



Bergvesenet

Postboks 3021, 7002 Trondheim

Rapportarkivet

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Kommer fra ..arkiv	Ekstern rapport nr	Oversendt fra	Fortrolig pga	Fortrolig fra dato:
Tittel Mineral inventory Vakkerlien				
Forfatter		Dato 1976	Bedrift Falconbridge A/S	
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Fagområde	Dokument type	Forekomster		
Råstofftype Malm/metall	Emneord			
Sammendrag				

FALCONBRIDGE NICKEL MINES LIMITED

DATE: June 18, 1976

TO: J. B. Gammon

COPIES TO: LCK/AMC, GC, WDH

FROM: L. A. Wrigglesworth

SUBJECT: VAKKERLEIN - NORWAY

INTER-OFFICE MEMORANDUM

DES.	ARK.
06 07 76	
PROD. SJEF	
EL. LYSEAVE	
M. L. AVG.	
R. & S.M. AVG.	
EL. TEND. AVG.	
INSTR. AVG.	
MEK. AVG.	
PRG. AVG.	
SAKSBEAR.	Start date

I have finally reviewed your Vakkerlein mineral inventory estimates and make the following comments.

MINERAL INVENTORY

My undiluted Mineral Inventory calculations gave similar results to your work as below:

	<u>Tons</u>	<u>% Ni</u>	<u>% Cu</u>
Ore	159,546	1.84	0.64
Sub Ore	220,261	0.52	0.20
Totals	379,807	1.08	0.39

Parameters used were:

Cut-off Grades - Underground ore: 0.80% Ni (G. Charlap)
 Underground sub ore: 0.40 - 0.79% Ni
 Open Pit ore: 0.70% Ni (G. Charlap)
 Open Pit sub ore: 0.40 - 0.69% Ni

Tonnage Factor - 3.17 tonnes per cubic metre

Minimum Width - 1.0 metre

Charlap proposed to mine the deposit by open pit between sections 525S and 125S and underground from 525S to 1350S. This divides the Mineral Inventory as below:

	<u>Tons</u>	<u>% Ni</u>	<u>% Cu</u>
Underground Ore	116,174	2.01	0.72
Underground Sub Ore	168,469	0.53	0.21
Total Underground	284,643	1.13	0.42
Open Pit Ore	43,372	1.37	0.425
Open Pit Sub Ore	51,792	0.51	0.17
Total Open Pit	95,164	0.90	0.285

Details of my Mineral Inventory estimates are appended as Table I.

POTENTIALLY MINEABLE ORE

The most optimistic figure for potentially mineable ore (undiluted) is:

	<u>Tons</u>	<u>% Ni</u>	<u>% Cu</u>
Underground	134,892	1.76	0.65
Open Pit	<u>95,164</u>	<u>0.90</u>	<u>0.285</u>
Total	230,056	1.40	0.50

Parameters used were:

Open Pit - Cut-off grade 0.40% Ni
Minimum width 1.0 metres

Underground - Cut-off grade 0.80% Ni
Minimum width 3.0 metres

Details of this estimate are appended as Table II.

George Charlap will put mining limits on my ore outlines and a mineable reserve will be calculated with dilution added.

COMMENTS ON REPORT

The following suggestions are presented for your consideration in compiling future reports.

Assay Sheets - A sample sheet showing the sample number, location, length and assay results of each sample taken is an essential part of every drill log. These sheets are not just records, but are necessary for recalculating average grades at different cut-off grades or for breaking the ore into units (e.g. benches in an open pit). With your present records, it was necessary to use the cross-sections. This can lead to errors as the length of each sample must be measured and some of the prints were of poor quality.

An assay sheet from one of our NBU (Sturgeon Lake) drill logs is attached as an example.

Drill Log Heading - Two items could be added to your log heading; namely, collar elevation and depth of hole. I note that on several logs (e.g. 68) the Bearing and Dips have been recorded in reverse.

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9/89

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In order to look at the present sections in proper sequence you should start with 1300S and progress to 150S (this is the reason for the apparent reverse order of my calculations shown in Tables I and II). When you are setting up cross-sections, always think of them as making up a three dimensional see through model and number them accordingly.

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Ore Outlines - In any ore calculation, you should always include a copy of the ore outlines that you used. In making the check of the Vakkerlein Mineral Inventory, I have had to make my own interpretation which may not coincide with yours.

