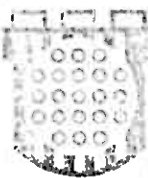


INSTITUTT FOR ATOMENERGI

Materialavdelingen / Kjemisk



Folldal Verk A/S
Attn.: Prospekteringssjef J.G. Heim
Sandakerveien 56
OSLO 4

DERES REF.

VÅR REF. AF/EBJ

2007 KJELLER, 19. desember 1977

ANALYSERAPPORT

Vedrørende: Atomabsorpsjonsspektrometrisk bestemmelse av Ni bundet som nikkelsulfid, løst ved hjelp av mettet Br₂-vann, i 630 bergartsprøver

250 mg prøve ble løst i 25 ml mettet Br₂-vann på et kokende vannbad i 15 minutter, deretter ble overskuddet av Br₂ drevet av. Prøven ble til slutt fortynnet opp til 100 ml med dest. H₂O. Løsningen ble innen en time filtrert gjennom et hvittbåndsfiler.

Resultatene er omregnet til opprinnelig prøve.

A. Follo
Avdelingsingeniør

Vedlegg

Prøve mrk.	L.nr.	ppm Ni
Koord 1/190 Pr 3320	60298	25
1/195 " 3321	60299	100
1/215 " 3321	60300	240
1/200 " 3322	60301	50
1/205 " 3323	60302	635
1/240 " 3325	60303	< 25
1/295 " 3327	60304	< 25
1/300 " 3328	60305	< 25
1/305 " 3329	60306	< 25
1/315 " 3330	60307	25
1/320 " 3331	60308	25
1/330 " 3332	60309	90
1/335 " 3333	60310	65
1/355 " 3335	60311	38
1/360 " 3336	60312	75
1/365 " 3337	60313	< 25
1/380 " 3338	60314	< 25
1/385 " 3339	60315	< 25
1/390 " 3340	60316	< 25
1/395 " 3341	60317	< 25
1/400 " 3342	60318	< 25
1/405 " 4443	60319	< 25
1/405 " 3343	60320	< 25
1/350 " 3344	60321	< 25
1/410 " 3344	60322	< 25
1/415 " 3345	60323	< 25
1/420 " 3346	60324	< 25
1/425 " 3347	60325	< 25
1/465 " 3348	60326	< 25
1/500 " 3349	60327	233
1/505 " 3350	60328	< 25
1/510 " 3351	60329	25
1/515 " 3352	60330	< 25
1/520 " 3353	60331	25
1/530 " 3354	60332	108

Prøve mrk.	L.nr.	ppm Ni
Koord 1/560 Pr 3355	60333	<25
1/565 " 3356	60334	185
1/590 " 3357	60335	25
3/10 " 3358	60336	<25
3/165 " 2539	60337	<25
3/170 " 2540	60338	<25
3/175 " 2541	60339	<25
3/180 " 2542	60340	<25
3/220 " 2543	60341	38
3/245 " 2544	60342	<25
3/280 " 2545	60343	500
3/285 " 2546	60344	38
3/290 " 2547	60345	50
3/300 " 2548	60346	<25
3/305 " 2549	60347	<25
3/310 " 2550	60348	25
3/345 " 2551	60349	<25
3/350 " 2552	60350	<25
3/355 " 2553	60351	<25
3/360 " 2554	60352	<25
3/365 " 2555	60353	<25
3/375 " 2556	60354	<25
3/380 " 2557	60355	<25
3/385 " 2558	60356	25
3/390 " 2559	60357	<25
3/395 " 2560	60358	<25
3/400 " 2561	60359	<25
3/420 " 2562	60360	<25
3/425 " 2563	60361	<25
3/440 " 2564	60362	25
5/485 " 2565	60363	<25
5/490 " 2566	60364	25
5/495 " 2567	60365	38
5/505 " 2568	60366	50
5/510 " 2569	60367	<25
5/510 " 2569	60368	<25

