back from amindmente	1	1025	• •••• • • • • • • • • • • • • • • • •
FILC ASSESSMENT REPO	RT	· •	
BAR PROPERTY	à 2 464-4464		1 · · · · · · · · · · · · · · · · · · ·
D.D.H. BAR 88-	2		
N.T.S. 82 G/5	w		

LATITUDE 49 DEGREES 27'N, LONGITUDE 115 DEGREES 56'W

FORT STEELE MINING DIVISION

Fill/JED		
SUB-RECORDER RECEIVED	. =	
OCT 7 1988		•
M.R. #\$ VANCOUVER, B.C		¦

Owner: Therm Exploration Ltd.

Operator: Goldpac Investments Ltd.

Author: John M. Leask

Hole Logged By: F. R. Edmunds

GEOLOGICAL BRANCH ASSESSMENT REPORT



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INTRODUCTION

The objective of this project is to find another economic massive sulphide deposit in the Aldridge Formation which hosts the immense Sullivan Zn-Pb-Ag deposit. The Sullivan horizon exists at depths of 900 meters to 2500 meters within the Bar Claims Group.

During 1988 diamond drill hole Bar 88-2 was initiated in order to test the Sullivan Time Horizon for a Sullivan type ore body.

The impetus for the project was the existence of a Controlled Source Audiomagnetotelluric anomaly at the approximate Stratigraphic level of the Sullivan within a geologic framework believed to be favourable for massive sulphide deposition.

The hole was drilled to a depth of 1650 meters during the months of April, May and June, and was continuing to 2000+ meters during July and August. This report is for assessment work applied on July 6, 1988 and covers the first 1650 meters of drilling.

LOCATION, ACCESS AND PHYSIOGRAPHY

Diamond Drill Hole Bar 88-2 is located approximately 10 km. Southwest of Cranbrook, B.C., north of Lumberton Reservoir, at approximately the following co-ordinates:

Longitude 115 degrees 56'W Latitude 49 degrees 27'N

Access to the drill site is by Highway 3-95, south from Cranbrook, then west on the Moyie River Forest Road for 4 km, then north on the Lumberton Mountain Lookout Road for 3 km.

Steep sided valleys with abundant cliffs both east and west of Lumberton Lookout Mountain characterize to topography. Elevations range between 870 meters A.S.L. and 1700 meters A.S.L. in the area of the claims.

Climate is that of the Rocky Mountain Trench rain shadow with annual precipitation of 40 centimeters. Snowpack in winter rarely exceeds 2 meters. Temperatures range from -40 degrees celsius in winter to +40 degrees celsius in summer.

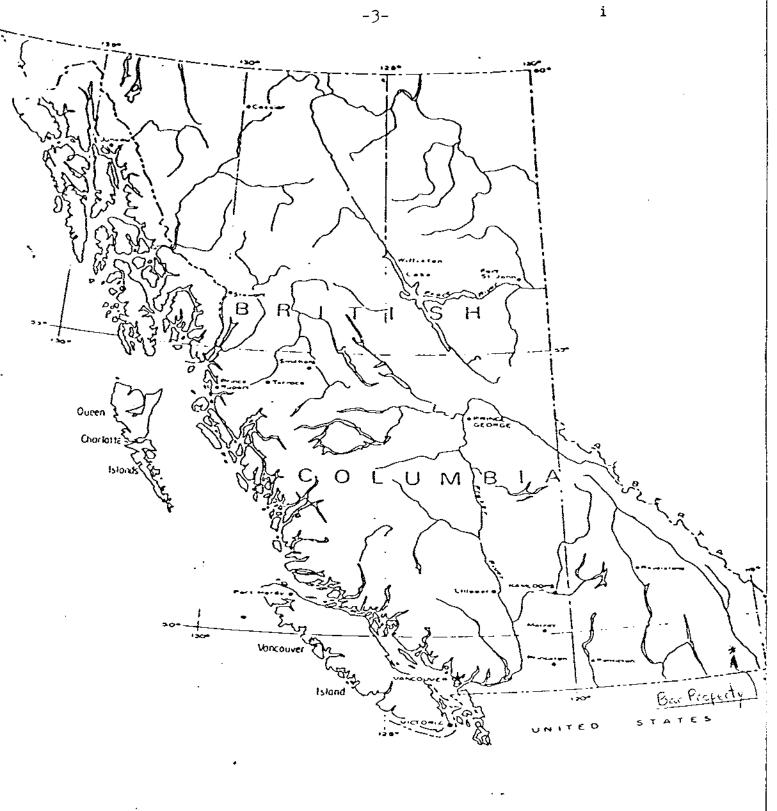
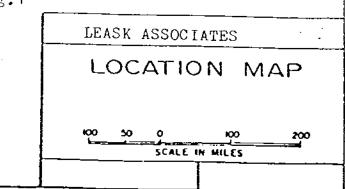


Fig.1



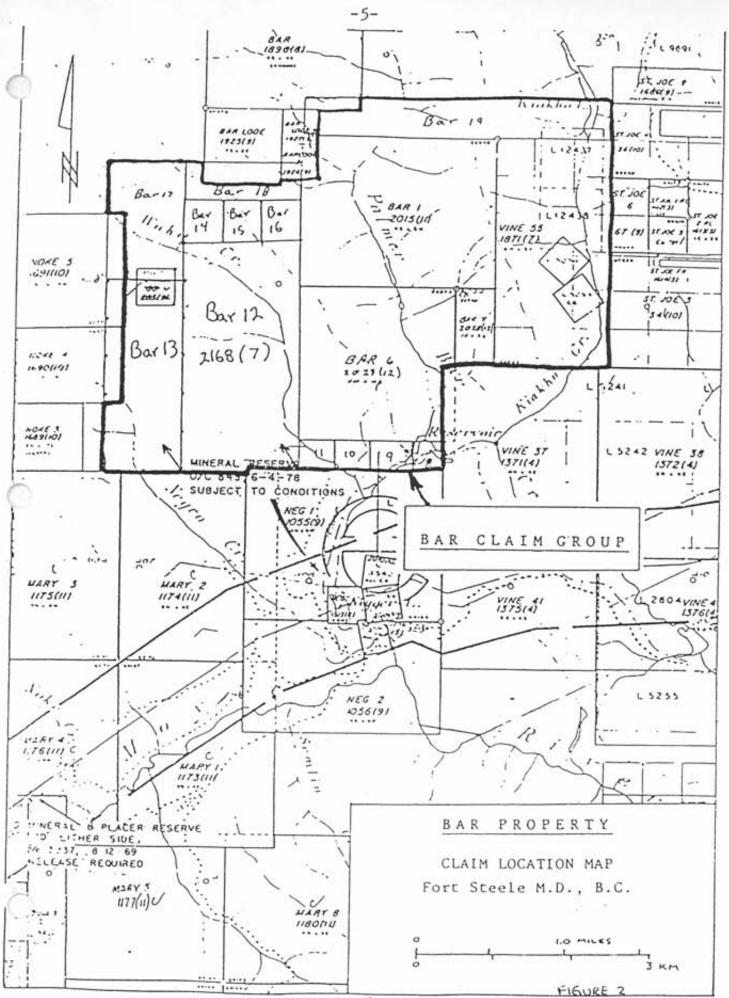
All claims are located within the Fort Steele Mining Division and

are owned by:

THERM EXPLORATION LTD. 808-525 SEYMOUR STREET VANCOUVER, BC V6B 3H9

CLAIM NAME	UNITS	RECORD NO.	RECORD DATE
Vine 55 Bar 1 Bar 6	18 20 16	1871 2015 2028	July 18, 1983 November 10, 1983 December 14, 1983
	2 1 1	2029 2164 2165	July 3, 1984 July 3, 1984 July 3, 1984 July 3, 1984
Bar 10 Bar 11	1 1	2166 2167	July 3, 1984 July 3, 1984
Bar 13 Bar 14	18 10 1	2169 2170	July 3, 1984 July 3, 1984 July 3, 1984 July 3, 1984
Bar 15 Bar 16 Bar 17	1 1 6	2171 2172 2354	July 3, 1984 July 3, 1984 February 20, 1985
Belleville	3 18 Claim Gra Crown Gra	3041 nt	February 20, 1985 December 1, 1988

The location of the claims is shown on Figure 2 at a scale of 1:50,000.



HISTORY

Mining development of the district began with the discovery of a showing of Zn-Pb-Ag ore on the North Star Hill in 1891, followed by the discovery of the HU zone of the Sullivan orebody in 1892 just 4 kilometers northeast of North Star Hill. From the date of acquisition in 1909 by the Consolidated Mining and Smelting Company to the end of 1987 the Sullivan Min e produced 139,500,000 tons of ore containing 6.7% Pb, 5.8% Zn, and 2.2 oz/ton Ag. In total, the Sullivan orebody approached 180,000,000 tons of ore grading 12% Pb-Zn and 2 oz/ton Ag.

The St. Eugene vein orebody was located in 1893 some 50 kilometers south of the Sullivan Camp and 20 kilometers south of the Bar Claim Group.

The Bar property to this date has been explored by approximately 300 meters of underground workings aimed at developing several Zn-Pb-Ag-Au veins high in the Middle Aldridge Section.

In recent years exploration of the area has been advanced by the following developments:

- o Recognition in 1962 of varved markers, their potential use in stratigraphic control within the Middle Aldridge and subsequent potential for exploration.
- o Discovery of lead-zinc mineralized strata of the Sullivan Time Horizon beneath deep overburden at the Polaris prospect in 1971. This property is 10 kilometers south of the Sullivan Mine.
- o During October 1976, D. L. Pighin, a Cominco employed geologist/prospector discovered massive sphalerite-galena-

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pyrrhotite boulders in a recently excavated road cut north of Moyie Lake. This discovery was protected as the Vine 1 claim, consisting of 20 units. Further excavation in the immediate vicinity of the boulder occurrence uncovered a very impressive vein with widths from 2 to 6 meters. As the Sullivan Time Horizon was known to exist a hundred meters or so below this new showing it was suggested that the sulphide vein was leakage from a bedded sulphide body below. Since 1976 nine drill holes have probed the Sullivan Horizon.

o Further geological work by Trygve Hoy, Leask and Associates, and Noranda geologists combined with Controlled Source Audiomagnetotelluric surveys, magnetotelluric surveys, and drilling resulted in the recognition of the Cranbrook graben, a northsouth trending axial trough structure.

REGIONAL GEOLOGY

Regionally, the area is underlain by rocks of the Purcell Supergroup on the western flank of the Purcell Anticlinorium, a broad, slightly north plunging arch-like structure in Helikian and hadrynian aged rocks. The oldest rocks exposed in the Purcell Anticlinorium are greenish, rusty weathering thin bedded siltites and guartzites of the Lower Aldridge formation. Overlying the Lower Aldridge is a monotonous section of Middle Aldridge quartz wackes, subwackes, and argillites some 3000+ meters thick. Within the Middle Aldridge formation, fourteen varved marker horizons can be correlated varve for varve over hundreds of kilometers. These represent the only accurate stratigraphic control A number of areally extensive diorite sills are present within the Lower and Middle Aldridge Formations. The Middle Aldridge is overlain by Upper Aldridge, 300 meters to 400 meters of thin fisile, rusty weathering argillite/siltite.

Conformably overlying the Aldridge Formation is the Creston Formation, comprising 1800 meters of grey, green and maroon, cross bedded and rippled marked platformal quartzites and mudstones. Kitchener-Siyeh Formation, which includes 1200 to 1600 meters of green-grey dolomitic mudstone and buff coloured mudstone are shallow water sediments overlying the Creston Formation and mark the end of Lower Purcell Time.

The upper portion of the Purcell supergroup consists of the Dutch

Creek and Mount Nelson Formations. Dutch Creek Formation consists of approximately 1200 meters of dark grey, calcareous mudstones. This marks the top of the Purcell Supergroup.

The Aldridge basin hosts the world class Sullivan Pb-Zn-Ag deposit. It is believed the basin evolved as a deep intercratonic trough, analogous to the Guaymas Basin on the west coast of Mexico, as a result of tectonic activity along an ancient crustal spreading center. It is proposed that the Sullivan deposit is situated at the junction of a major penecontemperaneous transform fault (the Kimberley Fault) and an oceonic spreading center (rift zone). Transform faults are generated to relieve stresses in the crust induced during spreading.

Zones of spreading within the Aldridge are believed to be marked by albitization (sodium addition), gabbro feeder complexes, and tourmalinite, a mineral/rock type produced from replacement by boron-silica rich fluids of magmatic origin.

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50° 50 ((N)) 0 KILOMETERS Kimberly MESOZOIC PLUTONIC ROCK PROTEROZOIC HELLROARING CREEK STOCK PALEOZOIC SEDIMENTARY POCKS PROTEROZOIC ">" WINDERMERE SUPERGROUP PURCELLSUPERGROUP MOUNT NELSON DUTCH CREEK. 150 UNI PIN Cranbrook GATEWAY, PHILLIPS, ROOSVILLE KITCHENER, SIYEH, SHEPPARD, PURCELLLAVA CRESTON; ALTYN WATERTON APPEKUNNY ALDRIDGE FORT STEELE TRENC FAULT SULLIVAN MINE 1 CITIES PROPERTIES TOURMALINITE . Goal Property INTRAFORMATIONAL CONGLOMERATE Q CANADA ■ Yahk 49° Creston UNITED STATES (16* 114° 1170 115°

FIGURE 3 REGIONAL GEOLOGY

MODELLING

The model used in targetting DDH Bar-88-2 was that of a north-south trending graben in Lower Aldridge rocks linked to a penecontemperaneous transverse fault (Cranbrook Fault).

Recent studies have shown that massive sulphide deposits are now forming at the intersection of crustal centers and major transform fault fractures. Two present day sites are the Gulf of Afar and the Guaymas Basin.

The importance of these intersections between transform faults and spreading centers is three fold:

- 1. It causes down-faulting and graben development which forms the sub-basin necessary for thick accumulations of sulphides.
- 2. It halts the propogation of the spreading center allowing the "hot spot" to be focussed long enough to form a convective hydrothermal cell.
- 3. The Transverse Fault-Magma Chamber couplet is the heat sinkheat source necessary for convection with seawater recharge accomodated by the Transverse Fault fault system.

Typically a spreading centre is not a single linear fracture, rather, it is a zone one to several kilometers wide consisting of down dropped blocks.

The marginal growth faults of these blocks are the locus of hydrothermal activity and may be marked by sodium addition (albite alteration) and tourmalinization. Both alteration types support a close magmatic association for these deposits.

DRILL RESULTS

DDH Bar 88-2 encountered a repetitive succession of quartz wacke turbidites typical of the Middle Aldridge Formation from 4 meters to approximately 1400 meters. Two Moyie Gabbro sills were intersected at 100-150 meters and 350-425 meters respectively.

The turbidite succession was primarily comprised of proximal and intermediate turbidites, the former being represented by thick and medium bedded, medium to course grained quartz wacke bases and thin bedded siltstone tops. Sedimentary features common to these AE turbidites (Bouma designation) include thick amalgamated bases, scours, vague current laminations, rip up clasts and a general massive character.

From 1300 meters to 1486 meters the character of the section changed dramatically from the quartz wacke dominated section above. Thin bedded slumped siltstones with minor interbewdded quartz wacke were the prevalent lithologies. Thin calcareous beds are noted within this section.

The sediments below 1300 meters are correlated with the Lower Aldridge - Middle Aldridge Transition zone.

Alteration below 1250 meters is common and consists of tourmalization, albitization, silicification, chloritization, and a quartz-chlorite-garnet assemblage. Sulphide content was markedly

increased from 1250 meters to 1490 meters and consisted of disseminated Pyrrhotite, Pyrite, sphalerite and Pyrrhotite-sphalerite-galena veinlets.

At 1490 meters a thick gabbro sill was intersected. The drill hole was still in this sill at 1650 meters. This thick sill is correlated to the Fors Sill intersected at 900 meters in DDH Bar 85-1. In that hole the sill was 550° thick. It is believed to be almost totally contained with a graben infill succession. Geologic evidence suggests it may be crosscutting as it was intersected lower in the section than predicted from DDH Bar-85-1.

The drill core from DDH Bar-85-1 and DDH Bar-88-2 are currently stored in a warehouse at Cranbrook.

No sections of DDH Bar-88-2 had been sent for assay as of the date that this report was prepared.

SUMMARY

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Thus far, DDH Bar 88-2 has encountered typical Aldridge rocks through, with a fining of the sequence at about 1300 meters. This lithologic change, interpreted as a transition from high energy turbidite deposition to low energy turbidite deposition, marked a period of tectonic dislocation and increased rate of turbidite deposition.

CONCLUSIONS

DDH Bar 88-2 encountered a thick succession of Middle Aldridge quartz wacke turbidites to 1300 meters where it entered the predominantly siltstone - quartz wacke assemblage correlated with the Lower-Middle Aldridge contact. At 1490 meters the top of a thick gabbro sill was intersected. The stratigraphy intersected has generally conformed with the original geological prognosis with local thickening of 15% over DDH Bar 85-1 indicated at the location.

STATEMENT OF EXPENDITURES

Road and Site Preparation	\$ 15,000.00
Unit Costs For Drilling	
1650 meters X \$223.90/meter. (includes down time, mud, additives fishing, etc.)	\$369,484.00

TOTAL

\$384,484.00

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STATEMENT OF QUALIFICATIONS

I, JOHN M. LEASK, do hereby certify that:

- 1. I am a geologist with residence at 843 West 15th Avenue, Vancouver, British Columbia, V5Z 1R8.
- 2. I am a graduate of the University of British Columbia with a Bachelor of Applied Science degree in Geological Engineering (1980).
- 3. I have been involved in mining exploration since 1979.

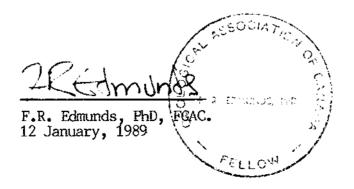
Respectfully submitted,

JOHN M. LEASK

GOLDPAC RESOURCES

Suite 808, 525 Seymour Street, Vancouver, B.C. V6B 3H9

- I, Frederick R. Edmunds, hereby certify that:
 - I am a consulting geologist residing at 6840 Hycroft Road, West Vancouver, B.C. V7W 2K8.
 - 2. I am a graduate of Keele University, U.K. with the degree of BA (Geology, 1958); of Toronto University, Canada with the degree of MSc (Petrology, 1966); and of the Pennsylvania State University, U.S.A. with the degree of PhD (Mineralogy and Petrology, 1977).
 - 3. I am registered with the Geological Association of Canada as a Fellow.
 - 4. I have practiced my profession as a geologist for the past 30 years in Canada, U.S.A and parts of Europe.
 - 5. I do not have, nor do I expect to have, directly or indirectly, any interest in the properties of Goldpac Resources.
 - 6. I visited the Bar Property, Fort Steele Mining Division daily between 9 April and 7 July, 1988, during which time I logged Drill Hole BAR 88-1, and the core of Drill Hole BAR 88-2 to a depth of 1,686.58 metres (5,533 feet).



APPENDIX 1

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DETAILED DRILL LOGS

TELTING CONTINGOLD PAC

808-525 Seymour St, Vancourer B.C. V68349

Strand Rept.

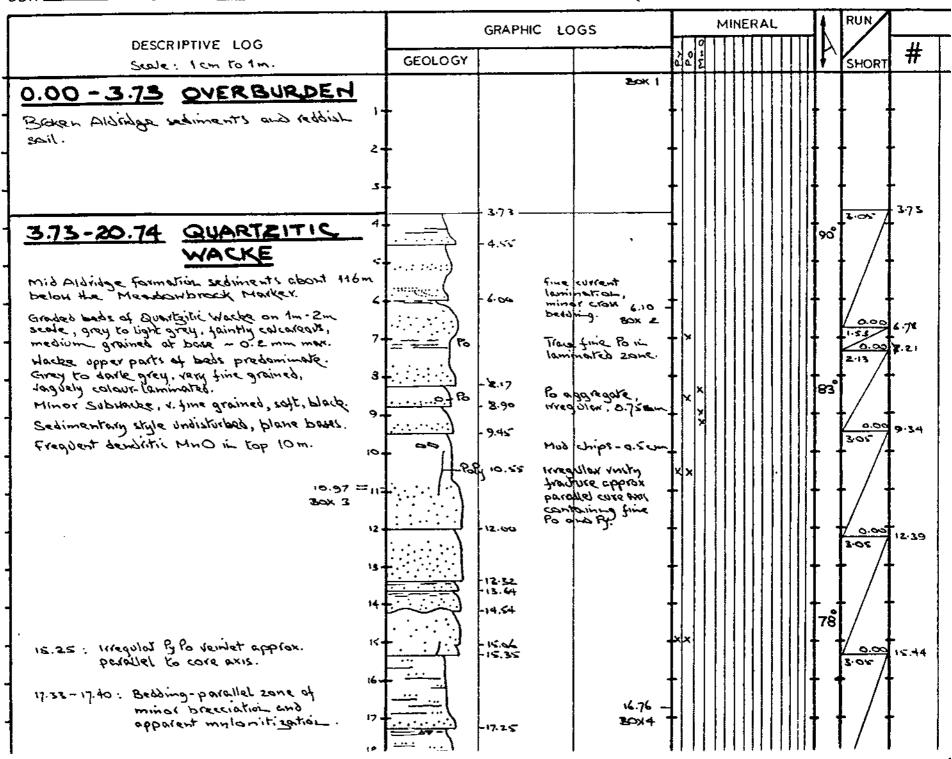
LOG OF DDH BAR 89-2

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Collar Azimuth _	Collar Angle -90 Depth	0	Date Started 2	4 APRIL 1988	Date Comp	lated	
Contractor BOYLES B	los DRILLING Company, Spokane	Wa	Drill BOXLES	5 CP 50			

objective CSAMT conductor on the Mille/ Lower Aldridge formation contact.