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L. A. Wrigglesworth

LAW:ols

TABLE I

VAKKERLEIN - NORWAY

MINERAL INVENTORY ESTIMATES

June 9, 1976 LAW

Section	Ore			Sub-Ore			Total Inventory		
	Tons	% Ni	% Cu	Tons	% Ni	% Cu	Tons	% Ni	% Cu
1300S	9,986	1.265	0.545	10,144	0.43	0.16	20,130	0.84	0.35
1250S	6,499	1.12	0.64	8,481	0.62	0.35	14,980	0.84	0.48
1200S	13,314	2.01	0.35	3,994	0.48	0.08	17,308	1.66	0.29
1150S	12,363	1.31	0.48	16,644	0.59	0.23	29,007	0.90	0.34
1050S	14,485	4.86	1.65	36,199	0.51	0.29	50,684	1.75	0.68
950S	9,320	1.00	0.56	26,058	0.52	0.36	35,378	0.65	0.41
850S	3,329	1.68	0.74	13,880	0.50	0.07	17,209	0.73	0.20
750S	6,657	1.25	0.185	10,984	0.58	0.08	17,641	0.83	0.12
650S	19,173	1.85	0.685	26,361	0.52	0.13	45,534	1.08	0.36
550S	21,048	1.99	0.84	15,724	0.53	0.13	36,772	1.37	0.54
TOTALS									
UNDERGROUND	116,174	2.013	0.722	168,469	0.527	0.213	284,643	1.134	0.421
500S	5,405	1.71	0.735	15,133	0.48	0.22	20,538	0.80	0.36
450S	7,243	1.17	0.36	7,228	0.59	0.13	14,471	0.88	0.245
400S	7,760	1.61	0.775	13,542	0.49	0.15	21,302	0.90	0.38
350S	7,456	1.68	0.35	7,611	0.54	0.14	15,067	1.10	0.24
300S	8,341	1.00	0.21	6,067	0.52	0.12	14,408	0.80	0.17
250S	1,141	2.00	0.29	2,211	0.53	0.27	3,352	1.03	0.28
200S	4,565	0.985	0.175	-	-	-	4,565	0.985	0.175
150S	1,461	1.09	0.25	-	-	-	1,461	1.09	0.25
TOTALS									
OPEN PIT	43,372	1.371	0.425	51,792	0.514	0.168	95,164	0.903	0.285
TOTALS	159,546	1.838	0.641	220,261	0.524	0.202	379,807	1.076	0.387

TABLE II

VAKKERLEIN - NORWAY

MINEABLE ORE RESERVE ESTIMATES

June 9, 1976 LAW

Section	Ore			Sub-Ore			Total Inventory		
	Tons	% Ni	% Cu	Tons	% Ni	% Cu	Tons	% Ni	% Cu
1300S	14,978	0.87	0.38	15,216	0.35	0.12	30,194	0.61	0.25
1250S	13,236	0.88	0.50	1,744	0.53	0.25	14,980	0.80	0.48
1200S	13,314	2.01	0.35	3,994	0.48	0.08	17,308	1.66	0.29
1150S	9,986	1.39	0.34	20,447	0.59	0.31	30,433	0.85	0.32
1050S	20,267	3.66	1.37	17,587	0.52	0.31	37,854	2.20	0.88
950S	9,510	0.94	0.79	29,100	0.49	0.22	38,610	0.60	0.36
850S	-	-	-	20,171	0.61	0.19	20,171	0.61	0.19
750S	12,981	0.98	0.15	-	-	-	12,981	0.98	0.15
650S	19,572	1.73	0.65	19,971	0.64	0.15	39,543	1.18	0.40
500S	21,048	1.99	0.84	5,783	0.61	0.34	26,831	1.69	0.73
TOTALS									
UNDERGROUND	134,892	1.756	0.652	134,013	0.539	0.221	268,905	1.149	0.438
500S	5,405	1.71	0.735	15,133	0.48	0.22	20,538	0.80	0.36
450S	7,243	1.17	0.36	7,228	0.59	0.13	14,471	0.88	0.245
400S	7,760	1.61	0.775	13,542	0.49	0.15	21,302	0.90	0.38
350S	7,456	1.68	0.35	7,611	0.54	0.14	15,607	1.10	0.24
300S	8,341	1.00	0.21	6,067	0.52	0.12	14,408	0.80	0.17
250S	1,141	2.00	0.29	2,211	0.53	0.27	3,352	1.03	0.28
200S	4,565	0.985	0.175	-	-	-	4,565	0.985	0.175
150S	1,461	1.09	0.25	-	-	-	1,461	1.09	0.25
TOTALS									
OPEN PIT	43,372	1.371	0.425	51,792	0.514	0.168	95,164	0.903	0.285
TOTALS	178,264	1.662	0.597	185,805	0.532	0.206	364,069	1.085	0.398

