2820 0004

(57)
ITEM
4

IL MINERALS
DIVISION OF AGRI BEEF CO.

January 23, 1990

Becky Weimer
Nevada Bureau of Mines and Geology
University of Nevada - Reno
Reno, NV 89557-0088

Dear Becky:

Please find enclosed copies of all analyses and logging of the cutting from the Richfield No. 1 Scott Government oil test hole. These cuttings were obtained from Nevada Bureau of Mines and Geology via the Sampling Agreement dated May 13, 1989.

Due to the very small amount of original cuttings received, there were no unused portions of the cuttings after all analyses were completed.

On behalf of IL Minerals and myself, we would like to sincerely thank you for your cooperation in this endeavor.

Sincerely,

Tyler L. Shepherd
Vice President, Exploration

TLS/dh
Enc.

RICHFIELD SCOTT #1 - EXPLORATORY OIL TEST HOLE

Geologic log of cuttings provided by Nevada Bureau of Mines and Geology

Logging by T.L. Shepherd, IL Minerals, 1555 Shoreline Drive, Boise, ID 83707

SAMPLE # AND FOOTAGE	DESCRIPTION
2260	gray, green, black chert; white to light green de-vitrified clayey tuffaceous sediments; minor thin, platy clays; minor chalcedony; minor fine-grained limy sandstone to siltstone
2270	see above - decrease in chert, no chalcedony, minor iron oxide and pyrite
2340	see above - noticably finer chips
2350	light gray to medium gray, moderately calcareous siltstone; fine-grained slightly calcareous sandstone; minor chert, tuffaceous sediments, pyrite and iron oxide
2362	core fragments - light gray-green angular conglomerate; fragments are dark gray siltstone-sandstone; matrix is a white, quartz-biotite tuffaceous siltstone; minor chlorite
2373	light to medium gray sandy siltstone to calcareous sandstone; moderate calcite veinlets up to 2 m.m. thickness
2380	light to medium gray calcareous sandstone; minor siltstone; minor calcite
2390	see above - minor iron oxide and pyrite
2400	very small cuttings; increase in platy clays and tuffaceous sediments (contamination); no pyrite
2410	core fragment - medium gray calcareous sandstone to quartzite
2416	core fragment - see above; slight increase in calcite along fractures
2428	highly contaminated with tuffaceous sediments - medium gray calcareous sandstone
2430	see above - one 5 m.m. fragment of pyrite
2440	see above
2450	see above - no pyrite
2460	see above - decrease in contamination

2470	see above - very little sample
2480	see above
2490	decrease in chip size - very fine-grained calcareous sandstone to siltstone; minor pyrite
2500	see above - very little sample
2510	see above - increase in tuffaceous sediments contamination
2534	light to medium gray calcareous sandsone to siltstone; moderate calcite on fractures
2540	see above
2550	see above
2560	light to medium gray calcareous sandstone to siltstone with green-gray siltstone; minor pyrite in calcareous siltstone; contaminated with tuffaceous sediments
2570	see above
2580	see above
2590	light to medium gray calcareous sandstone to siltstone; minor calcite, pyrite and iron oxide
2600	see above - sandier
2610	medium gray calcareous sandstone to calcareous siltstone - very indurated
2620	see above
2630	see above - increase in contamination; possible recrystallization of calcareous rocks
2640	see above - decrease in calcareous sandstone, increase in siltstone
2650	see above
2655	core fragments - medium gray calcareous siltstone; minor calcite on fractures
2660	light to medium gray calcareous sandstone to siltstone; contaminated with biotite bearing tuffaceous sediments
2670	no sample
2680	see 2660

2690	see above
2700	see above
2710	see above
2720	light to medium gray calcareous sandstone to siltstone; minor cherty silicification with pyrite along fractures
2730	see above - sandier; pyrite also disseminated
2740	see above
2750	see above
2760	see above
2770	see above
2780	light gray calcareous, very fine-grained sandstone; possible decalcification and bleaching; moderate amount of calcite veinlets
2790	see above
2799	core fragments - medium to dark gray, calcareous, indurated siltstone; partially recrystallized
2804	cuttings - see above; very little sample
2810	very light gray calcareous siltstone; cherty silicification with minor pyrite
2820	see above
2830	see above
2840	see above - very little sample
2850	see above - increase in calcite veinlets
2860	see above
2870	see above - very little sample
2880	see above - very little sample - small quartz crystals lining cavity; moderate iron oxide
2890	light to medium gray calcareous siltstone; recrystallized; minor pyrite
2900	see above
2910	see above - minor, black resinous coating on fractures
2920	light to medium gray calcareous siltstone; minor calcite and pyrite

2930	see above - no pyrite
2942	core fragments - medium gray silty limestone to calcareous siltstone; minor pyrite
2946	cuttings - medium gray calcareous siltstone; moderate pyrite
2950	see above
2960	very little sample - light gray calcareous siltstone; moderate bleaching
2970	see above
2980	see above
2990	light to medium gray calcareous siltstone; minor bleaching, no pyrite
3000	very little sample - see above
3010	see above; minor pyrite
3020	see above
3030	see above
3040	see above
3050	light to medium gray silty limestone; minor bleaching, calcite veinlets, and pyrite
3060	see above
3070	see above
3080	see above
3090	see above; slight increase in disseminated, very fine-grained pyrite
3100	see above
3110	see above
3120	see above
3130	see above; no pyrite
3140	see above
3151	core fragments - medium gray, slightly silicified calcareous siltstone; moderate very fine-grained pyrite; pyrite along lamination planes
3157	cuttings - very little sample - light to medium gray, slightly silicified siltstone; moderate pyrite