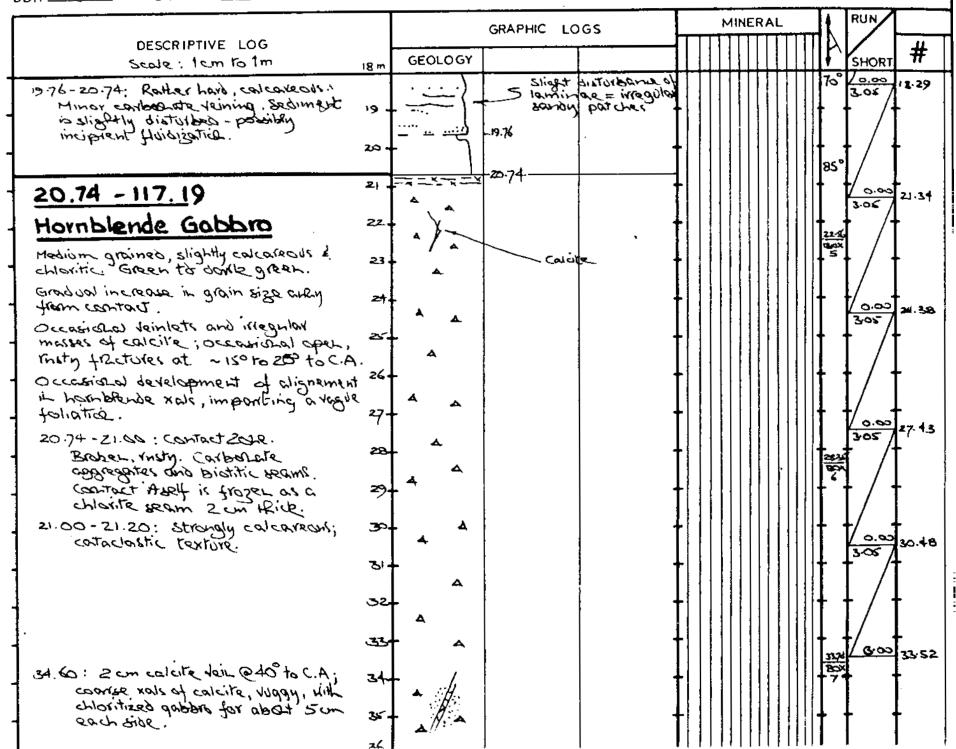
ORIENTATION TESTS	CORE SIZE	CONVENTIONS & SYMBOLS
Depth Inclination Azimuth 152.40 -89.40 210°	Depth Core Size	== - Wocke
30450 1925 208 752.00 18500 2470	×h	- Wocke - Subwocke also Marker Argillite
1219.20m -2210° 279° 1371.60m -21.35° -283°		THE - cake. White
/	Orientation test	A======"Grangphyre"
	instrument	== - Quartzitic Wacke (Argillaceous) Logged by Redminke
	SPERRY RUN	QUALITERE) LOGGED BY ASSOCIATES
	SINCILE SHELT	West Vancouver, B.C.

DATE 27APR



LOGGED BY F.R. EDMUNDS

DATE 27 APRIL



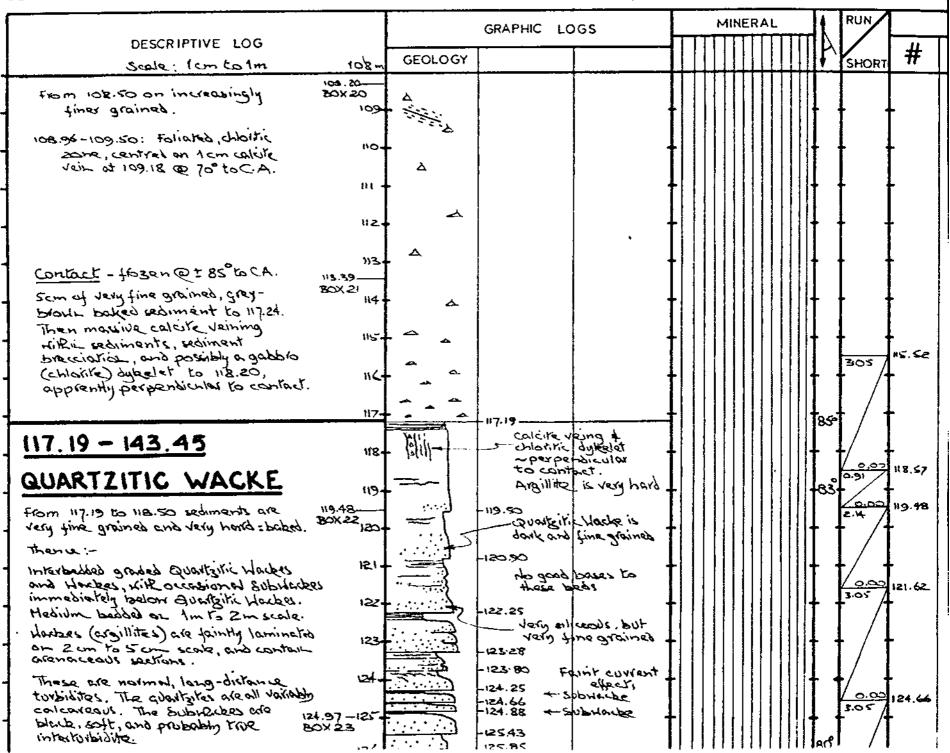
DATE 28 APR

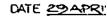
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By 36m, gabbro is coarse-grained massive (<1cm aggregates of plag é hiblad).	₄₀╻	. ∡	4	- 39.62											-
42.19-42.67: Carb-chlorite shear zone with gradational marcine @ 55-60	44			8000 8											_
with gradational margine @ 55°-60° to C.A followed by slight decleant in grain size.			4	- 45.42.											
52.44-58.29: Five bands of pure feldipers segregorials, 1 cm to 6 cm Rice, cruss	48-	- 1 8		Boxg	calcite veinlet	†							•		
core. Continuous with feldsporr of gabbro-same habit, etc. Calcite-	SZ	7	n.	-51.51	feldspar	†							•	-	-
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55,12-57.30; Broken rock, longitudinal	60	4	<u>د</u>	BOX II		$\left \right $						║┨	-		-
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76 m on - coonse grained é massive, bornbænde activitar.	72	*		BOX 13 -73.76		\mathbf{F}									-
79.23-79.64: fine grained sale with	76		•	BOX 14											-
gradational margins.	100			-79.25	•							╢╂			•
80-90m: grainsize quite variable	84		4	BOX 15											-
ic particles of 3-30 cm. \$7.80-88.80: Calcareous chloritic 2022.	8.8	*		-85.65 BOX 16	•									- 4	-
80.84-90.05: As above with 5 cm of	92		ል	-91.14											
my @ ~ 60° to core axis.	×-	▲ .	A	30×17											-
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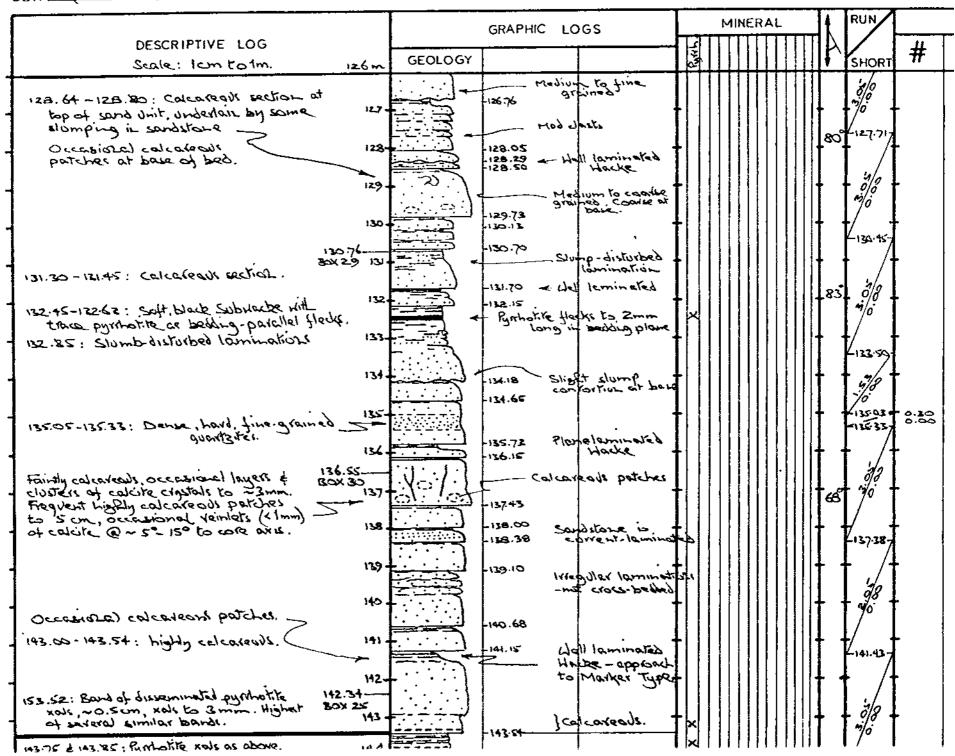
DDH BAR 88,2 CORE SIZE HX FROM 102.00m TO 126.00m

LOGGED BY F.R. ENHUNDS

DATE 28 APRI

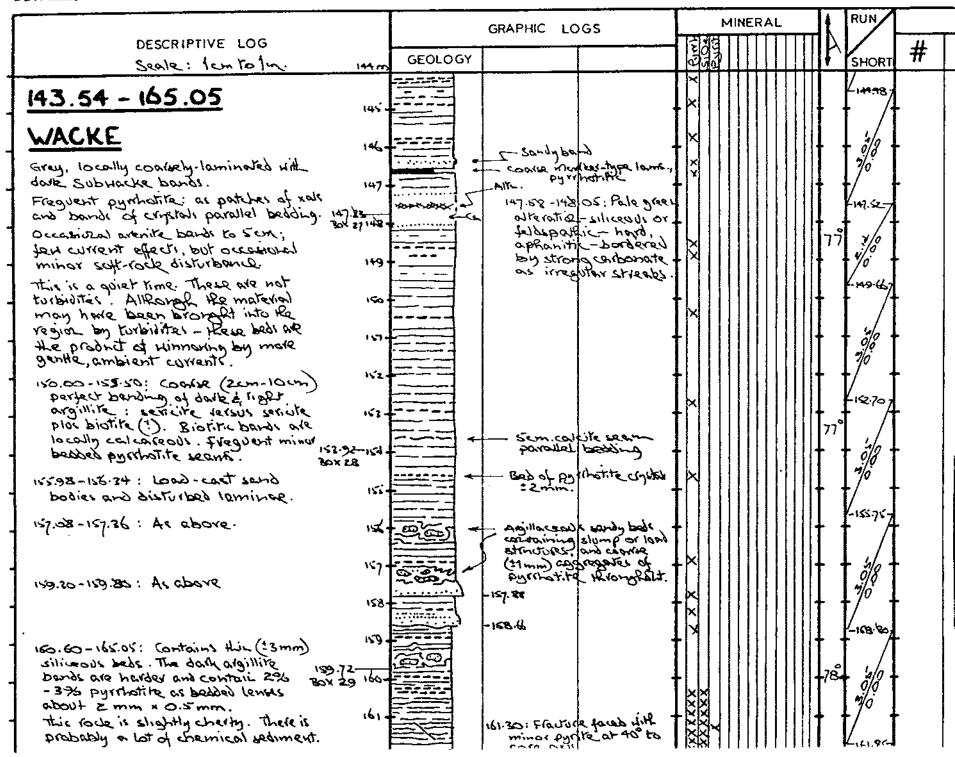






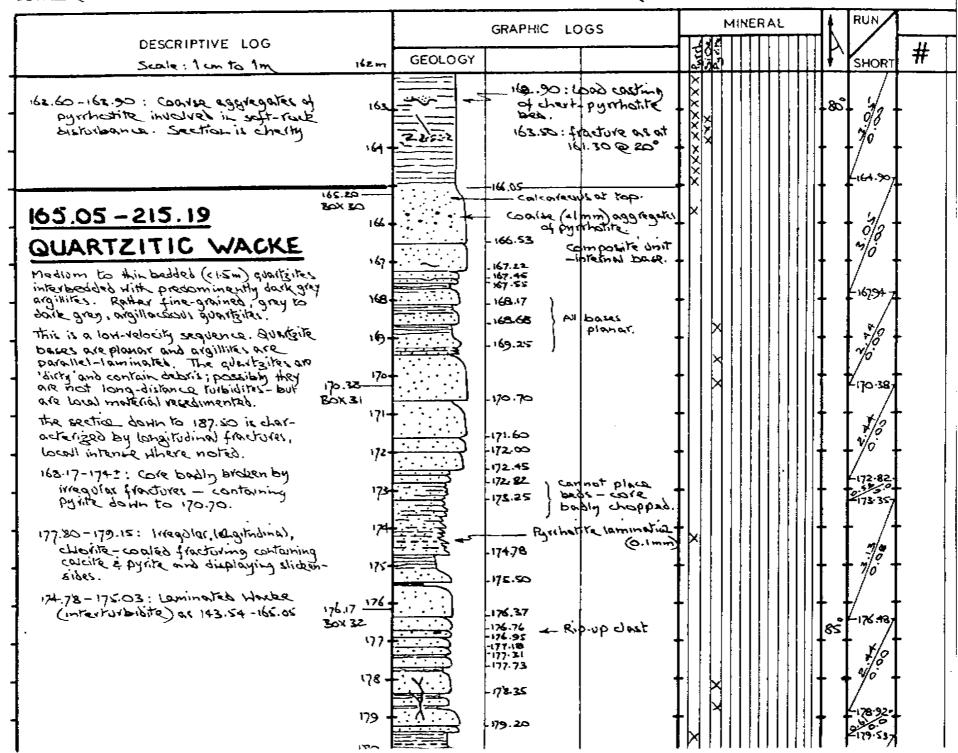
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DATE <u>3 MAY</u>



		GRAPHIC	LOGS	MIN	RUN
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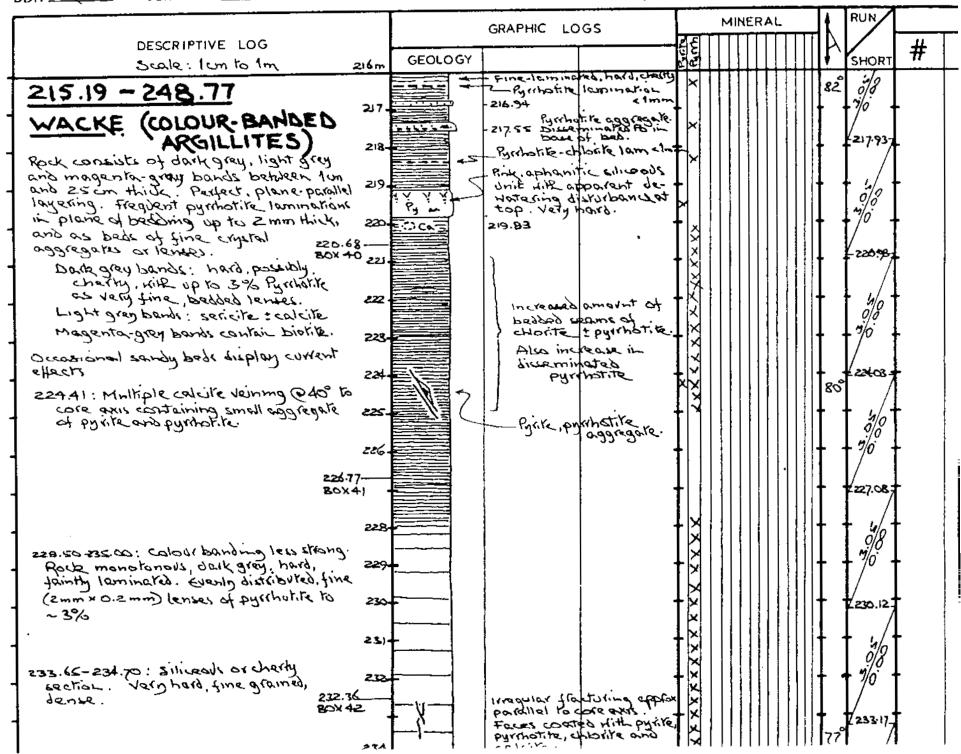
DDH BAR 88.2	CORE SIZE HX	FROM <u>198.00m</u> TO <u>26.00m</u>	LOGGED BY F.R.EDMUNDS

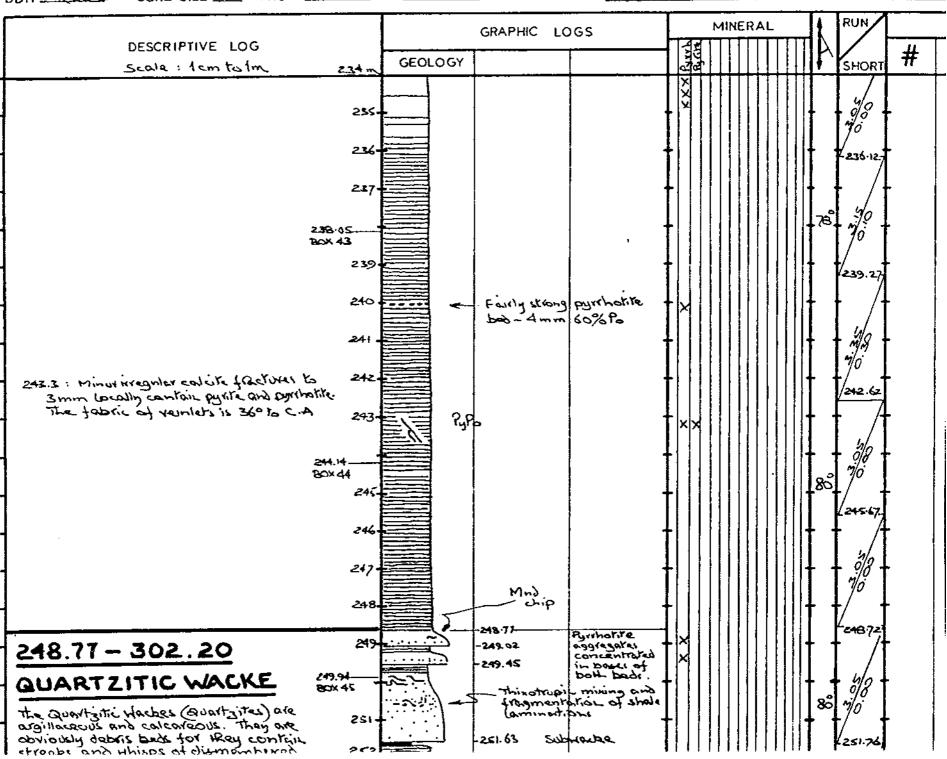
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203.30 BOX 37	203	-202.23 -202.33 -202.69 -203.00			- 202-69-	-
	205	204.06 current 205.00 bedding 205.18 bedding			-205.14-	
Occasional irregular patches of mottled, calcareons quartzite.	207	- 206.61				_
209.09 _ පිටා 38	228	-208.25) composite -208.73 Juner grained	T		-208.79-	
	210	-209.91 Bitches of 209.75 carbonate 209.83 209.97 -211.62 Purchtire Slocks	+			-
213.30: 2 cm rosette of chlorite and garnet crystals (1.5 mm) on border of 1 mm calcite veil @ 15° to CA. 213.44-214.25: Marrive, faintly laminated,	212	-211.62 Pyrelot.te flecks -211.94 in sendo units 	+× -		-20.84 ~	-
gley to light grey argillite containing seriate chlorite porphyloblasts to 1 mm.	214	-212.44 -214.25 -214.32 Disseminated pyrite in 			- 214-88-	•
2)5.)9 80×39	216	-215.19				

