RECEIVEM GT 24 -OCT 1 5 1985 $\int \int \int dx$ PETROLEUM RESOURCES DIVISION Summary Temp(°c) Remarks Date Depth (ft) Oct. 20/1980 27 Cement 25' BW Casine 21 87 22 Waterloss @ 117' 197 23 9,505 247(195) 24 Day off 25 Day off 26 Water loss@ 302' 367 (-) 27 28 547 (365) 12.272 697(-) Bridge Broken Major Water loss @655 29 817 (695) Some water loss @805.5 18.066 30 917 (815) 31 19.992 1027 (915) NOV. 1 21.827 Washed cuttings 1117 (1025) 24.104 2 3 1187(1117) 25.485 Cayley and esite: 1091.6-1099.7' Washed cuttings 4 1327 (1187) 26.733 1365(1327)29.411 Broken Thermistor 1417(-)1457(1417)Washed Cultings 31.039 - (1457) 31.787 8 End. * Bottom of hole for temperature measurement.

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MT. CAYLEY PROJECT

Introduction and Drilling :

23 October 1980

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P. T. McCullough arrived at the site at approximately 1:30 p.m Wednesday, 22 October 1980. Drilling had commenced on Monday, 20 October, 1980 and proceeded to a depth of 27 feet. Repairs were completed to a hydraulic hose on the dozer blade which had broken on 20 October. Following the repairs a site was cleared for P.T.M's trailer and the trailer was set up. A few hours of additional drilling were undertaken and drilling stopped at 97 feet. The BW casing had been cemented at 25 feet on 21 October 1980. Bedrock was encountered at 13 feet. Trevor Lewis arrived at 2:30 p.m and explained the use of the temperature probe.

PTM attempted to take temperautres, but in testing for open circuit, the circuit was found to be open. P.T. McCullough travelled to Squamish for supplies and to call Trevor Lewis. Trevor recommended that the readings be taken and to call him once again if there were problems. No temperatures were obtained.

Drilling :

The drilling proceeded very well. The rock is competent, but hard; the hole progressed from 97 ft. to 197 ft. Core recovery is close to 100%. The hole is losing water at 117 ft.

Geology :

The overburden contains pebbles and cobbles of dark grey vesicular andesite porphyry, green and white granodiorite, black and white foliated quartz diorite and grey dacite porphyry (possibly welded tuff). The bedrock is a foliated hornblende biotite quartz diorite with numerous xenoliths in various stages of assimilation and aligned parallel to the foliation. The rock contains few fractures and 2 runs yielded 10 foot pieces of core. The foliation is well developed and lies at 5° to 9° to the core axis. A few quartz veins containing biotite resulted from silification along fractures.

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Testing indicated that the circuit was still open; subsequent discussion with Trevor Lewis indicated that this was the proper condition for an open circuit test. This and adjustment of the voltage were conducted before commencing measurement on this day and on all subsequent days.

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Temperatures : Thermistor 5336

Depth	SC (1)	$T+SC(\Omega)$	Time	<u>T(n)</u>	Temp. (^o C)
50'	167.0	8993.0	6:43	8826.0	8.100
101'	166.5	8702.0	6:47	8535.5	8.879
150'	166.5	8609.0	7:03	8442.5	9.134
	n)165.5 orted as 197	8475.0 feet.	7:12	8309.5	9.505

Drilling :

Drill broke down at 247 feet; the crosshead bearing must be replaced.

Parts are in Merritt and the driller has not had any days off in more than 6 weeks, so he is going to Merritt and plans to return on Monday, 27 October 1980. The rods are stuck down the hole so no temperature can be obtained.

Geology :

Drilling is continuing in foliated hornblende biotite quartz diorite. Fractures are more common below 170 feet. These fractures are associated with varying amounts of limonite, epidote, chlorite, clay, pyrite and quartz as alteration minerals. The dip of the foliation has flattened so that it is at 12° to 30° to core axis.

P.T. McCullough arrived back in camp at 5:15 p.m. Began to set up radio, but stopped the process because of darkness. Drilling had been completed to 367 ft. It had begun that morning after repairs were completed to the drill. The drillers had arrived at camp on Sunday, 26 October 1980.

Visitors from Longyear were at the site earlier. Apparently this was the closest Longyear rig to Vancouver, hence the interest.

Drilling :

Circulation was lost at 302 feet. Drilling was completed to 367 feet.

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Temperatures	: Thermisto	or 5336 :				
Depth	SC(A)	<u>T+ SC(n</u>)	Time	<u>T(R)</u>	Temperature	(°C)
51'	165.5	9095.0	6:48	8929.5	7.830	
100'	165.0	8822.0	6:59	8657.0	8.020	
150'	165.0	8615.0	7:04	8450.0	9.113	
199'	164.5	8437.0	7:10	8272.5	9.611	
251'	164.5	8186.5	7:16	8022.0	10.331	•
300'	164.5	7916.0	7:20	7751.5	11.140	
349'	164.5	7576.5	7:25	7412.0	12.203	
365' (Bottom)	164.5	7555.0	7:30	7390.5	12.272	

The Bottom is reported as 367 feet.

Finished drilling at 5:45 p.m. at 547 feet.

P.T. McCullough completed setting up aerial; could not get out on telephone and only scrambled reception obtained on radio.

<u>Tempertaures</u> : Thermistor 5336 :

Depth	SC(A)	$T + SC(\Omega)$	Time	<u>T(2)</u>	Temperature
50'	164.5	9081	6:12	8916.5	7.864
101	164.5	8835	6:17	8670.5	8.514
150'	164.5	8630	6:23	8465.5	9.071
200'	164.5	8363	6:27	8198.5	9.820
250*	164.5	8101	6:32	7936.5	10.584
300'	164.5	Temperature Br	idge Broke	Down.	

P.T. McCullough travelled to Squamish and called J. Souther and T. Lewis for advice on the malfunction of the temperature bridge. J. Souther noted that the hole should be stopped until a bridge or other temperature measuring device is available.

P.T. McCullough left Squamish at 10:05 a.m to meet T. Lewis in Nanaimo. T. Lewis was not able to repair the bridge at Nanaimo, so both persons travelled to the Pacific Geoscience Centre in Victoria. While T. Lewis worked on a less accurate substitute for the bridge, another person from the centre attempted to repair it. Two loose wires were found and the bridge was repaired. P.T. McCullough returned to camp arriving at 11:00 p.m.

Drilling :

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The hole was completed to 697 feet. A major circulation loss occurred at 655 feet.

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<u>Temperatures</u> : Thermistor 5336 :

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Depth	<u>sc(ع)</u>	<u>T+ SC(n)</u>	Time	I(L)	Temperature (^O C)
51'	164.5	9096.0	6:26	8904.5	7.895
100'	164.5	8865.0	6:31	8700.5	8.433
151'	164.5	8672.5	6:37	8508.0	8.954
200	164.5	8489.0	6:41	8324.5	9.463
251'	165.0	8275.0	6:46	8110.0	10.075
300'	165.0	7975.0	6:50	7810.0	10.963
351'	165.0	7744.0	6:55	7579.0	11.673
401'	165.0	7544.0	6:58	7379.0	12.309
450	165.0	7294.0	7:02	7129.0	13.131
501'	165.5	6972.0	7:06	6806.5	14.243
550'	165.5	6692.0	7:09	6526.5	15.257
600'	165.5	6460.0	7:13	6294.5	16.136
650'	166.0	6226.5	7:17	6060.5	17.061
695' (Bottom)	165.5	5983.0	7:23	5817.5	18.066
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The bottom of the hole is reported as 697 feet. Note that the temperature gradient is increasing gradually with depth.

P.T. McCullough logged core to 537.0 feet. The radio telephone was checked and is operable.

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Drilling :

The hole was completed to 817 feet at 6:00 p.m. Some lost circulation occurred at 805.5 feet, although there has been no return since 655 feet. Water pressure returned after rods were pulled. Water is probably coming back up the hole and leaving at 117 feet which would explain the lack of rod vibration in the hole.

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Depth	SC(L)	<u>T+ SC(A)</u>	Time	<u>T(2)</u>	Temperature (^o C)
51'	165.0	9057.5	6:30	8892.5	7.926
100'	164.5	8824.5	6:39	8660.0	8.542
151'	164.5	8646.5	6:44	8482.0	9.026
200'	164.5	8446.0	6:48	8281.5	9.584
251'	164.5	8206.0	6:53	8041.5	10.274
301'	164.5	7923.0	6:56	7758.5	11.119
351'	165.0	7692.5	7:00	7527.5	11.835
401'	165.5	7476.0	7:03	7310.5	12.531
451'	165.5	7240.0	7:09	7074.5	13.316
502'	165.5	6945.0	7:12	6779.5	14.339
552'	165.5	6704.0	7:16	6538.5	15.213
602'	165.5	6487.5	7:20	6322.0	16.030
652'	165.5	6266.0	7:24	6100.5	16.900
702'	165.5	5977.0	7:29	5811.5	18.091
752'	165.5	5733.0	7:33	5567.5	19.150
803'	166.0	5572.5	7:36	5406.5	19.879
815' (Bottom)	166.5	5548.5	7:46	5382.0	19.992

Temperatures : Thermistor 5336 :

The Bottom of the hole is reported to be 817 feet.

Drilling :

Drilling was completed to 915 feet. Stopped drilling at 2:00 p.m to go to Squamish to pick up parts and bits for the drill.

Geology :

Core logging was completed to 639.0 feet.

1 November 1980

Temperature : Thermistor 5336 :

Depth	<u>sc(n)</u>	<u>T+ SC(2)</u>	Time	<u>T(2)</u>	Temperature (°C)
50'	165.5	9099.0	6:37	8933.5	7.820
100'	165.5	8846.5	6:37	8681.0	8.485
151'	165.5	8639.5	6:41	8474.0	9.047
200'	165.5	8438.0	6:44	8272.5	9.609
251'	165.5	8197.0	6:47	8031.5	10.304
302'	165.5	7909.0	6:51	7743.5	11.165
351'	165.5	7694.0	6:54	7528.5	11.832
402'	165.5	7455.5	6:57	7290.0	12.598
452'	165.5	7215.0	7:01	7049.5	13.400
501'	165.5	6946.5	7:04	6781.0	14.333
5521	165.5	6712.0	7:07	6546.5	15.183
603'	165.5	6494.0	7:10	6328.5	16.005
652'	165.5	6284.5	7:13	6119.0	16.826
702."	166.0	6013.0	7:18	5847.0	17.941
753'	166.5	5758.5	7:21	5592.0	19.041
803'	166.5	5536.0	7:24	5369.5	20.049
853'	166.5	5343.0	7:27	5176.5	20.964
903'	166.5	5183.5	7:29	5017.0	21.739
915' (Bottom)	166.5	5168.0	7:36	5001.5	21.827

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The bottom of the hole is reported as 917 feet.

Drilling :

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The hole was completed to 1027 feet.

2 November 1980

Temperatures : Thermistor 5336

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Depth	SC (1)	<u>T+ SC(2)</u>	Time	<u>T(A)</u>	<u>Temperature (^OC)</u>
			•		
51'	163.5	9058.0	6:27	8894.5	7.921
101'	163.5	8823.5	6:34	8660.0	8.542
150'	163.5	8624.5	6:38	8461.0	9.083
201'	163.5	8417.0	6:43	8253.5	9.663
251'	163.5	8182.0	6:46	8018.5	10.342
302'	163.5	7923.5	6:50	7760.0	11.114
352'	163.5	7693.0	6:53	7529.5	11.829
401'	164.0	7469.0	6:56	7305.0	12.549
452'	164.5	7218.5	6:59	7054.0	13.384
501'	164.5	6983.5	7:02	6819.0	14.199
551'	164.5	6755.0	7:04	6590.5	15.021
602'	164.5	6537.0	7:07	6372.5	15.837
652'	164.5	6352.0	7:10	6187.5	16.554
702'	164.5	6101.5	7:13	5937.0	17.566
753'	165.0	5766.0	7:16	5601.0	19.002
802'	165.5	5473.0	7:19	5307.5	20.339
852'	165.5	5261.5	7:22	5092.0	21.356
9041	165.5	5044.5	7:25	4879.0	22.452
953'	166.0	4877.5	7:28	4711.5	23.337
1004'	166.5	4757.0	7:32	4590.5	23.998
1025' (Bottom)	166.5	4738.0	7:35	4571.5	24.104

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Bottom of hole reported as 1027 feet.

Some problems were encountered in taking the temperature measurements this morning :

1. The machine appeared to driffit when some measurements were taken which made it difficult to duplicate readings.

2. In one case the reading varied by 12 ohms. Trevor Lewis indicated this may be due to a leak. A light rain was falling and the pins on the cable were wet. Drying the pins appeared to solve the problem.

The hole bottom that has been indicated on the counter each day has not corresponded with the hole bottom as indicated by the driller. The driller suggested that this may be due to cuttings settling in the hole during the night. After drilling he will henceforth circulate water and wash the cuttings from the hole before shutting down.

Geology :

A fresh grey andesite dyke with a few vesicles was encountered from 1091.6 feet to 1099.7 feet. The dyke is the first one that is accociated with Mount Cayley volcanism. Logging was completed to 930 feet.

Drilling :

Drilling was completed to 1117 feet.

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3 November 1980

Temperatures : Thermistor 5336

				1. Sec. 1. Sec			
Depth		SC(A)	<u>T+ SC(2)</u>	Time	T(A)	Temperature (°C	:)
50'		164.5	9065.0	6:12	8900.5	7.906	
101'		164.5	8835.0	6:16	8670.5	8.514	
150'		165.5	8619.5	6:19	8455.0	9.100	
201'		164.5	8420.5	6:23	8256.0	9.656	
251'		164.5	8185.0	6:26	8020.5	10.335	
301'		164.5	7925.0	6:29	7760.5	11.112	
351'		164.5	7704.5	6:31	7540.0	11.796	
401'		164.5	7477.0	6:35	7312.5	12.524	
451'		164.5	7232.5	6:37	7068.0	13.338	
502'		164.5	7001.5	6:40	6837.0	14.135	
551'		165.0	6781.5	6:43	6616.5	14.926	
603		165.5	6567.5	6:47	6402.0	15.724	
6531	•	165.5	6401.5	6:50	6236.0	16.363	
7021		165.5	6178.5	6:54	6013.0	17.262	
753'		165.5	5832.5	6:57	5667.0	18.712	
	(5401.0	7:04			
802'	1	165.5	5394.0 (N) 5408.0	(R)	5235.5	20.685	
853'		166.0	5195.5	7:08	5029.5	21.696	
904'		166.5	4990.5	7:12	4824.0	22.738	
9531		166.5	4815.0	7:14	4648.5	23.678	
1003'		166.5	4666.0	7:17	4499.5	24.510	
1054'		167.0	4582.0	7:20	4415.0	24.995	
1104'		167.5	4505.0	7:24	4337.5	25.449	
1117'		167.5	4501.0	7:30	4333.5	25.485	

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The hole depth is recorded as 1117 feet. Some difficulty was encountered in taking readings at 80% and 85% feet. The instrument was drifting markedly and the reading at 80% feet remained inconsistent, so both readings were recorded.

Drilling :

Stopped drilling at 1187 feet.

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Temperatures : Thermistor 5336

Depth	<u>SC (A)</u>		Time	<u>T(2)</u>	Temperature (°C)	•
51'	164.5	9054.5	6:15	8890.0	7.933	
101'	166.5	8811.5	6:24	8645.0	8.582	
151'	165.5	8603.0	6:27	8437.5	9.148	
200'	- 164.5	8417.5	6:29	8253.0	9.665	
252'	164.5	8178.0	6:33	8013.5	10.356	
301'	164.5	7934.5	6:36	7777.0	11.084	
352'	165.0	7706.0	6:38	7541.0	11.793	
401'	165.5	7481.0	6:41	7315.5	12.515	
451'	165.5	7233.0	6:45	7067.5	13.340	
502'	165.5	7021.0	6:48	6855.5	14.070	
552'	165.5	6801.0	6:50	6635.5	14.856	
603'	165.5	6588.5	6:53	6423.0	15.645	
653'	165.5	6424.0	6:55	6259.5	16.272	
702'	165.5	6189.0	6:58	6023.5	17.211	•
753'	165.5	5763.0	7:01	5597.5	19.017	
804'	166.0	5330.0	7:05	5164.0	21.024	
853'	166.5	5114.0	7:07	4948.5	22.095	
903'	166.5	4934.0	7:10	4767.5	23.037	
954'	166.5	4729.0	7:13	4562.5	24.154	
1005	167.0	4611.0	7:15	4444.0	24.827	
1055'	167.5	4484.0	7:18	4317.5	25.568	
1104'	167.5	4376.0	7:20	4208.5	26.227	
1154'	167.5	4349.5	7:23	4182.0	26.391	
1187'	168.0	4295.0	7:28	4127.0	26.733	

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The hole bottom is reported as 1187.0 feet. The cuttings were washed out by circulating water for 10 minutes after drilling ceased.

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Some problems were encountered in taking the readings. At 101 feet there was a problem in obtaining a cable resistance (SC) suggesting there was a leak, however, a reading was eventually obtained. Similarly at that depth the instrument readings were drifting, therefore, it was difficult to get a consistent thermistor (T) reading. At 804 feet the instrument drifted again, so there was a problem obtaining a balanced reading.

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Drilling :

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Drilling was completed to 1327 feet.