Prøve mrk.	L.nr.	ppm Ni
Koord 5/520 Pr 2570	60369	< 25
5/525 " 2571	60370	38
5/530 " 2572	60371	38
5/535 " ingen	60372	< 25
5/540 " 2573	60373	100
5/540 " 2573	60374	< 25
5/555 " 2574	60375	< 25
5/610 " 2575	60376	< 25
5/635 " 2576	60377	< 25
5/645 " 2578	60378	371
5/650 " 2579	60379	< 25
5/655 " 2580	60380	< 25
5/660 " 2581	60381	251
5/664 " 2585	60382	< 25
5/680 " 2583	60383	< 25
5/700 " 2584	60384	< 25
7/355 " 2585	60385	< 25
7/360 " 2586	60386	< 25
7/385 " 2587	60387	< 25
7/395 " 2588	60388	< 25
7/400 " 2589	60389	< 25
7/405 " 2590	60390	< 25
7/405 " 2591	60391	< 25
7/410 " 2592	60392	< 25
7/415 " 2593	60393	76
7/420 " 2594	60394	< 25
7/425 " 2595	60395	< 25
7/430 " 2596	60396	< 25
7/435 " 2597	60397	112
4/440 " 2598	60398	< 25
7/445 " 2599	60399	< 25
2/380 " 3037	60400	56
3/385 " 3038	60401	< 25
2/475 " 3039	60402	< 25
3/480 " 3040	60403	< 25
2/485 " 3041	60404	< 25

Prøve mrk.	L.nr.	ppm Ni
Koord 2/560 Pr 3042	60405	<25
4/0 " 3043	60406	<25
4/220 " 3044	60407	<25
4/225 " 3045	60408	98
4/230 " 3046	60409	<25
4/240 " 3047	60410	<25
4/245 " 3048	60411	<25
4/250 " 3049	60412	<25
4/255 " 3050	60413	<25
4/280 " 3051	60414	<25
4/285 " 3052	60415	<25
4/290 " 3053	60416	<25
4/295 " 3054	60417	<25
4/350 " 3055	60418	36
1/0 " 3301	60419	64
1/5 " 3302	60420	115
1/10 " 3303	60421	136
1/15 " 3304	60422	<25
1/115 " 3305	60423	<25
1/120 " 3306	60424	77
1/265 " 3306	60425	180
1/125 " 3307	60426	161
1/30 " 3308	60427	25
1/135 " 3309	60428	<25
1/140 " 3310	60429	<25
1/445 " 3311	60430	<25
1/150 " 3312	60431	25
1/155 " 3313	60432	63
1/160 " 3314	60433	<25
1/165 " 3315	60434	<25
1/170 " 3316	60435	138
1/175 " 3317	60436	<25
1/180 " 3318	60437	<25
6/10 " 2609	60438	25
6/300 " 2610	60439	119
6/305 " 2611	60440	<25

Prøve mrk.	L.nr.	ppm Ni
Koord 6/310 Pr 2612	60441	65
6/315 " 2613	60442	<25
6/320 " 2614	60443	<25
6/325 " 2615	60444	<25
6/330 " 2616	60445	<25
6/335 " 2617	60446	268
6/340 " 2618	60447	232
6/345 " 2618	60448	67
6/350 " 2619	60449	<25
6/365 " 2620	60450	<25
6/370 " 2621	60451	<25
6/375 " 2622	60452	<25
6/380 " 2624	60453	<25
6/385 " 2624	60454	<25
6/390 " 2625	60455	<25
6/395 " 2626	60456	25
6/415 " 2627	60457	<25
6/420 " 2628	60458	<25
6/430 " 2629	60459	<25
6/440 " 2630	60460	<25
3/570 " 2631	60461	<25
3/575 " 2632	60462	<25
3/580 " 2633	60463	<25
6/445 " 2634	60464	<25
6/450 " 2635	60465	<25
6/460 " 2636	60466	<25
6/665 " 2637	60467	25
6/470 " 2638	60468	37
6/475 " 2639	60469	<25
6/480 " 2640	60470	<25
6/500 " 2641	60471	<25
6/505 " 2642	60472	<25
6/510 " 2643	60473	<25
6/515 " 2644	60474	<25
6/520 " 2645	60475	<25
6/525 " 2646	60476	<25