3170	see above
3180	see above - decrease in pyrite
3190	medium gray calcareous siltstone; minor calcite and pyrite
3200	see above
3210	see above
3220	see above
3230	see above
3240	see above - slightly recrystallized
3250	medium gray sandy limestone to calcareous siltstone; minor pyrite
3260	light to medium gray calcareous sandstone; no pyrite
3270	see above
3280	see above; minor calcite veinlets
3290	see above
3300	see above
3310	see above
3320	medium gray calcareous sandstone to siltstone; minor pyrite
3330	light to medium gray calcareous sandstone; no pyrite
3340	see above
3350	see above
3358	core fragments - medium gray calcareous sandstone; no calcite or pyrite
3362	cuttings - light to medium gray calcareous sandstone
3370	see above
3380	see above

End of Hole

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To: IL MINERALS
P.O. BOX 6640
1555 SHORELINE DR.
BOISE, IDAHO
83707

A8917346

Comments: ATTN: TYLER L. SHEPHERD

CERTIFICATE A8917346

IL MINERALS
PROJECT : RICHF'LD OILSCOTT#1
P.O.# : NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 15-JUN-89.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
217	111	Geochem:Ring only,no crush/split
238	111	ICP: Aqua regia digestion

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
101	61	Au ppb: Fuse 10 g sample	FA-NAA	1	10000
921	111	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
922	111	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	200
923	111	As ppm: 32 element, soil & rock	ICP-AES	5	10000
924	111	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
925	111	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
926	111	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
927	111	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
928	111	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
929	111	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
930	111	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
931	111	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
932	111	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
933	111	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
951	111	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
934	111	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
935	111	La ppm: 32 element, soil & rock	ICP-AES	10	10000
936	111	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
937	111	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
938	111	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
939	111	Na %: 32 element, soil & rock	ICP-AES	0.01	5.00
940	111	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
941	111	P ppm: 32 element, soil & rock	ICP-AES	10	10000
942	111	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
943	111	Sb ppm: 32 element, soil & rock	ICP-AES	5	10000
958	111	Sc ppm: 32 elements, soil & rock	ICP-AES	1	100000
944	111	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
945	111	Ti %: 32 element, soil & rock	ICP-AES	0.01	5.00
946	111	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
947	111	U ppm: 32 element, soil & rock	ICP-AES	10	10000
948	111	V ppm: 32 element, soil & rock	ICP-AES	1	10000
949	111	W ppm: 32 element, soil & rock	ICP-AES	10	10000
950	111	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000

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Project : RICHFIELD OILSCOTT#1
Comments: ATTN: TYLER L. SHEPHERD

Date : 15-JUN-89
Invoice # : I-8917346
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8917346