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Mt. Cayley Project

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5 November 1980

Temperatures : Thermistor 5336

Depth		<u>sc(1)</u>		<u>T+ SC(A)</u>		Time	T(1)	Temperature	(°C)
51'	• .	165.5		9018.0		6:15	8852.5	8.031	
101'		165.5		8784.0		6:20	8618.5	8.653	
150'		165.5		8568.0		6:23	8402.5	9.245	
201'		165.5		8388.0		6:27	8222.5	9.751	
251'		165.5		8151.5	•	6:29	7986.0	10.437	
301		165.5		7910.0		6:32	7744.5	11.162	
351'		165.5		7698.0		6:35	7532.5	11.819	
402'		165.5		7471.5		6:37	7306.0	12.546	
452'		165.5		7231.5		6:39	7066.0	13.345	
5031		165.5		7023.0		6:42	6857.5	14.063	
5521		165.5		6815.0		6:45	6649.5	14.625	
6031		165.5		6602.0		6:47	6436.5	15.594	
653		165.5		6459.0		6:50	6293.5	16.140	
703'		166.0		6210.0		6:52	6045.0	17.123	
753'		166.5		5794.0		6:55	5627.5	18.885	
804'		166.5		5331.5		6:57	5165.0	21.034	
854'		166.5		5113.0		6:59	4946.5	22.105	
905'		166.5		4920.0		7:02	4753.5	23.111	•
954'		167.0		4703.0		7:05	4536.0	24.303	
1006'		167.5		4564.0		7:07	4396.5	25.102	
1056'		167.5		4401.5		7:10	4234.0	26.071	
1105'		167.5	4	4264.0		7:13	4096.5	26.926	
1155'		168.0	ć	4120.0		7:15	3952.0	27.859	
1206'		168.5	l	4009.0		7:18	3840.5	28.607	
1256		168.5		3918.0		7:20	3749.5	29.236	
1307'		169.5	-	3880.5		7:24	3711.5	29.504	
1327' (B	ottom)	169.5		3894.0		7:34	3724.5	29.411	

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The drill hole bottom is recorded as 1327 feet. Some difficulty was encountered in taking the reading at 90 χ feet; there was considerable drift.

The water level in the drill hole is between 35 and 40 feet as determined when lowering the probe.

In attempting to change the thermistor, both the old and new ones were broken because of a pinched section in the tube that carries the thermistor. Two calls were placed to Trevor Lewis in Victoria and charged to 666-1528. He stated that Al Jessop may come tomorrow with a new probe and thermistor.

Drilling :

Drilling proceeded slowly with only 38 feet being drilled. The hole bottom is 1365 feet.

No temperatures were taken because of the broken thermistor.

Drilling :

6 November 1980

Drilling was completed to 1417 feet. Drilling was slowed somewhat because a total of 2100 feet of rods had to be pulled because of a bit change and a deformed rod, the latter at 800 feet. Drilling is expected to be completed tomorrow. Only 1485 feet of rods are serviceable.

Trevor Lewis was called in Victoria and the call charged to 666-1528. It was verified that Al Jessop would bring the new probe and thermistor and that he would arrive late in the day. At 7:00 p.m Al Jessop arrived and replaced the probe with a new thermistor.

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7 November 1980

<u>Temperatures</u> : Thermistor 5350

Depth	<u>SC(D)</u>	<u>T+ SC ()</u>	Time	T(1)	Temperature (^o C)
51'	154.5	11154.5	6:30	11000.0	7.990
	5	10880.0			
101'	154.5	10875(N), 1088	5(R)6 : 40	10725.5	8.581
151'	154.5	10617.0	6:44	10462.5	9.162
202'	154.5	10358.0	6:47	10203.5	9.752
253*	154.5	10072.5(?)	6:50	9918.0	10.421
303'	154.5	9751.5	6:54	9597.0	11.200
353'	154.5	9487.0	6:57	9332.5	11.864
404'	154.5	9201.5	6:59	9047.0	12.606
454'	154.5	8916.0	7:01	8761.5	13.376
505'	154.5	8653.5	7:04	8499.0	14.118
555'	154.5	8387.5	7:06	8233.0	14.880
607 '	155.0	8129.0	7:08	7974.0	15.661
6561	155.5	7952.0	7:11	7796.5	16.210
707 '	155.5	7528.0	7:14	7372.5	17.587
757'	155.5	6946.0	7:17	6790.5	19.633
808'	155.5	6413.0	7:24	6257.5	21.690
859'	156.5	6212.5	7.:28	6056.0	22.521
910'	156.5	6030.5	7:31	5874.0	23.298
959'	156.5	5802.0	7:34	5645.5	24.315
1010*	156.5	5651.5	7:36	5495.0	25.010
1060'	157.5	5463.5	7:38	5306.0	25.940
1112'	157.5	5320.0	7:41	5162.5	26.627
1161'	157.5	5093.5	7:44	4936.0	27.799
1212'	158.5	4926.0	7:46	4767.5	28.711
1262'	158.5	4757.0	7:48	4598.5	29.664
1313'	159.0	4659.5	7:50	4500.5	30.235
1363'	159.5	4559.0	7:53	4399.5	30.838
1413'	159.5	4525.5	7:55	4366.0	31.042
1417'	159.5	4526.0	8:00	4366.5	31.039
					•

17 -

.../18

A number of problems were encountered in taking the temperature measurements. Firstly no open circuit (OC) reading could be obtained before obtaining the other resistances; however thermistor readings were taken anyway. It was noted in the initial test that the lights moved to the right whether the polarity of the batteries was normal or reversed. An open circuit reading was obtained without difficulty at the bottom of the hole. The readings plotted very well along the previous trend. Secondly considerable drift was encountered at 750, 804 and 854 feet and slight drift was encountered at 1159 feet.

Drilling :

Drilling was completed to 1457 feet when the bit needed replacing. The driller only had 1485 feet of useable rods and the purpose of the hole had been accomplished. Therefore he was instructed to shut it down at 2:00 p.m. He obtained 3 dip tests as follows :

> 500 feet - 88° 1000 feet - 86° 1440 feet - 84°

Geology :

The kaolinitic alteration which had started sporadically at 1062.6 feet and extensively at 1120.5 feet, ended substantially at 1417.3 feet with sporadic occurrences to 1436.5 feet. Preliminary logs were completed to the end of the drill hole.

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8 November 1980

Temperatures : Thermistor 5350

Depth	<u>SC (A)</u>	<u>T+ SC (A)</u>	Time	<u>T(R</u>)	<u>Temperature (^OC)</u>
52'	153.5	11176.0	6:13	11022.5	7.943
101'	153.5	10921.5	6:16	10768.0	8.488
153'	153.5	10616.0	6:19	10462.5	9.163
2031	154.0	10348.0	6:24	10194.0	9.774
253'	154.5	10054.0	6:27	9899.5	10.465
303'	154.5	9746.5	6:29	9592.0	11.212
354 *	154.5	9464.0	6:32	9309.5	11.923
404'	154.5	9183.5	6:34	9029.0	12.654
455'	154.5	8882.0	6:37	8727.5	13.469
505'	154.5	8622.0	6:39	8467.5	14.199
556'	154.5	8344.0	6:42	8189.5	15.009
606'	154.5	8079.0	6:44	7924.5	15.812
657'	155.0	7894.0	6:47	7739.0	16.392
707	155.5	7575.5	6:50	7420.0	17.429
758'	155.5	6905.0	6:52	6749.5	19.785
808'	155.5	6361.5	6:55	6206.0	21.863
858'	156.0	6183.5	6:58	6027.5	22.641
910'	156.5	5992.5	7:02	5836.0	23.464
960*	156.5	5806.5	7:06	5650.0	24.294
1010'	156.5	5651.0	7:08	5494.5	25.012
1060	157.0	5466.0	7:13	5309.0	25.901
1112'	157.5	5333.0	7:16	5175.5	26.562
1161'	157.5	5116.0	7:18	4958.5	27.680
1212'	158.5	4942.5	7:20	4784.0	28.620
1262'	158.5	4790.0	7:22	4631.5	29.475
1313'	158.5	4694.0	7:25	4535.5	30.029
1363'	159.5	4570.0	7:27	4410.5	30.772
1414'	159.5	4458.5	7:30	4299.0	31.455
1457'	159.5	4406.0	7:35	4246.0	31.787

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Problems with drift of the instrument readings were encountered at 4 depths. Slight drift was found at 400 feet and substantial drift was at 850,907 and 957 feet.

PTM/ftc :

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6 January 1981

CORE LOGS

The fracture and alteration logging were completed in detail in order that their inter-relationship could be compared at an early stage in the program. It is believed that a few detailed holes could subsequently determine which orientations and alteration types are related to particular phases of alteration. The work by Dr. Read should prove most informative in this regard and should provide proportions of the types of alteration products in each phase.

Note that in constructing the logs the following occurred :

- Fractures that were missed in early recording may be out of order in the log.
- 2. Some areas of minor iron oxide stain may be a weak montmorillonitic alteration.
- 3. Bleaching around fractures is commonly due to kiolinization of feldspars
- 4. Fault striations were noted in the log in order to indicate that movement can be readily identified.
- 5. Zoning occurs around many fractures as follows :

kaolinite

^draft

chlorite

Epidote + quartz-filled fracture (sometimes the quartz is

	cross-cutting
chlorite	
kaolinite	an a
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PTM/ftc :

21 November 1980

euhedra most L M Preus clasts coarse with move matter apprex. plaste LUMM X5tals 2 \bigcirc I matrix 2410 0 Oranitic test oss. welded futt 27A 1000:-86 Dip 500.'-88 tuliated. 0 0 2022 Chen of esicular and esperphin 5,26 Ś MILTON 1100 155 D Cobbles 5 MW Contractor Iron Nountain Drilling Logged by HOLE NO. SO -2 grain Q al Description ie. W. E.// PSErbio. gravodio MM. Minner ons atter Tuerburden: Vebbles and O'AAM OU May B. 272912 XPM01 Ma omerceporeh 1124U Foliation 2° to 9 MOR gřeen q white た d Q WN D ocnh/2nde 040 e unhedra arkgrey 03 VN 1001 MM Scient Temp. (°C) FUNM iaht 502 9 Ver en. 8 D Q 3 Core Size Elevation Azimuth All angles in the log are relative to the core axis. R.Q.D. (%) 100 100 001 6 ы Core Recovery 00 100 00% 99 Hole Commenced 20 Oct. 1980 8 Nov. 1980 (%) z Project M. Cavley Strat. Column Location <u>BR</u>700 Hole Completed Note: Depth 50 30 . 40 0/0 0

(2) Matic Xenoliths at: 14.3, 20.0, 20.7, 21.5-23.0, 26.0-28.4, 33.8, 43.0', 46.0' parallel to foliation, contain numerous porphyroblasts. Matic xenoliths with little evidence of assimilation; dark grey andes., chl. matics ; n part, finely dissem.py., few small porphyroblasts to 1. Qmm, Few irreg. Felsic streaks a few mm. wide @ 15° to C.A. -34,7-408 Quartz Veins: -21.5' - approx. 2.0'wide; lower contacted 90°; upper Contact gradational w/bleached host rock g approx.25t 90° to C.A. (\mathbb{C}) - 34.8'- gtz-biotite vein, 0.8" wide; straight contact in xenclith, irreg. in granitic rock @ 20°-90°, vuggy W/ It. brn. stain. - 49.9'- gtz-biotite vein with irreg. contacts @ approx. 75° to C.A., Ige. books of bio. to 0.4" long, streaks of px-y may. through centre parallel to contact, irreg. blebsoi py-as much as 5mm long. j....

Fractures:

Depth	(f4) Angle to Core	Healed	Alteration and Intensity
21.4			· · · · · · · · · · · · · · · · · · ·
21.5			
21.6	I raD		
27.8	, <u>600</u> 85°		abund ar acht
33.5	200		abund.pr.tchl
38.1	1 90°		abund - pr.
40.0	and a construction of the second s		alund all on air strictions
43.1			abund. chl., ep., py., striations cticl. of matics along fract.
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foliation. Mad. oxidized py dissem. Quit Withe assimilation: 101.0' 80-2 Faliation 150 @ 64 XPNOLith Paral 5°@ 82 106.1 HOLE NO. Description 10 01 Foliation 44 Xemol Maf Temp. (°C) All angles in the log are relative to the core axis. R.Q.D. (%) 95 95 90 ~ S 99 99 99 \bigcirc Core Recovery (%) 001 001 001 001 0.01 001 001 Strat. Column -18 Note: Depth τ 50 (73) 9 4 Ś (0 -- 08 001 01 011 20 Q L

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Fractures:

63.1 20° parallel Folialiten 64.9 20° 0xids. 91 matrice. along tract. 70.0 15° 0xids. 91 matrice. along tract. 86.5 85° abund. py, minor.cp. 92.5 90° Silialte.10° wide mod. py., minor.cp. 92.5 90° Silialte.10° wide, healed 94.4 75° Silialte.10° wide, healed 92.8 40° Silialte.10° wide, healed 92.8 40° Silialte.10° wide, healed 92.8 40° 10° wide stain. 92.8 50° Mid. iron exide stain. 108.3 50° Med.iron exide stain. 109.4 70° Moducon exide stain. 109.4 70° Noducon exide stain.	Depth(ft) Angle to Core	Healed	Alteration and Intensity
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Fractures:

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Depth(F4.) 157.3	Angle to Core	Healed	Alteration and Intensity
· · · · · · · · · · · · · · · · · · ·			Med. Iron oxide Staining
157.4	750		Mod. Iron oxide staining. Mod. Iron oxide staining. Mod. Iron oxide staining.
168.2			Med. chl.
76.7	750		Intense iron oxide staining. Intense iron oxide staining.
177.0	70°		Intense iron oxide staining.
177.3	650		
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Ø = 20° - Weak Zene 201.8 dissem pad w/biogamph, irreg. 203.5, 204.0 Sconti - Felsic -243.0 89.6 801 Parallel te Faliation 3.0" @ 226.9 - 80 Foliation 20° @ 182 - 700 This streaks known 223.4'-80°. Eoliation 12° @ 227. 80@ 237 205.0,2176,242,1 Xeneliths at: 1871 200.8 98.7' 203.8 200,1 contacts $d \rightarrow d$ 200-8 20666, 230.0 0 235.1 236.1 6 234 HOLE NO. Description 220.05 3 0.5"@ 9 C Q 182.7 Foliation ، ک" 1.0" 0 ist 4 197-9.505 Temp. All angles in the log are relative to the core axis. R.Q.D. (%) 1001 98 56 95 9 12 98 9 2 J Core Recovery (%) 100 001 100 001 100 100 100 Strat. Column 227 217 237 Note: (f_{ij}) 207 220 -240 -200 180-310 230 190

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Fractures:

183.3) Angle to Core 80°	Intense ivan oxide staining
83.4	700	Intense ivon oxide staining
87.0	680	$E_{p.4}$ chl.
188.9	70°	Minan BD. R.C.I.I
189.0	60°	Minne on Achl
198.3		Minor ep. 9 chl. Minor ep. 9 chl. Healed Fract, w/ epigchl. 9-972
91.8	750	Mi on
97.2	35°	Minor ep. 9 chl.
201,3	60°	Mod. iron oxide stain
203.3	600	IUUI. UNLA COMPACT
203:5		Mod. iron oxide stain
207:7	+00-450	Mod. iron exide stain & minof.py.(2fracts) Mod. iron exide stain & minof.py.(2fracts) Mod. iron exide stain & minor py Mod. minor py & clay Mod. clay and iron exide stain Minor clay alth
07.8	45	Million or a start of minor for an and
	50°	Mind Prenexial fully minder py
08,6	-	Mod minor py t clay
08,7	40° 550	11cd-clay and Iron exide Stally
09.3	<u>45°</u>	Illiner clay alth
11.1		
13.0	and the second	Parallel Foly., minor won oxide & clay altr.
17.0	450	
17.1	- 67.0	Mod, iron oxide stain eclay altr.
17.8	<u>82°</u>	Intense Iron exide stain w/py Mod. Iron exide stain, py, ep, miner clayalte
24.8	82° 45°	Moduron oxide stainpfy eppminer clafalt
25.0		
27.0	70°	Mod obt minar Iran oxide stain
32.1		Mod.chi, - clay, py
32.2		Minor chl, clay, py Mod. clay ipy Minor chl.
33.5		Mod. claftpy
36.7	6.7°	175 hor chil.
38,3	650	
38.4	750	
39.3	-70	Chl. Fracti, bealed up bleached Zone Oil withe
+0. Sf	-35"	the second
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cut by chin Irreg. contacts Îc Chloritizal sharp 4 at 80' less matrics in groundmars. Darthy resorbed chlimatics, py 254.07 304.4 305.51 S.M. a.L. 263. 60 (mwm/> andmore matic beginning a 80-2 800 259 Foliation 30° @ 308 275.17 0,5° @ 244,7' 65 ract 245 50 norph. of plag. -258.8 *appercolatact* approx. 260' rom 305.0 Q 244.8 Ciner grained ep.t 306.6, 309.2 HOLE NO. -299. 271.5 minor epid. prouppoul Kenol thsat! 1"@250 94 and es. roken Core Description ZONRSI 257.4' 272.7 26751 297.1 1.0 STO-01 Sil Temp. All angles in the log are relative to the core axis. R.Q.D. (%) 00/ 3 92 67 00 22 Hole losing water at 302! Core Recovery (%) 00/ 100 001 100 30 Strat. Column 277-297 307 257 287 241 21 $(f_{\mathcal{H}})$ Note: 270-250-260 290 300 280 310

Fractures:

Depth (F/	650	1	
244.8	63		Mod.py. w/epide, chl., + clay minor.
245.2	450		
246.1	<u> </u>		Mod.py., some mag., clay, iron exide, chl. Med.: chl.
246.5	50°.		Med: chl
247.3	270		Ch ,
252.8	470		Chl
255.3	470		
255.8	330		
256.1	30°		
256.8	75°		C61
257,5	420		
262.1	85°		Ch (
	750		
266.8			Minor chl
267.7	150	·	
267,8	20°		
271.0	50°		Ch I,
272.0	25°		$Q_{12} - chl$
72.2	27°		
22.4	33°		the characteristic and the second
72.3			Mainly epid w/some chlobleaching a roun
100.00			Fract in inclusion
72.3	65°	,/	fract. in inclusion
72.6	37°		Chl some broken pack
72.7	450		Chl.
72.7	7.0		
	350		Chi
72,7			Ch I
73.5	<u>43°</u> 85°		M is really a second
77.2	and the second s		Minor chl.
78.3	<u> </u>		Minerchl
80.2	40°		Bleached, w/ chl
87.7	-170		Ch1, 2.tz.
291.0	C_O°	And a state of the second s	
291,9	750		O_{12}
292.0	650		
92.3	65°		[Cb]
293.0	680		I Ch L
97.5	65° 68° 75°		Chl.
99.0	70°		C/1
99,1	<u>70°</u>	V	
99,2	7/70		Chi
	80°		
299,3	650		CAI
_ 11.61	60		

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Fractures:

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Depth (*	ft) Angle to Core	Healed	Alteration and Intensity
299.7	600		<u>ch</u>
299.8	60°	V	I Ch I.
300.2	<u> </u>		Chl.
300.6	650	V	013
300.7	480		Subparalle (foliation
301.3	680		Chl
301.7	58°		Epide & chi, thin, w/clay, from feldematics
302.3	60°		Chl.
303.0	23°		Ch1.
303.0	6.0°		
304.0	700		Epidzone, thin
3080	400	1	Iron oxide stain
308,2	22°		
309.0	30°		
309.4			Minor Iron oxide stain
<u>2011</u>	••••••••••••••••••••••••••••••••••••••		1 Lt VIO L. I C. P. C. D. C. M. C.
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B L'X Engliths at: 2-354.8, 356.0, rom 90° to CA n streak (0.25,and Haick : 325.3-325.5'@ Natics more abundant 360° to approx. 700. 80-2 DEEX Foliation 30°@ 369 319 -mag.)(a) 352.0,354.0-Sil. Zones : 364.1-364.4 HOLE NO. resorbed - 318 Description g & and es. arl C 365-12.272 Temp. (⁰C) All angles in the log are relative to the core axis. R.Q.D. (%) 001 001 100 96 93 100 98 Core Recovery (%) 001 001 001 100 10 C 00, 001 Strat. Column 357 360 Note: Depth 321 347 337 Σ (1 3+0-370-360 -330. 350-320 310

	A.)		
Depth(Healed	
314,5	55°		Miner iven exide stain
315.0	100		
315.7	50°		
316.0	70°		Chl.zepid.
317.0	650		
317.1	750		Iron oxide stain
317.5	40°		· · · · · · · · · · · · · · · · · · ·
319.0	320 4550		Conjugate fracts w/ chilgepidione w/gtz
			Conjugate fracts w/chl.qepid.jone w/gtz, w/b/zached (0.2") margin on 32° fract. Chl.qepid (0.4")
3193	36°	V	Ch' q epid(0,4")
323.3	8°		2 navallel fracts minon iron pxide stain
336.3	23°		2 parallel fracts minor iron exide stain Iron exide stain
339.1	110		Minor clay a (th
354.2	350		ale ferba de blak fri benn beninden ale fan en de frieden frieden en genere en en De ferba de blak frieden en e
354.8	35°		Minor cla/altn.
357.3	35°	-	1 u lui lui lui lui lui lui lui lui lui l
360.3	650	<i>\</i>	CLACA
360.6			Chl. g. clay
360,7	650	Variation Contraction	
361.1	70°		I I I W poid (AS, inde)
361.2	700	·····	1 11 " will on id
363.5	8.7°		" " w/epid. (O.S" wide) " " w/epid. Epidstchlw/py smeared along fract Iron axide stain
365.0	420		- pint ca with provide the could be a could be the
- 1	670		- for a prove a for the land and the ball a summer a recommendation of the second and the
365.1	. 0-1		
		• • • • • • • • • • • • •	- Construction of the second s second second s second second s Second second s Second second seco
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Ø plag. pouphyroblasts. blibs of pyalong. 2 Wide Feliation: 20° @ 396 ChI 80-2 ceptaced country rk-r - 770-423,0-500low enclantad HOLE NO. Description ew small Margin. encliths w, lins 82.5 425,8 C Temp. (⁰C) All angles in the log are relative to the core axis. R.Q.D. (%) 92 100 90 88 67 64 90 Core Recovery (%) 001 100 001 001 001 100 100 Strat. Column 436 1.62 Note: Depth (f1) 407 427 30 420-400 -440 410 430 39c 380 -

Fractures:

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Depth (f	t) Angle to Core	Healed	Alteration and Intensity
378,3	4.2°		Subparallel foliation
378.6	200		1((1
380.4	400		
381.5	550		
382.6	60°	and a summer second of a second s	Ch(shear w/striations
382.8	480		Mad. chi
384,4	43°		Minor Ironoxide stain
384.7	400		Miner iran exide stain
385.2	53°		
386.6	200		Chlw/minor adjacent bleaching Chlw/minor cpid-
392.4	750		Chl. W/minor epid-
392.2		V	
392.8	750	\sim	$t = t^{t} = \eta = -t^{t} = t^{t}$
393.1	70°	V	it is it it
394.2	46°		
395.2	520		
397.9	650		
399.8	50°	the state of the s	
400.1	70°		
400.4.	60°		
401.0	600		
401.7	50°		
402.3	650	\checkmark	Chl
402.5	60°		
404.0	160		Mod.clay
407.5	720		
409.9	-70°		Chi & possibly epid (0,2") Chi py & minor epid smeaced along fract.
410.0	830	1	Chipy & minor epid smeaced along fract
413.6	140		
413.7	60°	·	
414,5	55		
414.7	350	La Van Inder	Chl. w/passible cpid. (0,3")
415,5	_62°		
415.8	67°		
415.8	+00 .	/	Chl and possibly epid.
416.5	72°		
416.9	35°		Chl shear w/ striae
420.7	50°		./
4217	380		
4.22.0	45°		
422.3	500		3 chi tracts and possibly epid
422.7	350		3 chl fracts and possibly epid

Depth (A) Angle to Core	Heale	d Alteration and Intensity
422.8	42°	1	Ch1. fract. w/striations
423.0	41°		$\frac{1}{1} \frac{1}{1} \frac{1}$
424,5	360		
425.0	44°	1	
425.7	40°	en der i konstanterska de forbieter	
4.26.0	60°		
428.5	340		
429.3	40°	V	Chi Fract. (0.3"wide)
4-29.8	§ 3°		Chl. shear w/ striations
430.0	40°	- V.	Chi. Fracture/w/alth 0.6" wide) Irreq. chi. Fratt.
430,3	55°	V	Irreg. chl. fratt.
436.1	60		
436.2	60°		chl. fracture
438.1	450	-	Miner Iren exide stain
439.8	550	and the meaning	Intense iron oxide stain
439.9	<u>60°</u>		Minor II II II
440.0	<u> </u>		futense "
442.4	58°		
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	Managana an an	· · · · · · · · · · · · · · · · · · ·	and the second of the second
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18 (10 50°). 495.8-1550 - bleb 0.23" to Small matic Xenolith: 462,31 irreg. Contacts 2°; c41 ontact 000 rer contac approx 80-2 Ealiation 15° @ Ab2 xtract.a. OLWEY HOLE NO. O.S" #Yel Witde Description 490.9-W Otz Veins: and ٥.٢" 20 20 491 Temp. All angles in the log are relative to the core axis. R.Q.D. (%) 98 88 99 9.7 001 87 Core Recovery (%) 100 001 001 001 001 001 Strat. Column 507 <u>A</u>66 456 446 Depth(ff)477 Note: 487 49 490-450-500-470 -SOD. 460 480-

epth (445.1	ft) Angle to Core		Alteration and Intensity
F48,2	har a construction of the second seco		
	730		Chi
49,2			
50.2	<u></u>		Ch1
\$51.2	80°		Chlw/bleaching (Q.4"wide)
153.8	<u> </u>	a in a contraction of the second	Chi fract. w/ bleached marging
155.6	40°		chl parallel foliation
#61.2	440		2 parallel fracts one is healed w/ch/
			and minor iron oxide stain
1612	50°		Minor Iron oxide, crosses 2 Fractures abo
162.5	<u>38°</u>	-	Vugoy gtz w/chland iran oxide at margin
			Vuggy gtz w/ch/and iran axide at margin (0.1 "wide)
62.7	500		Chlw/striations, Str. Fract.
463.7	180		Mod. Iron oxide
63.4	470		Ch1 minor iron oxide stain
63.4	70°	1	ch1:
64.0	60°		Minor ch(
65.0	45°	• • • • • • • • • • • • • • • • • • •	Minor iron oxide stain
466.4	40°	ا مداخرون را المومودية (مراجع) . ا	MINUT TION OXINE STURM
72.9		· • · · · · · · · · · · · · · · · · · ·	Qtz vein bordered by chi shears Co.25" wides
		• • • • • • • • • • • • • • • • • • • •	SI HOLD DIAGREE DY CHISHEALS OJES HURES
F72.9	<u>45°</u> 90°		Subparallel faliation
-78,5	Reaction and an an an an and a second s		Minor chl
-80.4	700		Qtz vein bordered by chi shears (0,25 wide)
82.9	. 60°		Chl-epid shear w/2tzwein (20,1"wide)
· · · · ·	مری (۲۰۰۷) ۲۰۰۱ - ۲۰۰۱ - ۲۰۰۱ - ۲۰۰۱ - ۲۰۰۱ - ۲۰۰۱ ۲۰۰۰ - ۲۰۰۱ - ۲۰۰۱ - ۲۰۰۱ - ۲۰۰۱ - ۲۰۰۱ - ۲۰۰۱ - ۲۰۰۱ - ۲۰۰۱		@ SC? vein cut by Fract
£83.1	<u>50°</u>		Chl-epid. shear (Oit'wide)
F 83.7	<u>50°</u>		((0,2) (1))
-84,2		· · · · · · · · · · · · · · · · · · ·	(
85.6	<u>40°</u>		Chl sheer w/striations
-87.1	650		ch]
87.9	40°		1999 - 1997 - 19
88.1	50°	an an an induced of a second of	
90.7	70°		
92.8	400		Minor iron oxide stain
75.9	80°, 70°, 55°	~	Small ch1 shears
97.0	600		chlqotz
83.8	42°		
			and a second
1	in the second		
	ere – sourrenere Looraanse omstanse opstaal is staat op de soor gebeur.		ана таки таки по таки по село с таки по село с вороно со страно 2007 20 000 V чака раке на тако на ракотроро 10 10 10 10 10 10 10 10 10 10 10 10 10

HOLE NO. 80-2		Description	Mafic xenoliths: 539.1' 544.7' - 554.6' 555.1' - 555.8' (whicheg 2t2 dio. interspersed), 560.2, partly	Dk. gy andes dyke-NO assimilate Uppercontact@650/10wer Contact@820 012 Veins:	529.0'-532.1'- w/few megacysk of holde to 0.75" long q bio to 0.5" long loper contact chluritized v@ 50 Lever contact 14 brn, somegiz-chl-ser zenes,	Foliation 70° @ 537' / Contains partimu/graphaintar? 5:1. Zones: 532.9-0.2" wide, 1859. @ approx 55°	535.0'-535.5'- remnants of andes.dyhe in Sil. Zene Sharp contacts w/ frags, grad. contacts w/ gtz diof	5136-315 wide irreg, more eptchl. Yhaa ather zones heald @ 80°	More matic and Finergrained From 521.0 Amergrained
• •		Temp.							
•	to the core axis.	R.Q.D. (%)	100	001	1.8	007	<i>6</i>	6	4
	All angles in the log are relative to	Core Recovery (%)	700	100	001	100	007	100	001
The second s	ALL ANGLES IN THE	Strat. Column							•
	NOLE:	$\frac{Depth}{\langle f \rangle}$		520	530 <u>527</u> 530 <u></u>	540	550	560	570 567-

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Fractures:

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514.7	20°	1	
and the second sec			Parallel feliation
	<u>+0°</u>		Intense chl. over 5:0" wide w/gtzqcalcite Chi
518.1	6.20		Chi 12
5195	250		under auf million auf der einen einen einen einen einen einen einen einen auf der einen zum der einen
522.9	7.00		
3		والمعاوم وماها ومراجعتها والمحارب	
524,0	650		[Chl (a1"wide)
526.4	68°		CII (ctrading)
	68		chlw/striations
527.8	67 50°		chl-gtz w/striations
52 8.2 52 6.8			Mod Ehl
	40°		
527.5	720		Chl-epid?
533.0	70°	1V	ch1 (1.2"Wide)
532.7			lrreg ch/zone
533.9	<u>50°</u>	V	1 chl
535.2	650	1	Chi assoc. w/ b/eached zone inandes, dik
·	encomentative in the second second second	بيورية مستحد مالك	also cuts, 9 tz vein w/bleached zone
536.3	70°		alsocuts 972 vein w/b/eached zone Chillous"wide)
537.5			llrreg chlzone
538.3	55°		Chi W/ some epid?
539.1			Irreg chlzone
541.0	40°	V	Chi wil minour point?
571.1	400		Irrey chl-epid
542.3	350		Chl-clay-epid (0,2"wide)
542.4	60°		Chludeoid
542.5	55°	V	Chi w/epid
542.6	20°		
542.9		a provinsi te anteres.	Lener chl-ppid
543.3	nananaya amangan kacamatan Maripada ang ang ang ang ang ang ang ang ang an		Irreg chl-epid
545.1	409 559,750		Intense of z-chl-epidzone Co.f Fract.w/
5+5.6	15- 15- 15- 15- 15- 15- 15- 15- 15- 15-		(I n lense y cht - epille epile our race leby
		n an	Intense of z-chl-epid zone Co.t Fraetw/ alteric zone over 4.c") Str.chlw/striations
547.2	650		
547.4	65°		Str. chlw/ "
	63 35°~		$\leq (a + b)$
548.1 748.6	<u>35</u> 50°		Subparalle (foliation
78.6 549.0	<u> </u>		
		+	chiw/s/rialions
50.6	430	+	Strichle w/striations
551.0	380		ch w/ minor epid
551.5	42° 45°		c.hl

Fractures:

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)epth(+)		Healed	
552.5	430		Str. chl. fract
553.9	<u>70°</u>	V	Chl. Fract. margins bleached Chl. Fract (0,2" wide)
54.1	430		Chl. fract (0,2" wide)
54.9	480		the second se
555.5	750		Chl. Fract, margins bleached
556.3	450		the second se
556.8	43°		Chl. Fract: margins bleached
557.3	<u>52°</u>	~	and and the data was a second and the second and a second and the second a
557.7			Chl Fract.
558.0	29°	L	chl. frast. bordered by 0.1 wide chl. zon
558.11	45°		1 Chl. tract
5597	400	V	2 Chl. Fracts, one healed.
560.6	750	V	chl. Fract w/ pleachedzone.
562.0	75° 50°		
63.1	600		Siliceous zone
63.3	480	1	ch]
64.6	700	1	
65.3	650		Chi
65,9	35	· · · · · · · · · · · · · · · · · · ·	Ch1
66.0	100		ch/
66.3	500 600 200	and the second	3Chi
66.4	50° 60° 70° 75°		De Miller (annues) service annues annues annues (m. 1997) annue service service annues (m. 1997) Annues (m. 1997)
66.6	7.0°	\checkmark	2 Ch [
	400	V	Chl (O.2" wide)
52.5		V	Qtz-chl (0.5" wide)
67.7	<u>40°</u> 60°		
68.0	60 4-2°		chl-epid-
			Chil-epid.
69.5	650		Chli
70.5	20"		Parallel foliation
71.0	350	· · · · · · · · · · · · · · · · · · ·	ChL
71.2	13	J.	Ch(
71.5	60		Ch/
71.9	10	V	Chl
72.0	60°	1.000.11.01.01.001.001.001.001.001.001	
72.1	35°,60°		Ch1
72.4	33°		chl w/iron oxide stain
572.6	480		ChI w/smeared px,
573.1	520	V	2 Chl' tracts, one healed
74.0	<u>- 78°</u>		Chl
74.8	350		

Þ3 ma Fictione gy and es dykee 30° parallel ta faliation, 50° wide © 621,7,622,05 Abundant matter to 609' Broken cone: 635.0-635.5' tc.L.ainclusions. 57877-637.0,6323 40 -oliation 30° @ 637,0" HOLE NO. 80-2INEL/ 6150 2arca (628.81 630,1'-633,1' artly reserbed W/inclusions, 607.8'-608.2 640.7-641.3 relsic zones folia fimi 624.0,626.3 619.9-620.7 Description 6 29.2' Temp. (⁰C) All angles in the log are relative to the core axis. R.Q.D. (%) 001 00/ 26 98 6 87 001 Core Recovery (%) 001 001 100 100 001 100 001 Strat. Column 577 587-627 637 Depth (f+) 597 Note: 203 617 600-610-630 -590-640-580-620-