Prøve mrk.	L.nr.	ppm Ni
Koord 6/530 Pr 2647	60477	25
6/535 " 2648	60478	<25
6/540 " 2649	60479	<25
6/4 " 2650	60480	<25
6/550 " 2651	60481	<25
6/560 " 2652	60482	<25
5/260 " 2653	60483	<25
5/265 " 2654	60484	<25
5/270 " 2655	60485	<25
5/280 " 2656	60486	<25
5/285 " 2657	60487	<25
5/290 " 2658	60488	46
5/295 " 2659	60489	40
5/300 " 2660	60490	186
5/305 " 2661	60491	<25
5/310 " 2662	60492	<25
5/315 " 2663	60493	<25
5/320 " 2664	60494	<25
5/325 " 2665	60495	<25
5/330 " 2666	60496	<25
5/335 " 2667	60497	85
5/340 " 2668	20498	<25
5/365 " 2669	60499	34
5/410 " 2670	60500	<25
5/415 " 2671	60501	42
5/420 " 2672	60502	<25
5/455 " 2674	60503	<25
5/460 " 2675	60504	128
5/470 " 2676	60505	139
5/465 " 2677	60506	<25
7/450 " 2678	60507	<25
7/455 " 2679	60508	<25
7/485 " 2680	60509	<25
7/490 " 2681	60510	<25
7/495 " 2682	60511	<25
7/500 " 2683	60512	<25

Prøve mrk.	L.nr.	ppm Ni
Koord 7/505 Pr 2684	60513	<25
7/510 " 2685	60514	<25
7/515 " 2686	60515	<25
7/520 " 2687	60516	<25
7/530 " 2688	60517	<25
7/535 " 2689	60518	<25
7/540 " 2690	60519	<25
7/545 " 2691	60520	<25
7/550 " 2692	60521	<25
7/555 " 2693	60522	<25
7/560 " 2694	60523	<25
7/565 " 2695	60524	<25
7/570 " 2696	60525	<25
7/575 " 2697	60526	36
7/635 " 269	60527	<25
7/640 " 269	60528	<25
7/660 " 2800	60529	<25
7/665 " 2801	60530	<25
7/670 " 2802	60531	<25
8/25 " 2800	60532	<25
8/35 " 2801	60533	<25
8/40 " 2802	60534	<25
8/45 " 2803	60535	<25
8/215 " 2804	60636	<25
8/220 " 2805	60637	<25
8/225 " 2806	60538	<25
8/230 " 2807	60539	<25
8/235 " 2809	60540	<25
8/240 " 2810	60541	<25
8/245 " 2810	60542	<25
8/250 " 2811	60543	<25
8/260 " 2812	60544	<25
8/265 " 2813	60545	<25
8/270 " 2814	60546	<25
8/275 " 2815	60547	<25
8/280 " 2816	60548	<25

Prøve mrk.	L.nr.	ppm Ni
Koord 8/285 Pr 2817	60549	<25
8/290 " 2818	60550	<25
8/295 " 2819	60551	<25
8/300 " 2820	60552	<25
8/305 " 2821	60553	<25
8/310 " 2822	60554	<25
8/315 " 2823	60555	<25
8/320 " 2824	60556	<25
8/325 " 2825	60557	<25
8/330 " 2826	60558	<25
8/335 " 2827	60559	<25
8/340 " 2828	60560	<25
8/345 " 2829	60561	<25
8/355 " 2830	60562	<25
8/380 " 2831	60563	<25
8/390 " 2832	60564	<25
20:100" 25	60565	<25
20:95 " 26	60566	150
20:90 " 27	60567	<25
20:85 " 28	60568	<25
20:80 " 29	60569	<25
20:75 " 30	60570	<25
20:70 " 31	60571	<25
20:65 " 32	60572	<25
20:60 " 33	60573	<25
20:55 " 34	60574	<25
20:50 " 35	60575	633
20:45 " 36	60576	<25
20:40 " 37	60577	<25
Rødfjell-HØ 78/77	60578	<25
" 80/77	60679	<25
Koord 9/0 Pr 2803	60580	<25
9/5 " 2804	60581	<25
9/10" 2805	60582	<25
9/15" 2806	60583	<25
9/20" 2807	60584	<25