SAMPLE RECORD

PROPERTY NEW BRUNSWICK URANIUM OPTION

HOLE No. NBU-35-71 SHEET No. 1 of 2

SAMPLE No.	FROM	TO	LENGTH	ASSAYS				Au	ROCK TYPE & MINERALIZATION
				Cu	Zn	Pb	Ag		
5194	221.0	225.0	4.0	4.03	7.72	0.11	2.65	0.02	Massive sulphides ↓
5195	225.0	230.0	5.0	3.70	8.63	0.10	2.63	0.02	"
5196	230.0	235.0	5.0	3.47	2.53	0.36	3.62	0.02	"
5197	235.0	240.0	5.0	3.44	7.71	1.62	5.51	0.03	"
5198	240.0	245.0	5.0	0.64	9.85	1.96	6.29	0.03	"
5199	245.0	250.0	5.0	0.34	11.94	1.49	1.76	0.01	"
5200	250.0	255.0	5.0	0.53	28.79	2.58	6.90	0.02	"
5201	255.0	260.0	5.0	1.45	35.67	3.49	21.65	0.05	"
5202	260.0	265.0	5.0	6.46	30.44	3.30	11.07	0.03	"
5203	265.0	270.0	5.0	1.06	19.82	5.29	11.40	0.02	"
5204	270.0	275.0	5.0	0.76	26.14	10.33	15.23	0.04	"
5205	275.0	280.0	5.0	2.85	29.14	7.33	34.24	0.10	"
5206	280.0	285.0	5.0	0.34	18.78	1.96	5.05	0.02	"
5207	285.0	290.0	5.0	0.65	19.63	0.33	1.57	0.005	"
5208	290.0	295.0	5.0	1.90	24.74	0.73	15.35	0.04	"
5209	295.0	300.0	5.0	4.12	23.50	3.23	46.53	0.12	"
5210	300.0	305.0	5.0	0.90	27.58	8.50	38.29	0.12	"
5211	305.0	310.0	5.0	1.93	19.61	5.16	25.73	0.07	"
5212	310.0	315.0	5.0	2.36	21.40	4.40	16.14	0.06	"
5213	315.0	320.0	5.0	0.47	26.28	3.86	12.50	0.04	"
5214	320.0	325.0	5.0	0.73	26.93	3.52	10.44	0.04	"
5215	325.0	330.0	5.0	1.02	14.03	2.75	7.13	0.025	"
5216	330.0	335.0	5.0	1.40	18.92	1.57	4.18	0.06	"
5217	335.0	340.0	5.0	2.15	9.89	3.60	17.61	0.16	"
5218	340.0	345.0	5.0	2.25	29.60	5.57	15.11	0.05	"
5219	345.0	350.0	5.0	3.04	28.77	1.50	4.32	0.06	"
5220	350.0	355.0	5.0	4.88	25.18	1.82	9.28	0.04	"
5221	355.0	360.0	5.0	3.31	16.28	3.21	7.14	0.03	"
5222	360.0	365.0	5.0	2.15	16.73	3.37	7.20	0.01	"
5223	365.0	370.0	5.0	3.87	12.97	0.87	5.11	0.02	"
5224	370.0	375.0	5.0	2.52	17.42	2.00	10.75	0.04	"
5225	375.0	380.0	5.0	2.41	11.60	2.56	4.90	0.02	"
5226	380.0	385.0	5.0	2.22	26.90	0.48	4.14	0.03	"
5227	385.0	390.0	5.0	0.46	37.06	0.38	3.66	0.04	"
5228	390.0	395.0	5.0	4.93	17.52	2.37	5.40	0.01	"
5229	395.0	400.0	5.0	6.23	5.27	1.73	10.68	0.02	"
5230	400.0	405.0	5.0	0.89	14.98	2.91	9.21	0.01	"

F. CONBRIDGE NICKEL MINES L. J.

SAMPLE RECORD

NDU-35-71

2 of 2

NEW BRUNSWICK URANIUM OPTION

HOLE No. SHEET No.