">" small samples have been combined for Au

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
RO-1-5-2260	217	238	1	1.78	< 0.2	15	580	0.5	4	0.98	< 0.5	13	129	23	1.87	< 10	1	0.37	30	0.94	495
RO-1-5-2270	217	238	2	1.77	< 0.2	15	730	1.0	2	1.12	< 0.5	6	127	18	1.66	10	< 1	0.36	40	0.65	410
RO-1-5-2340	217	238	2	1.83	< 0.2	15	970	1.0	2	1.63	< 0.5	7	76	13	1.79	< 10	< 1	0.38	30	0.53	470
RO-1-5-2350	217	238	4	1.41	< 0.2	5	360	0.5	2	5.12	< 0.5	6	111	11	1.41	< 10	< 1	0.36	< 10	0.75	380
RO-1-5-2362	217	238	———	3.17	< 0.2	20	530	1.0	4	0.73	< 0.5	8	103	11	2.67	10	< 1	0.48	30	1.89	620
RO-1-5-2373	217	238	2	0.74	< 0.2	< 5	140	< 0.5	2	9.77	< 0.5	3	149	6	0.84	< 10	1	0.21	< 10	0.94	195
RO-1-5-2380	217	238	———	1.20	< 0.2	5	280	0.5	4	6.62	< 0.5	4	116	7	1.02	< 10	< 1	0.30	< 10	1.04	235
RO-1-5-2390	217	238	< 2	1.18	< 0.2	10	210	0.5	4	7.46	< 0.5	4	227	7	0.99	< 10	< 1	0.36	< 10	1.08	190
RO-1-5-2400	217	238	———	1.59	< 0.2	5	210	0.5	2	5.13	< 0.5	4	274	7	1.20	< 10	< 1	0.47	< 10	0.88	240
RO-1-5-2410	217	238	2	0.40	< 0.2	< 5	50	< 0.5	< 2	4.92	< 0.5	2	143	3	0.49	< 10	< 1	0.16	< 10	1.05	90
RO-1-5-2416	217	238	2	0.43	< 0.2	5	60	< 0.5	6	10.75	< 0.5	2	102	2	0.43	< 10	< 1	0.17	< 10	1.01	110
RO-1-5-2428	217	238	< 1	1.19	< 0.2	10	240	0.5	2	5.48	< 0.5	8	156	12	1.07	< 10	< 1	0.36	< 10	0.81	290
RO-1-5-2430	217	238	———	1.37	< 0.2	5	400	0.5	2	7.11	< 0.5	4	145	8	1.16	< 10	< 1	0.44	< 10	1.03	300
RO-1-5-2440	217	238	not/ss	1.60	< 0.2	10	230	0.5	2	6.10	< 0.5	5	285	10	1.27	< 10	< 1	0.50	< 10	1.30	265
RO-1-5-2450	217	238	2	1.62	< 0.2	5	500	0.5	< 2	4.72	< 0.5	6	129	11	1.37	< 10	< 1	0.42	< 10	0.86	380
RO-1-5-2460	217	238	———	0.65	< 0.2	5	100	< 0.5	2	6.62	< 0.5	2	194	5	0.76	< 10	< 1	0.22	< 10	1.12	170
RO-1-5-2470	217	238	4	1.62	< 0.2	20	370	0.5	4	4.89	< 0.5	6	174	12	1.49	< 10	2	0.51	< 10	1.18	415
RO-1-5-2480	217	238	———	0.69	< 0.2	5	200	< 0.5	4	7.18	< 0.5	3	153	6	0.82	< 10	< 1	0.20	< 10	1.59	260
RO-1-5-2490	217	238	< 2	0.46	< 0.2	5	90	< 0.5	2	5.19	0.5	2	166	4	0.60	< 10	< 1	0.15	< 10	1.25	160
RO-1-5-2500	217	238	not/ss	1.03	< 0.2	< 5	190	< 0.5	4	8.31	0.5	3	496	6	0.97	< 10	< 1	0.34	< 10	1.79	185
RO-1-5-2510	217	238	< 1	1.18	< 0.2	10	220	0.5	4	4.84	0.5	4	86	10	1.27	< 10	< 1	0.30	< 10	1.10	340
RO-1-5-2534	217	238	3	0.48	< 0.2	< 5	100	< 0.5	2	7.43	0.5	2	250	5	0.58	< 10	< 1	0.17	< 10	1.44	95
RO-1-5-2540	217	238	———	0.84	< 0.2	10	390	0.5	2	5.60	0.5	3	120	9	0.88	< 10	< 1	0.27	< 10	1.54	160
RO-1-5-2550	217	238	< 1	0.97	< 0.2	10	280	0.5	2	6.17	0.5	4	110	10	1.03	< 10	< 1	0.29	< 10	1.53	235
RO-1-5-2560	217	238	———	1.91	< 0.2	5	830	0.5	2	3.99	< 0.5	4	120	8	1.13	< 10	< 1	0.54	< 10	0.83	290
RO-1-5-2570	217	238	< 2	1.35	< 0.2	5	230	0.5	< 2	6.35	0.5	4	177	15	1.28	< 10	< 1	0.37	< 10	1.14	215
RO-1-5-2580	217	238	———	1.54	< 0.2	10	220	0.5	4	5.13	0.5	4	201	9	1.13	< 10	< 1	0.48	< 10	1.31	215
RO-1-5-2590	217	238	< 1	1.08	< 0.2	10	190	0.5	4	5.04	< 0.5	5	98	12	0.90	< 10	< 1	0.28	< 10	1.21	240
RO-1-5-2600	217	238	———	0.84	< 0.2	10	260	0.5	2	6.57	< 0.5	3	159	14	0.72	< 10	2	0.24	< 10	1.31	180
RO-1-5-2610	217	238	7	0.75	< 0.2	5	230	0.5	2	4.07	< 0.5	1	151	6	0.81	< 10	< 1	0.19	< 10	1.03	165
RO-1-5-2620	217	238	———	1.51	< 0.2	10	340	1.0	2	3.80	< 0.5	4	130	11	1.25	< 10	2	0.39	< 10	0.97	245
RO-1-5-2630	217	238	< 2	1.11	< 0.2	< 5	150	0.5	4	6.06	0.5	3	213	11	1.02	< 10	1	0.37	< 10	1.24	195
RO-1-5-2640	217	238	———	2.32	< 0.2	5	280	1.0	2	4.89	< 0.5	6	155	12	1.77	< 10	< 1	0.58	< 10	0.96	290
RO-1-5-2650	217	238	< 1	0.79	< 0.2	5	150	0.5	< 2	6.58	0.5	3	105	9	0.84	< 10	< 1	0.22	< 10	0.96	165
RO-1-5-2655	217	238	1	0.36	< 0.2	< 5	110	< 0.5	2	4.96	1.0	1	130	4	0.55	< 10	< 1	0.12	< 10	1.10	105
RO-1-5-2660	217	238	< 2	0.81	< 0.2	5	400	0.5	2	8.90	< 0.5	3	94	8	1.00	< 10	< 1	0.20	< 10	1.13	245
RO-1-5-2670	217	238	not/ss	0.82	< 0.2	< 5	400	0.5	2	8.84	0.5	3	91	7	0.90	< 10	< 1	0.21	< 10	1.13	240
RO-1-5-2680	217	238	2	1.48	< 0.2	10	200	0.5	2	4.78	< 0.5	5	209	12	1.31	< 10	< 1	0.41	< 10	0.95	260
RO-1-5-2690	217	238	———	1.55	< 0.2	10	420	1.0	< 2	3.65	< 0.5	5	102	9	1.51	< 10	< 1	0.35	< 10	0.95	380
RO-1-5-2700	217	238	< 2	1.12	< 0.2	10	460	0.5	< 2	3.97	< 0.5	5	136	11	1.16	< 10	1	0.34	< 10	0.83	290

CERTIFICATION : B. Caglio

Chemex Labs Ltd.
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Date : 15-JUN-89
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P.O. # : NONE

