16	0.15	0.18	0.10	0.10	0.11
P	0.16	0.14	0.17	0.09	0.09	0.09
S	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050

SECOND 10 ELEMENTS ARE PPM

CL	< 50.000	< 50.000	< 50.000	< 50.000	< 50.000	< 50.000
V	284.38	200.56	253.03	144.41	141.66	213.45
NI	35.00	31.52	23.93	60.55	62.64	< 20.000
CU	63.28	79.29	50.56	27.27	33.62	33.58
ZN	109.97	134.79	113.01	68.29	61.97	94.66
RB	40.25	40.69	45.04	29.91	30.64	45.86
BR	387.12	435.00	385.28	574.04	567.31	464.40
ZR	140.91	173.47	170.32	160.01	166.35	165.91
BA	620.19	627.52	410.68	354.87	358.92	403.42
RE	< 40.000	< 40.000	< 40.000	< 40.000	< 40.000	< 40.000

H2O            0.42            1.62            1.15            1.17            1.17            0.71

DATE : OCT 23, 1985    FILE CODE : 85236 R00

NAME : BILL LE ROY      DATE : 23-OCT-85