Prøve mrk.			L.nr.	ppm Ni
Koord	9/30	Pr 2808	60585	<25
	9/40	" 2808	60586	<25
		2833	60587	<25
	9/55	" 2834	60588	<25
	9/130	" 2835	60589	<25
	9/140	" 2836	60590	<25
	9/170	" 2837	60591	<25
	9/175	" 2838	60592	<25
	9/180	" 2839	60593	<25
	9/185	" 2840	60594	<25
	9/190	" 2841	60595	<25
	9/195	" 2842	60596	<25
	9/200	" 2843	60597	<25
	9/270	" 2844	60598	<25
	9/295	" 2845	60599	<25
	10/0	" 2846	60600	<25
	10/10	" 2847	60601	<25
	10/15	" 2848	60602	32
	10/20	" 2849	60603	<25
	10/25	" 2850	60604	37
	10/30	" 2851	60605	<25
	10/35	" 2852	60606	<25
	10/40	" 2853	60607	<25
	10/45	" 2854	60608	<25
	10/65	" 2856	60609	<25
	10/70	" 2857	60610	<25
	10/75	" 2858	60611	<25
	10/90	" 2859	60612	<25
	10/95	" 2860	60613	35
	10/100	" 2861	60614	<25
	10/105	" 2862	60615	<25
	10/50	" 2863	60616	<25
	10/120	" 2864	60617	<25
	10/125	" 2865	60618	<25
	10/130	" 2866	60619	<25
	10/135	" 2867	60620	<25

Prøve mrk.	L.nr.	ppm Ni
Koord 10/190 Pr 2868	60621	<25
10/200 " 2869	60622	<25
10/205 " 2870	60623	<25
10/110 " 2871	60624	<25
10/110	60625	<25
10/215 " 2872	60626	<25
10/220 " 2873	60627	<25
11/0 " 2874	60628	<25
11/5 " 2875	60629	<25
11/15 " 2876	60630	<25
11/20 " 2877	60631	<25
11/25 " 2878	60632	35
11/30 " 2879	60633	<25
11/40 " 2880	60634	<25
11/45 " 2881	60635	<25
11/50 " 2882	60636	<25
11/55 " 2883	60637	<25
11/60 " 2884	60638	<25
11/70 " 2885	60639	<25
11/75 " 2886	60640	<25
11/80 " 2887	60641	<25
12/0 " 2888	60642	<25
12/5 " 2889	60643	<25
12/10 " 2890	60644	<25
12/15 " 2891	60645	<25
12/20 " 2892	60646	<25
12/30 " 2893	60647	<25
12/35 " 2894	60648	<25
12/40 " 2895	60649	<25
12/45 " 2896	60650	<25
12/50 " 2897	60651	<25
13/0 " 2898	60652	52
13/120 " 2899	60653	<25
13/125 " 2900	60654	<25
13/280 " 2901	60655	<25
13/285 " 2902	60656	<25

Prøve mrk.	L.nr.	ppm Ni
Koord 13/290 Pr 2903	60657	<25
13/295 " 2904	60658	38
13/300 " 2905	60659	48
13/305 " 2906	60660	85
13/310 " 2907	60661	236
13/315 " 2908	60662	<25
13/320 " 2909	60663	<25
13/325 " 2910	60664	106
13/330 " 2911	60665	63
13/335 " 2912	60666	<25
13/345 " 2913	60667	<25
13/350 " 2914	60668	<25
13/365 " 2915	60669	<25
13/370 " 2916	60670	<25
13/375 " 2917	60671	50
14/0 " 2918	60672	<25
14/5 " 2919	60673	91
14/10 " 2920	60674	40
14/15 " 2921	60675	332
14/50 " 2922	60676	221
14/55 " 2923	60677	186
14/95 " 2924	60678	<25
14/105 " 2925	60679	136
14/110 " 2926	60680	75
14/115 " 2927	60681	150
14/120 " 2928	60682	<25
14/125 " 2929	60683	728
14/130 " 2930	60684	46
14/135 " 2931	60685	221
14/140 " 2932	60686	26
14/145 " 2933	60687	41
14/150 " 2934	60688	30
14/155 " 2935	60689	37
14/160 " 2936	60690	63
14/165 " 2937	60691	<25
14/170 " 2938	60692	<25