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DATE 3 MAY





DDH BAR BB-2 CORE SIZE HX FROM 234.04 TO 252.04 M

LOGGED BY FREDMUNDS

DATE 4 MAY

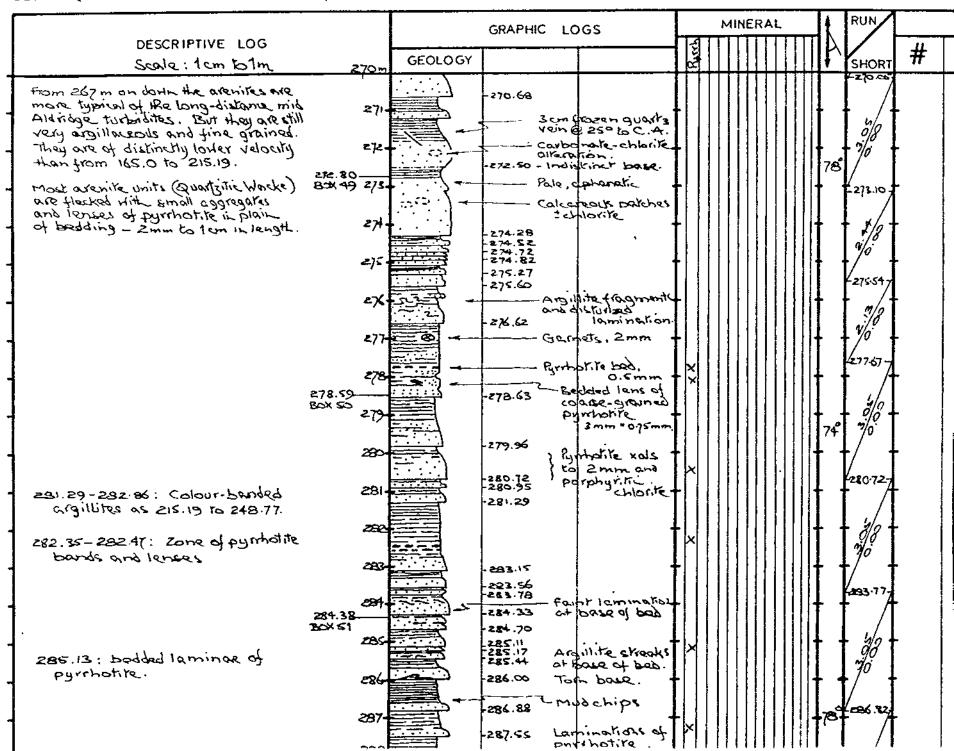
DATE 4 MAY

	· · · · · · · · · · · · · · · · · · ·		MINERAL	
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	258	-257.64 Limestone -258.24 Torp-up base -258.79		-257.06
260.91-267.00: Warke = Cobur-banded	260	-259.60 259.90 The Hin Subulado 1002rs. -250.80 -250.91 Thee chart beds. 2 cm - 3 cm thick.		73 260.917
Dark bands and fine-laminated thronghout and contain up to 4% pyrrhotire. Light grey, sericitic bands develop <10%, rounded, <1mm dark green, 1	262	3mm magine		263.96
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as Email, become-parallel aggreghtes, streaks, lenses and discontinuous laminae. 267.00- Box 48 267.00-267.40: Resuble minor fault		saible minor fault @ 28° Fine gravined quartzite fielded with 268.28 -268.28 -268.28 -268.28		80° 267.00 1/2
@ es to write AXIS. Chloritic gouge	269	-269.50		1/0 +

DDH BAR 83:2 CORE SIZE HX FROM 270.00m TO 288.00m

LOGGED BY F.R.EDMUNDS

DATE A MAY

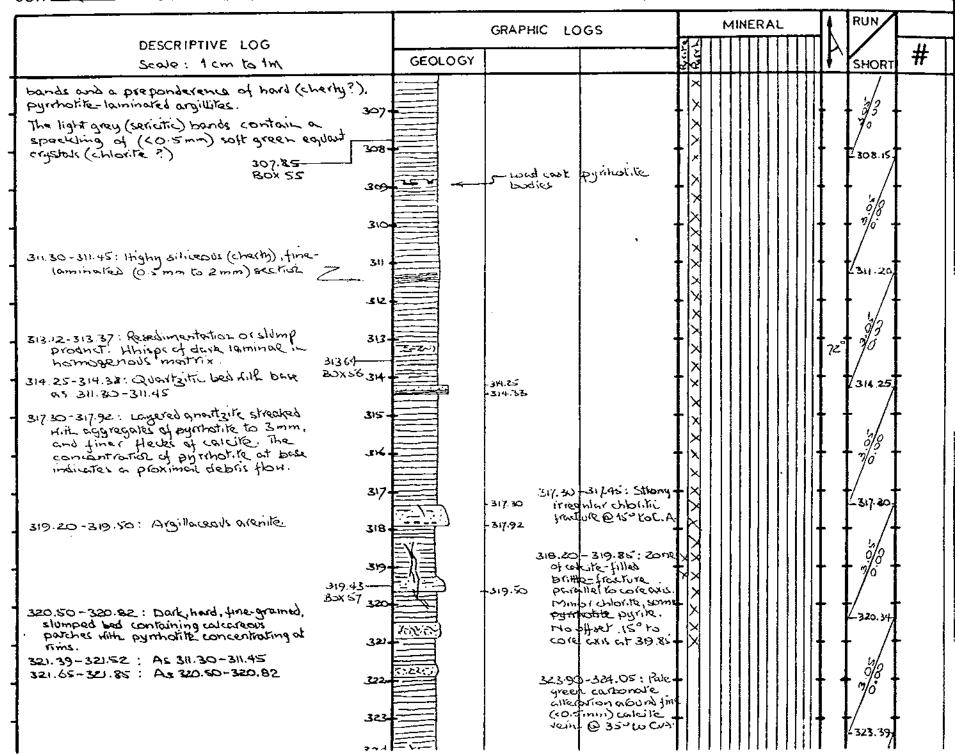


			GRAPHIC LC	ogs	MINERAL				1	RUN		
DESCRIPTIVE LOG Scale: 1 cm to 1m.	+===	GEOLOGY			4 1 2 1 1					A	SHORT	#
290.45-290.63: Fragmentel. 290.17- (Lithic Macke) Hhisps of argillite Box 52 in sendy aggillite matrix.	239 239 290 291 292 292		foint ci	calcule-coment oution @ 15" to wis. orrest bedding bedding under disturbed bedding							40 70 2293.96 200 200 10 202.01	- - -
est. 30 - 295.60: Hard; 295.96 Bilicous or chesty, argillite: Rymbotile-bearing. Displays stump features.	294 295 297 297		294.33 Slow 294.74 295.76 Cross 295.76 Colc. 295.76 Hard. 296.60 Fraquo	ke (block crejilité ped sand Juit, cei care als. bedding sandskone cherty pyrthotitic pyrthotitic pyrthotitic	X XXX					73	10 10 275.7 200 270	
299.38-299.40: Very havd, black band containing a dismembered Smm pynhottic layer. <u>POSSIBLE TOURMALINE</u>	299 300		- 300.92 file	ent chesty oritic zones. Ture@ 20 to core oxis ent wurbed + er bedding+							299.01- 8/8 1/0	- -
302.06 302.20-330.95 WACKE (COLOUR-BANDED ARGILLITES) See 215.19 to 248.77. But below about 310m here is a decrease in the magenta-Brey (biotitis)	303 304-		302.20 con -302.20 con -303.27	orite aggregate	XXXXXXX					-72-4	302-065 8/8 9/0 - 305-10-	• •

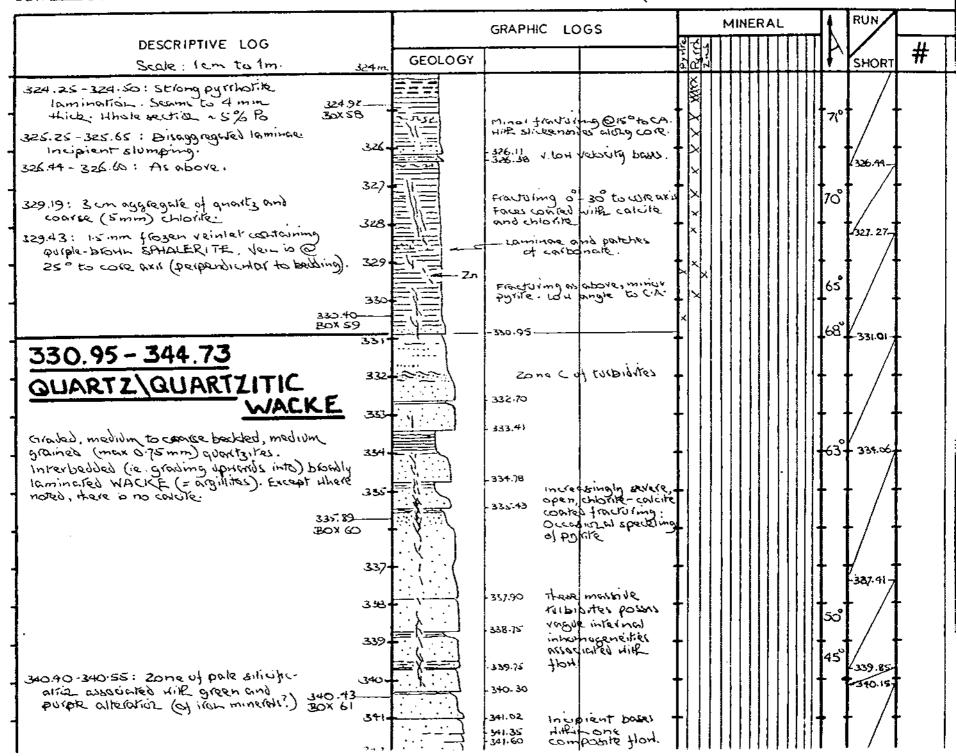
DDH BAR BB.2. CORE SIZE HX FROM 288.00m TO 3600 M. LOGGED BY F.R.EDMUNDS

DATE 4 MAY

DATE SMAN

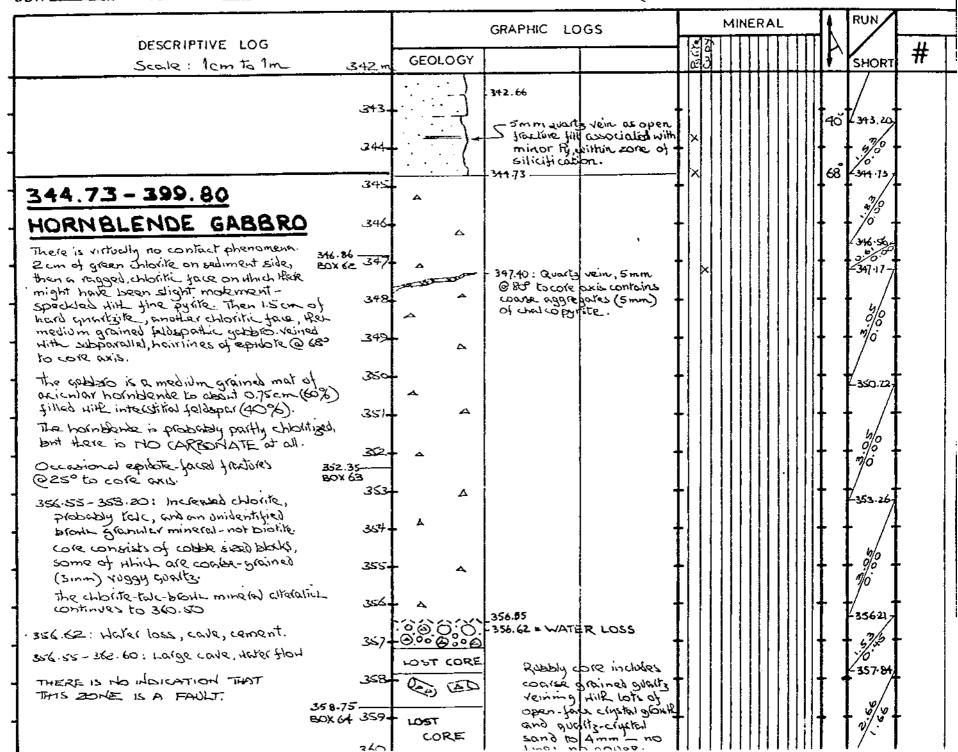


DATE S MAY

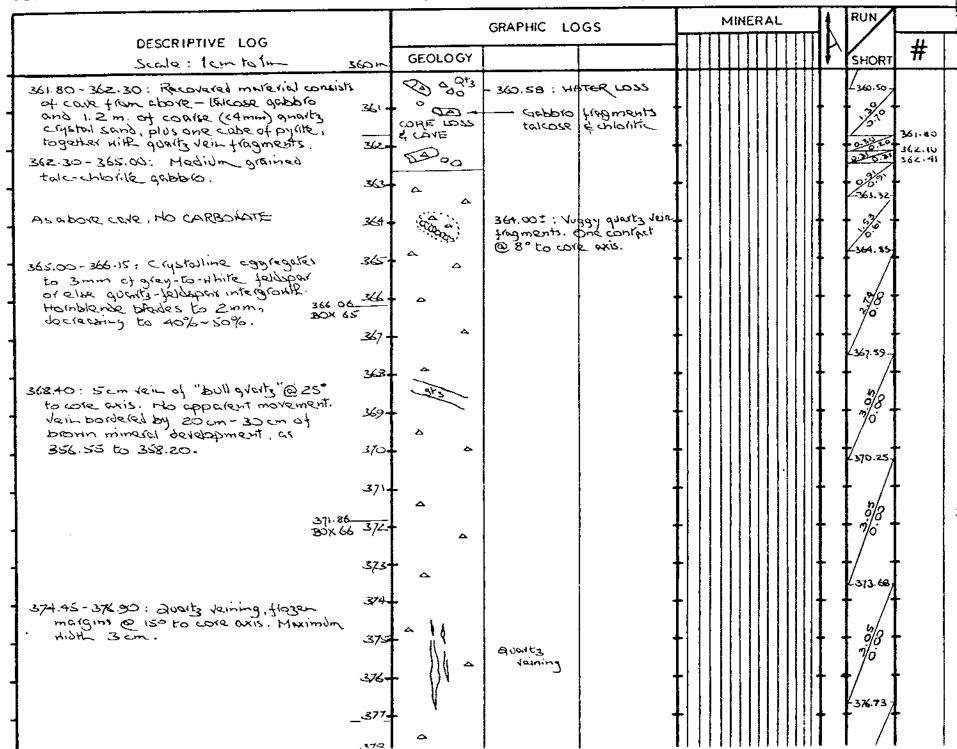


DDH BAR 88.2 CORE SIZE HX FROM 342.00m TO SUD.00m LOGGED BY F.R. EDMUNDS

DATE S MAY



DDH BAR BBZ CORE SIZE HX FROM 360.00 TO 3/8.00 m

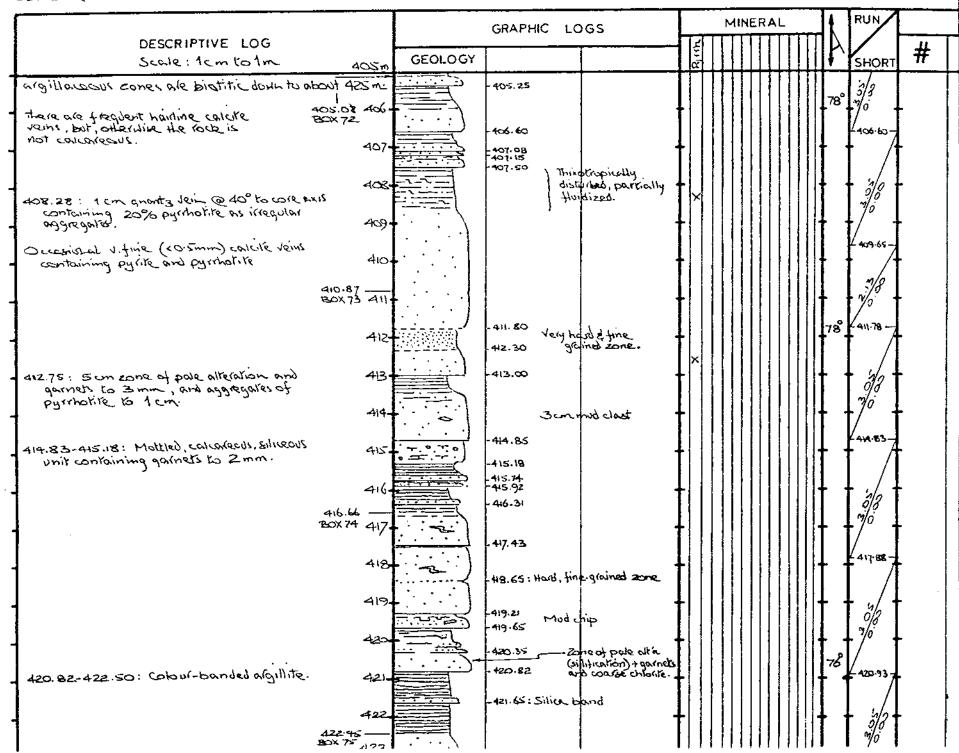


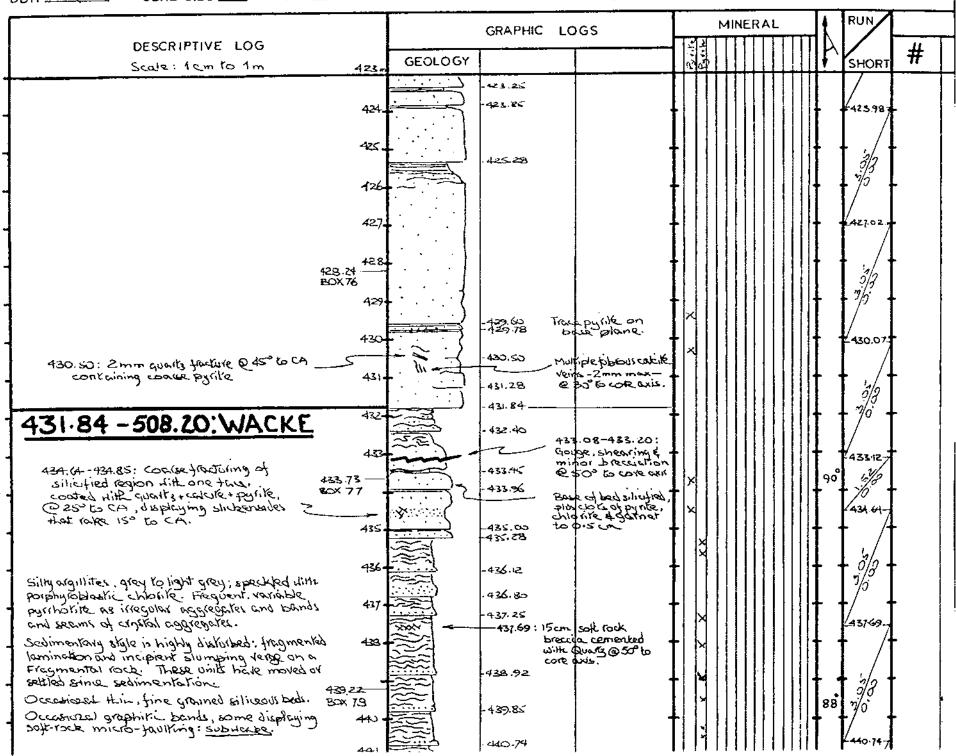
٠

DATE 12 MAY

-			GRAPHIC LC	GS		MI	NER	AL	 <u>It</u>	RUN	
DESCRIPTIVE LOG Scale: 1cm to 4m	378 m	GEOLOGY		-	P.C.P.				A	SHORT	#
trioughout sill, gabbic becomes more eucocratic towards base. By 385 m, bout 40% Hb; by 392 m, 20%.	389-	. A	BOX 67 - 382 52								
	386-	•	80 x 63		$\left \right $				ł	╉╴┨	-
00.00-391.50: Blocky cole and open.	390	<u>д</u>			$\left \right $				ł	┟╽	-
ruggy, conferly-crystalline qualiz-filled tracture@= to to C.A. Much as	394	. A	- 394-11						ļ	$\left \right $	-
355.50 to 362.30. 95.60-399.80: Increasing development	398		80×70				Í			ļļ	-
of fine-grained biotilitic patches, irregular quarts veining, and low overall reaction to HCL (carbonate) = assimilated sediment		70° to C-A horintels of of pale b lower (see Minor gu	e 4 cm of alba on upper (Gobb Orth, cophanitic iment)side laitz veining a	ting @ approx. Tized (?) biotite (3) side, 13 cm (13) atbitite (?) on (10) scorted							-
Scale: 1cm to 1m.		301 4 CM	@~25° 60	DIR CXD.							_
28.40-398.55: Complex of gnarts veining @ 20 to core axis, associated with pale green chlor masses and minor pyrite. Also tabular cryst cabts to 1 cm long. 28.55-399.80: Biotife-chlorite-feldspar hornfets.	νĭκ 📘		منهنة: عامق: عامل	on.?					- 0		-
599.80-431.84 BUARTZ GUARTZITIC WACKE Avortz Wackes to 4m interbedded with Quartzitic lacker, both grading into Hocker (argillites).			- 399.80	Recrustestigation, strong biotite development, nibitigation (?) decreasing continuerci					70 	4∞·∞ 5 7/0	•
the Quarts Quartsitic blackes are light grey. often Omposite Units containing finer grained cones. They usually display post-hes of pale greenist, aphanitic alteration. The Warkes are grey 10 light grey and exhibit porphyritic chorite plates.	403-		-402:45 -402:95 -403:08							403-25-	•
the overlying soll has abbilized down to about	200		1		'					0/8 1/0	