Depth (f	4) Angle to Core	Heale	d Alteration and Intensity
576.7	55°		
577.5	<u>50°</u>		
578.0	370		Ch)(0,2" wide)
578.1	<u> </u>	1	- Chl
579.1	<u>57°</u>		ch1(0,3" wide)
579,3	60°	-	- Chl.
579.6	<u>70°</u>		Ch1
580.1	37°		Chi zone 0.75 wide, vuggxin part; iron
			Oxide stain Fract. Wiron oxide stain
580.5	68°		Mact. Wironoxiae stain
5 82.6	62°		
582.7	26°		ch1
583.1	60°		
584.3	60°		
587.1	56		
588.0	750	-V	<u>Ch</u>
588.1	83°	<u> </u>	Chl
589.3	82°		ch
589.4	?	· · · ·	ch]
598.0	<i>30</i> °	· • · · · · · · · · · · · · · · · · · ·	Chi-9+z-clay alteration and bleached many
029	62° 86°		(O, 4" wide) Chlon & fract.
,03.2	67°,86° 55°		
03.3	550		
06.7	40°	~	Chi
07.4	82°		Ch1
08.0	50°,60°	Partly.	Chi w/part/ybleached zone (0.2'wide)
08.2	480	V	1 Chi
308,3	63°	n nerve finnen som	
08.9	50°	\checkmark	Chl
09.1			
,09.2	70°	a a ar cruarency care to	
09.3	7.0°	ا این این این این این این این این این ای	
09.7	800	<u> </u>	Silicified and bleached
09.9	600		Chi w/ bleached zone (a. 2" wide)
10.1	250		ICh1
611.9	<u>65°</u>		ch1 w/bleachedzone
612.0	600	/	
612.5	<u>65°</u>	<u> </u>	" " (0.4" wide)
012.6	36°		
213.0	50°	<u> </u>	Ch / w/bleached zone (0.3"wide)
615.0	58°	. /	Chiw/bleached zone

Depth ((H) Angle to Core	Healed	d Alteration and Intensity	
615.6	60°		Chlw/bleachedzone	
618.4	650	./	chl	α διατική μητά για που το μαι, η 1 τη 200 και του του τη παριο του Ευταγγού Του στο Παριοτικό του του του του Το διατική ματά για που το μαι, η 1 τη 200 και του του του του παριο του Ευταγγού Του του Του Του Του Του Του Τ Το διατική ματά για που το μαι, η 1 τη 200 και του Τ
618.7	55°	1		
629.0	60°		Chl	
629.6	280	-		• = 12 = 1 • • • • • • • • • • • • • • • • • •
632.6	60°		chi w/striations	
633.7	40°	ne cor a nation that a second sec	Chi W SITTUTIONS	. 174 TEAT TO THE REAL OF LOCATION COMPANY AND
634.1	520			
	440			
634.2			Hiner chil	
634.3	45° .50°		Chlw/striations Mindr chl	a an the grade a submer sector. The submersion is an internal and the state of the state of the state of the st
634.6			Rindr Chl	
635.8	750	//	Chlw/bleached margin	
	and the second secon			
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		· · · · · · · · · · · · · · · · · · · ·		
		an a		a na se a
	Andrey and company 11.17 and a start of the	a and a second se		
				u vezur nezi (r. u. 1997). Tenni til onn tenen yr u zysif tind lu een nerite furywar u enw uitte fan sefer fan In
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			an un seren den seneral seneral and and an	n 1994) Marriel II. – Annen IV. († 1995) 1994 - Mersen VI. († 1998) 1997 - Herrie IV. († 1998) -
	n ann t- air fha na na Airdeana a' le cola ann a' fa anns na ca anns na ca tann fhair, agus an		ann an tha an an an ann an tha ann an tha ann an ann an ann an ann an an ann an	ne navona na ostano se na processa na presenta da se entre a se entre a serie da se entre de series de series e No se entre se entre series de s
	lles renarisations anno 1000 - Carlo Activity Carlo Statemark ann	an. 1 - 1978 - ¹⁹ 97 - 199	n a sa anta a a a a an ana 1979 ang kananananananan na a sa	адаан балаг төлөндөгөн амалал тар гэсэн, урсган балаа байта төрдөөрөг. Тураг
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· · · · · · · · · · · · · · · · · · ·			ала стали на се от на село се со село со сома и не не не не на суло у који у који у не кој на кој на кој на кој На стали на село на који се со село со сома и не не не не не не на суло у који у на кој не кој на кој не не не н	

w/ few pods containing less 26 Felsic Zone @ 10°, 0.1 Wide @ Abundard matics fram 681,0-686,69,682,17686,5-774,3 (@ 80° 75° · O wide w/ch/9 695.9-696.1- 02/ch1-epid inclusions: 661.0,662.1 : 2 25.6-6960 Feliation 35° C 645,0 8:0 - 2 pid. @ centure 706.8 Ediation 30°@ 702.0 Sroken core: 6550 Fine-grained 643.0, 649.4 v resorbed HOLE NO. Description Qtz Veins: 659.8'-- MOHANCS e pid 669. rarti 695'-18.066 Temp. (°C) All angles in the log are relative to the core axis. R.Q.D. (%) 001 92 96 0 5 82 46 83 83 Major water loss at 655 (approx) Core Recovery (%) 001 001 001 100 00, 100 100 Strat. Column 669 -677-101 687 697 649 Note: Depth 667 65.7 (FF) 690-- 099 680--006 650-670-

27

epth(ft) Angle to Core	Healed	Alteration and Intensity
44.51 60°		Minorpytcp
45.3 650		
46.9 820		Mod. chland Iron oxide stain
47.6 70°		Hinov Iron axide
47.1 750		n haf ha A.D. Henne ha ba bak. Un hader have been ere normanized and an ere normalized and a second second second been a second second been a second been a second been a second been a se
19.8 630	** * * * * * * * * * * * * * * * * *	Mod.chl w/ striations
51.3 650	n na mai 1990, anna anna 1990 (19	and he have been the basis of free her shall be the state the transmission of t
51.6 650	1	Chlw/minor bleaching
51.7 650		
52.17 740		
52,7 740 53.1 55°	1	Chlw/minor bleaching
53.2 550		
53:4 600		
53.5 <u>60</u> °		Minor Iron oxide stain
54.0 51°		and - Star Lee and an an and a fair fair fair fair fair and the fair and the second started and the base denominant started and the second starte
54,2 530		
54.3 500		
55.0 60°		unan na an
551/ 550	and the standard in a characteristic	
	~	Chilzone ulpleached margin (0,75" wide)
55.6 700	V	Chi zone w/bleached margin (0,25" wide) (0,75" Wide)
55.7 37°		
55.8 670	V	
	V	(h1 zone w/ hleached marain (O.S wide)
	V	Chlzene u/ bleached margin (0.3" wide)
56,2 50°		" " (0.2" Wide)
56,2 <u>50°</u> 56,6 <u>45°</u>	. /	Chl
56.2 50° 56.6 45° 7.0 50°	V V	
56,2 50° 56,6 45° 7,0 50° 7,1 45°		СЬ1
56.2 50° 56.6 45° 7.0 50°		Ch1 Ch1 Ch1 Ch1
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56.2 50° 56.6 45° 7.0 50° 7.1 45° 7.2 60° 7.3 70° 7.4 70°		Ch1 Ch1 ch1 Ch1 Ch1 Ch1
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$56.2 50° \\ 6.6 45° \\ 7.0 50° \\ 7.1 45° \\ 7.2 60° \\ 7.3 70° \\ 7.4 70° \\ 7.4 70° \\ 7.9 45° \\ 5.1 70° \\ 7.3 70° \\ 7.9 45° \\ 5.1 70° \\ 7.1 70° \\ 7.4 64° \\ 0.1$		Chl Chl Chl Chl Chl Chl Chl w/bleached margin (minoc) Chl w/minor bleaching at margin Chl w/minor bleaching at margin Chl Chl Chl Chl Chl Chl Chl Chl
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		Chl Chl Chl Chl Chl Chl Chl w/ bleached margin (minoc) Chl w/ minor bleaching at margin Chl Chl
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		Chl Chl Chl Chl Chl Chl Chl w/bleached margin (minor) Chl w/minor bleaching at margin Chl w/minor bleaching at margin Chl wide) w/some epid Chl zone (5.0" wide) w/some epid:
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		Chl Chl Chl Chl Chl Chl Chl Chl w/minor bleachong at margin Chl w/minor bleachong at margin Chl w/minor bleachong at margin Chl Chl zone (3.6" wide) w/same epid Chl zone (5.0" wide) w/same epid Chl zone (5.0" wide) w/same epid Chl
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Depth(ff)	Angle to Core	Healed	Alteration and Intensity
664.0	<u>45°</u>		
66t.1	27°		l - Carlo State - Car Carlo State - Carlo Stat
664.2	65°		1 ch/
664.3	45°		Chi w/ narrow bleached margin
665.1	650	1	I Chi
666.3	650		1 ch1
666.6	650		2 fraefs
667.2	400		
67.6	650		
667.7	9.0°		Iron oxide stain Intense Ruggy chlover 1.5".
67.8			Intense vugay chlover 1.5.
667.8	70°		
668.1	850		
668.3	820		Abund, py echl cuts off gtz vein 0.1-0 wide @ 20°
			Wide P 200
668.3	700	,	A CONTRACT OF CONTRACT.
668.4	55°		Iron oxide stain
670.4	820	an a	Iron oxide stain
,71.5		an a	Chl (0,5" wide)
72.1	-70°	e e standard en	Chl
72.2	70°	·····	ICH/
,72.3	68°		Minor chl
72.9	720	V	Chlw/miner bleaching
573.L	60°		1 No 10 10 10 10 10 10 10 10 10 10 10 10 10
73.9	50°		Chi w/bleached morgins (0.2"wide)
¢ j	800	<u>/</u>	
,74,2	60°		Chl w/bleached margins (0,2" wide)
	25°	• • • K. • • • • •	1 " UNDIELCHER MARGINS (ULL WELL)
276.6	75°	man V games a	Wide
	820	<u> </u>	"w/minar.bleaching
77.6	20°	************	Chi
77.9		tana dina Jawa Landan Maria Ing	
78,2	720 75		Chl wf striations
78.3		/	lrreg chl
,78,4	<u>70°</u> 80°		Ch/S
78.5	700		Chlw/bleached zone Q.6 "wide), 18 reg, Vuggy
078.9		V	Chi w/ bleached Zone (Uir Wide)
679.1	300		C11 /11- 1 20 1
080.6	<u>72°</u> 55°		Chiw/ pleaching of adjacent matins
01.3	55°		ch/
81.4			Chi
	656		<u>ch</u>
81.6	65°		Chi

l

Depth(f	7) Angle to Core	Heale	d Alteration and Intensity
682.0	60°		[ch](20"wide)
682.3	60°		Ch/
682.5	600		Chilw/minor bleaching
682.8	75°		
683.2	80°		
683.4	70°		
683.5	20°	nge filter i hertigen of nig doublier art	
683.8	700		Chl
683.9	72 "	-	
684.0	220		
684.1	750		
6842	720	•	
684.3	700		
685.1	55°		Chlzone (0,3" wide)
686.0	70°		
686.4	450		2 parallel chl fracts
687.0	450		Chiw/bleached zone (0:3"wide) Subparallel foliation
688.5			Suprovallel foliation
689.0	80°		
694.1	75°		Chiw/bleached Zone(0.1" wide)
694.8	70°		(a' ((((((((((((((((((
695.4	70°	<i>.</i>	chi " " (narrow)
695.6	100		Supporally folio tion
696.L	40°		Chiw/brokencore, Sheared (4.0"wide) Chiw/bleachedzene (0.1"wide)
697.7	650		Chlw/bleachedzone(0.1"wide)
698.8	<u>85°</u>		ICH1
698.9	80°	V	Chlypniner bleaching
699.0	550	\checkmark	l chí
699.1	65°		
699.3	80°	<i></i>	Chi
699,5	470	V	ICH1
699.8	60° 75°	V	Ch/m/minor bleaching (0,6" wide)
700.0		و بودی برونی در استفاد اسونوان	
700.5	60°, 75°		2 Vuggy Fraets w/chl & bleached margine (40 "
200.7	650		Chi JJ
201.0	720	ana) ana maran - pungan ayo ng si umuna	ICh/
701.4	<u>60°</u> 85°	i/	Vugay, Chlw/bleached margins (Dis"wide)
703.0			Bleached Zong
704.3	700	r an antino calantito rate (1. 1. 1930)	Chlu/miner. bleaching
704.7	80°		ICh I
705,5	<u> 30°</u>	a ar fa gur er s gent g ild 'na Malan er stallen.	Ch
705.6	4.60	ang the second	lch1

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Fractures:

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Depth(ff)		Healed	1 Alteration and Intensity
705.8	400		1 ch/
706.5	<u>+ 0°</u> 90°		
706.6	650		
	50°		Vuggy Siliceous & chlzone (5:0" wide)
207.0			Thugy Scheenst Shi zone Di Wille
707.6	50°		- Ch-[
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	an a	n. Na sa an ang pangangang ang pangangangang	
		n anan atau tan ing ang ang ang ang ang ang ang ang ang a	
	ада анадаба била жайлар адаба бола сарабанска с болдон. Малар так била так так	per mana angen kitika na si se den si seben	
<u> </u>		د موجود دون بیونون ا دو میداند.	
	ana ana amin'ny sorana amin'ny sorana amin'ny sorana amin'ny sorana amin'ny sorana amin'ny sorana amin'ny sora		

756.4-4.0" wide, upper contact 31 LOWER CONTACTS 712.1-Streaked, 0.8" wide, @ 8° 771.2' 10 reg - 1 Childriftic Shear Fine-grained felsic zone @ 850 712.0, 752.0-1.0 "wide chloritic @ lower contact @ 650 Broken Core: 753,2-753,4' shear @ upper contact, 738.3-0.7" wide, lower Confact Irreg, Upper 770.0-0.75 wide Irneg. The mattes- 770.5-771.0 724.9' 730.5' 731.1-733.0' contact chloritic @ 80-2 contacts @ 670 approx 620 Siliceous Zenes: alle inclusionsi upper and HOLE NO. Description 650 -772.1' 60 Temp. All angles in the log are relative to the core axis. R.Q.D. (%) 92 001 001 64 86 96 70 Core Recovery (%) 001 100 001 001 001 001 001 Strat. Column 767 147 121 757 Note: $\begin{array}{c} \operatorname{Depth} \\ (++) \end{array}$ 121 717 - 260-730-740--720-957 750--011

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Depth(ff) Angle to Core	Heale	d Alteration and Intensity
708.1	62°		Ch1
708.5	50°		2 Chl fracts
708.9	35°		Minor chl
711.7	30°		
711.9	45°		
712.1	64°		
712.8	70°		ChI w/ bleached zone
714.2	70°		
714.7	85°		Vuggy (4.0"wide)
715.2	68°		
715.7	50°		- Chi
716.1	30°		Vuqqy, chloritic
-716.6			
717.7	27°	1	
717.8	38°		Chi
718.1	80°		
718.2	420		Ch (0, 2" wide)
718.4	55°		Ch/
718.8	20°	al an an Cau n agus a	Subparallel foliation
719.3		ال 1994 میں میں میں اور میں اور	Chl (0,9 "wide), vuqqy
720.1	870	and a second second	Chi (0,1 Widov, Vhidov
720.6	550		
722.4	87°		anna a a a a a a a a a a a a a a a a a
723.7	45°		Ch1 (0,2" wide)
726.3	70°		
726.5	70°		Chi w/bleached margins
127.0		· · · · ·	Hairline chloritic
727.3	Irregular 11 J	· · · · · · · · · · · · · · · · · · ·	
727.9	55°		Chl. fracture w/ bleached zone
728.7	53°		Narrow chl. Fractuce w/bleached zone
729.0	470		NUT UW LOTAL TYACTUCE W/ OLENCELOG SUP S
730,7	870	եւ շերգորները, կրեղել գրգուծ հատերին է է է է	Chl w/striations
731.1	60°	na na walanianya na nawatin	1/1 au al los tra
731.3	40°	n an ann i Almini I agus an inn a	Vuggy, chloritrc Chlzone (0.6" wide) waparalle Chairline chl. Fractsche Chl
131.5	Irregular	nauðurðu kundiga naskindi fölkur samarfur var m	CITER COLO WINE Waparane Materiae Chi, tracisine
31.7	60°	1	Vugay 9.12-chl-epid (3.0" wide)
7322	650		2 chl fracts
732.6	60°		10 - C.h. Im Flach S
733.9	55°	\checkmark	Chl
734.0	<u>45°</u>	Ž	Chl. Fracto(0.3" wide)
734.9	650	$\overline{\mathcal{V}}$	
73510	650	V	Chl. fract w/bleached margins

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Fractures:

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)epth(ft) [35.2]) Angle to Co 75°		
			Chl. Fract. w/ bleached margins
738.5	<u>65°</u>		Chl.
738.6	70°		ch
738.7	<u> 60° </u>		2 chl. fracts
739.14	70°	· · · · · ·	- <u>Ch</u> 1
739.6	70°		Ch(
39.7	80°	V	Chl.
741.3	<u>80°</u>		Chi Fract w/ bleached margins (0.3" wide)
741.5	7.5°	V	Une wige
741.6	B 0°	· · · · · · · · · · · · · · · · · · ·	11 11 11 11 11 (O.I. Wide)
741.6	75°		$\int t^{1} t(t) = t^{1} + t^{2}$
241.7	750	<i>✓</i>	11 11 11 11 11 (0.6"wide)
742.3	740		1 ch 1
142.5	770		Chi fractiw/ bleached margins (0,2"wide)
142.6	77°	V	(OIT WIDE)
142.7	700		" " " (0,1" wide)
743.0	750		1 ch1
743.1	750	- V	chl
743.4	750	1	Chi Fract, w/bleached margine (0,4" wide)
743.6	70°	V	Chi Fract w/bleached margins (0,1" wide)
743.9	700		1 Chl
744,0-	75°		3 parallel chl. fracts
744.2	120		
744.3	70°		Chl
744.7	80°		Chi fract, w/b/eached margins
7 45.4	750		Chifract. W/striations
145.5	55°		Ch1
45.7	37°		Minor iron axide stain
751.7	650	V	Chi fract w/ bleached margins(0:4" widy
752.2	350		Chi fract.
754.3	50°		Ch
54.7	50°	n 17 f. al al an ann an Air ann an	Chl. Fract w/bleached margins (0.5" wide), Iren
		nan Alan da ya kuta an sana an An	oxide stained
55,8	450		Chl. Fract. w/bleached margins
53.2	$-\frac{73}{75^{\circ}}$	1	Subhedral to enhedral gtz along fracts
57.1	 55°		Chi Fract. w/ bleached margins
59.0	270		Subparallel Foliation some bleaching
59.5	750		Chl-epid-972 (2.0" wide)
61.6	780		Qtz-chl. (2.0" wide)
62.0	50°		Chl.
66.5	40°		Sheared 9.tz Chl. Fract. W/bleached margins
70.7	<u></u> 55°		Loneared 9.16