CERTIFICATE OF ANALYSIS A8917346

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
RO-1-5-2260	217	238	< 1	0.08	16	950	18	< 5	4	110	0.01	< 10	< 10	41	< 10	48
RO-1-5-2270	217	238	< 1	0.09	12	840	22	< 5	3	337	0.01	< 10	< 10	21	< 10	50
RO-1-5-2340	217	238	1	0.11	12	600	22	< 5	3	493	0.02	< 10	< 10	19	50	52
RO-1-5-2350	217	238	1	0.07	11	470	12	< 5	3	275	0.01	< 10	< 10	17	< 10	48
RO-1-5-2362	217	238	< 1	0.11	7	670	28	< 5	4	116	0.02	< 10	< 10	28	< 10	104
RO-1-5-2373	217	238	< 1	0.02	9	360	4	< 5	1	277	< 0.01	< 10	< 10	9	< 10	32
RO-1-5-2380	217	238	1	0.06	13	370	10	< 5	2	306	0.01	< 10	< 10	12	< 10	36
RO-1-5-2390	217	238	< 1	0.07	9	280	12	< 5	2	283	0.01	< 10	< 10	13	< 10	42
RO-1-5-2400	217	238	1	0.07	10	410	8	< 5	2	191	0.01	< 10	< 10	14	< 10	32
RO-1-5-2410	217	238	< 1	0.01	7	260	8	< 5	1	96	< 0.01	< 10	< 10	3	< 10	16
RO-1-5-2416	217	238	< 1	0.01	6	250	< 2	< 5	1	234	< 0.01	< 10	< 10	3	< 10	16
RO-1-5-2428	217	238	< 1	0.05	9	420	16	< 5	2	210	< 0.01	< 10	< 10	12	< 10	42
RO-1-5-2430	217	238	< 1	0.05	8	410	10	< 5	2	208	< 0.01	< 10	< 10	13	< 10	36
RO-1-5-2440	217	238	< 1	0.06	11	470	8	< 5	2	184	< 0.01	< 10	< 10	17	< 10	46
RO-1-5-2450	217	238	< 1	0.11	8	500	24	5	2	373	0.02	< 10	< 10	16	< 10	44
RO-1-5-2460	217	238	< 1	0.03	9	270	6	< 5	1	185	< 0.01	< 10	< 10	8	< 10	30
RO-1-5-2470	217	238	1	0.09	14	430	10	< 5	3	239	0.02	< 10	< 10	19	< 10	44
RO-1-5-2480	217	238	1	0.03	11	470	6	< 5	2	220	< 0.01	< 10	< 10	9	< 10	36
RO-1-5-2490	217	238	1	0.02	9	360	< 2	< 5	1	129	< 0.01	< 10	< 10	6	< 10	28
RO-1-5-2500	217	238	1	0.04	14	410	2	< 5	2	207	0.01	< 10	< 10	13	< 10	46
RO-1-5-2510	217	238	3	0.06	11	510	6	< 5	2	168	< 0.01	< 10	< 10	12	< 10	46
RO-1-5-2534	217	238	< 1	0.01	13	390	< 2	< 5	2	163	< 0.01	< 10	< 10	6	< 10	34
RO-1-5-2540	217	238	1	0.03	12	430	2	< 5	2	138	< 0.01	< 10	< 10	10	< 10	54
RO-1-5-2550	217	238	1	0.05	14	490	8	< 5	2	188	< 0.01	< 10	< 10	11	< 10	60
RO-1-5-2560	217	238	< 1	0.12	10	470	14	< 5	2	837	< 0.01	< 10	< 10	13	< 10	48
RO-1-5-2570	217	238	< 1	0.06	12	350	4	< 5	2	192	< 0.01	< 10	< 10	19	< 10	52
RO-1-5-2580	217	238	< 1	0.06	12	700	8	< 5	2	191	< 0.01	< 10	< 10	17	< 10	50
RO-1-5-2590	217	238	< 1	0.07	9	450	86	< 5	2	153	< 0.01	< 10	< 10	12	< 10	40
RO-1-5-2600	217	238	1	0.04	10	550	8	< 5	1	221	< 0.01	< 10	< 10	9	< 10	32
RO-1-5-2610	217	238	1	0.04	16	540	10	< 5	1	197	0.01	< 10	< 10	8	< 10	28
RO-1-5-2620	217	238	1	0.10	11	440	10	< 5	3	280	0.01	< 10	< 10	16	< 10	40
RO-1-5-2630	217	238	1	0.04	11	590	4	< 5	2	152	< 0.01	< 10	< 10	13	< 10	46
RO-1-5-2640	217	238	< 1	0.08	12	670	14	< 5	4	203	< 0.01	< 10	< 10	25	< 10	64
RO-1-5-2650	217	238	< 1	0.03	11	560	60	< 5	2	184	< 0.01	< 10	< 10	9	< 10	32
RO-1-5-2655	217	238	< 1	0.01	8	370	6	< 5	1	127	< 0.01	< 10	< 10	5	< 10	24
RO-1-5-2660	217	238	5	0.04	32	520	10	< 5	2	284	< 0.01	< 10	< 10	9	30	26
RO-1-5-2670	217	238	2	0.04	12	510	16	< 5	2	282	< 0.01	< 10	< 10	9	20	26
RO-1-5-2680	217	238	1	0.08	12	450	14	< 5	3	158	0.01	< 10	< 10	20	< 10	44
RO-1-5-2690	217	238	< 1	0.14	12	590	14	< 5	2	397	< 0.01	< 10	< 10	13	< 10	50
RO-1-5-2700	217	238	< 1	0.06	14	460	12	5	2	178	< 0.01	< 10	< 10	13	< 10	42

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
212 BROOKSBANK AVE., NORTH VANCOUVER,
BRITISH COLUMBIA, CANADA V7J-2C1
PHONE (604) 984-0221

To : IL MINERALS
P.O. BOX 6640
1555 SHORELINE DR.
BOISE, IDAHO
83707
Project : RICHFIELD OILSCOTT#1
Comments: ATTN: TYLER L. SHEPHERD

Date : 15-JUN-89
Invoice # : I-8917346
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8917346