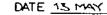
DATE 12 MAY

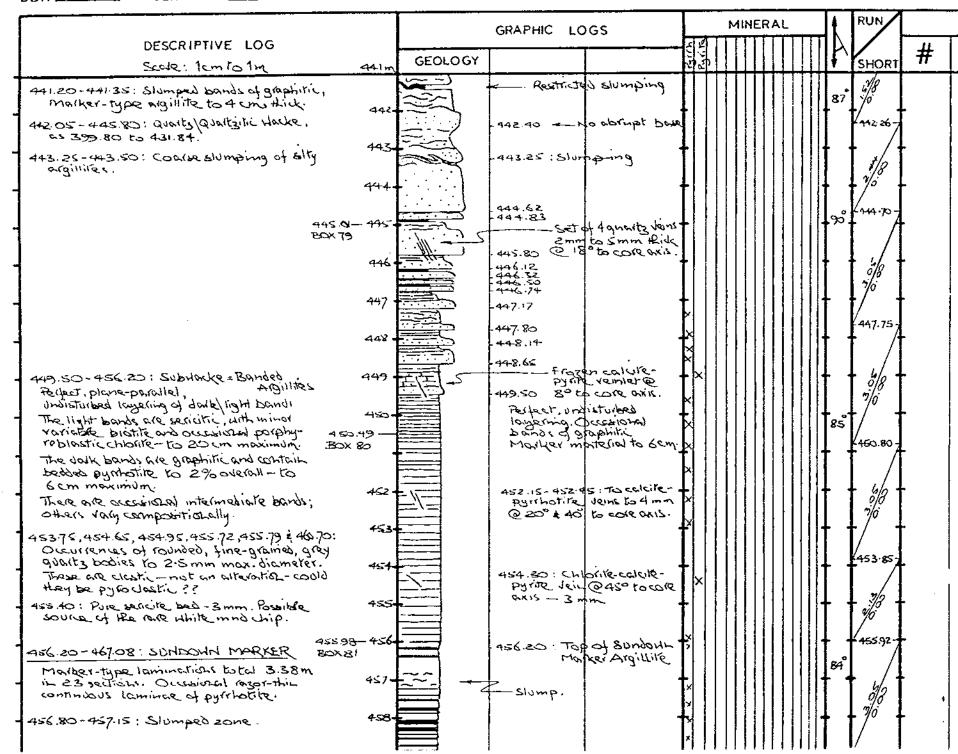




DDH BAR 88.2 CORE SIZE HX FROM 423.00m TO 441.00m LOGGED BY F.R.EDMUNDS

DATE 12 MAY

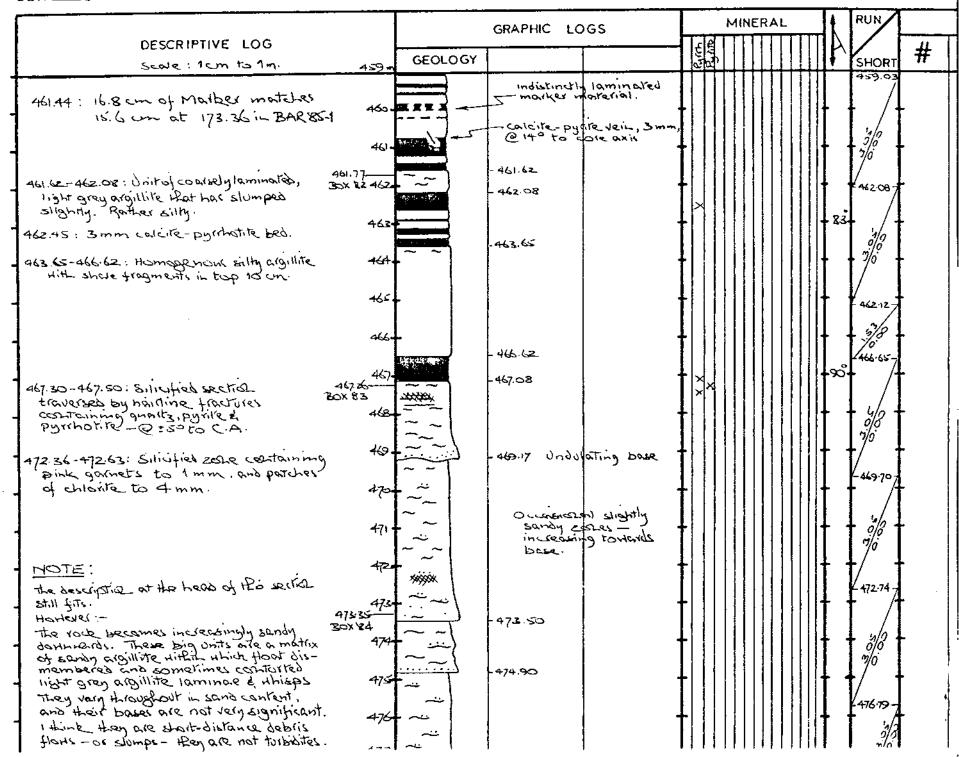




DDH BOR BB.Z CORE SIZE HX FROM 459.00 TO 477.00 m.

LOGGED BY F.R.EDMUNDS

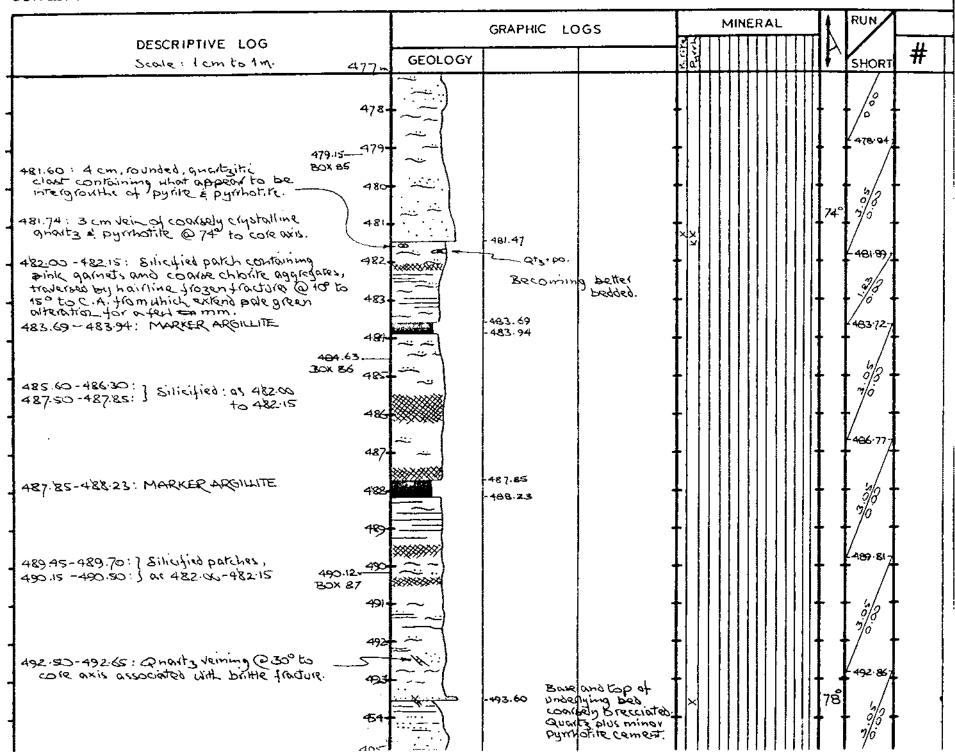
DATE 13 MAY



DDH BAR 88.2 CORE SIZE HX FROM 477.00 TO 495.00 m

LOGGED BY FREDMUNDS

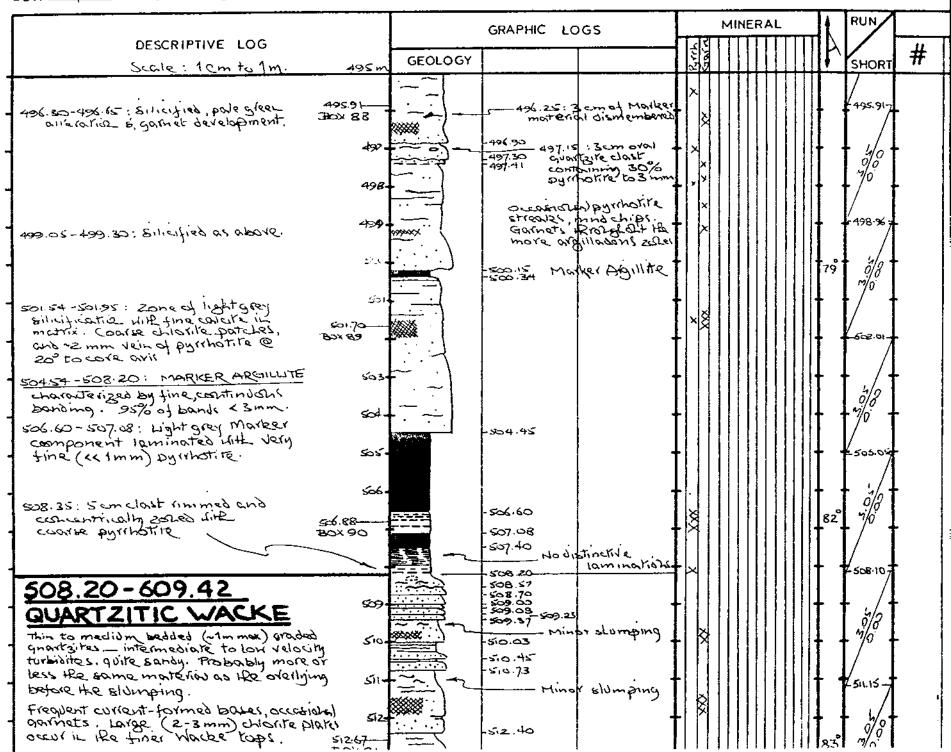
DATE 14 MAY



DDH BAR 08.2 CORE SIZE HX FROM 425.00 TO 513.00 TO

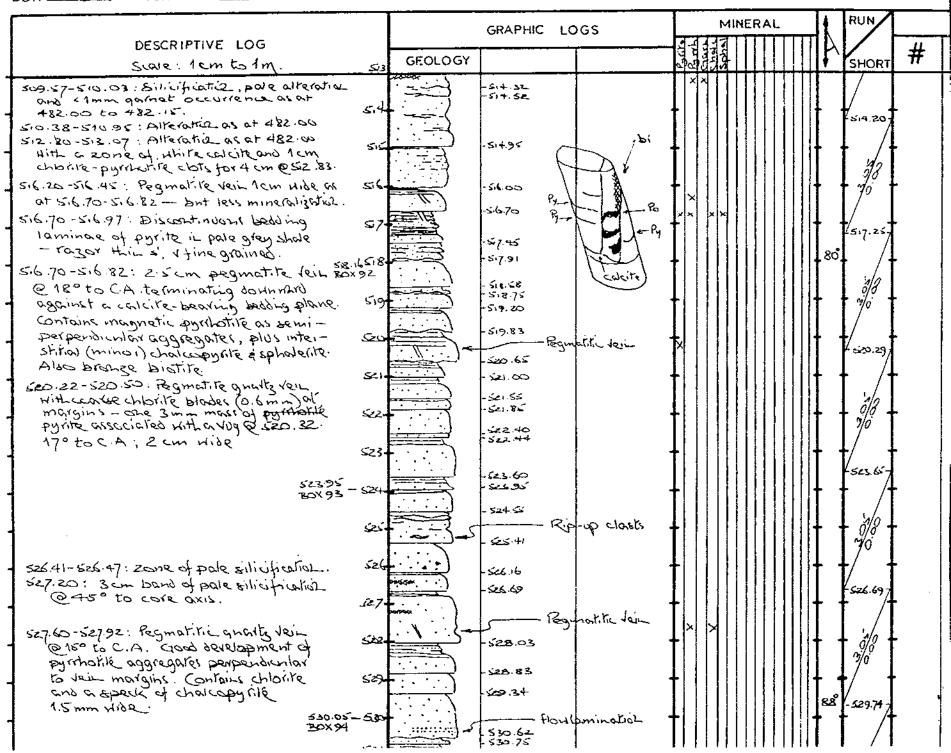
LOGGED BY F.R.EDMUNDS

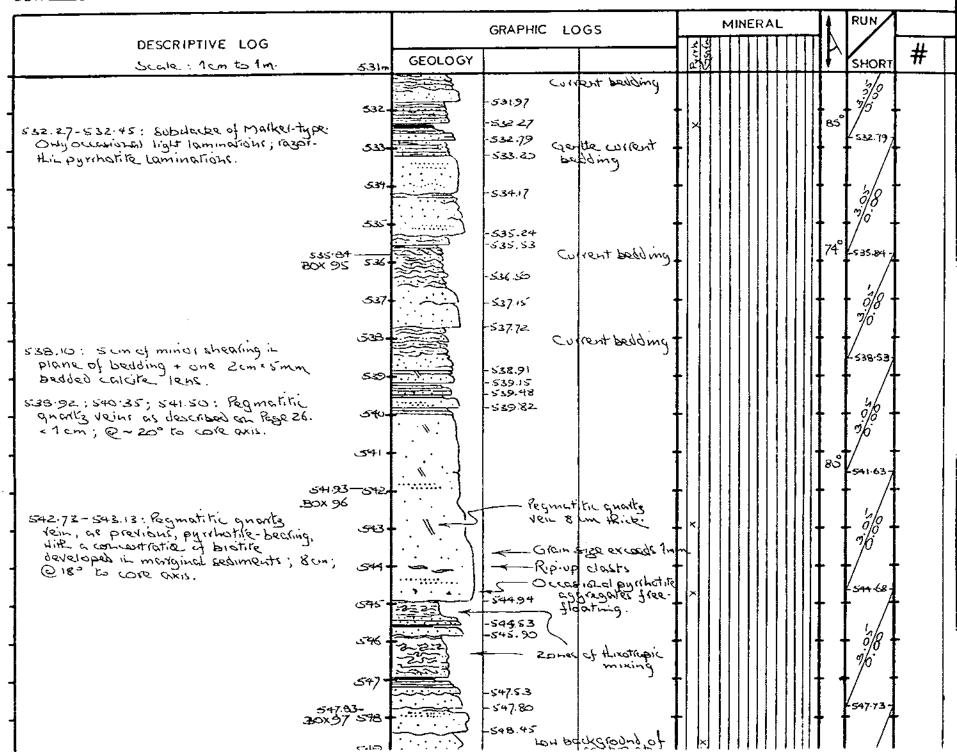
DATE 15 MAY



LOGGED BY F.R.EDMUNDS

DATE 15 MAY





DDH BAR BOZ	CORE SIZE HX	FROM 549.00m TO 567.00m

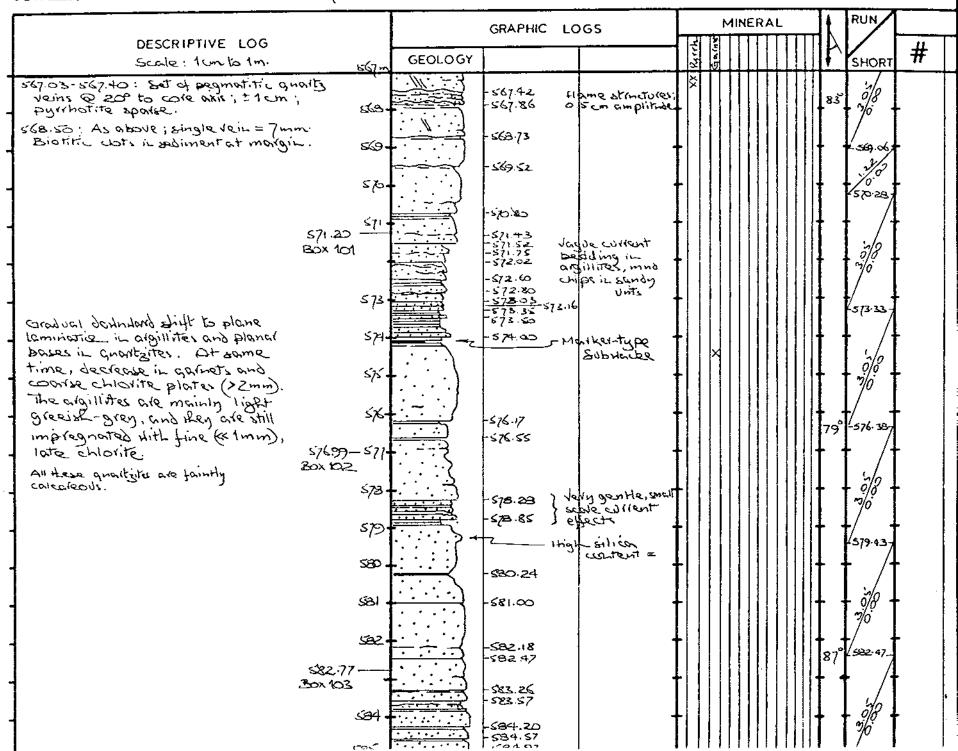
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LOGGED BY F.R.EDMUNIOS

DATE	16	MAY	

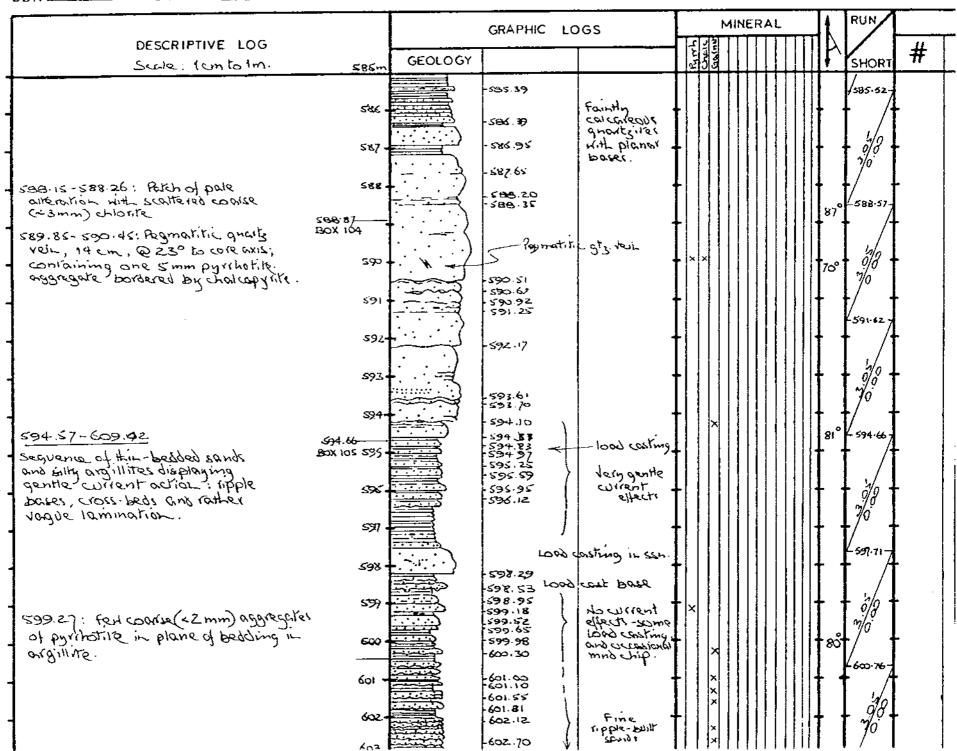
			GRAPHI	с го	GS		MI	NERA	AL .	_lt_	RUN	
DESCRIPTIVE LOG Scole: 1 cm to 1m.	510	GEOLOGY	1			يدورسول كاروسول	hake			∏₽	SHORT	#
545.15: few 2mm galneti and pyrihotite aggregates - 1mm 50.50; 561.35; 561.50; 564.01 Regmetitic quarts veni to 1 cm @ 152.20° to cole axis, pyrhotite- bearing, as described above. 569.10: Specks of chalcopyrite in pyrhotite; cross-jtactures occupiets by calcite	555 557 557 557 557 555 555 555 555 555		- 549.31 - 549.95 - 550.50 - 550.75 - 550.75 - 551.47 - 551.47 - 552.10 - 552.00 - 553.10 - 553.10 - 553.10 - 553.94 - 553.94 - 553.95 - 553.05 - 553.05 - 553.05 - 553.10 - 553.05 - 553.05 - 553.05 - 553.10 - 553.05 - 553.05 - 553.10 - 553.05 - 553.05 - 553.05 - 553.00 - 555.70 - 555.70	はなっていた。 「ないです」 していたいです。 していでいででででいです。 していでいです。 していでいでででででででででいです。 していでででででででででででででででででで	ggregate Det: upient Sump ets in the mare j avgillites. chips ent bedded zohe y sections are ent-bedded; harson Units slightly slumped ssaggregates. Ss-bedded to the bedded to the bedded the bedded		X			- - - - - - - - - - - - - - - - - - -	555 80 100 100 100 100 100 100 100 100 100 1	-