Fractures:

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772.0	60°	<u> </u>	L Chl
772.1	55°	V	Chi
772.4	650		Ch1
773.3	570		Chi fract. w/striations Chi. Fract w/bleached zone (0.5" wide)
774.0	50°		Cill Fund Illocolog zone (05" de)
117.0			[Lh]. tract w/b/eached 20he [0,5 wille]
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3: siliceous margins w/ contacts @ Park qy and es w/ felsic streaks 15° crosscutting faln: 844.0-850.5 Vark gy. and es. inel. @ 80º 808.2' Siliceaus zone: 0,4 "wide @ 82" Mafix laclusions: 229.0'-2804 822.0' and some porphyrablasts 80-2 Foliation 35° @ 799. 170 @ 818' 790.6' 800.7' 820.3' 284.3 dissem matrics. 728.2, 282.0' HOLE NO. Description 812.0 Foliation \$15.01 815-19.992 Temp. (°C) All angles in the log are relative to the core axis. R.Q.D. (%) 100 001 001 98 96 98 Some water loss at 805.5 .Core Recovery (%) 001 100 001 00 00, 100 Strat. Column -118 827-837-807 787 797 Depth Note: 117 (F) -008 820-780-840-290 \$30 810

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Fractures:

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Depth(f) Angle to Core	Healed	Alteration and Intensity
777.1	37°		Ch1
771.7	45°		Chi
778.9	65°		Chi
718.7	50°		Chi
778.9	550	1	Chi
779.1	60°		Qtz-chl.
779,2	450	V	
779,3	600		/(//
779.4	35°		" " (0.6 "wide)
779.7	70°		t ti
729.8	450	,/	Qtz-chl
780.0	40°		Q+z-chi(0.2"wide)
780.6	60°		
780.8	26°	<u>/</u>	Bleached Zone (0.5 "wide)
785.0	350	\checkmark	Chl
785.2	60°		Ch1
289.7	90°		ChIw/miner bleaching
292.4	40°	- Kanara a	Chi W/ Miner Prekening
795.5		and the second survey of	Ch1 '
	<u> </u>		
802.8	85°	and a second second	Chi xpy smeared on Fract
804.0	<u> </u>	$\overline{\mathcal{V}}$	Several chi fracts, all but one healed
	and a second		Deveral cht practs, all bul ane nealed
804.9	35° top, 81° bottom	1997 - 1997 B. 1998 A. 1997 A.	Vuggy chl. zone
8055	84°		No. 11
806.4	07 85°		Njnorch(
807.9 7.9	680		Minorch(
808.5	68°	1987 - 2007 - 1987 -	Chl
	650	· · · · · · · · · · · · · · · · · · ·	Ch/
810.0		and with a second	Chi w/ bleached zone
810.1	65°		h W/ Dieachen cone
810.2			
810.6	50° 50°		Ch1 Ch1
810.8	200	n sanan casinti nasari ci a ci A	chi w/bleached zone (0.3" wide)
	450	/	Chi W premnen cone Uis Wige)
8/1.2	450		Ch
811.4		ana (, 44 - 47 a) - Anangoo Juji mga tananan	Ch (
811.6	60° 85°		Ch/
313.2	65°		Chl fract. w/striations
813.4			ch(
815,6	86°	V	Qtz-ch(.
315.7	450	·····	Ch1.
816.0	50°		Chlew/minor bleaching

Fractures:

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Depth(f1 8/6.(23°		Hairline chl. fract.
			Chi fracts w/some epid. (Zone 2.3" wide)
816.4	<u>60°, 75°</u>		Chi fracis w/some epia: cene ais wines
816,7	70° 18°		
817.6	18		Minor Iron exide
8127			2 haroline chl. fracts
818.9	32°		Subparallel foliation
819.2	<u> </u>		Chl'
819.5	25°		Subparalle (foliation
820.6	70°		3 chl. Fracts w/bleached margins (one@0.5 with
821.3	<u>20°</u>	· · · · · · · · · · · · · · · · · · ·	2 chl. Fracts w/bleached zone (O.6 "wide)
822.0	<u> 80°</u>		Chl. fract. w/bleached margins
822.8			
823.0	750		
823.1	750		
823.2	80°	V.	", " (0.4" wide)
823.6	50°	4	Hairline chl. fract.
\$23.7	56°	V	
823.8	55°	V	Chl. fract. zone (0,2" wide in part) Chl9+2 fract. zone (0.2" wide), Bleached zone +60.5" wide
824.0	70°		Chi-qt, Fract zone (0.2" wide), Bleached zone
			to 0.5" wide
824.1	550		Chl-gtz Fract. zonew/bleached margins (Cil'with
824.2	50°	V	Ch F
824.4	650	/	Chi Fract. W/bleached margins
824.6	30 °	1	Chi fract. w/bleached margins
825.0	80°		Q+z
825,3	650		Let a chil
825.5	80°	./	Chi fract. W/bleached margins (0.4"wide)
325.7	80°		
325.9	80°	a franciska se	
826.2	75°		
26.9	750	and a set of some of the	Chi
831.4	60°	1	Chl. Fract. Zone (0.2"wide)
31.7	650	nala, and Kasharaway d	Hairline ch (fract
	85°		CIL fact /// Cadza a (0.2" ida)
335.9	05		Chl. Fract. w/ bleached zone CO. 2"wide)
	2 		
	antelen aus alle antelen en antelen alle forman men ministration antelen antelen antelen antelen antelen antel	+	
1			

Matic inclusions 88 Contact -892.0, <u>94</u> andes inclusions , 881.0, 889.8 - 890.2 (Cen E 30, parallel te foliation 80-2 897.4' 898.3 - 898.2, 899.1 arth assimilated HOLE NO. -896.3 -888.2 Description 892.2' 887.4' Temp. (°C) All angles in the log are relative to the core axis. R.Q.D. (%) 100 100 001 94 98 98 98 Core Recovery (%) 100. 001 00/ 100 001 001 100 Strat. Column 857-1 -228 887-867-Depth (f+) Note: 897 847 100-- 028 890 860 880-850-840

Depth(f+) Angle to Core	Heale	d Alteration and Intensity
8 40.2	670		Chi Fract w/bleached margins
841.6	80°	V	Siliceous zone (0.1" wide)
842.2	600		
842.3	750	V	Chl. Fract w/bleached zone (0,2"wide)
842.5	80°	V	
842.6	80°		i' i' i " (o.s" wide)
842.7	80°		2" IL IL IL CO.3" wide)
843.1	80°	1	11 11 11 11 11 (O.2"wide]
843.4			
851.8	61°		Chl & py. smeared along fract.
853.8	45°		Minor iron oxide stain
854.4	Irregular		Intense epid - chl. alteration zone, Vugay,
- 854.8	J		contacts approx @90°.
855.5	80°		Hairline chi fract.
855.7	720		1(11 11
856.0	650		
856.1	750		Chi fract. w/bleachedmargin
856.2	65°		
865.2	45°		Chl. Fract. w/striations
869.5	85°		Minor epid. along bleached fract.
871.5	750		Chl. Fract. W/bleached zone (0,4" wide)
872.7	40°		Bleached zone
874.5	84°		Chl Fract. w/ striations
876.8	150		
877.3-	<u>65°</u>		Ch1. Fract. Zone w/bleached margin
877.5	······································		
877.6	75°		(1) 11 11 11 11 11 (0.3"wide)
877.7	85°	1	1 11 11 11 11 11 (O.2"wide)
877.8	80°	I V	11 11 11 11 (O.Z"wide)
878.0	70°	V	11 11 11 11 (0.1" wide)
878.2	.70°	11	" " " (0.5" wide)
880.6	150	-	Minor iran oxide
880.7	20°	V	Chi Fract W/small bleached Zone
885.1	60°		ch1
885.2	600		chi
880.9	10°		chi Fract w/small bleached zone
886.3	900		Chi Fract w/ striations & smeared pyrite
889.9	90° 85°		Hairline chl. fract.
890.0	85°		i (11 11
890.3	750		2 11 11
892.6	85°		Chi Fract w/striations (zone 3.0"wide)
893.4	60°		Hainline chi Fract.

Depth(f	+) Angle to Core	Healed	
893.5	6.0°	11	Hairline chl. fract.
895.6	650		9 hairline chl. fracts may not extend from inclusion into 212 dio.
896.3			inclusion into 9/2 die.
897.1	750		
897.3	75°		Hairline chl. Fract:
897.7	45°		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
897.9	65°		
898,6	60°		3 11 11 11
0 10,0		+	
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	an a		**************************************
· · · · · · · · · · · · · · · ·	a nagrana ana ana ang na na na ang na ang naganga	e and a constant of the constant of the	ана со со се се мите на сала сола која со со се из канализ дараковранија наказат воска избала са сала са со со Со со се се на мите на сала сола која со со со со се какализ дараковранија наказат со сала сала са со со со со с
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	يې مورو پېښې د د د د بې سره د د د د د د مېرو د مې د د د د د مېرو و مې د د د د	19 16-16 - 18 19 19 19 19 19 19 19	
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	HOLE NO. 80-2		Description	lactly assimilated matic inclusions 910-0-910.2 (equiquanular, and fine-grained 2925.5 939.5, 942.4, 942.9, 924.3, 949.6 - 951.2, 953.0, 959.7	Dk.gy. andes inclusion: 922.0-922.1: 220005 0.5" Wide @ 80°, 6.5" wide @ 45°, sharp contacts	95477 224.5: tewcoarse 95377 Siliceous Zones: 928.5-928.5 - sinallood to	9.25, Irreg. 9.72. Vein 1.25" 9 W/amatic inclusion @ 470 922.5-0.25 ggt 2 99y andes inclusion beddered by chl@60.	Dk.gy, andes, inclusion; little evidence of assimilation; 963.2-971.1- upper contact @ 10° a parallel Faliation,	lower contact irreg. Few Felsic Streaks Foliation 45° © 902': foliation poorly defined	Æ
		E	CC)		1-20-212-516					
\bigcirc		to the core axis.	к.ч. ^{и.} (%)	001	95	00/	6 8	9 8 .	001	
		a	COLE RECOVERY	001	100	100	001	001	00/	
	11 ocloss the	All augles in the Strat Column	1							
Ê		Note. Denth		- Loh 016	920	920	940	950	<u>- 476</u> 096	01.6

epth(ff)	Angle to Core		Alteration and Intensity
102.0	750		and the second
705.7	85°	V	chi fract. w/bleached margin (0.1 "wide)
707.8	850		
10.6	7 <i>8°</i>		Qtz-ch/ fract. w/ striations
715.0	350	1-1	Hair/ine chl tract
918,8	65°	n a real francis and the statement and at the	Chifract Wstriations
122.4	<u>45°</u>		
122.9	75°		Chl Zone (0.7" wide)
123,6	35°	V	Hairline chlzone
123.7	780		11 11 11
123,9	75°	V	11 (1 11
125.1	_70°	3 healed	4 chi fract w/gtz, bleached margins, possibly
725.9	700		4 chl fract w/gtz, bleached margins, possibly Epid.? an fract
126.0	70°		3 chl foract, w/bleached margins
26.2-	75°		3 chl. foract. w/bleached margins 7 chl. fract. w/bleached margins Clargest 3.0"w.
927.0	an gangang ang ang ang ang ang ang ang a		
127.6	850	/	Chi Fract. W/bleached margins
27.7	70°		Chi Fraet. " "
28,0	850		Ch1. fract. w/bleached margins Ch1. fraet. """"""""""""""""""""""""""""""""""""
28.7	75°		
729.1	700		Chi Fract. w/smeared py
129.2	· 80°	. /	" " wildleached margins
129.9	80°	V	" " w/bleached margins
130,5	750		
30.8	720		Hairline chl fract.
133.1	70°		Qtz-ch/ filled Fract.
34.4	75°		Hairline chl. fract. w/bleached margins
134.7	550		Chl. a calcite w/striations
35.5	55°		CII
35.9			Qt2. Vein out off by fract above (-01" wie
36.8	80°	V	chi Fract w/bleached margins
37.5	750		Chi fract wildowed Di
37.6	<u>65°</u>		Chi Evart where her manaine (0,1", who)
737.8	75°	1 //	Chi fract. w/abund. py. Chi fract. w/bleached margins (0,1"wide) "(0,5" wide)
737.9	750		
			Irreg. gtz vein (0,2" wide)
139.3	75°		Hairline chl fract. Irree.
142.8	87.0		Chifract ulstriction of mard or
943.6	-70°	++	Chi Fract w/striations, mod.py. Chi. Fract w/striations Chi-gtz Fract. w/py(0,2"wide)
144.0		+	Chl at Coact / 10 2" ida
146.4	71° 75°		CII fract w////
146.7	<u>77</u> °	+ Kanal	Chi fract w/bleached zone Qtz vein (approx. O.l."wide)