PROPERTY

SAMPLE No.	FROM	TO	LENGTH	ASSAYS				Au	ROCK TYPE & MINERALIZATION
				Cu	Zn	Pb	Ag		
5231	405.0	410.0	5.0	1.82	7.69	2.50	3.22	0.02	Massive sulphides
5232	410.0	415.0	5.0	0.83	18.24	4.60	6.90	0.01	"
5233	415.0	420.0	5.0	1.61	26.68	5.28	8.33	0.02	"
5234	420.0	425.0	5.0	2.88	32.07	9.72	14.16	0.02	"
5235	425.0	430.0	5.0	0.44	32.28	5.26	8.20	0.02	"
5236	430.0	435.0	5.0	1.00	35.69	2.76	5.99	0.02	"
5237	435.0	440.0	5.0	0.32	26.93	2.91	5.90	0.01	"
5238	440.0	445.0	5.0	0.59	8.36	1.26	2.60	0.005	" & bleached fragment
5239	445.0	447.5	2.5	0.56	7.77	0.24	2.83	0.01	Massive sulphides
5240	447.5	450.0	2.5	1.12	3.12	0.07	1.20	0.01	Bleached acid fragmental
5241	450.0	455.0	5.0	0.85	1.43	0.07	1.39	0.005	"
5242	455.0	460.0	5.0	3.56	2.74	0.04	2.18	0.035	"
5243	460.0	465.0	5.0	2.68	1.97	0.04	2.19	0.015	"
5244	465.0	470.0	5.0	0.98	1.54	0.59	1.73	0.005	Intense chlorite alteration
5245	470.0	475.0	5.0	0.13	3.00	0.07	0.10	0.005	"
5246	475.0	480.0	5.0	0.10	0.24	0.03	0.08	nil	"
5247	480.0	485.0	5.0	0.53	0.50	0.04	0.21	nil	Fragmental
5248	485.0	487.0	2.0	0.16	0.54	0.14	0.19	nil	Bleached acid fragmental
5249	487.0	490.0	3.0	0.02	0.07	0.03	0.05	nil	"
5250	490.0	495.0	5.0	none	0.04	0.01	0.03	nil	"
5251	495.0	500.0	5.0	0.02	0.13	0.02	0.04	nil	Fragmental
	221.0	450.0	229.0	2.08	20.13	3.08	10.42	0.036	
	450.0	475.0	25.0	1.64	2.14	0.16	1.52	0.013	
	475.0	487.0	12.0	0.29	0.40	0.05	0.15	nil	
	221.0	475.0	254.0	2.04	18.36	2.79	9.54	0.034	
	221.0	487.0	266.0						

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RT, E.W.

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1969

also see letter 11/11

pls add

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1050S	14,485	4.86	1.65	36,199	0.51	0.29	50,684	1.75	0.68
950S	9,320	1.00	0.56	26,058	0.52	0.36	35,378	0.65	0.41
850S	3,329	1.68	0.74	13,880	0.50	0.07	17,209	0.73	0.20
750S	6,657	1.25	0.185	10,984	0.58	0.08	17,641	0.83	0.12
650S	19,173	1.85	0.685	26,361	0.52	0.13	45,534	1.08	0.36
550S	21,048	1.99	0.84	15,724	0.53	0.13	36,772	1.37	0.54
TOTALS									
UNDERGROUND	116,174	2.013	0.722	168,469	0.527	0.213	284,643	1.134	0.421
500S	5,405	1.71	0.735	15,133	0.48	0.22	20,538	0.80	0.36
450S	7,243	1.17	0.36	7,228	0.59	0.13	14,471	0.88	0.245
400S	7,760	1.61	0.775	13,542	0.49	0.15	21,302	0.90	0.38
350S	7,456	1.68	0.35	7,611	0.54	0.14	15,067	1.10	0.24
300S	8,341	1.00	0.21	6,067	0.52	0.12	14,408	0.80	0.17
250S	1,141	2.00	0.29	2,211	0.53	0.27	3,352	1.03	0.28
200S	4,565	0.985	0.175	-	-	-	4,565	0.985	0.175
150S	1,461	1.09	0.25	-	-	-	1,461	1.09	0.25
TOTALS									
OPEN PIT	43,372	1.371	0.425	51,792	0.514	0.168	95,164	0.903	0.285
TOTALS	159,546	1.838	0.641	220,261	0.524	0.202	379,807	1.076	0.387