DATE 17 MAY



LOGGED BY F.R.EDMUNDS

DATE 17 MAY

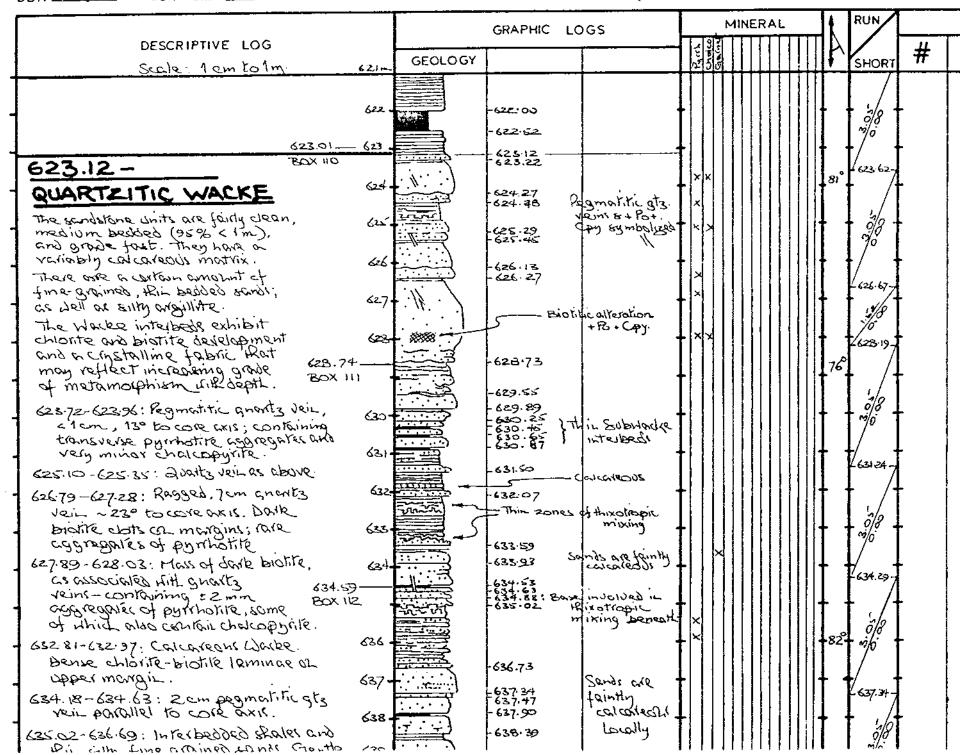


.

DATE 18 HAY

DESCRIPTIVE LOG Scale: 1 cm to 1m. 603- GEOLOGY 604.45-605.50: Set of colute-faced fractures, slightly chloritic, @ ~22 ³ to are axis. Brittle-fracture, no slickensiding: recent? 604.25 BOX 107 607 608 608	603.27 603.70: Soft-60k discogregation 604.34 604.34 604.62 605.77 605.77 605.77 605.77 605.72 605.74 607.13 607.57: LO & - cast base 608.26 609.13		BS ⁶ SHORT # 50 50 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2
604.45-605.50: Set of colute-faced fractures, slightly chloritic, @~22 ³ to care axis. Brittle-fracture, no slickensiding: recent? 607.607.607.607.607.607.607.607.607.607.	603.27 603.70: Soft-60k discogregation 604.34 604.34 604.62 605.77 605.77 605.77 605.77 605.72 605.74 607.13 607.57: LO & - cast base 608.26 609.13	₹ -	- 603 87 - 603 87 - 603 87
604.45-605.50: set of colute-faced fractures, slightly chloritic, @~223 to care axis. Brittle-fracture, no slickensiding: recent? 607 607 607	- 603.86 discog vegetie - involicint slumping - 604.34 on small scale - 604.62. - 605.17 - 605.27 - 605.45 - 606.45 - 606.94 - 607.57 : LOON - cost base - 608.26 - 608.26		85° 70
607 607 607	- 609.13 - 609.13	+	4006-86-
	(cg.13		3/2
	1510 ped seguence.		1/0
609.42-623.12 60 BANDED ARGILLITES Varying to Cobur-Banded Locally. There is a censide lable anount 64.73	- 610.50		80 0/9 7/0
of Marker material, locally Box 108 Severating Marker Lamination. Ryrrhotite occurs throughout as as a <1mm aggregates, frequently in	612.28 612.65: Pyrchotite. 612.76 concentrations in boxe of bed.		62.95
bedded bandi to ~ 15% to.	-614.03 -615.50	* x x x x x x x x x x x x x x x x x x x	
69.42-609.63: Slumped sequence. 616 Does this record the shock that triggered the 100 m of turbidites 617 overlying? 617.45	616.28 616.77 617.25	+ × × × ×	80
10.50-612.28:60% Marker lams. Box 109 17.85-618.17: Hard, chloritic, biotitic, green-madre; altered. 19.05-620.57: Fine grained sandy beds.	618.58 619.05 619.22 619.35 619.55 619.55	+ XX XX	

DATE 18 MAY



		GRAPHIC LC	GS		MIN			RUN	L
DESCRIPTIVE LOG Scale: 1 cm to 1m. 639 m	GEOLOGY						P	SHORT	
current effects, no closs-bedding. Minior bedded aggregater of pyrrhotite 640.									
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642.				$\left \right $					-
<u>८</u> 43.							┟	+ .	ł
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546	-								+
647-	-								
648-	-						ļ	+ -	$\frac{1}{1}$
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653.								↓ .	ļ
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DDH 349 85-2

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CORE SIZE HY FROM 629.90 TO 60200 LOGGED BY FREDWORKS

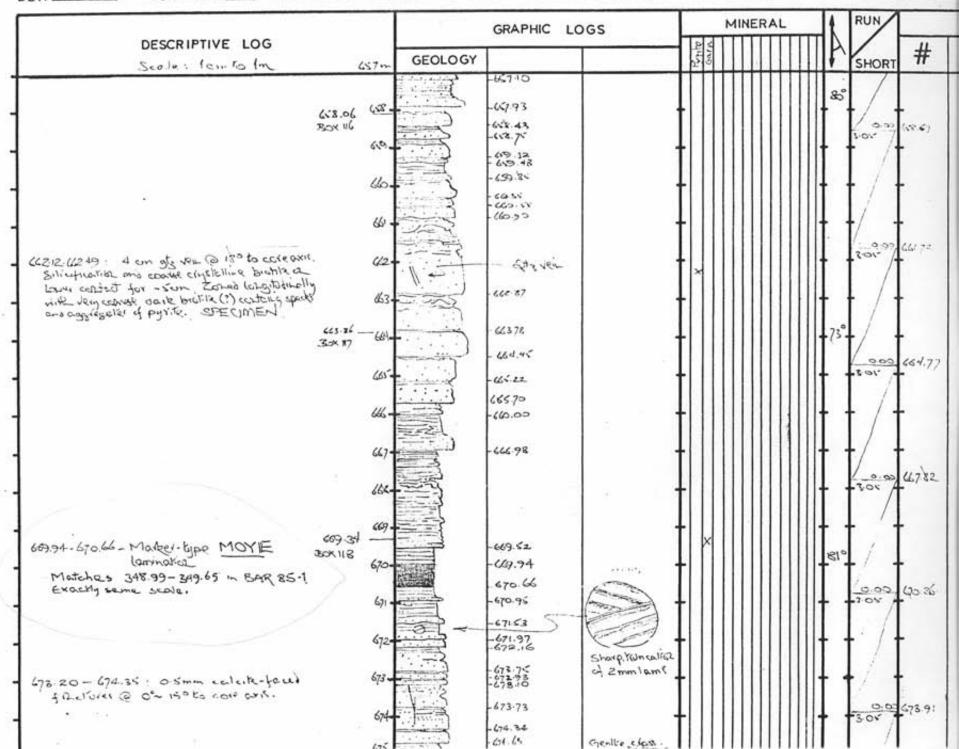
DATE 19 MAY

		GRAPHIC LOGS	MINERAL	RUN
DESCRIPTIVE LOG	GEOLOGY			SHORT #
Scole: 1cm to 1m	440 440 441 442 443 441 442 444 444	-459.17 -459.17 -440.97 -440.97 -442.05 -442.05 -442.30 		BO ⁴ 0.00 649.53 0.00 649.54 0.00 649.54 0.00 649.53 0.00 649.53 0.00 649.53
	655	- 653.00 - 653.58 - 653.58 - 655.25 - 655.25 - 655.25 - 655.22 - 655.25 - 6	- · · ·	0.92 ers.63