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+0 70° 70° 80° 80° 75° 75° 80° 75° 75°		Chi fraets w/b/eachedzone @ 80°; fraets@ Various orientations Chi fraet w/bleached margins """"""""""""""""""""""""""""""""""""
9.47.2 7 947.3 8 947.4 5 947.7 8 947.7 7 947.8 7 948.4 7 948.4 7 948.4 7 948.7 7 948.7 7 948.7 7 949.2 7 949.2 7 949.2 7 949.2 7 949.2 7 949.2 7 949.2 7 949.5 8 949.5 8 949.5 8 949.5 8 949.5 8 951.6 75 951.6 75 951.7 70 951.8 25 952.1 60 958.3 60 958.4 75 959.7 33 961.1 35 970.6 75	80° 80° 75° 75° 80° 75° 75°		Chi fraet w/ bleached margins
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	80° 80° 75° 75° 80° 75° 75°		11 11 11 11 11 3 12 11 12 11 11 12 11 12 11 11 13 12 11 12 11 14 11 11 11 14 1
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	80° 80° 75° 75° 80° 75°		3 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 11 Hairline chi fract
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	80° 75° 75° 80° 75° 75°		11 11 11 11 11 11 11 11 11 Hairline chi fract
947.8 7 948.4 9 948.6 9 948.7 7 948.7 7 948.7 7 949.2 7 949.2 7 949.3 7 949.3 7 949.5 8 949.9 2 950.4 4 950.4 4 950.4 4 951.6 7 951.7 7 951.8 2 951.8 2 951.8 2 951.8 2 955.6 7 955.6 7 958.3 60 958.4 7 958.4 7 959.7 33 961.1 35 967.3 38 970.6 75	75° 75° 80° 75° 75°		11 11 11 11 11 11 11 11 11 Hairline chi fract
948.4 948.6 9 948.6 9 9 948.6 9 9 948.7 7 7 948.9 9 9 949.1 7 7 949.2 7 9 949.3 7 7 949.5 8 9 949.5 8 9 949.5 8 9 949.5 8 9 950.4 4 9 951.5 70 70 951.7 70 70 951.8 2 9 951.7 70 60 951.8 2 9 951.8 2 9 954.7 60 7 958.4 9 50 958.4 33 9 967.3 38 38 720.6 75 50	75° 86° 75° 75°		Hairline chi fract
948.6 9 948.7 7 948.7 7 948.7 7 949.1 7 949.2 7 949.3 7 949.5 8 949.5 8 949.5 8 949.5 8 949.5 8 949.5 8 950.4 4 951.8 2 951.8 2 951.8 2 952.1 60 953.6 7 952.7 60 958.3 60 958.3 60 958.4 33 961.1 35 967.3 38 720.6 75	80° 75° 75°	V V	Hairline chi fract
948.7- 7 948.7- 7 948.9 7 949.1- 7 949.2 7 949.3 7 949.5 8 949.5 8 949.5 8 949.5 8 949.5 8 949.5 8 949.7 24 950.4 45 951.6 75 951.7 70 951.8 25 951.7 60 954.7 60 955.6 75 956.5 50 958.4 33 959.7 33 961.1 35° 961.1 35° 961.3 38 961.3 38 970.6 75°	75° 75°		1/1/1/1/1/ //
748.9 749.1- 7 949.2 7 949.3 7 949.3 7 949.3 7 949.5 8 949.5 8 949.5 8 949.5 8 949.5 8 949.5 8 950.4 45 951.5 75 951.7 70 951.8 25 951.8 25 951.8 25 954.7 60 955.6 75 956.5 50 958.3 60 958.4 33 959.7 33 961.1 35' 38.4 38 967.3 38 970.6 75'	750	· · · · · · · · · · · · · · · · · · ·	13 Chi tracts, w/ blocked marains
749.1- 7 949.2 7 949.3 7 949.5 8 949.7 8 949.7 8 949.9 2 950.4 4 950.4 4 950.4 7 951.6 7 951.7 7 951.8 2 951.8 2 951.8 2 951.8 2 951.8 2 951.8 2 953.6 7 954.7 60 955.6 50 958.3- 60 958.4 3 954.7 33 961.1 35 38 3 967.3 38 120.6 75			3 Chl. Fracts. w/ bleached margins
949.2 949.3 7. 949.5 8 949.9 2 950.4 950.4 951.6 75 951.7 70 951.8 2 951.7 70 951.8 2 951.7 70 951.7 70 955.6 758.3 60 958.4 958.5 50 758.3 60 958.4 959.7 33 961.1 35			
949.3 7. 949.5 8 949.9 2 950.4 45 951.6 75 951.7 70 951.8 25 951.7 60 951.8 25 952.1 60 953.6 75 956.5 50 958.3 60 958.4 9 959.7 33 961.1 35 967.3 38 720.6 75		-1/	
949.5 949.5 950.4 950.4 951.6 751.8 951.7 751.8 951.7 751.8 951.7 951.7 751.8 951.7 951.7 951.7 954.7 60 958.4 956.5 50 958.4 959.7 33 961.1 35 ⁴ 967.3 38 170.6 75 ⁴	(~	11 " " (0.7" wide)
949.9 24 950.4 49 950.4 49 951.6 79 951.7 76 951.8 25 951.8 25 952.1 60 952.1 60 952.6 75 956.5 50 958.3 60 958.4 9 958.4 9 959.7 33 961.1 35° 967.3 38 970.6 75°	<u></u>	V	() () () () () () () () () ()
949.9 2 950.4 4 950.4 4 951.6 7 951.7 70 951.7 70 951.7 70 951.8 2 951.8 2 951.8 2 951.8 2 954.7 60 954.7 60 955.6 7 956.5 50 958.4 9 959.7 33 961.1 35 961.7 38 961.7 38 970.6 75	· · · · · · · · · · · · · · · · · · ·		w/chl-py fract@75° but dips in opp, direc
950,4 45 951,6 79 951,7 70 751,8 25 751,8 25 751,7 60 758,4 60 758,4 60 758,4 60 758,4 60 759,7 33 761,1 35 767,3 38 720,6 75 75 75 75 75 75 75 75 75 75			Chi fracts w/bleached margins.
951.6 75 951.7 76 951.8 25 152.1 60 954.7 60 956.5 50 758.3 60 958.4 33 959.7 33 961.1 35° 167.3 38 170.6 75°		\checkmark	Qtz vein (0/2" wides
951.7 76 751.8 2 751.8 2 752.1 60 954.7 60 954.7 60 954.5 50 956.5 50 958.4 60 958.4 60 958.5 50 167.3 38 120.6 75°		مرد میرود رو د مومو درم می درد. م	Q+2-chl fractw/striations; some iron exides
751.8 2: 752.1 60 954.7 60 955.6 75 956.5 50 758.3 60 958.4 33 959.7 33 961.1 35° 767.3 38 720.6 75°		V	Chi. Fract. w/ bleached margins
152.1 60 954.7 60 955.6 75 956.5 50 158.3 60 958.4 33 959.7 33 961.1 35° 167.3 38 120.6 75°	0.0		
954.7 60 955.6 75 956.5 50 758.3 60 958.4 959.7 33 961.1 35 967.3 38 720.6 75	3.		Bleached zone
955.6 75 956.5 50 158.3 60 958.4 959.7 33 961.1 35 167.3 38 170.6 75			Chl-py-gtz zone
956.5 50 758.3 60 958.4 959.7 33 961.1 35 967.3 38 720.6 75			Hairline Ehl Fract
758.3-60 958.4 959.7 33 961.1 35 967.3 38 170.6 75			
958.4 959.7 33 961.1 35' 167.3 38 170.6 75'	,0		Chl. & Siliceous zone (1.5" wide)
959,7 33 761,1 35° 767,3 38 720,6 75°	<u>2°</u>	V	Several hairline chil. fracts
761.1 35° 167.3 38 170.6 75°		وراجعه المهرورية والمؤرر الموار	1. So a set of the second second second second s Second second s Second second se
761.1 35° 167.3 38 170.6 75°	3°	1	Chi Fract w/bleached zone w/severalotherin
167.3 <u>38</u> 170.6 75°			fracts
167.3 38 170.6 75°	0		Iron axide stain
70.6 750			
			Chlzene (0.4" wide
		<i>_</i>	Chi zone (0.4" wide) Chi fracts w/bleached zone (0.7" wide)
		4. 1.9.4 - 2. 1.1	
	······································		(a)
····			
		• #************************************	

-by chi. Fract. Æ Ped of kaolinitic Feldspirs-975D ·altin .0. of felsic partion foliated @400 throughout most of interval. Fine-grained weekly Faliaked gy 994.34 ewtelsicstreaks. -1019.5 and andes upper enic of tz. dig. w/upper centact 80-2 Dar Foliation poorly detine Foliation 35° @ 9581 <u>994.9</u> 2.400, (Few Felsic Streaks, Matic inclusions 10.24-4,1038.0 inclusion budered lower contact HOLE NO. 1.28 6, -975.01 Description Dk. 91 andes w assimilat 75.9 51426 1027-24.104 Temp. (⁰C) All angles in the log are relative to the core axis. R.Q.D. (%) 100 001 9.8 96 001 98 96 Core Recovery 001 00, 00, ,00 1.00 001 100 (%) Strat. Column -1.66 1027-987 1037 1001 2.101 974 Note: -000/ 980-10,20 -1030. 990 . 0101

Depth	Angle to Core	Healed	Alteration and Intensity
973.6	25°		Chi Fract w/bleachedmargins (0.2"wide),
			Chlepid in andes inclusion
974.2	750		Chl. (o.2" wide)
974.7	230		Parallel Foliation
975.3	65°		Irreg hairline chl fract.
975,5	80°		Chl. Fract. w/ bleached margins
975.7	80°		
975.3	85°	V	
975.9	20°		
976.1	850		
-976.2			Chi. Fract. w/bleached margins (0,2" wide)
976.3	38°	· · ·	Ct2-py-chl
977,6	20°		3 subparallel Fracts, miner silicitication
977.7	750	1	Chi Fract w/bleached margins
978.0	850	1	
978.5	750		i i i i i (0.5"wide)
979.0	820		ChI-py-otz
980.3	87° 45°	Onebealed	Chi-py-otz 2 chi fract w/bleachedmargins(87° fract-0.5
980.5 ·	550		Chi. Fract. w/ bleached margins (0.4" wide)
950.8	_ 50°		(1) (1) (1) (1) (1) (0.4) (wide)
980.9	90°	~	11 11 11 11 11 (O.8 "wide)
981.0	750.		Chi Fract w/py smeared along fract
982.5-	50° (Vugay 2000		Chi zone "/ ungqy fract. (4)5" wide)
982.9	78° (chi-epfrat)		
987.3	20°	6	Chl. fract. w/bleached margins
987.7	700	/	Hairline chl. fract.
983.0	250	V	Chil fract. w/bleached Zone (0.5" wide)
988.7	500		Hairline chil Fract
989.1	- 80°	<u> </u>	
989.3	<u>70°</u>		
989.9	75°		Chl Fract w/ bleached zone
990,4	750		
990.7	750		
990.9	420		2 parallel cht. Fracts
991.8	350		A second s
992.0	350	-	
992.2	850	1	Chl. zone (O.2" wide)
992.5	550	<u> </u>	2 hainline chl. Fracts
993:1	150		Minorirón oxide stain
996.0	800	V.	Chl. Frack W bleached zone
996.8	700	V	
997.1	350		Minor iron oxide stain

Depth	Angle to Core	неатес	Alteration and Intensity
998.2	23°		
998.7	200		
998.8	50°		
999.6	850		1641.
999.9	800	\checkmark	Chi. Fract. w/ bleached margins (0.4" wid
1000.7	30°	a the state of the	
1020.0	430		Ch(
1020.5	650	V	Chl. Fract. W bleached margins (0,2" wides
1021.0	30°		Chl. Fract. W/striations
1021.6	72°	\sim	Hairline chl. Fract.
1021.8	600		Chl. Fract. w/bleached margins
1024.1	·67°	i/	
1025.0	60°		Ch(
1025.7	150	\checkmark	Boundary of inclusion of chi Fracts
1025.6	70°	\checkmark	2 Hairline chl. Fracts.
1026.1	75°	V	Chi Fract w/ b/eached margins
10271	60°	 ✓ 	2 Hairline chil. fracts
1027.2	750		Chi fract. w/bleached margins
1027.6	450	\checkmark	Chl. Fract ('0.1" wide)
1027.8	453	\sim	Pod of gtz (0.3" wide) bordered by fract. theat
- LUN 1-0 pm-	numero de la c asa de la casa de la cas	F	cht. Fract-
1029.5	750	V	2 chl. Fracts
1030.0	75°	V	2 R (
1030.1	720		I clil fract w/ and py
1030.2-	650		chl. fract w/ mod py. 8 chl. Fracts, largest altered over 03"
1030.6			
1031.0	85°	. gen inne i neleggeger, ettige i n	Chl. Fract. Wabundapy
1031.6	400	, the months and the second	A Pit 14 . C. 2. The P. Summer of the St. Con St. Contraction through the Source on the second state of th
1031.7	720		CGL.
1031.8	770	· · · · · · · · · · · · · · · · · · ·	Qtz-chl-py filled Fract, w/bleachedzone
14.2			$\mathcal{C}(\mathcal{C})$
1031.9	68°	~	3 havidure chi Egacts
10.32.0	60°		Hairline chl. Fract
1032.2	420	V	 If WERK of A. S. Section of the Sectio
1032.3	520		
10327	750	<i>v</i>	ν του το
1033.0	750	v / 1	(t t) t
1033.1	600		0 + 2.
1034.1	20°	1/	chl fract. w/b/eachedzone
1034.2	75°		() (/ / / / / / / / / / / / / / / / /
1035.1	730		
1036,6	<u>63</u> °		2 chl. Fract. w/striations 2 chl. Fract. w/bleached margins

Fractures:

Depth	Angle to Core	Healed	Alteration and Intensity
1037.4	370	V (partly)	Chi sheared zone (0,3"wide)
1038.0	. 750		Hairling chl. Fract.
1004.2-			Numerous hairline chl. Fracts with few havin dips as low as 32° to core axis Minor iren oxide stain
1019.5	200 B.A.		dips as low as 32° to core axis
1006.1	250		Minor iren oxide stain
1004.3	80°		
1008.4	450		
1011.9	800		Chl.
1012.7	270		
1013.5	<u>30°</u>		
101815	30°		Parallel to felsic streaks
	ann - ann a feil a' chuir ann a bhair bhlionn a chuir a dhuadha ann a' chairteanna a' bhairteanna a' ann a ann		
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	and an and a second		
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h	a ang mananang kanang ang ang ang ang ang ang mang ang ang ang ang ang ang ang ang ang		n
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			ان المراجع می از می از می از می از می از می از می ایند. میرونیونیونیونیونیونیونیونیونیونیونیونیونیو
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Ok 94- and Es with little evidence chi- Epide in matrix inclusion @20° q irreg, l'éver contact W/ chl. r epid. @ 22° anygdules containing eld. 1062.6 - 1068.6, heginning a Ssimilation: 1081.9-1086.6 5.0"2012 1062.0-1063.0 028,5-10819-14ppercenter and ellipsoidal vesicles. Ŧ possibly a zerlitus Red gy and es. dyke (Mt. Cayley 12.2.3 Broken rock i 1062,6-106 8.6 25° @ 1091.6 ower contact 23° @ 1099.7 Small and esite inclusions: Chilled margins & some epid partlykoolinized Lew V Mafic zones due ta partizi 80-2 1054.8, Emargins, contains of assimilation. zone marked by 1059.0 1051.0 Uppercentact 1077.8 HOLE NO. calcite and Some Description Numerous Spherical 062.0' 10425 2.8.207 ··· 250 ONIC Temp. All angles in the log are relative to the core axis. R.Q.D. (%) 100 001 100 63 98 63 88 5 Core Recovery (%) 100 1001 001 001 99 98 99 00 Strat. Column -2601 -6601 2801 1067 1057 1010 1069 Note: Depth Lto/ +++, - 0701 -0601 - 0011 -0801 1040-1050

Fractures:

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Depth	Angle to Core	Healed	Alteration and Intensity
1039.1	<u> </u>		2 chl. Fracts w/ minor epid.
1039.2	30°		ICh1,
1039.3	44°		Chi. Fract. w/bleached margins.
1039.6	<u>50°</u>		Chl. Fract. w/mod py Chl. Fract. w/bleached margins
1039.8	750	1	Chl. Fract. w/bleached margins
1040.7		- North State State Programmer at SMTS	
1040.8	60°		
1.043,4	480		
10+3,5	52°,68°	68° healed	Chl. Fract, mainly healed (in zone)
1044.3	e de la companya de l	 	
1043.8	55°		Chil. tract. w/bleached margins
1045.1	60°	-	Chil. Fract. w/bleached margins Small bleached zene
1045.2	750	i.	2 chl Fracts. w/bleached zone
1045.4	350	V	
1045.8	80°	V	chl-epid w/bleachedzone(0.6" wide)
1046.0	80°	K	Chi-epid w/bleachedzone(0:6" wide) Chi_fract-w/bleachedzone
1046.1	20°	<u> </u>	Ch (
1046.2	75°	1	Chl-epid. (0,3" wide)
1046.3			Irreq. epid. zone
0+6.5	750	V	Chl-epid.
10-17.7	220		
1048.0	650	1	Chlw/bleachedmargins(0:3"wide) Chl. Fract. w/bleachedmargins
104812	20°		Chl. Fract. W/bleachedmargins
1048,4	50°	\checkmark	
1048.8	. 75°		2 chli-epid fracts; one is 0,2" wide.
048.8	50°		chlepid.
048.9	70°	V.	Hainling all fract
049.4		~	Ch1. fract. w/bleachied margins & other clay altr
1050.1	850		(013 'wide)
050.1	850	/	Hairline chl. Fract.
1050,5	720	\checkmark	Chl. Fract. (0,2"wide)
1050.9	600	~	Hairline chl. Fract.
10517	55°		chl. fract. w/bleached margins
1052.3	700		3" " (one is 0.3 wid
1052.4	650		10 11 11 11 (Or3" wide)
1053.1	680		Hairline chl. Fract.
1053,3	180		C61.
1053.5	400.		
1054.2	50°		chl. Fract. w/bleached margins
1054.7	90°		Chl. (over 2,5"), botryoidal carbonate, 972.
1055.5	6.20	~	Calcite
1055.7	700		chiw/striations

Fractures:

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Depth	Angle to Core	Healed	Alteration and Intensity
10 55.8	80'	1	Chlw/miner epid (0,7" wide)
1056.2	750	<u> </u>	Chl. Fract. Whileached margins Chl. Fract. "
1057.3	750		Chl. Fract. "" "
1058.8	750		2 11 11 11 11
1058.9	20,60- 800	<u></u>	3 hairline chl. fracts
1059.8		a sea is has the owner of the same of the second	2 chlzones
1060.6	<u> </u>	<u> </u>	Epid-chl
1060.7	25°		/1 //
1061.2	750		Chlepid. zone (3.5" wide)
1061.4			i i i i i r (Oil'wide)
1062.4	<u>75°</u>		Chlepid. zone (3.5" wide)
1063.5	650	· · · • · • · • · • · • · • · • · • · •	
1063.0-	70°, 80°, 50°, 65°		GchiFracts w/some bleached margins
1063.4	· · · · · · · · · · · · · · · · · · ·		
10647	350		
1065.1	70°	~	Chl. Zone (0,2" wide)
1065.5	750	- /	Chl. Fract. w/bleached margins
10658	650	<u>,</u>	Epid-chizone(0,7" wide)
101.1.5	750		Bleached zone
1066.6	840		Hainline chl. Fracts
1066.8	840	<u> </u>	11 56 57
1067.2-	800	1	4 chl. fracts w/ bleached margins
1067.4			
1067.9	25"		<u>Chl.</u>
1068.2	400		Chizone (1.0" wide)
1068.6	360		
1068.8	70°		Ch(
1069.0	340		Ch I
1069.1	440	<u> </u>	Hairline chl. Fracts
1069.2	50°		
1069.5			Chl. Fract. w/bleached margins
1069.6	200		2. ch/
1070.0	90°	- Varia	3 11 11 11 11 11 11
1070.6	90°	V	3 " " " "
1070.7	80°	1	2 1 11 11 11 11 11
1071.0	800		211 (1 (1 (1))
1071.6	800	i/	211 14 14 14
20717	800		2" 11 11 11 11 -1(016"wide+0.3"wide
1073.0	300	***********	
1073.3	810		Chi-epid. w/bleached margins (0,9"wide)
1074.0	80°		Chi. fractius/ "
1075.3	450		chl.