TABLE II

VAKKERLEIN - NORWAY

MINEABLE ORE RESERVE ESTIMATES

June 9, 1976 LAW

Section	Ore			Sub-Ore			Total Inventory		
	Tons	% Ni	% Cu	Tons	% Ni	% Cu	Tons	% Ni	% Cu
1300S	14,978	0.87	0.38	15,216	0.35	0.12	30,194	0.61	0.25
1250S	13,236	0.88	0.50	1,744	0.53	0.25	14,980	0.80	0.48
1200S	13,314	2.01	0.35	3,994	0.48	0.08	17,308	1.66	0.29
1150S	9,986	1.39	0.34	20,447	0.59	0.31	30,433	0.85	0.32
1050S	20,267	3.66	1.37	17,587	0.52	0.31	37,854	2.20	0.88
950S	9,510	0.94	0.79	29,100	0.49	0.22	38,610	0.60	0.36
850S	-	-	-	20,171	0.61	0.19	20,171	0.61	0.19
750S	12,981	0.98	0.15	-	-	-	12,981	0.98	0.15
650S	19,572	1.73	0.65	19,971	0.64	0.15	39,543	1.18	0.40
500S	21,048	1.99	0.84	5,783	0.61	0.34	26,831	1.69	0.73
TOTALS									
UNDERGROUND	134,892	1.756	0.652	134,013	0.539	0.221	268,905	1.149	0.438
500S	5,405	1.71	0.735	15,133	0.48	0.22	20,538	0.80	0.36
450S	7,243	1.17	0.36	7,228	0.59	0.13	14,471	0.88	0.245
400S	7,760	1.61	0.775	13,542	0.49	0.15	21,302	0.90	0.38
350S	7,456	1.68	0.35	7,611	0.54	0.14	15,067	1.10	0.24
300S	8,341	1.00	0.21	6,067	0.52	0.12	14,408	0.80	0.17
250S	1,141	2.00	0.29	2,211	0.53	0.27	3,352	1.03	0.28
200S	4,565	0.985	0.175	-	-	-	4,565	0.985	0.175
150S	1,461	1.09	0.25	-	-	-	1,461	1.09	0.25
TOTALS									
OPEN PIT	43,372	1.371	0.425	51,792	0.514	0.168	95,164	0.903	0.285
TOTALS	178,264	1.662	0.597	185,805	0.532	0.206	364,069	1.085	0.398

SAMPLE RECORD

PROPERTY NEW BRUNSWICK URANIUM OPTION

HOLE No. NBU-3571 SHEET No. 1 of 2

SAMPLE No.	FROM	TO	LENGTH	ASSAYS				Au	ROCK TYPE & MINERALIZATION
				Cu	Zn	Pb	Ag		
5194	221.0	225.0	4.0	4.03	7.72	0.11	2.65	0.02	Massive sulphides ↓
5195	225.0	230.0	5.0	3.70	8.63	0.10	2.63	0.02	"
5196	230.0	235.0	5.0	3.47	2.53	0.36	3.62	0.02	"
5197	235.0	240.0	5.0	3.44	7.71	1.62	5.51	0.03	"
5198	240.0	245.0	5.0	0.64	9.85	1.96	6.29	0.03	"
5199	245.0	250.0	5.0	0.34	11.94	1.49	1.76	0.01	"
5200	250.0	255.0	5.0	0.53	28.79	2.58	6.90	0.02	"
5201	255.0	260.0	5.0	1.45	35.67	3.49	21.65	0.05	"
5202	260.0	265.0	5.0	6.46	30.44	3.30	11.07	0.03	"
5203	265.0	270.0	5.0	1.06	19.82	5.29	11.40	0.02	"
5204	270.0	275.0	5.0	0.76	26.14	10.33	15.23	0.04	"
5205	275.0	280.0	5.0	2.85	29.14	7.33	34.24	0.10	"
5206	280.0	285.0	5.0	0.34	18.78	1.96	5.05	0.02	"
5207	285.0	290.0	5.0	0.65	19.63	0.33	1.57	0.005	"
5208	290.0	295.0	5.0	1.90	24.74	0.73	15.35	0.04	"
5209	295.0	300.0	5.0	4.12	23.50	3.23	46.53	0.12	"
5210	300.0	305.0	5.0	0.90	27.58	8.50	38.29	0.12	"
5211	305.0	310.0	5.0	1.93	19.61	5.16	25.73	0.07	"
5212	310.0	315.0	5.0	2.36	21.40	4.40	16.14	0.06	"
5213	315.0	320.0	5.0	0.47	26.28	3.86	12.50	0.04	"
5214	320.0	325.0	5.0	0.73	26.93	3.52	10.44	0.04	"
5215	325.0	330.0	5.0	1.02	14.03	2.75	7.13	0.025	"
5216	330.0	335.0	5.0	1.40	18.92	1.57	4.18	0.06	"
5217	335.0	340.0	5.0	2.15	9.89	3.60	17.61	0.16	"
5218	340.0	345.0	5.0	2.25	29.60	5.57	15.11	0.05	"
5219	345.0	350.0	5.0	3.04	28.77	1.50	4.32	0.06	"
5220	350.0	355.0	5.0	4.88	25.18	1.82	9.28	0.04	"
5221	355.0	360.0	5.0	3.31	16.28	3.21	7.14	0.03	"
5222	360.0	365.0	5.0	2.15	16.73	3.37	7.20	0.01	"
5223	365.0	370.0	5.0	3.87	12.97	0.87	5.11	0.02	"
5224	370.0	375.0	5.0	2.52	17.42	2.00	10.75	0.04	"
5225	375.0	380.0	5.0	2.41	11.60	2.56	4.90	0.02	"
5226	380.0	385.0	5.0	2.22	26.90	0.48	4.14	0.03	"
5227	385.0	390.0	5.0	0.46	37.06	0.38	3.66	0.04	"
5228	390.0	395.0	5.0	4.93	17.52	2.37	5.40	0.01	"
5229	395.0	400.0	5.0	6.23	5.27	1.73	10.68	0.02	"
5230	400.0	405.0	5.0	0.89	14.98	2.91	9.21	0.01	"