DDH 949 88.2

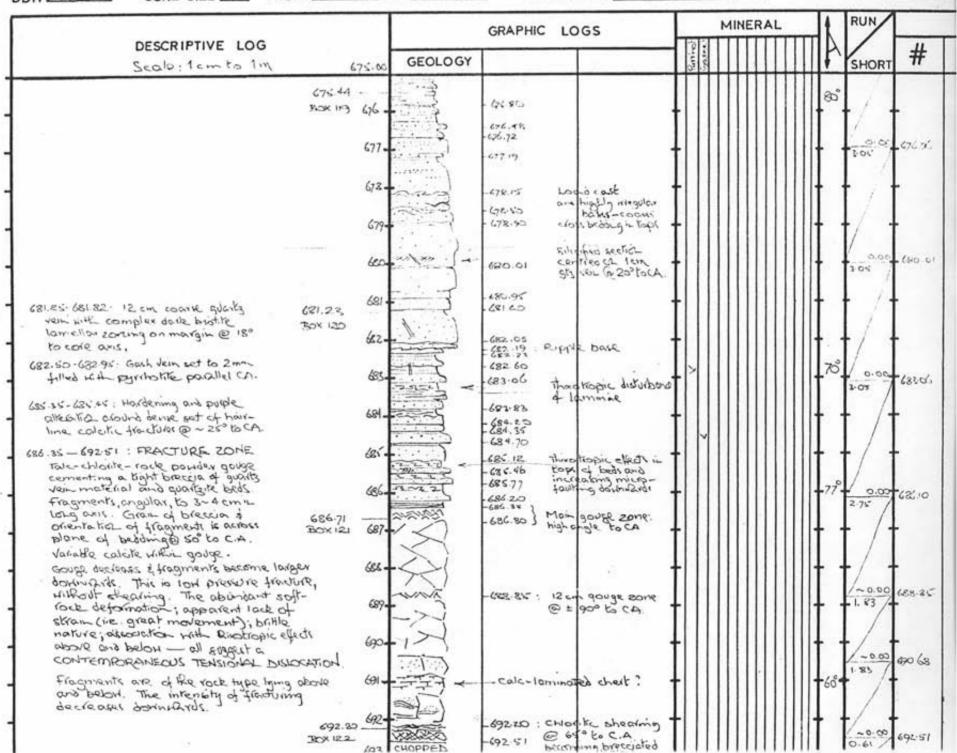
LOGGED BY F.R.EPMUHSS

DATE 20 MICH



DDHBAR 23-2

DATE 24 MAY

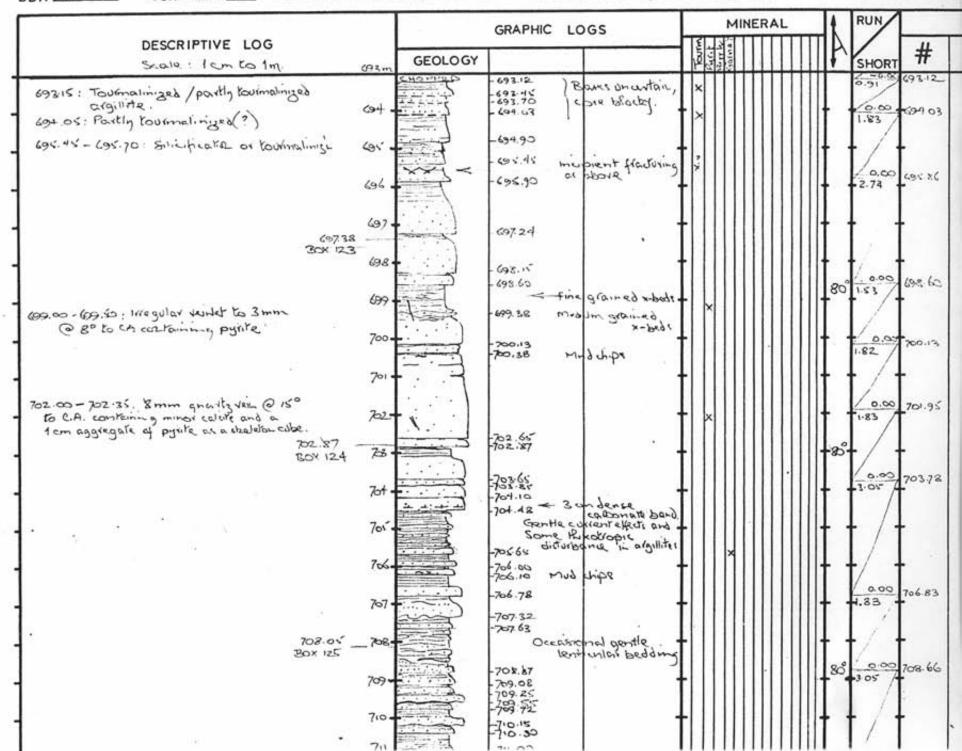


DDH BAR SS.2

CORE SIZE HX FROM 693.00m TO THOOM

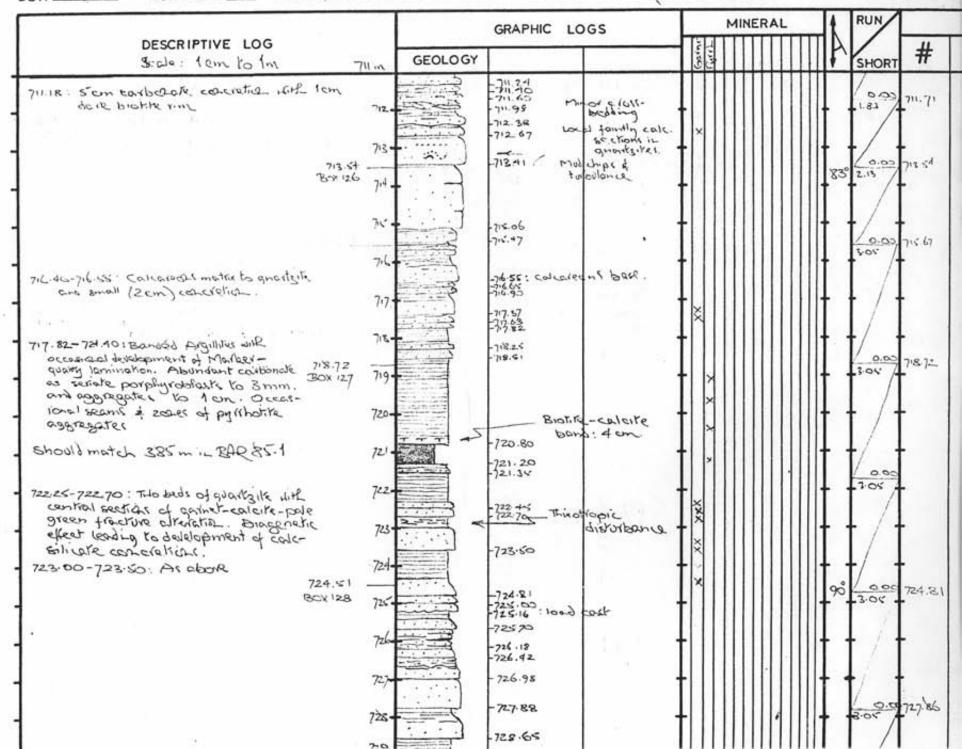
LOGGED BY FREISMUNDS

DATE 24 MAY



DDH PAP 89.2

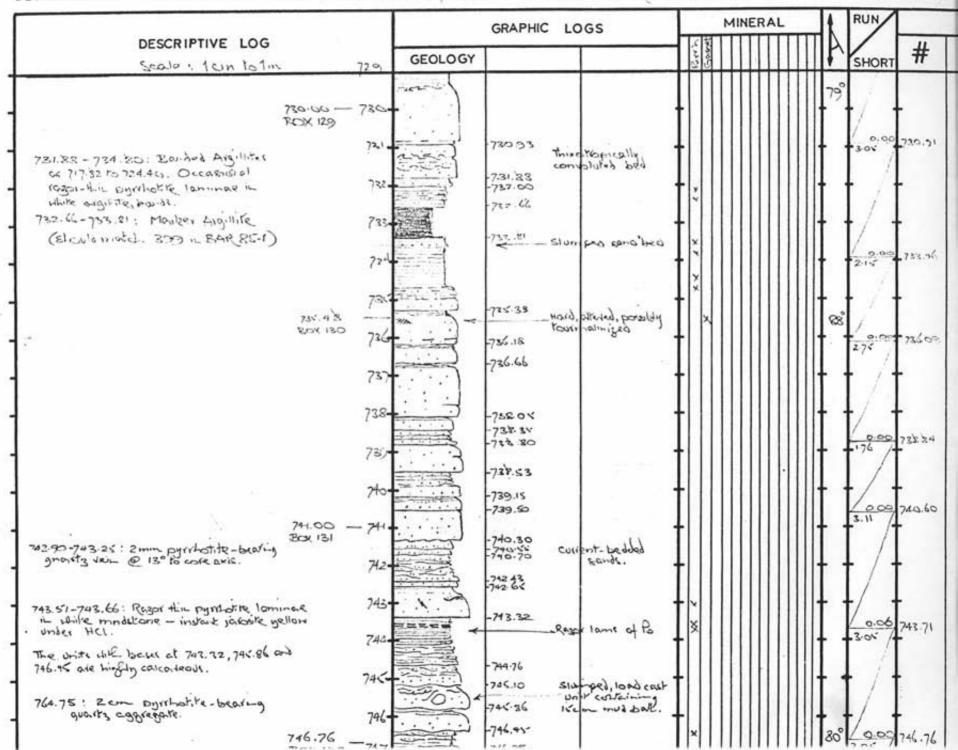
DATE 24 MAN



DDH TAR AA.2

LOGGED BY FREDMUNICS

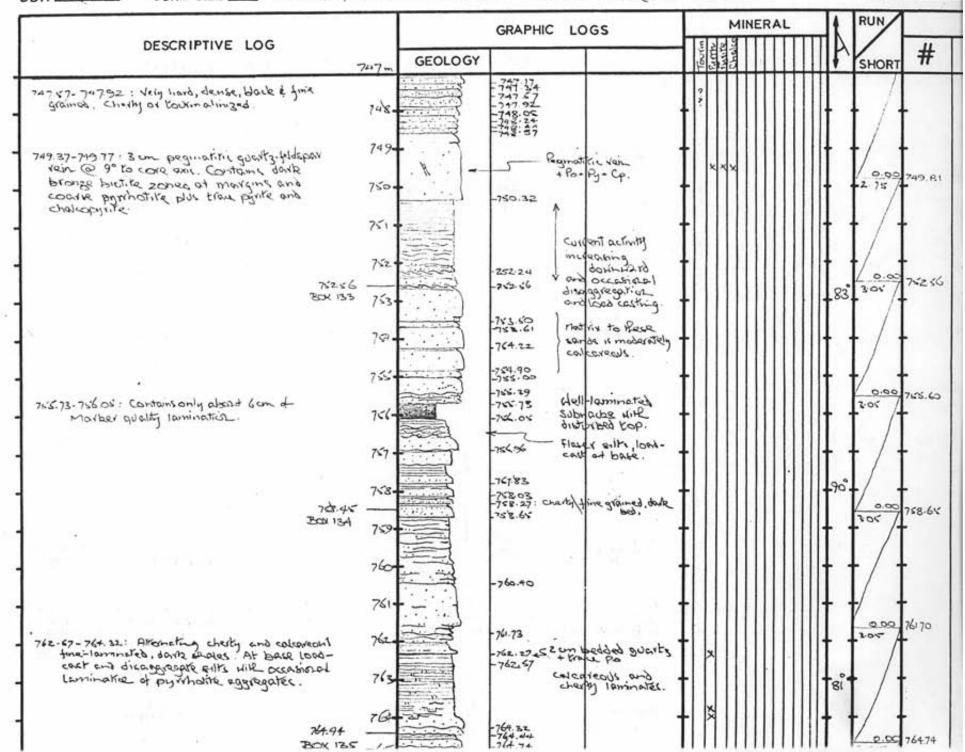
DATE 25 MAY



DDH.BAR 38.2 CORE SIZE HX FROM 747.00m TO 705.00 m

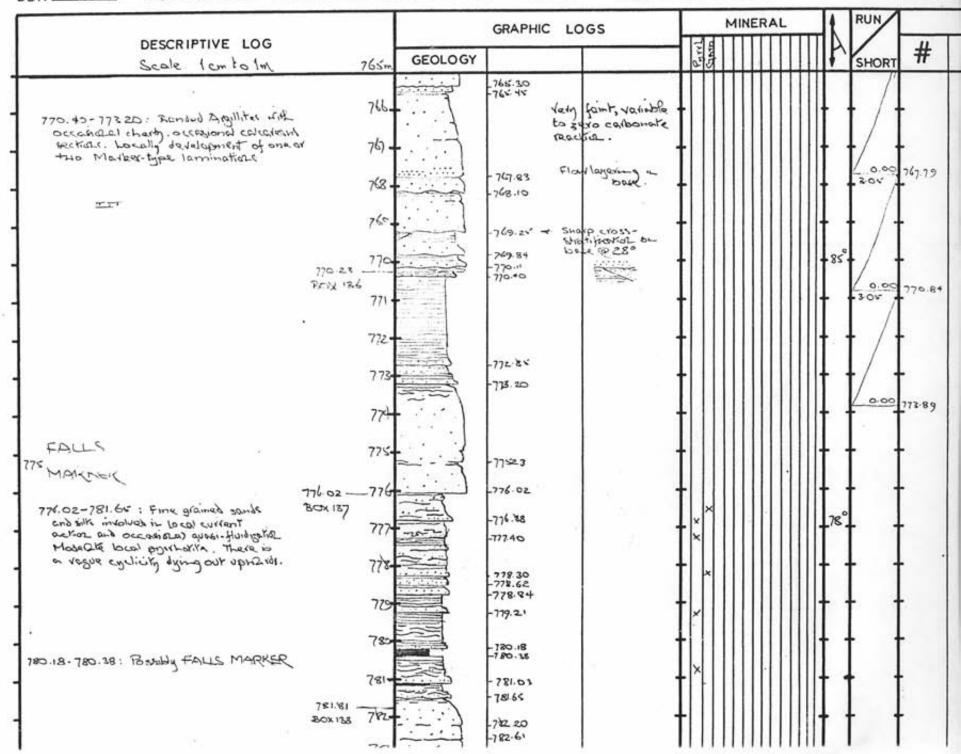
LOGGED BY FREDMUNDS

DATE 26 MAY



LOGGED BY FREDMUNDS

DATE 26 MON

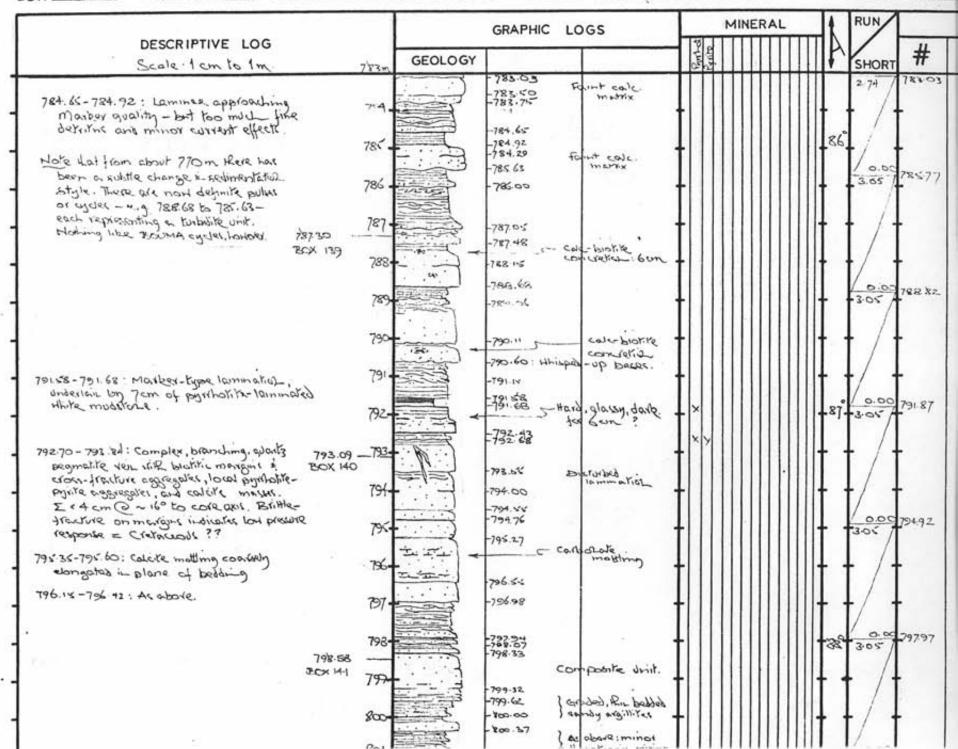


DDH BAR 89:2

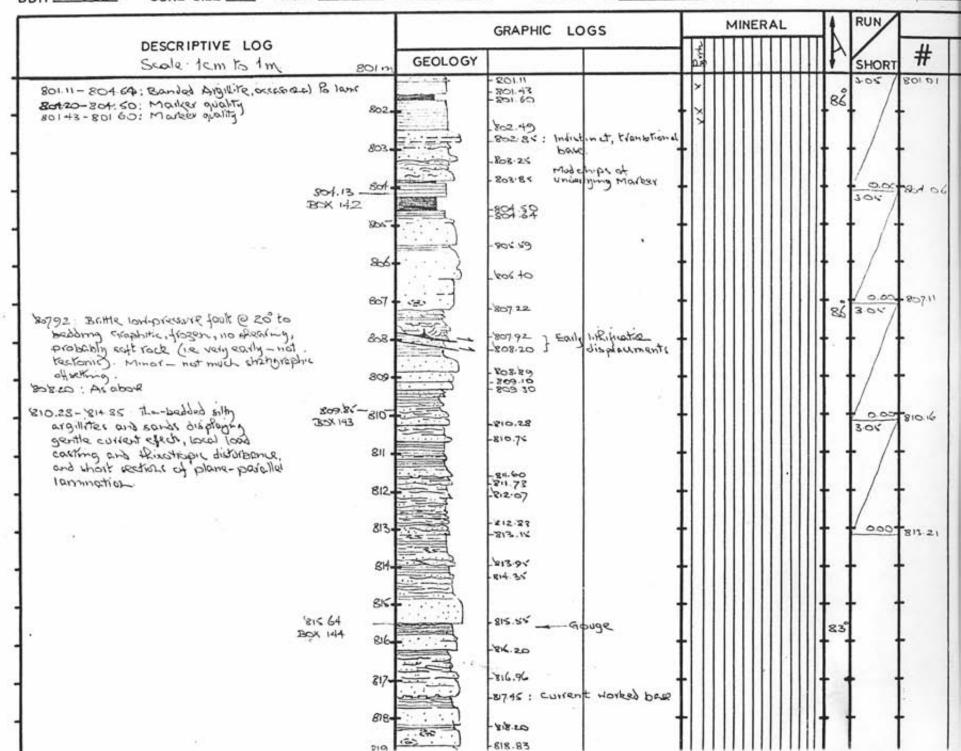
CORE SIZE HX FROM 783.000 TO 801.00 m

LOGGED BY F.R. F.DMUNDS

DATE 26 MAS



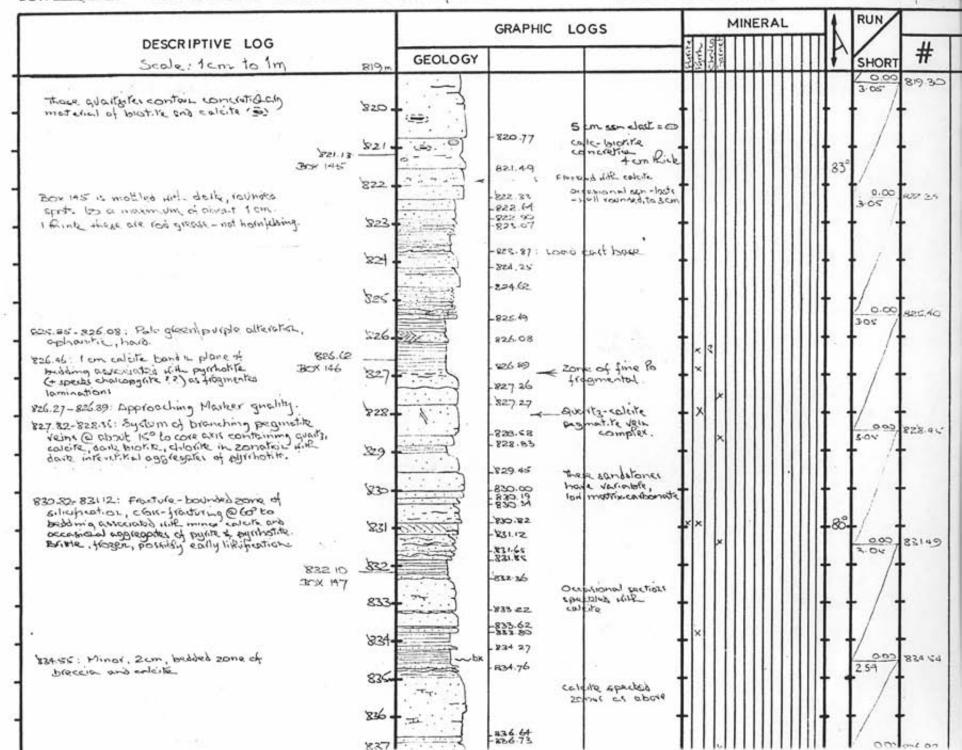
DATE 27 MAY



DDH BAR BB.Z

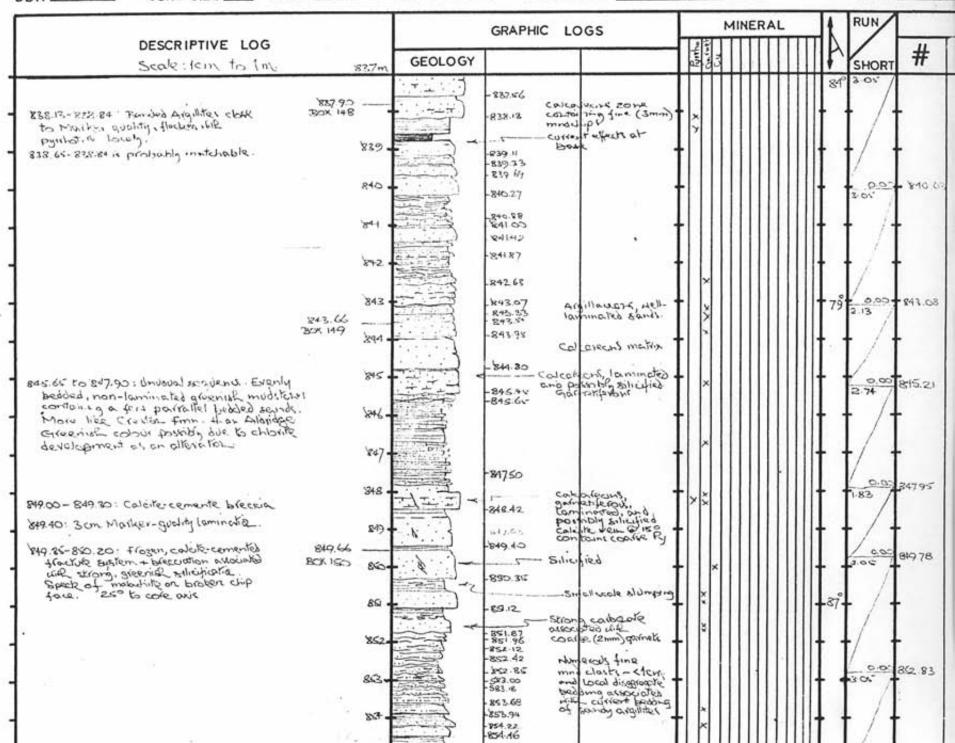
LOGGED BY F.R. EDMUNDS

DATE 27 MAN



DDH BAR BB.2

DATE 28 MAN

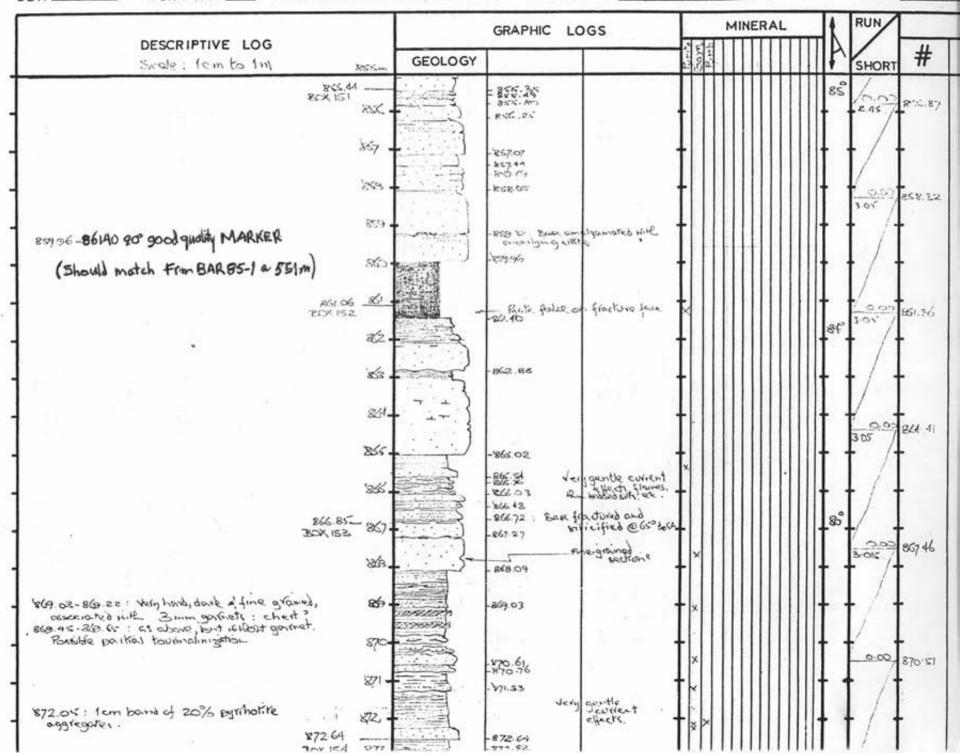


DDH RAP 38-2

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LOGGED BY FREDMUNDS

DATE 29 Mar

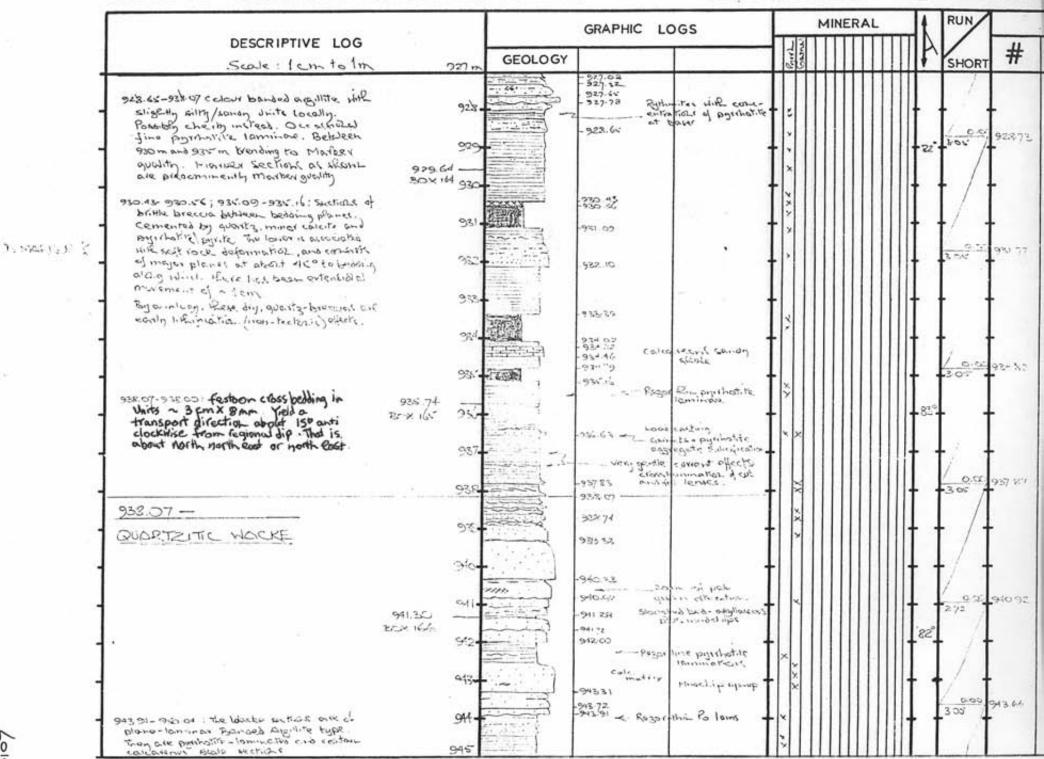


JDH SAR 23.2

CORE SIZE HX FROM 927. COW, TO 45.00 ...