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Fractures:

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Depth	Angle to Core	Healed	Alteration and Intensity
1075.3	450		
1076.5	550		Chi Fract. w/striations
1077.0	\$0°		
1077.3	350		Chl. Fract.
1078.9	620		
1078.5-	50°		Numerous chle zones
1082.0			
1081.0	540		Chl. Fract. w/striations
1081.6	780		Chi. Il Il II.
1081.9	820		
1082.1	30°	<u> </u>	Chl. fract. w/bleached margins
1082.6	650		Chi-epid.
1082.8	200	 ✓ 	
1083.1	850	<u> </u>	chl. fracte w/bleached margins
083.3	70°	V	
1083.6	750	V	
1084.9	50°	1	Ch1-epid
085.1	60°	1	
108517		<	" (1.0" wide) w/dissem.py
0865	80°		5 hairline chl. Fracts
086.61	900		ChI-Siliceous zone, lower boundary w/
			healed chl-epid.
1087.2	850	<u> </u>	cht Fract w/bleached margins
1037.5	85°	<u> </u>	
1087.8	650	<u> </u>	
1088.0	85°	<u> </u>	Hairline chl Fract
1088.2	250		
1088.5	350	· · · · · · · · · · · · · · · · · · ·	Chl
1088.9	- <u>87</u> °		Chi Fract w/ striations, py
089.0	250		Chl. Fract. w/ bleached margins (0.4" wide)
1089.1	520	والمتعمد المحمية المحمود	Ch. Fract. w/striation's
1089.6	80°		Haicline chl Fract
1089.8	_80°		Chl. fract. w/ bleached margins
1090.0		-V	
1090.1	900	era han newaran Paha san itar ana ti safar	Chl
1090.8	30°		Mod. iron axide
1091.6	420		Hairline chl. Fract
1091.8	350		Epid
092.9	<u>55°</u>		Epid
098.0	400		
098.3	680	warana ang ga kana kana ka	
100.2	620	1	Chl, -epid (0,2"wide

Depth	Angle to Core	Healed	
1100.5	67 °		ChI-epid (0,2"wide)
1101.5	70°		Hairlinechl Fract.
1101.6	500	1	" " w/calcite
1101.7	550		Irrea atz. filled. fract.
1102.3	100-150		Irreg. g. t2-epid-clay-chl Filled fract, pavallels foliation
	anna an faraild an margarla dha ar i an i		novallels foliation
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•					HOLE NO. 80-2
Note:	All angles in th	angles in the log are relative to	to the core axis.		
Depth	Strat. Column	Core Recovery (%)	R.Q.D. (%)	Temp. (^O C)	Description
- 2011					0k.gy. and es inclusions w/
		100	ç1 4		-little evidence of assimilation: 1122:5-1125:1-epid. chl. atta Upper contact contact @ 60° lower Contact irreg.
11.20		100	84	1117-25.485	Ediation 30° Clifs-portial
1130		0 <i>Q</i> /	2		assimilation: 11074, 1110.3, 1113.3, 1119.5-1120.5, 1121.5, 1132.0, 1141.0, 1153.0, -1154.0' 1154.5, 1157.9, 1158.8, 116.0.2' 1163.0, 1164.5, 116.6.6,
0411 411		77 Lost Cone @1140.0'	4		Pense chl-sil, - epid Zene afterandes (ie. gueenstone) 11 14.8 -1115.1' & 70° 1115.2-1118.4' @ 70° 1139.1'-1140.4 @ 80°
1150		100	.95		Wte Kaphnized feld datting 9 42. dip . 1120 5-113515: upper contact 1130 5-113515: upper contact
-1 c))		001	95		1138,5-1148,5 1168,0-1188,5 Broken rock: 11064-1106,3,1123,1 1125,0,1134,5-1135,2,1139,6- 1140,2,1155,0 511: cous Zone: 1144,9 -1158,9 Upper contact @60° w/chl. 20neg

Fractures:

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Depth	Angle to Core	Heale	d Alteration and Intensity
1106.0	<u> </u>		C6.
1108.0	850		ll ll
1108.5	850		Hairline chl-calcite Fracts
1110.4	80°	<u> </u>	2 Haidline chl. Fracts
1110.8	80°	1	Hairline chl. fract.
1110.8	90°	L.	Chi fracti w/bleached margins
111.1	80°		
1111.4	<u>85°</u>		Chi-epid Gract w/ bleached margins
1111.8	850	1	
1112.4	72°	· /	Chl. Fract_w/bleached margins
1112.6	77°	1	
11127	700	\checkmark	Hairline chl. Fract.
1113.0	720		Chi fract w/bleached margins
1114.0	78°	V	
1114.1	630	V	$\frac{1}{1} \left(\frac{1}{1} \right) = \frac{1}{1} \left(\frac{1}{1} \right) \left(\frac{1}{1}$
1115.4	450	V	Hairline chl. fract
1115.9	_60°		ICh1.
1116.3	48°	والمرور والمرور والمرور والمرور	Chl
1116.4	680	the second second sector of the second	11
1117.2	650		Hairline chl. Fract.
1117.6	60°		Epid-chl w/adjacent pod of 212
1117.7	60°	1	Hairline chil Fract
1117.9	45°		Minor iron oxide stain
1113.1	620		ch1,
1118.1	<u> 35° </u>		<u>c61</u>
1118.4	250 .	ب الرابغ منهم در الارد الورد	
1120.7	8.00		2 chl. fracts w/bleached margine (2.5" wide
1120.8	850	/	
1121.0	650		Chl-epid
1121.1	85°	V	
11212	850	V	Chi Fract. w/bleached margins
1/2/3	850		
1123.0	200	anan sama sa su	Chl, irreg. fract
1122.8-4	pper 60° Lower 37°		Chl zone
1123.5	1 1		
1124.0	330		C61.
1124.9	800		Small irreg, Nugay 2000
1125.1	······		chl. zone w/ irreg. ingg y zone containing euheda
-11253			to subhedrat gtz and epid partly filling vag
			(O.L. wide)
1125,4	-70°		Epid-chl Fract. w/miner unas
1125.6	600	V	Epid-chl Fract. (0.5" wide)

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Depth	Angle to Core	Healed	Alteration and Intensity
1125.8	20°		Epid
1125.8	\$0°		Epid
11.26.1	70°	<u> </u>	Eoid -otz - chl. Uugovin part
1126.2			Qt2-chl, partly bleached (1.0" wide) Qt2-chl, (3.0" wide), irreg.
1126.8	700		0+2- chl (3.0" wide), 1rreq.
1127.2	650	n Der Schnelsen (Pros. 2 Mager 1994)	I Chi-epid.
11223-	65° to 85°		Namerous chl-epid bleached zones in andes.
1130.0			inclusions.
1128,5	670		Chi
1130.1	60°	·	Chi fract. bordered by gtz, gepid.
1130.5	50°		
1130.9	550		C6L
1131.3	55°		
1131.8	43°	~	Ch1.
113215	62°		
1132.8	650		
1:33.0	65°	\sim	ch1. Fract. w/bleachedmargins
1133.9	35°	· · · ·	
1/34.3	50	بمحافرتهم رجا المهول مرحم معارك	
1133.2	330	\checkmark	Hairline chl. Fract.
1135.4	700	and in the	
1136.5	700		chl-epid. Fract w/b/eached margins
1136.7	20°	/	11 11 11 11 11 11 11 11 11 11 11 11 11
1136.8	20°	r - Million Taglan Arithman an an a shakar	
1137.6	700	V	Chi. Fract. w/ bleached margins
1137.7	770	V	Hairling chl. fract.
1138.0	25° to 10°		Irreguiren exide stained, vugey in part
1138.7	650	. V	2 bleached zones
1138.9	800	ann bh' sean i	2 chl fracts w/py
1138.9			Chlepid
139.0	70°	· #2 ***# 2 · **	Chi Fractiw/py
1/39.1	203	······	Qtz-epid-chl-py Fract, w/+ pavallel bleache
and and a state of the second	na ana amin' ana ana ana ana ana ana ana ana ana a	n n million an an a'	Zenes
1143.4	700		Intense epid - chl.altn
11+3.5	850		Selicerus 2000 (O. (" Wide)
/143.8	20°	1	Seliceeus zone (O.1" wide) " (O.1" wide)
139.9			Hainline chl. Fracts @ various angles
-11+0.0			tente to to main international to be and a low and the trank it wilder to be the the to be the to be a second from the second and the to be a second of the second and the second a
11 44.1	22°		
1144.6	60°		chl
1144,7	700		
145.7	100		

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Fractures:

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Depth	Angle to Core	Healed	
1146.1	<u>70°</u>		Chl. Fract. w/bleached margins (0.4"wide)
1147.4	75°		Ch1 interest
1148.3	600		chi Fract. w/bleached margins
11+8.8	70°		Hairline chl. Fract.
1148.8	650	V	Chi-epid Fract
1149.1	650		Hairline chile Fract
1149.4	60°		Epid-chl fract w/bleached margins
11-19.6	750		2 chl. Fraets w/ bleached margins
11-19.9	80°, 35°		12
1150.3	75°, 65°		2 frait " _ i _ i _ i @75°, harrineshla/p)
1151.0	900		Minor inon axide 7@650
1151.8	60°	/	Hairline chl. Fract w/py
1153.0	800	V	
1154,4	50"		Epid.
115.7.7		1	Ironoxide stained ? w/epid. (0.3" wide)
1155.8	800		Chi Fract w/bleached margins
1157.3	600	/	10 11 11 11 Cois'wide
1159.3	500	4	11 11 11 11 (0.4" wide)
1159.7	500	1	11 11 11 11 11 (Di3'wide)
1160.9	820		
1161.6	350		
11622	700		
1163.5	600	\checkmark	3 chl. Fract. w/bleached margins
1/63.8	80°	\checkmark	5 11 11 11 11 11 11
1164.1	250	\checkmark	Epid-chi w/bleached margins
1167.3	750	1	Epid-
116A.A	850		4 small chl. Fracts w/bleached Zone
1164,5	750		3chl-epid-qtz, alto zone to 0.5" wide
1164.6	~ 900		Irreg. gtz Filled (0.5" wide)
1165.6	80°	~	5chl-epid. Fracts
1165.6	80°		2 chl fracts
116517	600		Chl
11.62.5	700	·V	Chi Fract w/ bleached margins; chizone to 1168.0'
1168.0	80°		Chi-epid-9tz zone (0.4" wide)
1168.5	600		Siliceous Zone (0.5" wide)
11680-	750	/	Small chi fracts w/ bleached zones are
1163,5			- nu in evous
1168.7	80°		2 hlyached Zones
1168.8	5504650		2 chl fracts w/b/eached marans
1163.9	75°		and the second of the factor that for the for the second and the factor of the back of the
1171.0	800	······································	Intense chl-epid (1:75" wide)
	9,3 55° 66°,820 50°		Chl. Fract w/bleached margins
1169.7	5001 - 1		Chitract. and several hairline chi fract.

Note: Al Note: Al Depth St //207- //207- //2/7-	All angles in th Strat. Column	All angles in the log are relative to Strat. Column Core Recovery (2) 700 700 700	to the core axis. R.Q.D. $\begin{pmatrix} R.Q.D.\\ (z)\\ (z)\\ (z)\\ (z)\\ (z)\\ (z)\\ (z)\\ (z)$	Temp. (0 ^C)	HOLE NO. <u>80-2</u> HOLE NO. <u>80-2</u> Description Mades inclusians w/little assienilations 12294-12318: uppercontact assienilations 12394-12318: uppercontact (wher cantact @ 80° 1179.5 - 1180.2' uppercontact @ 75° lewer contact @ 80° 1179.5' - 1180.2' upper contact @ 45° lewer contact @ 90° 1192.0' - 1192.0' upper contact (a to an it is ed inclusions: 1192.0' - 1192.0' upper contact 1192.0' 1197.5' 1197.5' 1197.0' 1203.3' 2005.6' 121.3.3' 1222.1' W te . Kaclinized Feld. in Sand front 11201-1173.5' 1203.3' 2005.6' 121.3.3' 1222.5' 1223.3' 2005.6' 121.3' 1220.1' 233.2' 1233.2' 1220.1' 233.2' 1233.3' 1220.1' 233.2' 1233.3' 1220.1' 233.3' 1220.5' 1220.1' 233.3' 1220.5' 1220.1' 233.3' 1220.5' 1220.1' 233.3' 1220.5' 1220.1' 233.3' 1220.1' 233.3' 1220.5' 1220.1' 233.3' 1220.1' 233.3' 1220.1'' 233.3' 1220.1'' 233.3' 1220.1'' 233.3''' 233.3'''''''''''''''''''''''
1227-		00/	00/		
		00%	0 0 2		E7

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Fractures:

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Alteration and Intensity	Healed	Angle to Core	Depth
2 chl fracts w/bleached margins (0.2" wide		<u> </u>	1170.1
2 chl fracts w/bleached margins (0,2" wide 2 '' '' (one is 0,2" wi	V	50°,65°	11704
		180	1170.6
Chi and bleached zone w/epid, Py.	<u> </u>	80°-85°	1170.6-
		۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰	1171.0
Chl. Fract w/parallel bleached zones	V	700	1171.3
in the the Constant of the second sec	V	720	1171.4
(° to to to to h	K	68°	1171.9
Chl-epid, Fract. w/ bleached marging (2.5"wi		70°	1172.1
		750	1172.4
5chl Fracts w/ bleached morgins (0.1"=05"wi	/	70°	1172.5
			1172.9
		200	11.27.3
Siliceous zone (< 0,1" wide)	V	670	11782
Chl. Fract. w/bleached margins (0.2" wide	V	750	1178,5
		80°	1178.6
Faint chl fract w/bleached margins 3 fracts w/narrew zanes of epid tchl		750	1179.9
3 fracts w/narrow zenes of spid & chl		750	1180.4
		800	118013
Chl-atz-epid and some broken rk (0.4"		30°-35°	1130.5-
chi Fract w/bleached Zone	V	700	1181.1
Hairline chi track Chi-qtz-epid and seme broken rk. (0.4" Chi Fract w/bleached zone	:/	720	1181.3
Intense chi-epid-gtz-py w/gradational contacts		High angle	1181.6-
contacts		× 0-	1182.3
Bleachedzones w/epid,	V	650700	1182.5
Chi Fract u/bleached zone	~ ~	<u>65°70°</u> 70°	1183.5
IN CC CC CC		720	1183.9
Mod chl & py smeared along fract. Mod.chl-epid (0.4"wide)		70°	1185.0
Mod.chl-epid (0.4"wide)	1	250	1187.0
Bleached zone w/ miner epid		680	1187.7
ch/		. 820	1187.9
Weak epid zone (0.3" wide)		- 65°	1/88.0
" " (0,1" wide)	<u> </u>	750	1188.1
Bleachedzone	/	68°	1/88.2
Weak 11 11		650	1188.3
$1 \times 1(-\epsilon)$		85-0	1188.4
Weak ppid-chilzone (0,4"wide)		70°	1188.9
Bleached zone w/weak epid (Di2"wide)	V	650	189.2
Ch1		<u>- 70°</u>	189.6
Ch1-py		820	1191.3
chlw/striations		820	1192.0
ri i	1	800	192.6

Fractures:

Depth	Angle to Core	Healed	Alteration and Intensity
1193.51	250		Calcite-chl-epid
1193.2	450		
1193.9			
1194.3	<u>50°</u>		Ch1-py
1195.7	850		1. 11
11987	680	· · · · · · · · · · · · · · · · · · ·	e de la desta de la compositiva de la c
1199,7	<u>85°</u>	1	chi fract. w/ bleached margin
1201.6	850	L'	and the second
1203.9	680		1 11 11 11 11 (0.4"wide) w/
			I ron oxide stain and epid.
1204.1	650		Miner Irenoxide stain I clay
1205.2	62°		Minor clay atty
1205.3	65° 70°	<u> </u>	Clay-epid?, miner bleaching
1205.8	770	<u> </u>	4 bleached fracts
1,205.9	80°	<u> </u>	+chl. Fracts w/epid; some hairline tracts
1206.1	60°		
1206.2			2 chi fracts w/b/eached zones (each Q.2" wide
1206.6	80°		Chi Fract w/epid=bleached (1.0") Chi-epid (0.5" wide)
12020	<u>76°</u>	<	Chi-epid (0.5" wide)
120815	800	····· / · ···	chi-epid-py (2.5" wide)
1207.4	55°	<u>/</u>	[Ch]
1207.5	55°		It is a second and the second s
1,202.5	<u>85°</u>		Hairline chl. Fract. w/bleached zone
1207.6	85°	/	
1209.9	85°	/	
1210.2	80°	- K	ic (* (*) (° " (0,3" wid
1210.3	85°		1° 1° (0,4"wid
121017	-90°	ا مریدیو می دوده بیدوور	Extensive kaplin felds. (2:0" wide)
1211.5	<u>70°</u>		chl fract w/ striations,
1211:6	87°	· · · · · · · · · · · · · · · · · · ·	chi Frast. w/bleache dmargins (0.5" wide)
1212.7	870		Epid-chizone w/epid_ptz=py fract Chi fracts w/bleached margins except for 55% for
1212.8 6	0°, 55°, 75°, 80° 82°	a na historia da da	Chitracts w/bleached margins except tor 55 to
		د مردد میدید (۲۰۰۰ میراند) د	
1213.5	82°		RChI fractw/bleached margins (0,2"wide)
1214.9	80°	<u> </u>	
1215.0	<u> </u>		2" " " " (Co.3" wide Pa
12/8.1	850	/	chl fract w/ "
1218,4	820		Hainline chil Fract
1219.1	750-800		Chl-epidw/subedia/epid, calcite(chalky),
1220.0	6.00		cht-epid fract (0,7 "wide)
1222.4	~ 900		Chi-epid fract (0,7 wide)
1222.5	320	/	Bleached zone whick iconoxide stain