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
RO-1-5-2710	217	238	4	0.75	< 0.2	5	140	0.5	2	5.58	< 0.5	3	120	8	0.83	< 10	< 1	0.26	< 10	1.03	175
RO-1-5-2720	217	238	2	1.08	< 0.2	5	180	0.5	< 2	5.83	0.5	4	165	10	1.00	< 10	< 1	0.40	< 10	1.06	180
RO-1-5-2730	217	238	——	1.12	< 0.2	10	170	0.5	< 2	10.10	< 0.5	4	154	9	0.94	< 10	< 1	0.37	< 10	1.16	220
RO-1-5-2740	217	238	< 2	0.81	< 0.2	5	150	0.5	2	7.69	< 0.5	3	107	9	0.78	< 10	< 1	0.27	< 10	1.11	175
RO-1-5-2750	217	238	not/ss	0.87	< 0.2	5	150	0.5	< 2	9.45	0.5	2	243	6	0.77	< 10	< 1	0.31	< 10	1.14	160
RO-1-5-2760	217	238	< 2	0.82	< 0.2	5	250	0.5	< 2	9.94	< 0.5	2	117	5	0.70	< 10	< 1	0.30	< 10	1.27	165
RO-1-5-2770	217	238	not/ss	1.37	< 0.2	5	210	0.5	2	11.30	< 0.5	3	180	6	0.73	< 10	1	0.54	< 10	1.26	180
RO-1-5-2780	217	238	1	0.97	< 0.2	5	190	0.5	< 2	9.01	< 0.5	3	118	6	0.87	< 10	< 1	0.30	< 10	1.11	210
RO-1-5-2790	217	238	——	1.18	< 0.2	5	180	0.5	< 2	7.61	< 0.5	3	178	6	0.81	< 10	1	0.41	< 10	1.30	175
RO-1-5-2799	217	238	——	1.18	< 0.2	5	180	0.5	2	7.84	0.5	4	177	6	0.84	< 10	< 1	0.42	< 10	1.33	180
RO-1-5-2804	217	238	not/ss	1.90	< 0.2	10	330	0.5	2	9.03	0.5	4	926	9	1.31	< 10	< 1	0.71	< 10	1.41	170
RO-1-5-2810	217	238	1	0.69	< 0.2	10	140	0.5	< 2	6.09	0.5	5	122	18	1.02	< 10	< 1	0.30	< 10	1.12	170
RO-1-5-2820	217	238	——	0.75	< 0.2	10	160	0.5	< 2	7.18	< 0.5	4	145	9	0.85	< 10	< 1	0.26	< 10	1.50	150
RO-1-5-2830	217	238	3	0.53	< 0.2	< 5	130	0.5	< 2	6.77	< 0.5	4	139	9	0.80	< 10	< 1	0.19	< 10	1.64	140
RO-1-5-2840	217	238	not/ss	1.63	< 0.2	5	260	1.0	< 2	5.46	< 0.5	4	540	11	1.24	< 10	1	0.60	< 10	1.30	150
RO-1-5-2850	217	238	3	0.83	< 0.2	5	150	0.5	2	9.03	0.5	2	196	9	0.77	< 10	1	0.31	< 10	1.40	135
RO-1-5-2860	217	238	——	1.33	< 0.2	5	170	0.5	2	10.05	0.5	3	230	10	0.87	< 10	< 1	0.44	< 10	1.57	160
RO-1-5-2870	217	238	not/ss	1.21	< 0.2	5	180	0.5	2	9.03	0.5	4	496	12	1.18	< 10	< 1	0.44	< 10	1.58	170
RO-1-5-2880	217	238	not/ss	1.17	< 0.2	25	180	0.5	2	8.20	0.5	7	295	10	0.91	< 10	< 1	0.42	< 10	1.45	130
RO-1-5-2890	217	238	7	0.77	< 0.2	5	240	0.5	2	8.78	0.5	2	177	6	0.77	< 10	< 1	0.26	< 10	1.59	145
RO-1-5-2900	217	238	——	0.81	< 0.2	< 5	220	0.5	2	8.42	0.5	4	143	9	0.75	< 10	< 1	0.32	< 10	1.67	185
RO-1-5-2910	217	238	2	0.79	< 0.2	< 5	130	0.5	2	7.27	0.5	3	135	12	0.91	< 10	< 1	0.25	< 10	1.33	160
RO-1-5-2920	217	238	——	0.92	< 0.2	10	170	0.5	2	7.52	0.5	4	164	9	0.82	< 10	< 1	0.32	< 10	1.39	135
RO-1-5-2930	217	238	< 1	0.80	< 0.2	< 5	150	0.5	2	10.10	0.5	3	140	9	0.79	< 10	< 1	0.24	< 10	1.42	160
RO-1-5-2942	217	238	——	0.18	< 0.2	< 5	180	< 0.5	6	>15.00	< 0.5	2	23	1	0.16	< 10	< 1	0.06	< 10	0.79	75
RO-1-5-2946	217	238	2	0.64	< 0.2	< 5	180	< 0.5	2	9.68	0.5	2	143	9	0.67	< 10	< 1	0.20	< 10	1.50	125
RO-1-5-2950	217	238	——	0.66	< 0.2	< 5	150	< 0.5	2	11.50	0.5	2	95	5	0.56	< 10	< 1	0.23	< 10	1.43	120
RO-1-5-2960	217	238	not/ss	0.96	< 0.2	< 5	170	0.5	4	10.50	0.5	2	276	10	0.74	< 10	< 1	0.36	< 10	1.58	135
RO-1-5-2970	217	238	6	0.69	< 0.2	< 5	150	< 0.5	2	9.70	0.5	2	104	5	0.56	< 10	< 1	0.24	< 10	1.55	125
RO-1-5-2980	217	238	not/ss	1.04	< 0.2	5	230	0.5	4	9.36	< 0.5	3	230	7	1.03	< 10	< 1	0.27	< 10	1.30	245
RO-1-5-2990	217	238	4	1.17	< 0.2	5	310	0.5	2	8.55	< 0.5	4	88	8	1.11	< 10	< 1	0.28	< 10	1.45	315
RO-1-5-3000	217	238	not/ss	0.63	< 0.2	5	140	0.5	< 2	7.82	0.5	3	293	7	0.92	< 10	< 1	0.23	< 10	1.68	200
RO-1-5-3010	217	238	< 2	0.66	< 0.2	< 5	1170	< 0.5	6	10.70	0.5	3	127	5	0.68	< 10	< 1	0.21	< 10	1.60	140
RO-1-5-3020	217	238	——	0.54	< 0.2	< 5	130	< 0.5	4	8.97	1.0	2	178	8	0.71	< 10	< 1	0.19	< 10	2.31	140
RO-1-5-3030	217	238	< 2	1.01	< 0.2	< 5	300	0.5	2	9.37	0.5	3	155	5	0.70	< 10	< 1	0.31	< 10	2.00	140
RO-1-5-3040	217	238	——	0.78	< 0.2	< 5	130	0.5	4	8.16	0.5	2	205	8	0.78	< 10	< 1	0.26	< 10	2.27	135
RO-1-5-3050	217	238	< 1	0.83	< 0.2	< 5	130	0.5	2	7.26	0.5	3	111	6	0.73	< 10	2	0.31	< 10	1.69	145
RO-1-5-3060	217	238	——	0.50	< 0.2	5	110	< 0.5	2	7.19	0.5	2	159	6	0.59	< 10	< 1	0.20	< 10	1.67	115
RO-1-5-3070	217	238	< 1	0.77	< 0.2	5	160	0.5	2	7.31	0.5	2	154	7	0.74	< 10	< 1	0.31	< 10	1.88	125
RO-1-5-3080	217	238	——	0.49	< 0.2	5	100	0.5	2	8.00	1.0	3	119	7	0.78	< 10	< 1	0.23	< 10	2.63	140