F. JONBRIDGE NICKEL MINES L. J.

SAMPLE RECORD

NDU-35-71

2 of 2

NEW BRUNSWICK URANIUM OPTION

HOLE No. SHEET No.

PROPERTY

SAMPLE No.	FROM	TO	LENGTH	ASSAYS				Au	ROCK TYPE & MINERALIZATION
				Cu	Zn	Pb	Ag		
									Massive sulphides
5231	405.0	410.0	5.0	1.82	7.69	2.50	5.22	0.02	"
5232	410.0	415.0	5.0	0.83	8.24	4.60	6.90	0.01	"
5233	415.0	420.0	5.0	1.61	26.68	5.28	8.33	0.02	"
5234	420.0	425.0	5.0	2.88	32.07	9.72	4.16	0.02	"
5235	425.0	430.0	5.0	0.44	32.28	5.26	8.20	0.02	"
5236	430.0	435.0	5.0	1.00	35.69	2.76	5.99	0.02	"
5237	435.0	440.0	5.0	0.32	26.93	2.91	5.90	0.01	"
5238	440.0	445.0	5.0	0.59	8.36	1.26	2.60	0.005	" & bleached fragment
5239	445.0	447.5	2.5	0.56	7.77	0.24	2.83	0.01	Massive sulphides
5240	447.5	450.0	2.5	1.12	3.12	0.07	1.20	0.01	Bleached acid fragmental
5241	450.0	455.0	5.0	0.85	1.43	0.07	1.39	0.005	"
5242	455.0	460.0	5.0	3.56	2.74	0.04	2.18	0.035	"
5243	460.0	465.0	5.0	2.68	1.97	0.04	2.19	0.015	"
5244	465.0	470.0	5.0	0.98	1.54	0.59	1.73	0.005	Intense chlorite alteration
5245	470.0	475.0	5.0	0.13	3.00	0.07	0.10	0.005	"
5246	475.0	480.0	5.0	0.10	0.24	0.03	0.08	nil	"
5247	480.0	485.0	5.0	0.53	0.50	0.04	0.21	nil	Fragmental
5248	485.0	487.0	2.0	0.16	0.54	0.14	0.19	nil	Bleached acid fragmental
5249	487.0	490.0	3.0	0.02	0.07	0.03	0.05	nil	"
5250	490.0	495.0	5.0	none	0.04	0.01	0.03	nil	"
5251	495.0	500.0	5.0	0.02	0.13	0.02	0.04	nil	Fragmental
	221.0	450.0	229.0	2.08	20.13	3.08	10.42	0.036	
	450.0	475.0	25.0	1.64	2.14	0.16	1.52	0.013	
	475.0	487.0	12.0	0.29	0.40	0.05	0.15	nil	
	221.0	475.0	254.0	2.04	18.36	2.79	9.54	0.034	
	221.0	487.0	266.0						