Prøve mrk.	L.nr.	ppm Ni
Koord 14/340 Pr 2939	60693	506
14/345 " 2940	60694	<25
14/360 " 2941	60695	44
14/370 " 2942	60696	25
14/375 " 2943	60697	25
14/380 " 2944	60698	175
14/385 " 2945	60699	33
14/395 " 2946	60700	169
14/400 " 2947	60701	403
14/415 " 2947	60702	93
14/420 " 2948	60703	26
15/45 " 2950	60704	<25
15/65 " 2951	60705	<25
15/70 " 2952	60706	<25
15/75 " 2953	60707	<25
15/80 " 2954	60708	<25
15/105 " 2955	60709	365
15/110 " 2956	60710	<25
15/220 " 2957	60711	<25
15/240 " 2958	60712	<25
15/245 " 2959	60713	45
15/250 " 2960	60714	42
15/260 " 2961	60715	<25
15/265 " 2962	60716	190
15/295 " 2963	60717	39
15/300 " 2964	60718	<25
15/305 " 2965	60719	130
15/310 " 2966	60720	444
15/315 " 2967	60721	119
15/320 " 2968	60722	259
15/325 " 2969	60723	93
15/330 " 2970	60724	59
15/335 " 2971	60725	<25
16/0 " 2974	60726	100
16/20 " 2975	60727	<25
16/40 " 2976	60728	50

Prøve mrk.	L.nr.	ppm Ni
Koord 16/45 Pr 2977	60729	<25
16/50 " 2978	60730	<25
16/55 " 2979	60731	35
16/60 " 2980	60732	<25
16/65 " 2981	60733	53
16/70 " 2982	60734	<25
16/75 " 2983	60735	<25
16/80 " 2984	60736	<25
16/85 " 2985	60737	<25
16/90 " 2986	60738	<25
16/105" 2987	60739	222
16/120" 2988	60740	99
16/160" 2989	60741	47
16/165" 2990	60742	94
2/0 " 3000	60743	50
2/15 " 3001	60744	93
2/20 " 3002	60745	159
2/25 " 3003	60746	132
2/30 " 3004	60747	35
2/35 " 3005	60748	102
2/40 " 3006	60749	40
2/45 " 3007	60750	262
2/50 " 3008	60751	<25
2/55 " 3008	60752	303
2/85 " 3009	60753	<25
2/215 " 3010	60754	32
2/235 " 3012	60755	<25
2/240 " 3013	60756	91
2/245 " 3014	60757	89
2/250 " 3015	60758	124
2/255 " 3016	60759	<25
2/265 " 3017	60760	81
2/270 " 3018	60761	30
2/285 " 3019	60762	<25
2/290 " 3020	60763	60
2/295 " 3021	60764	<25

Prøve mrk.	L.nr.	ppm Ni
Koord 2/300 Pr 3022	60765	84
2/305 " 3023	60766	119
2/310 " 3024	60767	65
2/315 " 3025	60768	99
2/320 " 3026	60769	200
2/325 " 3027	60770	30
2/335 " 3028	60771	62
2/340 " 3029	60772	137
2/340 " 3030	60773	<25
2/350 " 3031	60774	99
2/355 " 3032	60775	30
2/360 " 3033	60776	65
2/365 " 3034	60777	119
2/370 " 3035	60778	94
2/375 " 3036	60779	290
18:215" 2991	60780	<25
18:210" 2992	60781	<25
18:205" 2993	60782	<25
12:200" 2994	60783	<25
18:195" 2995	60784	<25
18:190" 2996	60785	26
18:185" 2997	60786	<25
18:180" 2998	60787	<25
18:170" 2999	60788	<25
18:110" 3056	60789	35
18:105" 3057	60790	84
18:100" 3058	60791	229
18:95 " 3059	60792	152
18:90 " 3060	60793	69
18:85 " 3061	60794	57
18:80 " 3062	60795	105
18:75 " 3063	60796	120
18:70 " 3064	60797	113
18:65 " 3065	60798	234
18:60 " 3066	60799	166
18:55 " 3067	60800	94