CERTIFICATION : B. Caughlin

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PHONE (604) 984-0221

To: IL MINERALS
P.O. BOX 6640
1555 SHORELINE DR.
BOISE, IDAHO
83707
Project : RICHF'LD OILSCOTT#1
Comments: ATTN: TYLER L. SHEPHERD

Date : 15-JUN-89
Invoice # : I-8917346
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8917346

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
RO-1-5-2710	217	238	< 1	0.02	14	500	14	< 5	2	158	< 0.01	< 10	< 10	8	< 10	28
RO-1-5-2720	217	238	1	0.03	15	440	2	< 5	2	168	< 0.01	< 10	< 10	17	< 10	44
RO-1-5-2730	217	238	1	0.04	12	450	14	< 5	2	270	< 0.01	< 10	< 10	13	< 10	32
RO-1-5-2740	217	238	1	0.03	12	470	10	5	1	210	< 0.01	< 10	< 10	8	< 10	26
RO-1-5-2750	217	238	< 1	0.03	11	460	8	< 5	2	219	< 0.01	< 10	< 10	10	< 10	32
RO-1-5-2760	217	238	1	0.03	10	470	4	< 5	2	248	< 0.01	< 10	< 10	8	< 10	30
RO-1-5-2770	217	238	< 1	0.04	10	460	6	5	2	257	0.01	< 10	< 10	13	< 10	30
RO-1-5-2780	217	238	< 1	0.05	9	510	6	< 5	2	238	0.01	< 10	< 10	9	< 10	34
RO-1-5-2790	217	238	< 1	0.04	11	490	6	< 5	2	185	< 0.01	< 10	< 10	10	< 10	38
RO-1-5-2799	217	238	< 1	0.04	12	510	8	< 5	2	190	< 0.01	< 10	< 10	10	< 10	40
RO-1-5-2804	217	238	1	0.07	22	570	10	< 5	2	241	0.02	< 10	< 10	20	< 10	46
RO-1-5-2810	217	238	1	0.03	16	550	2	< 5	2	176	< 0.01	< 10	< 10	10	< 10	54
RO-1-5-2820	217	238	1	0.03	13	440	856	< 5	2	192	< 0.01	< 10	< 10	9	< 10	40
RO-1-5-2830	217	238	< 1	0.02	14	410	2	< 5	2	175	< 0.01	< 10	< 10	8	< 10	40
RO-1-5-2840	217	238	< 1	0.05	17	340	150	< 5	3	158	0.01	< 10	< 10	19	< 10	54
RO-1-5-2850	217	238	< 1	0.03	13	440	24	< 5	2	221	< 0.01	< 10	< 10	12	< 10	42
RO-1-5-2860	217	238	1	0.04	11	560	18	< 5	2	237	< 0.01	< 10	< 10	16	< 10	42
RO-1-5-2870	217	238	9	0.03	28	650	12	< 5	2	210	0.01	< 10	< 10	16	< 10	50
RO-1-5-2880	217	238	1	0.03	14	480	32	5	2	211	0.01	< 10	< 10	15	< 10	46
RO-1-5-2890	217	238	1	0.03	10	420	4	< 5	2	216	< 0.01	< 10	< 10	10	< 10	30
RO-1-5-2900	217	238	1	0.03	13	460	8	< 5	2	196	< 0.01	< 10	< 10	11	< 10	40
RO-1-5-2910	217	238	4	0.05	14	470	10	< 5	2	184	< 0.01	< 10	< 10	10	< 10	48
RO-1-5-2920	217	238	1	0.04	14	510	8	< 5	2	206	< 0.01	< 10	< 10	11	< 10	42
RO-1-5-2930	217	238	1	0.04	12	480	6	< 5	2	250	< 0.01	< 10	< 10	10	< 10	38
RO-1-5-2942	217	238	< 1	0.01	2	210	4	< 5	< 1	625	< 0.01	< 10	< 10	3	< 10	4
RO-1-5-2946	217	238	1	0.03	12	440	4	< 5	2	262	< 0.01	< 10	< 10	8	< 10	38
RO-1-5-2950	217	238	1	0.02	9	410	4	< 5	1	255	< 0.01	< 10	< 10	8	< 10	30
RO-1-5-2960	217	238	1	0.03	13	430	4	< 5	2	243	< 0.01	< 10	< 10	13	< 10	42
RO-1-5-2970	217	238	1	0.03	8	340	4	< 5	1	231	< 0.01	< 10	< 10	8	< 10	32
RO-1-5-2980	217	238	1	0.07	9	360	6	< 5	2	253	0.01	< 10	< 10	14	< 10	26
RO-1-5-2990	217	238	1	0.09	7	410	4	< 5	2	393	0.01	< 10	< 10	14	< 10	28
RO-1-5-3000	217	238	1	0.03	15	410	4	< 5	2	175	< 0.01	< 10	< 10	10	< 10	44
RO-1-5-3010	217	238	2	0.03	10	350	66	< 5	2	239	< 0.01	< 10	< 10	9	310	32
RO-1-5-3020	217	238	1	0.03	12	410	90	< 5	2	173	< 0.01	< 10	< 10	10	< 10	56
RO-1-5-3030	217	238	< 1	0.05	10	360	2	< 5	2	253	< 0.01	< 10	< 10	10	10	36
RO-1-5-3040	217	238	2	0.03	13	440	10	< 5	2	156	< 0.01	< 10	< 10	10	< 10	40
RO-1-5-3050	217	238	1	0.03	9	470	6	< 5	1	171	< 0.01	< 10	< 10	8	< 10	42
RO-1-5-3060	217	238	< 1	0.02	12	400	6	< 5	1	147	< 0.01	< 10	< 10	7	< 10	34
RO-1-5-3070	217	238	1	0.02	13	360	4	< 5	2	159	< 0.01	< 10	< 10	11	< 10	44
RO-1-5-3080	217	238	1	0.01	17	410	18	< 5	2	156	< 0.01	< 10	< 10	9	< 10	68