LOGGED BY FR. E.M-IUNE 1

DATE 31 MAY



10

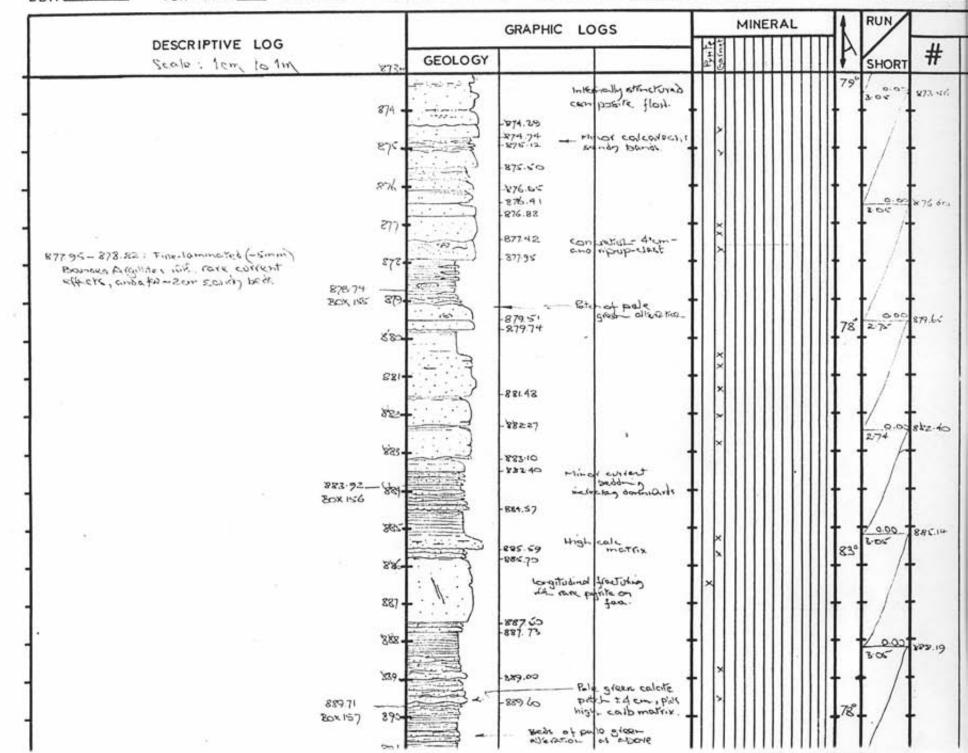
DDH PAR 38.2

RELINE

890

LOGGED BY F.REDNINADS

DATE CO MON

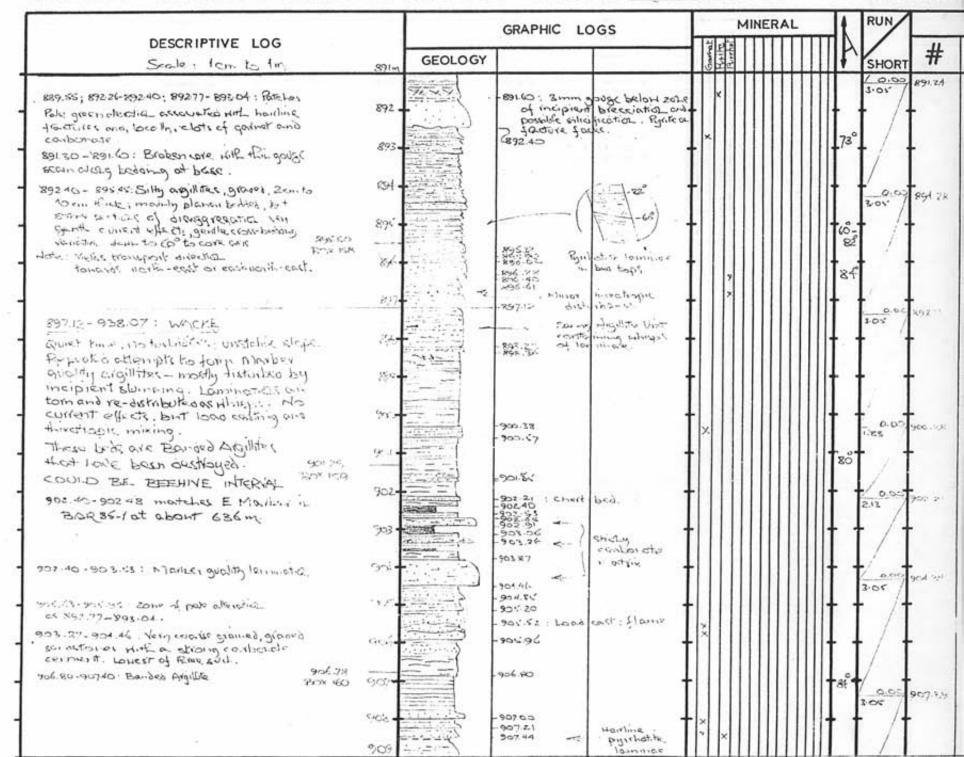


JDH BAP SWIZ

CORE SIZE HX FROM 891.00m TO 9.00 m

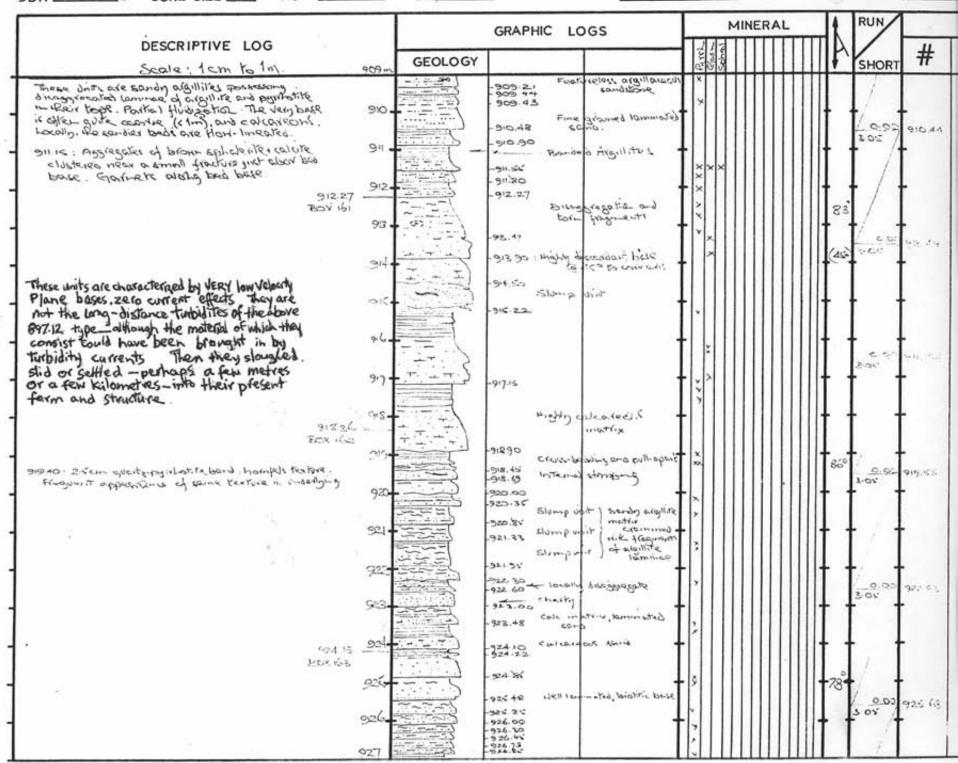
LOGGED BY FREDMUNDS

DATE 30 MAR



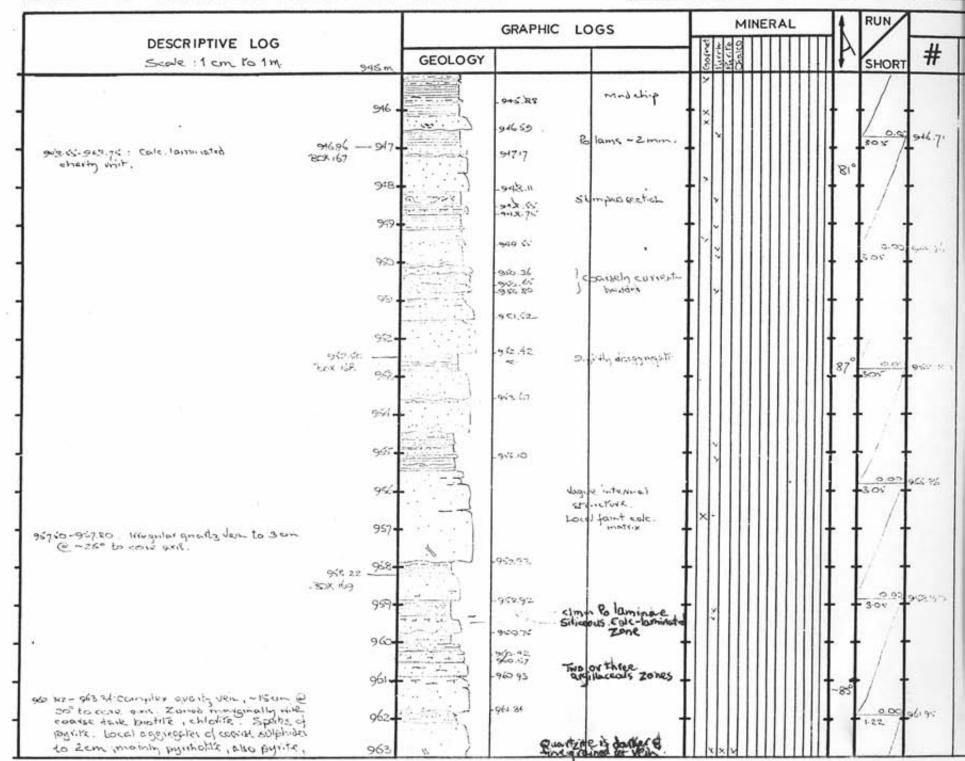
DH BAR BR. 2 CORE SIZE HV FROM 909.000 TO. LOOM

DATE 31MAN



JDH DDH 88.2

DATE 1 JUNE

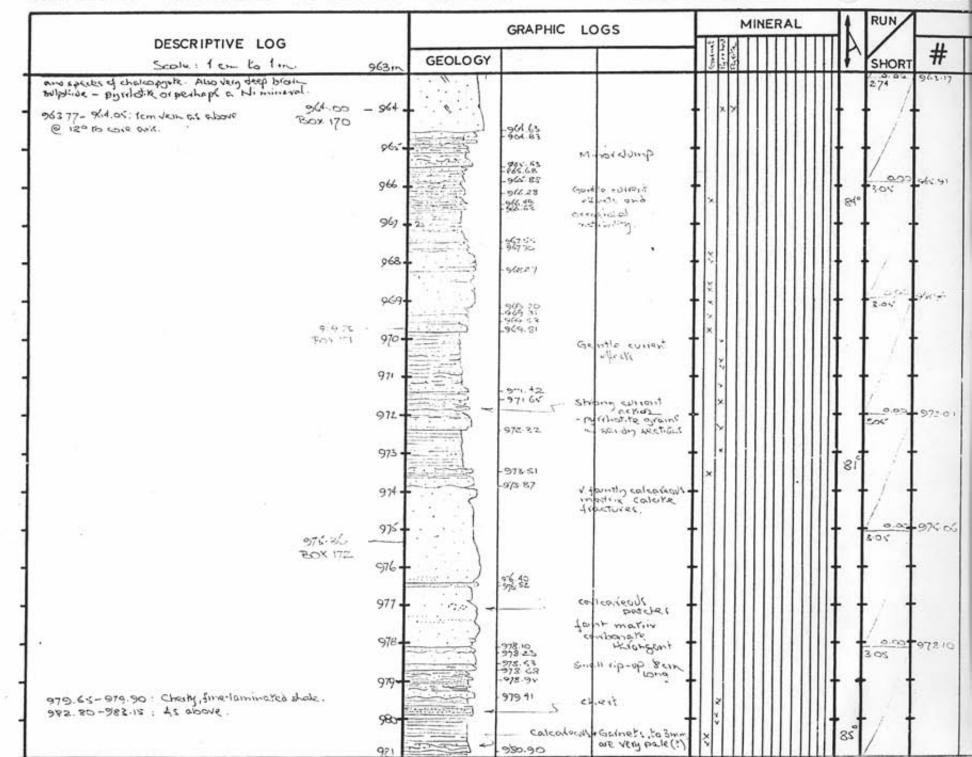


DH BAR 88.2

CORE SIZE HY FROM 963.00 TO. COM

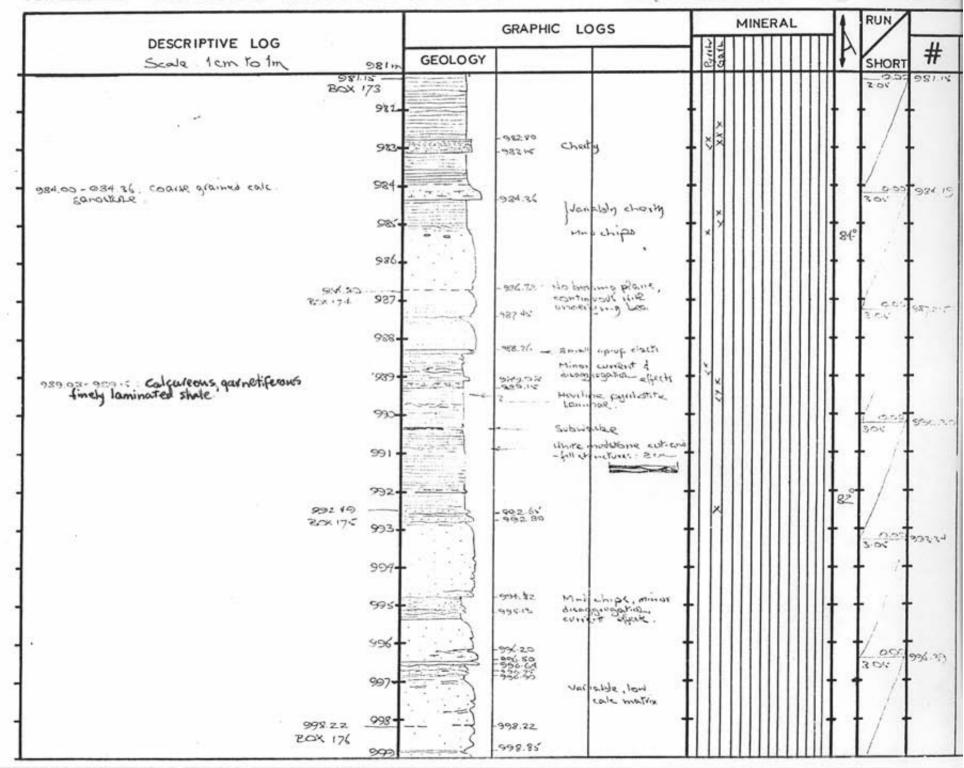
LOGGED BY FREDMUNDS

DATE 1 JUNE



JDH BAR 38.2

DATE 2 JUN

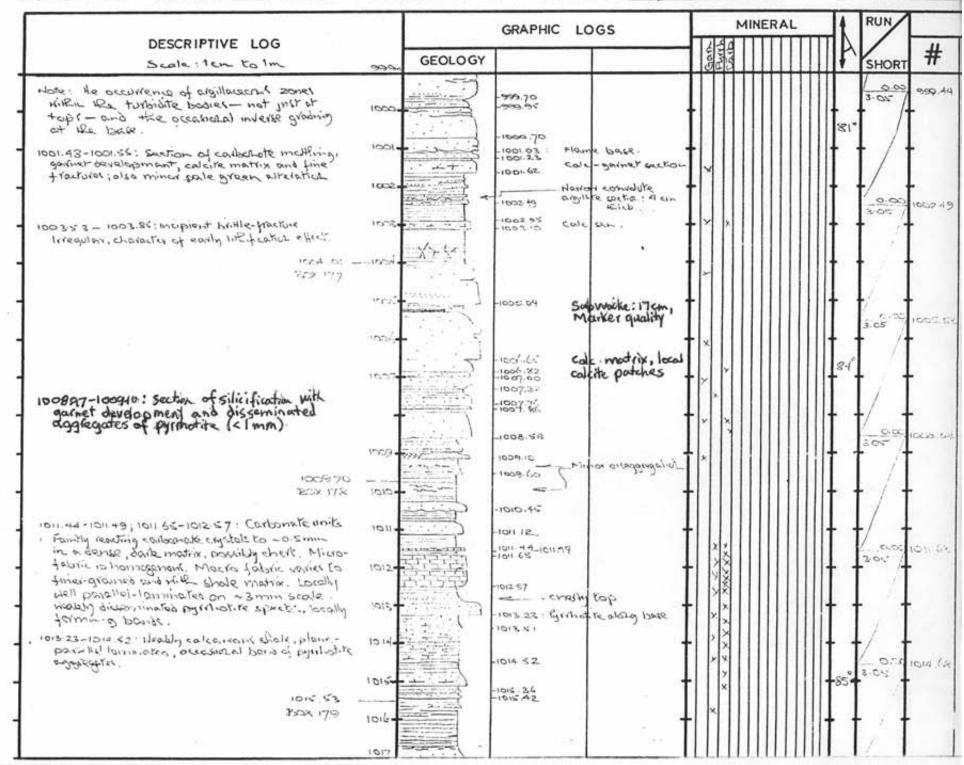


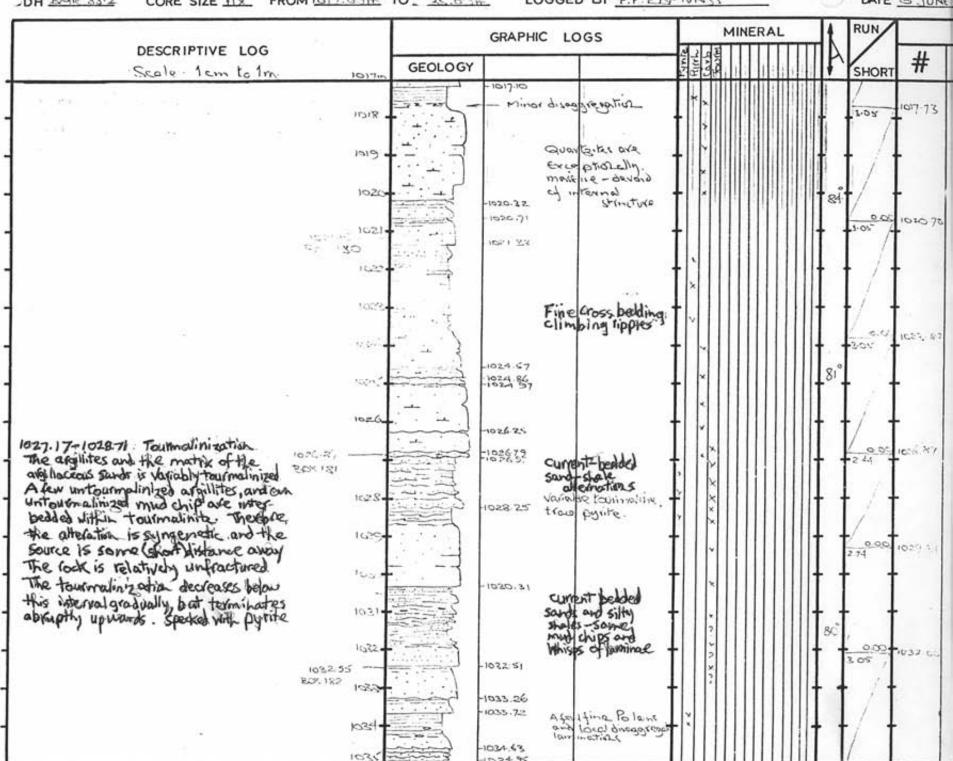
JDH BAR 88.2

CORE SIZE HX FROM 999 00 TO _ 17.00 -

LOGGED BY FREDHUNDS







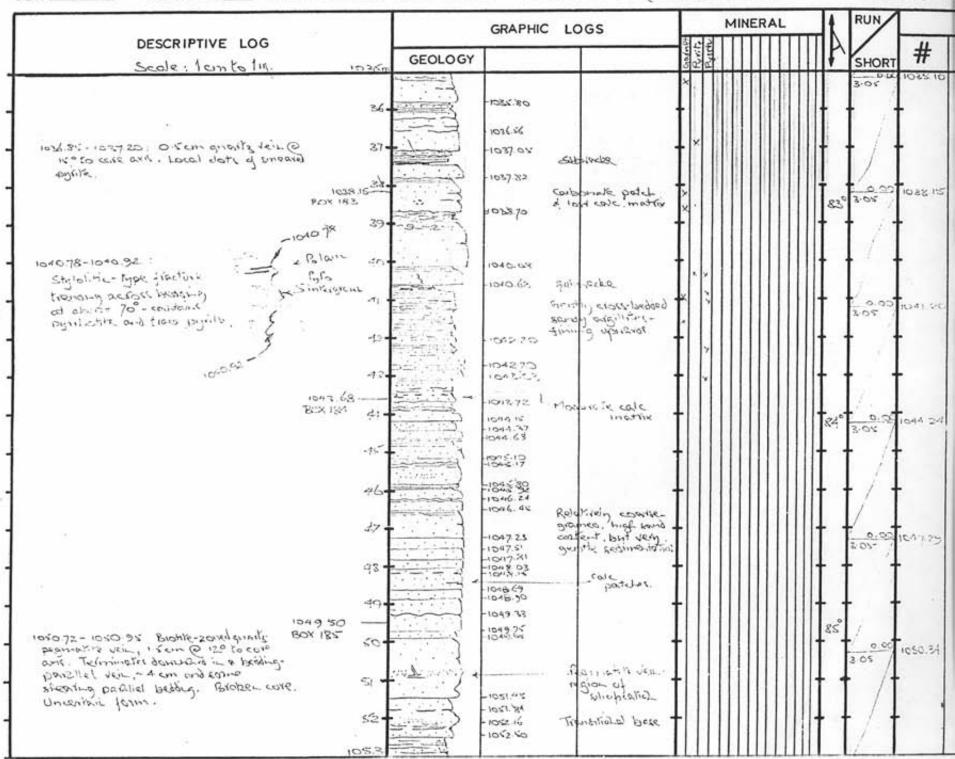
DH BAR 83.2 CORE SIZE 11X FROM 1017.00m TO 15.00m LOGGED BY F.P. E.M. WHON