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Depth	Angle to Core	Healed	
1222.9	55°	1 V	2 Hairline chl Fracts
1229,6	7.0°		3 epid-chl Fracts w/ some bleaching
1229.8	. 70°	V	tel a ser en
1229.9	700		2 11 11 11 11 11 11 11
230.2	70°		
230.3	60°		
1230.4	60°		2 epid-chl fracts w/some bleaching
230,7	60°	~	2 "" " " " " " (0. fand 0.2"
230.8	70°	V	li li li li
1230.9	<u> </u>	1.1	it is it
1231.1	70°		
1231.2	700	1	2 " " " " " " " " (Oiz" and O.z" wi
231.3	600		Epid-chlaltn (0,3" wide)
1231.4	650		A hairline chi. fracts
1231,6	820		Piscontinuous qtz, vein (20,1" wide) bordered
			by epid-ch(/zone (0,7" wide)
1231.8	80°	1	Hairline chi fract-
	n an	n adama na siya Medaning .	ала со от на монти на портира са из соста и со слова за решение дершение насти насти насти насти насти насти на И
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	and the second	· · · · · · · · · · · · · · · · · · ·	
	and a second	an, 1946 (A. 1966) and 1966 (A. 1967)	
	ang ana ang ang ang ang ang ang ang ang	n na shekara na shekara tara tara tara	- 1. 3. A 1972 AND
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	ana para tanàna mandritra dia kaominina dia mampika minina minina mandritra dia dia dia dia dia dia dia dia dia N		
	nangantanan mentuka kantu - dung juga tari tari tu ing kantuk kang dalamat kang dalamat sebah sebah sebah seba		
		+	
		+	
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HOLE NO. $80-2$	3.D.Temp.Description%)(°c)	Whitek - diori 1249, 1265,3	1279.2' (confact @ 8. 1279.8'-1280.5' 282.0'-1292. 1293.6'-1304.2' 12472' 293.6'-1304.2' 12472' wide @ 55° w/chl)	Gimphikales coarser from apprax 1250 Siliceous Zones: 12413: 3.0" wide @ 70°	1342.5:0.1" wide @ 70° 1292.3:0.1" wide @ 45°gtzvein 1395.6 @ 45°gtzvein Foliation 30°@ 1243.0	Felsic intecual 12430 w/ distinct upper contact 030 lower contact indistinct	of assimilation. 1275.5-12764 Upper contact irregular @ 30° lower contact @ 82° w/ch/yepid 9 tz alto Party assimilated inclusions.
relative to the core axis.	Core Recovery R.Q.D. (2) (2)	100/ 100/	00,00,	00/ 00/	00/ 00/	0 0 0	00 98
All angles in the log are relative	Strat. Column Core Re (2)	100					
Note:	$\frac{\text{Depth}}{(f+)} - \frac{1}{2}$	1240 1241-	1250 1241	1260	1,270	1280	-1290 -1290

Depth	Angle to Core	Healed	Alteration and Intensity
1237.3	370		Qtz-chl-epid
1243.4	<u>85°</u>		Chi fract, w/bleached zone (1.0" wide)
1249.6	520		Smeared chl-clay-py.
1249.9	200		Epid-ch/ Car2" wide)
1250.7	70,75,75,60°	V	4 ch1 fraets w/ Reached Zones (largest 0.2"wide
1252.1	850	· · · ·	Otz-epid-chl
1252.1	60°	/	chtw/bleached margins
1252.1	750	V	Chl-epid
1252.4	750	\checkmark	Py-gtz-epid-chl
1252.8	50°		ly-gtz-epid-chl Hairline chl Fract
1253.0	45°		Minor Iron stain
1253.1			Irreg chl fraet
1253.9	20°	/	2 breached Zones
1254.0	70°	\checkmark	
1254,0		1	Hairline chl fract.
1255.0	730		Smeared py-chl
12566	50°		ChIw/striations
1257.3	550	/	Hairline chl fract.
1257.5	550	V	Bleached zone
1257.6	62°		
1258.1	710	<u> </u>	Hairline chil fract.
1258.8	37°	~	
1259,4-	45°	1	2 11 11 11
1259.7-	40°	/	11 11 w/otz, chlandminur iron oxid
1259.9			
1260.2	750		chlw/mod.px.
1260.2	+00	/	Otz Noin (ZO.1" wide)
1260.8	45°		Otz vein (0.1" wide) w/bleached margin over 1.7" wide, miner iran exide, haidline chl fract
			1.7" wide miner iron exide baiding chl frag
12622	82°	n na landar 1891 y Romana	Chlwfinithor F. f.
1262.6	85°		Ch
1262.2			chiw/striations
1263.5	- 28°	 a set o en appendia a seu el set en al 	chi
12655	Irreg.		Chi Fract w/ bleached margins, minor iree
1266.0	820		Oxide epid 2 narrew bleached zones
1266.3			2 bleached zones (dip in apposite directions)
1266.4	<u>80°, 80°</u> 35°		Chi-epid (0,3" wide)
1266.4-			
1.266.3	-l-r-peg-		Chi-epid
1266.8	850		Cht-ep:d-gt:-px
12668	62°		Ch[

Depth	Angle to Core	Heale	ed Alteration and Intensity
1272.1	80°		Narrow bleached zone w/hairline chl fract.
1272.3	750		
12224	820		Chi-epidw/bleachedzone (O.S"wide)
e de seg	- 1.2		이 물 수가 누구 사람이 많이 가 같은 바람에 가지 않아 있는 것을 하는 것이 가지 않는 것을 수 없을 것을 수 없다.
1272.6	840		Epid-chlw/some bleaching (1.6"wide) Chl. fract.w/bleached margin@approx90°(0.9"wide Chl Eract
12728	750	V	Chi fractiv/bleached margin@approx 90° (0.9" wide
1273.0	80°		Ch(fract,
1273.2	680		Hairline chl Fract w/b/eachedmargin(Dib"win
273.3	75°		Hairline chl Fract, w/bleachedmargin(Oib"min Chl.fract. w/ongd.px: (offsets fract. above)
46	المحمد المراجع المحمد المح المحمد المحمد	-	
1273.5	750		Chi-epid fract w/ bleached margins (1.5" wide)
1223 2	3.6	~	11 11 Fract- w/ pleached margins (0,7"wide)
12742	870	~	Hairline chil fract w/bleached margins (0,7"unde)
1274.4	770		
1274.5	80°	V	, i (i i i i i i i i i i i i i i i i i i
1.275.6	35° to 60°	·V	+ hairline chifracts in andes, w/bleached
		the second s	margins in 2 tz. dia
275.8	450	1	Hairline chl Fract
276.0	750	~	Hairline chi Fraction andes w/bleachedmargens
1,276.1	580		Narrow irreg. py zone
1276.2	<u> 70°</u>		Qtz-ch-epid w/medpy
1276.8	750	1	Minor blenched fold
1.276.9	75°		Epid minor chl
1277.0	740		Chi '
1277.3	850		Narrawbleached zone
1278.1	90°		Chl-cpid. Zone u/bleached margins (0,2" wie (1,8" wide
1278.4	800	V	in in in in in in it Clistiwide
1279.0	70° (fract,)	, K	11 11 11 11 11 11 11 11.6 Wide
			bleachedmargins @ 90°
1279.5		V	Chl-epidzone w/ "" " (100 mide
2801	25° (Fract.)	V	11 11 11 11 11 11 11 11 11 11 11 11 11
1			bleached margins @90°
280.3	750	V	Qtz-epid-chl
282,3	800	· · · · · · · · · · · · · · · · · · ·	Epid-chl. w/ abund. pv
1235.1	750		Chi Fract. w/ bleached mangins (1.6" wide)
288.0	650		chi Fract.
1289.9	750	V	Chil fract. w/b/eached margins (0,5" wide).
1291.2	700		1 11 11 11 11 11 (0.4" wide)
1282.2	300	<u> </u>	Chi Fract.
1282.2	850	/	Q + z - py - ch/
1282.2	55°		Chifract. w/ bleached margins (C.S. wide)

Depth	Angle to Core		Alteration and Intensity
12923	320		Qtz-ch1
1995.0	300		Qtz-kaolinized Feld-chl Epid-chl-py w/hleached feld zone over 1.0"wd
1295.6	550		At Voin discontinuous
1	50°	/	At kapping fold-off
1296.1			prz-naoriniczeu reia-chi
1300,7	/_>		Epia-chi-py W/ pleached tela Zone DUEL 110 Wa
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<u> </u>			an a

HOLE NO. 80-2		Description	White Kaolinized Feld in donts -1305 5 (cao"wide) 1303.9- 1324.5, 1325.6, 1326.1-1345.0 1321.9 -13678' Maficinclusions partly	a ssimilated: 1302.6 1324.2 1397.4-1399.4 14200 1421.0 1423.8 Andes. inclusion: 1357.6': upper contact @ 25° lower contact @ 25°	partly faultedon chl Fract Chealed) @ 55°; inclusion 5.0 "wide Mafir inclusions: 14270-14274, 129.0 "	Felsic Zones: 133618-40 "wide @25, faliated parallel contact 1329,8-0,2" wide	13 99.3-1400.4 - Upper contact @ 60°, Lower contact@90°gradatimal. 1403.5 (23" gone@60"), 1404.8 (@40°,0.1") 1401.3 (20" zone@40"), 1407.7 (@30")	[Felsic 2000] [4 18. A lirrey] 13. 1. glurrey] [egmatitic Zones-1362.0 Felsic Zones: 1421.4 (12°, parallel Ealiation), 1390.1. (Silireous & felsic 2000)
•		Temp. (°C)			17/1 ~ - 1701			
• • •	to the core axis.	R.Q.D. (%)	00/	61	100	100	47	2C
	in the log are relative to	Core Recovery (%)	700	007	007	89	007	001
	All angles in th	Strat. Column						
	Note:	Depth	1310	1320	1330	1340 -2451	1350	/360

Depth	Angle to Core	Healed	Alteration and Intensity
1302.4	75°		Inreg. chl. fract,
1302.6	80°	V	Qtz-py-chl fract offset by fract below. Vuggy fract w/ Iron oxide stain
13025	10°		Vugay fract. w/ Iron oxide stain
1303.7	70°		C67
1306.3	78°	·	Chl Fract w/striations
1313.5	<u>78°</u>	V	Chl Fract.
1315.4	<u>83°</u>	- V	Qtz-ch/w/minorpy & Ironoxide stain (zone 2.5
1315.4	450	K	
1315.6	70°		Chi Fract w/bleached margins (0,2"wide)
1315.7	70°		(Un Wide)
1316.3	650	/	(0.7"wide)
1316.9	18°		Broken rk. w/abund. claya/tn
1320,4	740		chlw/striations
1324,5	50°		Chl Eract w/0.25"gtzvein
	in the second	n an	
13.26.4	650	V	Hairline chl. Fract. w/bleached Zone (O.1 'wide
1327.1	<u> </u>	V	Py-chlvein
13 31.7-	50°	· · · · · · · · · · · · · · · · · · ·	Intense epid-9tz-py zone (6.5" wide) bordered
1332,5	· · · · · · · · · · · · · · · · · · ·	-	by chl-clay alth w/gradational boundaries.
13329	50°		Ofz-clayalty.
13370	270		Intense py w/ 9 tz. vein (0.4" wide)
1338.8	68°	V	Qt2-py zone (0.1 "wide)
1340.1	750	V	Hairline chl Fract w/py
1340.2	70°	/	ic ic ic'd
1343.0	45°		Chl-epid fract (0,5"wide)
1346.1	750		Ch1
1346,3	770	•	Hairline chlfract
1354.3	85°		Chl-clay altn.
1358.5	350	V	2 fracts in inclusion w/numerous parallel
1359.4	50°		hairling Fracts subparallel boundary
	والمراجع والمراجع والمراجع والمراجع والمراجع والمحموم	one to state services.	Chl-clay altn
1360.3	30°	a nan analyna ar en n	Chl
1360.4	75°	- V	Irreg chi fract.
1360.5	70°	\checkmark	Chl-epid-qtzfract
1360.6	52°	V.	H = H + H
1360.7	200	×	2" " " (irreg.)
1360.9	78°		With numerous other chi bairline fracts.
1361.2	3°		Vuqqy qtz filled Fract (- 0.1" wide)
1363,3	110	V	Nº 11 (20,1" Wide)
1363.9	700		Epid - calcite Fracts
1365.1	830		Épid Qtz-ch1?
1365.3	75°		Qtz-ch1?

HOLE NO. 80-2		Description	Pegmatitic Zones: 1378.1' 1328.4' (amph ta 2.5") 1380.2' 1380.2' 1381.3'	More Felsic Zones: 1368.3-1369.6 (ill-defined	13817-1382.21 (upper contact Q	Contacts gradational 20° Uppercontact pegmatiticulamp. 1276.5 - Small pod. 1381.5 - Upper contact @350	- and parallel foliation - Lowercontact@60° - W/9tz-epicl-chl 1384.01-Upper contact@	1382.8'-1383:1 - cantaction@15°. (Apper contact @ 90° Lower contact @ 35° 1386.3-1386.9 - Convercentact 90°	2 200 82, 10 200 82, 10 200 82, 10 200 82, 10 200 200 200 200 200 200 200 200 200	1381.5' @ 10°-1.7" 9t2. U.e.n w/lower contact on Epid-ch/slam Kaelinitic Zones: 1369.6' 83811, 13857 1388.3-1399.3', 1400.5'-14077'
	•	Temp.							- 11-1 	
	the core axis.	R.Q.D. (%)	96	001	96	100	. 007	001	001	
	angles in the log are relative to	Core Recovery (%)	100	001	001	001	001	001	001	00
	All angles in the	Strat. Column	· · · · · · · · · · · · · · · · · · ·							
	Note:	Depth	1370	/ 380 / 381 -		/390	-1/40	1410-1401-	1420-1111	1430

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Depth	Angle to Core	Healed	Alteration and Intensity
1370.8	78°		Qtz-chl?
1374.0	70°		0+2-chlorite-calcite
1374.6	55°		Ch1-calcite
375.7			Mod. epid.
1383.5	70°		Epidw/ch((1.5" wide)
1384.3	65		Chifract. w/ bleached zone (0,2" wide)
386.1	650	1	" " " (0.3" wide)
386.3	750	V	" " " " (0.3" wide)
389.9	75°		Hairline chi Fract.
394.7	620		
1406.6	670	· · · · ·	ch(
1+09.8	280-480		Hairline cht fracts
1410,3	82°		Chi fract w/ ble ached margin
	550-750		
1+14,2			10 irreg. chl. Fracts
1414,8	750		ch1-calcite fracts
415.3			$\frac{1}{1} \frac{1}{1} \frac{1}$
417:7	750	i i i i i i i i i i i i i i i i i i i	Irreg. chl. fract. Chl fract W/striations
4233	75 [°]	· · · · · · · · · · · · · · · · · · ·	Chiling (1 Conf
425.3	<u> 40°</u>		Hairline chl fract, irreg.
425,4	850		 γ 2 = 1 < ξ γ 2 = 1 < ξ
4.25,7	<u>53°</u>		ани и на продата на продата на сталина и сталина на продата са стали и продата на продата и стали на продата на 1 k
425.8	380	- K	and a second
1426.7	<u> </u>		Chi Fract w/bleached zone (Oct wide) irreg
14270	. 200	V	alayon aya selesa ala ala ana ana ana ana ana ana ana an
1427.0	<u>- 80°</u>		Chi
1427.2	600		Hairline chl fract
1427.4	<u>_65°</u>	e - John .	Chifract w/ bleached zone (0.2" wide), irreg
14278	7.5		All a wind a second a second a wind a wind a second a s
1429,3	<u> 80°</u>		trreg w/intence py
429.7	<u>68°</u>	· ·	chl tract w/py
4.29.8	<u>- 78°</u>		Irreg chi fract w/py
1430.1	_750	Kan	Chi fract. w/ webk b/eached margins
431.6	580		Hairline chil Fract w/px
4319	850		Irreg tract w/ mod py minor chl
432.2	630		Chi zone (Ole wide)
143216	400		Chi Fract w/weak bleached margins (0.3" with
141816	500		Intense sheared zone w/c/ayagtz and bleached
	<u>+5°</u>		Zone (AS" wides
395,3	150		Chi shear, cutsoff gtz vein @ same depth
421.7	-70°		Chi-epid (0.75" wide)

	HOLE NO. 80-2		Description	Kacturitic zones: 1436.5'	Felsic Zemesi					Mafir inclusions: 1452.8	Silicifical Zomes & Qtz. Neins:	1399,3: Jo. 0,25" @ 50° healed	, 0.7" - 601 " 12 releg (550	1407.3 4.0" do 200	0.7 "wide	200 -	VI WIDE W 23'	1153,5: 922 w/ch.l.Q. upper contact	212 acin x 430, uppeccontact			6
			Temp. (°c)										:									
\bigcirc	•	to the core axis.	R.Q.D. (%)		1	100			100		•						 		(.			
		All angles in the log are relative to	Core Recovery (%)		· · · · · · · · · · · · · · · · · · ·	100			100													
		All angles in the	Strat. Column	1				• • • • • • • • • • • • • • • • • • •		 J						3	•			-	•	
		Note:	Depth	- 1271	-+		= 1.441	1450		END (457-												

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Depth	Angle to Core	Healed	Alteration and Intensity
1435.9	3,20	<u> </u>	Chi fract w/blenched margins, epid.
1438.7	600		Frid-rhi (0.4" wide)
1439.0	270	1	Hairline chl-otz fract-w/py.
1440.6	50°		Ch) Chi
1443.5	720		Chlfract, w/striations
1444,2	50°		chl-epid (1.5" wide)
1449,2	700		chl fractw/striations
14-50.0	750		is a characteristic production of the second s
1450.7	70°	\checkmark	Hairline chl fract.
1450,8	500	V	
14-51.1	50°	~	11 Tr 11
14-51.8	50°	<i>\</i>	
19-52.0	550	~	the second se
1451.9	550		Chl. fract w/striations
1457.0	6.5°		ChI
		in the service of grant to be a service of the serv	
		n a la a calandar a santa se se	ана ула протика производит скороновски и при или производители странкали на работу или притира и дате и тока стр При или протика и протика и протика и при така и протика и протика и протика и протика и притира и притира и про
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