Prøve mrk.	L.nr.	ppm Ni
Koord 18:50 Pr 3068	60801	51
18:0 " 3069	60802	121
E 1- ÷5	60803	282
1- ÷10	60804	148
1- ÷20	60805	337
1- ÷25	60806	148
1- ÷30	60807	113
1- ÷35	60808	312
1- ÷50	60809	96
1- ÷55	60810	65
1- ÷60	60811	159
1-20	60812	<25
1-25	60813	29
1-30	68814	<25
1-35	60815	32
1-40	60816	<25
1-45	60817	<25
1-50	60818	406
1-210	60819	469
1-225	60820	106
1-230	60821	111
1-235	60822	<25
1-250	60823	32
1-255	60824	29
1-260	60825	143
1-270	60826	59
1-275	60827	132
1-280	60828	192
1-285	60829	891
1-290	60830	141
1-430	60831	<25
1-435	60832	<25
1-450	60833	<25
1-455	60834	<25
1-460	60835	<25

Prøve mrk.	L.nr.	ppm Ni
E 1-470	60836	31
1-475	60837	<25
1-480	60838	916
1-485	60839	201
1-490	60840	<25
1-495	60841	69
14-20	60842	<25
14-25	60843	36
14-30	60844	986
14-40	60845	153
14-45	60846	100
14-60	60847	49
14-65	60848	90
14-70	60849	<25
14-90	60850	124
14-100	60851	199
14-175	60852	<25
14-180	60853	<25
14-185	60854	<25
14-195	60855	<25
14-240	60856	<25
14-245	60857	95
14-250	60858	28
14-255	60859	<25
14-260	60860	290
14-265	60861	<25
14-270	60862	<25
14-275	60863	<25
14-280	60864	<25
14-285	60865	<25
14-290	60866	<25
14-295	60867	<25
14-300	60868	129
14-305	60869	40
14-310	60870	<25
14-315	60871	<25

Prøve mrk.		L.nr.	ppm Ni
E	14-320	60872	235
	14-325	60873	<25
	14-330	60874	329
	14-335	60875	60
	14-355	60876	407
	14-360	60877	42
	14-365	60878	142
	14-410	60879	105
	14-405	60880	<25
	14-425	60881	109
	14-430	60882	29
	14-435	60883	184
	14-440	60884	640
	14-445	60885	<25
	14-450	60886	396
	14-455	60887	<25
	14-460	60888	<25
	14-465	60889	<25
	14-475	60890	<25
	14-480	60891	31
	14-485	60892	<25
	14-490	60893	<25
	14-580	60894	<25
	14-590	60895	<25
	14-595	60896	<25
	14-600	60897	<25
	14-605	60898	<25
	14-610	60899	<25
	14-615	60900	<25
	14-620	60901	<25
	14-625	60902	<25
	14-640	60903	<25
	19:45 nr. 1	60904	91
	19:50 2	60905	199
	19:55 3	60906	183
	19:60 4	60907	184

Prøve mrk.	L.nr.	ppm Ni
19:65 nr. 5	60908	256
19:70 6	60909	90
19:75 7	60910	48
19:80 8	60911	<25
19:85 9	60912	83
19:90 10	60913	100
19:95 11	60914	320
19:100 12	60915	<25
19:105 13	60916	248
19:110 14	60917	295
19:115 15	60918	46
19:120 16	60919	<25
19:125 17	60920	50
19:130 18	60921	55
19:135 19	60922	26
19:140 20	60923	35
19:145 21	60924	31
19:150 22	60925	65
19:155 23	60926	41
19:160 24	60927	100