CERTIFICATION : B. Caughlin

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Date : 15-JUN-89
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CERTIFICATE OF ANALYSIS A8917346

SAMPLE DESCRIPTION	PREP CODE		Au NAA ppb	Al %	Ag ppm	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
RO-1-5-3090	217	238	1	0.42	< 0.2	< 5	80	< 0.5	< 2	6.83	0.5	2	124	7	0.65	< 10	1	0.15	< 10	1.79	115
RO-1-5-3100	217	238	3	0.52	< 0.2	5	90	< 0.5	< 2	4.68	0.5	2	216	6	0.62	< 10	< 1	0.18	< 10	1.64	115
RO-1-5-3110	217	238	——	0.64	< 0.2	< 5	120	< 0.5	< 2	6.56	0.5	2	267	5	0.60	< 10	< 1	0.24	< 10	1.60	140
RO-1-5-3120	217	238	< 2	0.64	< 0.2	< 5	390	< 0.5	< 2	8.10	0.5	2	215	5	0.63	< 10	< 1	0.25	< 10	1.79	150
RO-1-5-3130	217	238	——	0.89	< 0.2	5	160	0.5	< 2	6.92	< 0.5	4	187	9	0.85	< 10	< 1	0.33	< 10	1.94	170
RO-1-5-3140	217	238	2	0.84	< 0.2	5	580	0.5	< 2	6.46	< 0.5	4	121	16	0.98	< 10	< 1	0.30	< 10	1.91	240
RO-1-5-3151	217	238	——	2.28	< 0.2	15	270	1.5	< 2	1.06	< 0.5	7	112	45	1.88	< 10	< 1	1.11	10	0.59	130
RO-1-5-3157	217	238	not/ss	1.41	< 0.2	5	440	1.0	< 2	3.99	< 0.5	5	301	22	1.21	< 10	< 1	0.63	< 10	1.46	235
RO-1-5-3170	217	238	2	1.05	< 0.2	5	210	0.5	< 2	4.97	0.5	4	165	12	0.99	< 10	< 1	0.41	< 10	1.46	175
RO-1-5-3180	217	238	not/ss	0.99	< 0.2	< 5	200	0.5	< 2	4.73	0.5	4	263	14	0.98	< 10	< 1	0.43	< 10	1.52	160
RO-1-5-3190	217	238	——	0.98	< 0.2	5	150	0.5	< 2	5.70	0.5	4	172	11	0.97	< 10	< 1	0.40	< 10	1.96	180
RO-1-5-3200	217	238	——	0.86	< 0.2	< 5	190	0.5	< 2	5.03	0.5	5	162	17	1.06	< 10	< 1	0.37	< 10	1.53	170
RO-1-5-3210	217	238	not/ss	1.18	< 0.2	5	210	0.5	< 2	10.90	1.0	4	178	10	0.76	< 10	< 1	0.53	< 10	2.09	180
RO-1-5-3220	217	238	< 1	0.55	< 0.2	5	110	0.5	< 2	9.23	1.0	3	79	10	0.72	< 10	< 1	0.24	< 10	2.20	120
RO-1-5-3230	217	238	not/ss	1.30	< 0.2	5	200	0.5	< 2	12.25	0.5	4	172	8	0.77	< 10	< 1	0.62	< 10	2.29	140
RO-1-5-3240	217	238	< 1	0.68	< 0.2	5	120	0.5	< 2	9.55	0.5	3	158	8	0.93	< 10	< 1	0.30	< 10	2.07	195
RO-1-5-3250	217	238	——	0.60	< 0.2	< 5	100	< 0.5	< 2	7.08	< 0.5	2	122	4	0.68	< 10	< 1	0.27	< 10	1.74	170
RO-1-5-3260	217	238	< 2	0.72	< 0.2	5	100	0.5	< 2	7.27	< 0.5	2	133	5	0.66	< 10	< 1	0.26	< 10	1.38	140
RO-1-5-3270	217	238	< 1	0.71	< 0.2	< 5	100	< 0.5	< 2	6.80	< 0.5	2	113	6	0.64	< 10	< 1	0.28	< 10	1.26	120
RO-1-5-3280	217	238	< 2	0.83	< 0.2	< 5	120	< 0.5	< 2	7.24	< 0.5	2	150	4	0.63	< 10	< 1	0.29	< 10	1.16	125
RO-1-5-3290	217	238	< 2	0.83	< 0.2	< 5	230	0.5	< 2	6.73	< 0.5	2	180	5	0.67	< 10	< 1	0.32	< 10	1.28	140
RO-1-5-3300	217	238	< 2	0.54	< 0.2	< 5	120	< 0.5	< 2	6.47	< 0.5	2	142	3	0.52	< 10	< 1	0.21	< 10	1.06	115
RO-1-5-3310	217	238	< 1	0.40	< 0.2	< 5	120	< 0.5	< 2	5.60	< 0.5	2	122	3	0.47	< 10	< 1	0.19	< 10	1.24	90
RO-1-5-3320	217	238	< 1	0.59	< 0.2	< 5	240	< 0.5	< 2	6.37	< 0.5	2	140	6	0.68	< 10	< 1	0.25	< 10	1.43	140
RO-1-5-3330	217	238	——	0.73	< 0.2	5	130	0.5	< 2	6.55	< 0.5	2	179	12	0.66	< 10	< 1	0.30	< 10	1.19	140
RO-1-5-3340	217	238	2	0.76	< 0.2	5	140	0.5	< 2	6.73	< 0.5	2	177	5	0.64	< 10	< 1	0.29	< 10	1.06	135
RO-1-5-3350	217	238	——	0.87	< 0.2	10	150	0.5	< 2	6.01	< 0.5	2	219	5	0.68	< 10	< 1	0.34	< 10	1.06	115
RO-1-5-3358	217	238	1	0.31	< 0.2	< 5	80	< 0.5	< 2	5.35	< 0.5	1	209	1	0.37	< 10	< 1	0.16	< 10	0.59	70
RO-1-5-3362	217	238	16	1.03	< 0.2	< 5	200	0.5	< 2	4.60	< 0.5	2	256	5	0.74	< 10	< 1	0.37	< 10	0.75	150
RO-1-5-3370	217	238	< 1	0.62	< 0.2	5	100	< 0.5	< 2	4.64	< 0.5	2	177	3	0.58	< 10	< 1	0.23	< 10	0.71	100
RO-1-5-3380	217	238	< 1	0.85	< 0.2	< 5	270	< 0.5	< 2	6.08	< 0.5	3	151	8	0.82	< 10	< 1	0.39	< 10	1.41	155

CERTIFICATION : B. Caughlin

Chemex Labs Ltd.
Analytical Chemists * Geochemists * Registered Assayers
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To : IL MINERALS
P.O. BOX 6640
1555 SHORELINE DR.
BOISE, IDAHO
83707

Project : RICHF'LD OILSCOTT#1
Comments: ATTN: TYLER L. SHEPHERD

Date : 15-JUN-89
Invoice # : I-8917346
P.O. # : NONE

CERTIFICATE OF ANALYSIS A8917346

SAMPLE DESCRIPTION	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
RO-1-5-3090	217	238	1	0.01	15	600	12	< 5	1	141	< 0.01	< 10	< 10	7	< 10	52
RO-1-5-3100	217	238	1	0.02	12	500	2	< 5	1	103	< 0.01	< 10	< 10	9	< 10	40
RO-1-5-3110	217	238	1	0.02	10	500	10	< 5	1	134	< 0.01	< 10	< 10	8	< 10	28
RO-1-5-3120	217	238	< 1	0.02	10	520	4	< 5	1	186	< 0.01	< 10	< 10	8	< 10	30
RO-1-5-3130	217	238	1	0.03	12	430	4	< 5	2	159	< 0.01	< 10	< 10	11	< 10	44
RO-1-5-3140	217	238	1	0.03	17	480	10	< 5	2	142	< 0.01	< 10	< 10	11	< 10	50
RO-1-5-3151	217	238	2	0.02	43	350	14	< 5	6	44	< 0.01	< 10	< 10	30	< 10	82
RO-1-5-3157	217	238	1	0.03	21	380	8	5	3	91	< 0.01	< 10	< 10	20	< 10	46
RO-1-5-3170	217	238	1	0.04	14	340	6	< 5	2	139	< 0.01	< 10	< 10	14	< 10	48
RO-1-5-3180	217	238	< 1	0.03	18	360	12	< 5	3	130	< 0.01	< 10	< 10	14	< 10	46
RO-1-5-3190	217	238	2	0.03	13	460	8	< 5	2	125	< 0.01	< 10	< 10	13	< 10	52
RO-1-5-3200	217	238	1	0.03	18	440	10	< 5	2	108	< 0.01	< 10	< 10	12	< 10	62
RO-1-5-3210	217	238	2	0.03	13	600	8	< 5	2	248	< 0.01	< 10	< 10	16	< 10	52
RO-1-5-3220	217	238	1	0.03	12	540	6	< 5	2	199	< 0.01	< 10	< 10	9	< 10	52
RO-1-5-3230	217	238	1	0.03	13	520	8	< 5	2	278	< 0.01	< 10	< 10	18	< 10	52
RO-1-5-3240	217	238	< 1	0.02	12	480	4	< 5	2	228	< 0.01	< 10	< 10	10	< 10	36
RO-1-5-3250	217	238	< 1	0.01	6	230	< 2	< 5	1	175	< 0.01	< 10	< 10	6	< 10	14
RO-1-5-3260	217	238	2	0.03	8	250	12	< 5	1	188	< 0.01	< 10	< 10	7	< 10	20
RO-1-5-3270	217	238	2	0.03	30	190	8	< 5	1	181	< 0.01	< 10	< 10	6	< 10	18
RO-1-5-3280	217	238	1	0.05	7	140	16	< 5	1	203	0.01	< 10	< 10	9	< 10	16
RO-1-5-3290	217	238	< 1	0.04	9	220	4	< 5	1	162	< 0.01	< 10	< 10	7	< 10	20
RO-1-5-3300	217	238	< 1	0.03	6	170	8	< 5	1	177	< 0.01	< 10	< 10	4	< 10	18
RO-1-5-3310	217	238	< 1	0.02	7	180	6	< 5	1	119	< 0.01	< 10	< 10	3	< 10	18
RO-1-5-3320	217	238	< 1	0.03	10	280	6	< 5	1	156	< 0.01	< 10	< 10	6	< 10	26
RO-1-5-3330	217	238	< 1	0.03	9	220	10	< 5	1	164	< 0.01	< 10	< 10	7	< 10	24
RO-1-5-3340	217	238	< 1	0.04	8	250	6	< 5	1	165	< 0.01	< 10	< 10	8	< 10	50
RO-1-5-3350	217	238	< 1	0.04	9	200	8	< 5	1	186	< 0.01	< 10	< 10	8	< 10	20
RO-1-5-3358	217	238	< 1	< 0.01	5	90	4	< 5	< 1	151	< 0.01	< 10	< 10	2	< 10	4
RO-1-5-3362	217	238	< 1	0.05	8	250	8	5	1	204	< 0.01	< 10	< 10	8	< 10	18
RO-1-5-3370	217	238	< 1	0.04	8	170	6	< 5	1	134	< 0.01	< 10	< 10	5	30	14
RO-1-5-3380	217	238	1	0.04	17	270	8	< 5	2	167	< 0.01	< 10	< 10	11	20	36

CERTIFICATION : B. Caughlin