DATE 3 JUNE

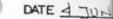
JDH EAR SAZ

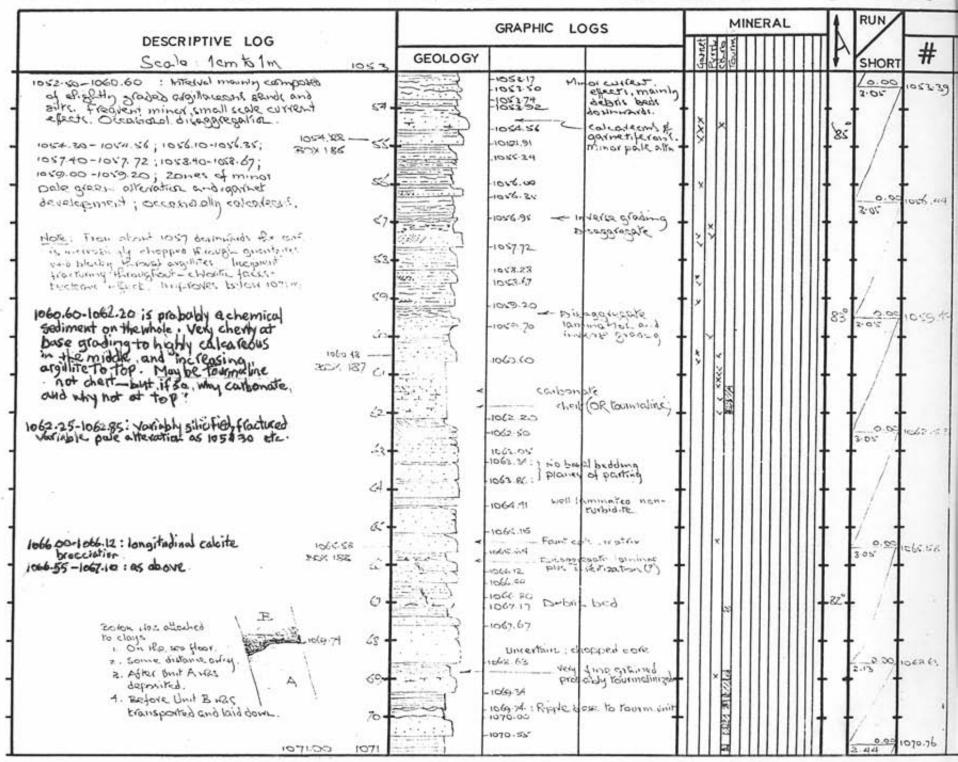
LOGGED BY F.R.EDMUNDY

DATE 4 TUNE



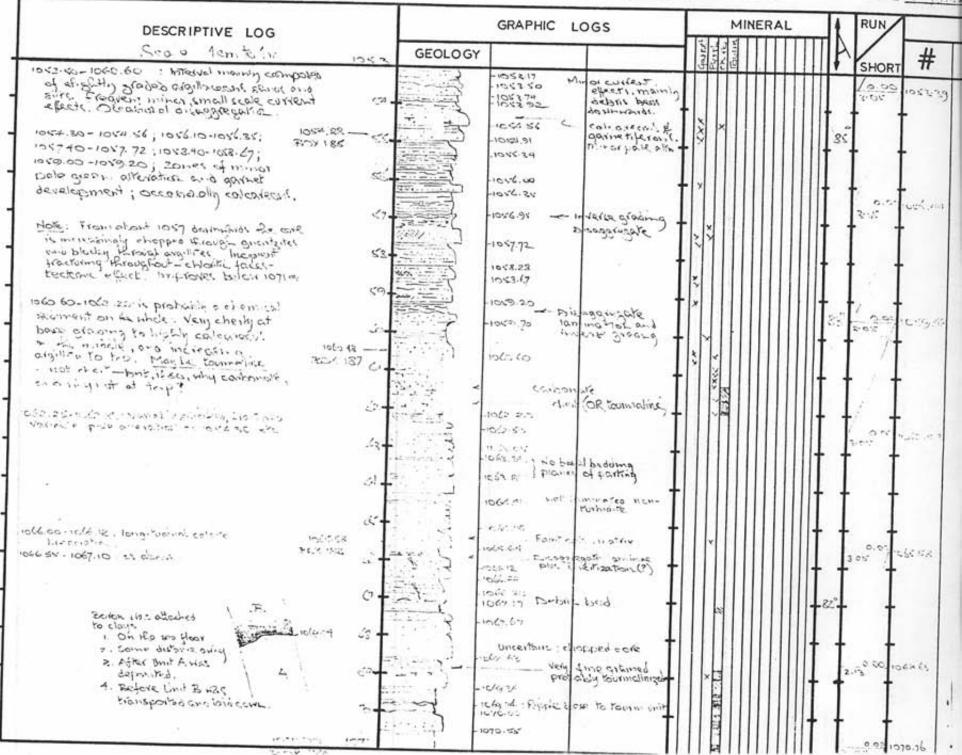
DH 348 89.2





DH 245 89.2

DATE A TUN

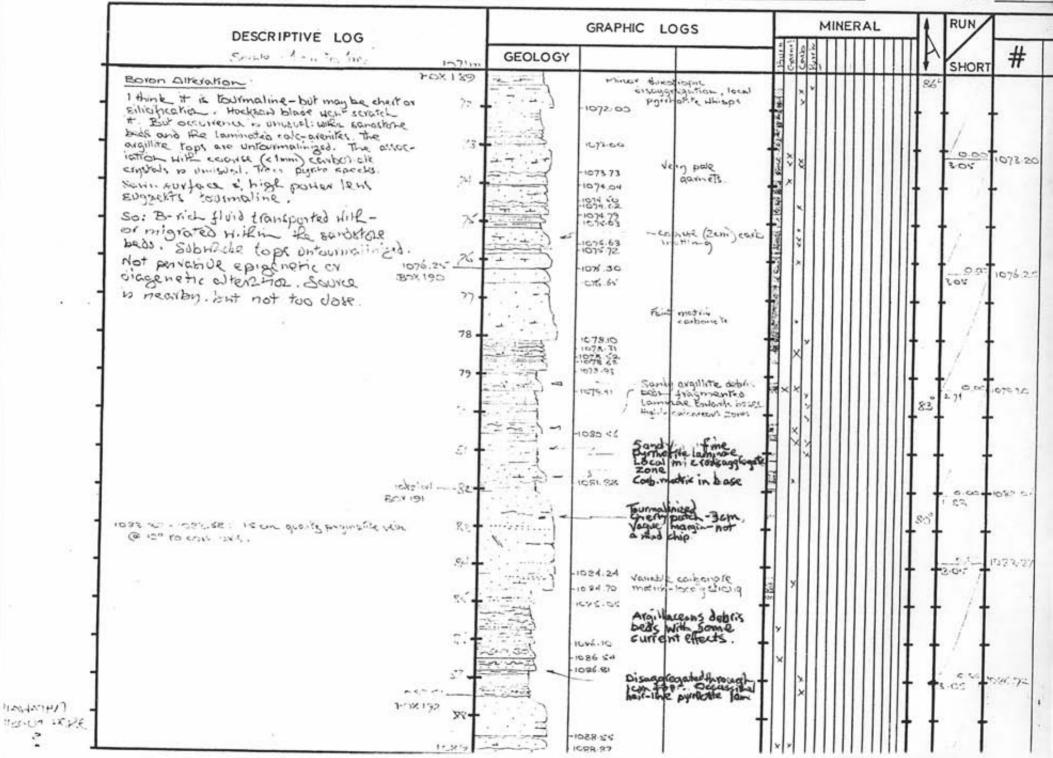


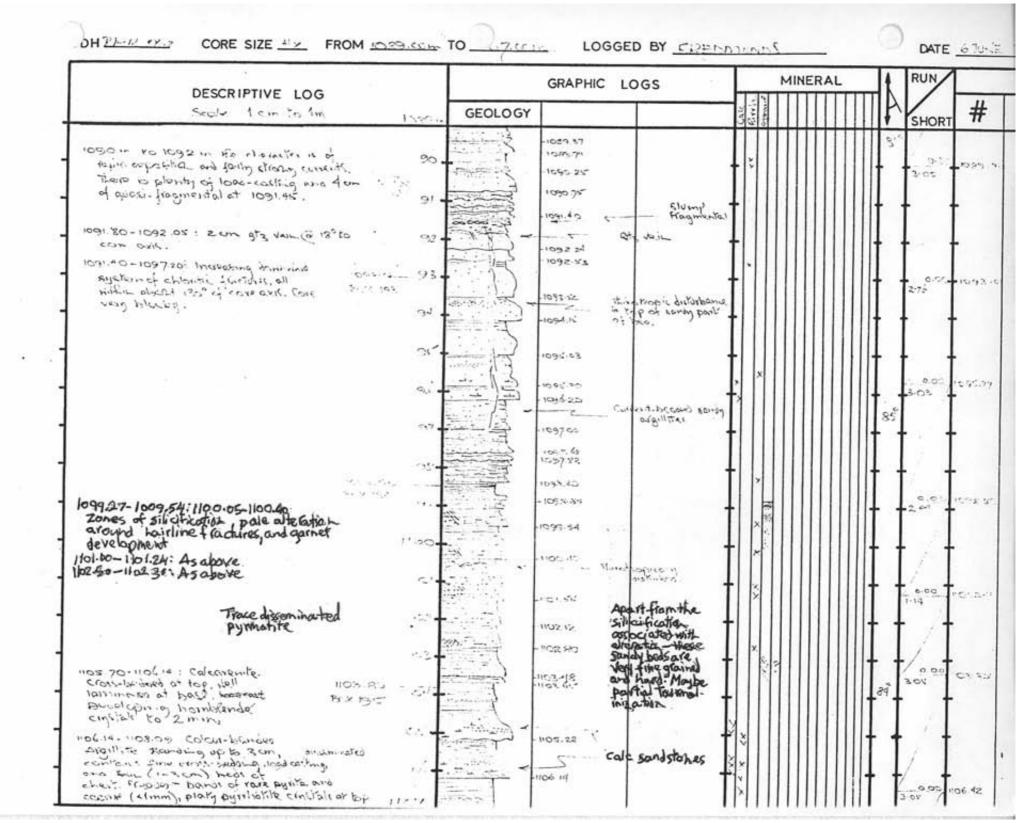
DH 144 22.2

CORE SIZE TY FROM TO

LOGGED BY FREDHULLS

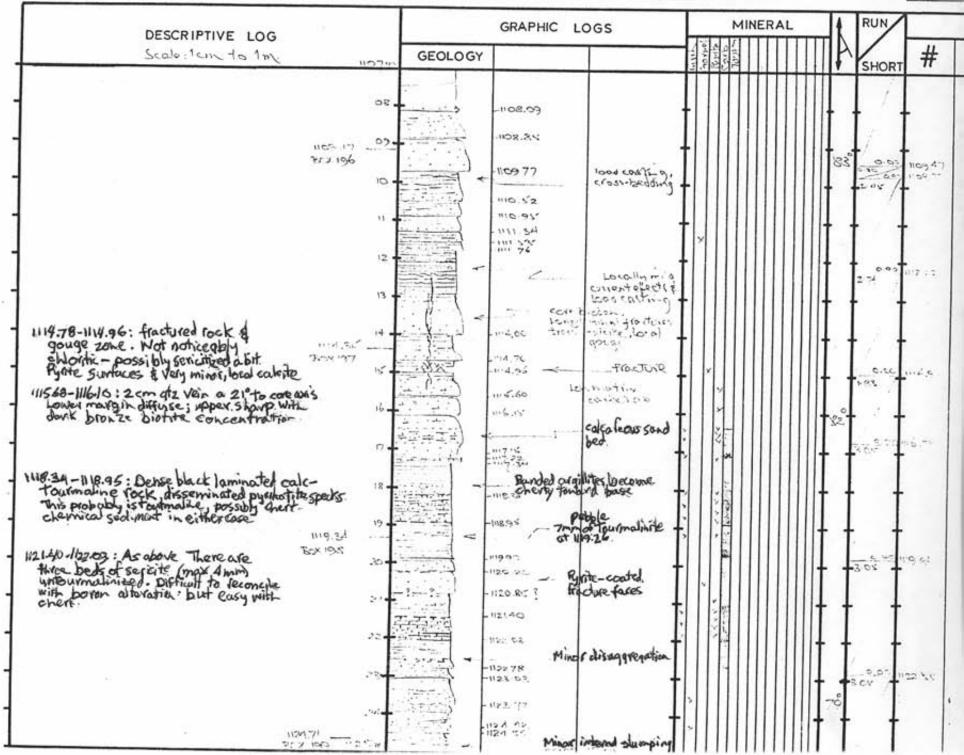
DATE 5 TUNE





DHEAT She

DATE 8 AUND

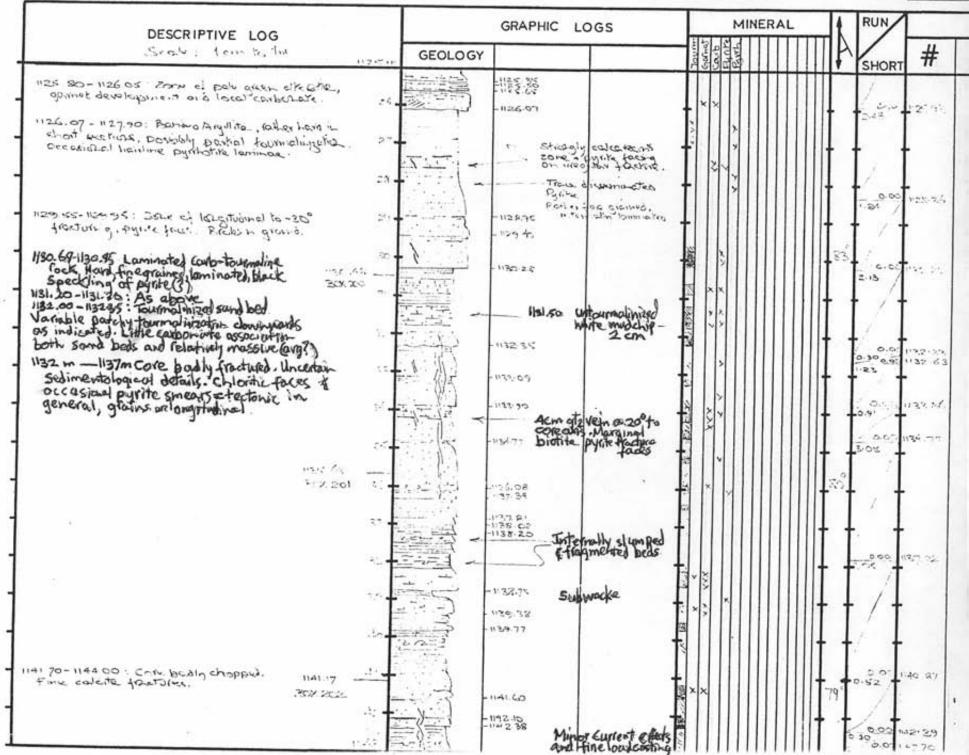


DH SAL SAC

CORE SIZE HZ FROM MESSION TO

LOGGED BY TELETINELS

DATE & TONTE,

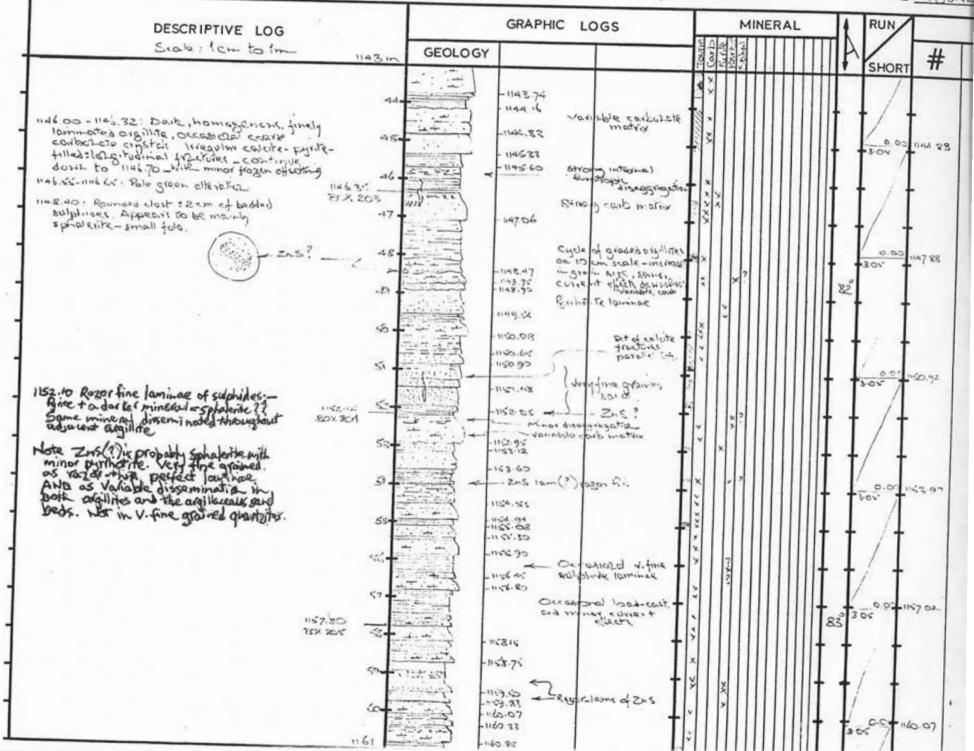


DH BAP 88-2

CORE SIZE HX FROM 1143.00 TO 1.00 m

LOGGED BY EREDHUNDS

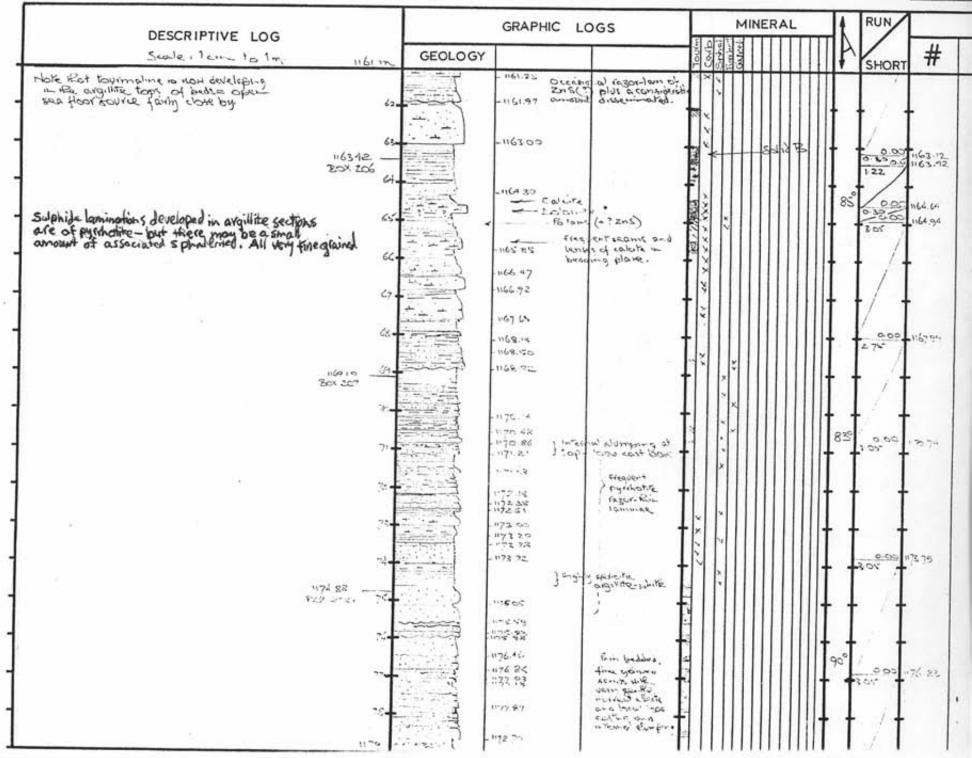
DATE 9 JUNE



JH 24+ 88.2

LOGGED BY F.R.EDMUNDS

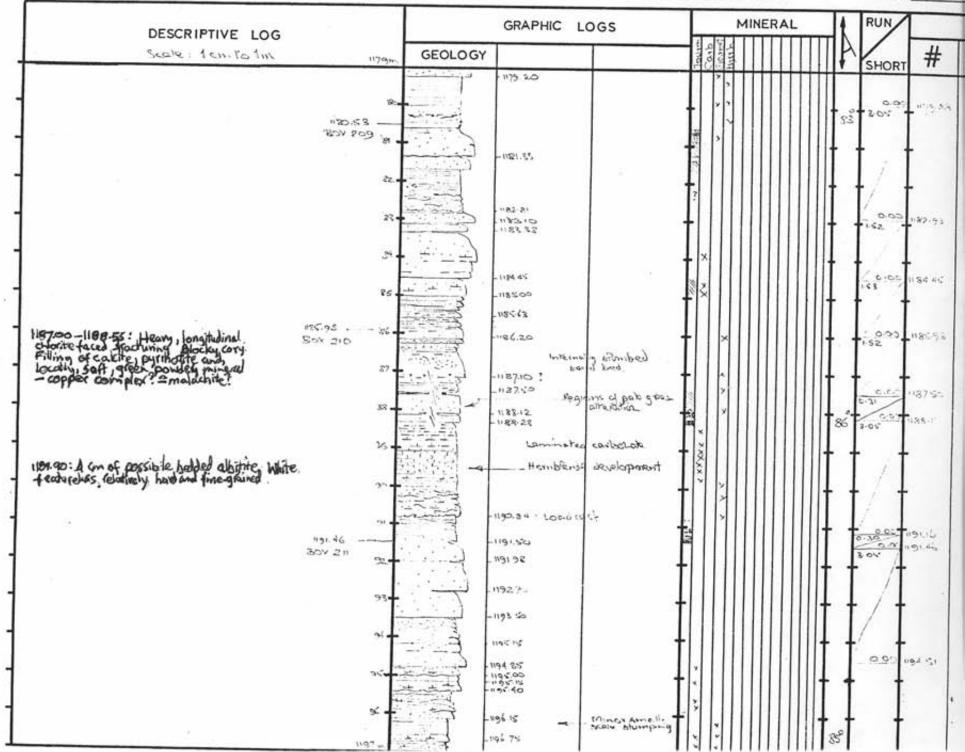
DATE 9 JUNE

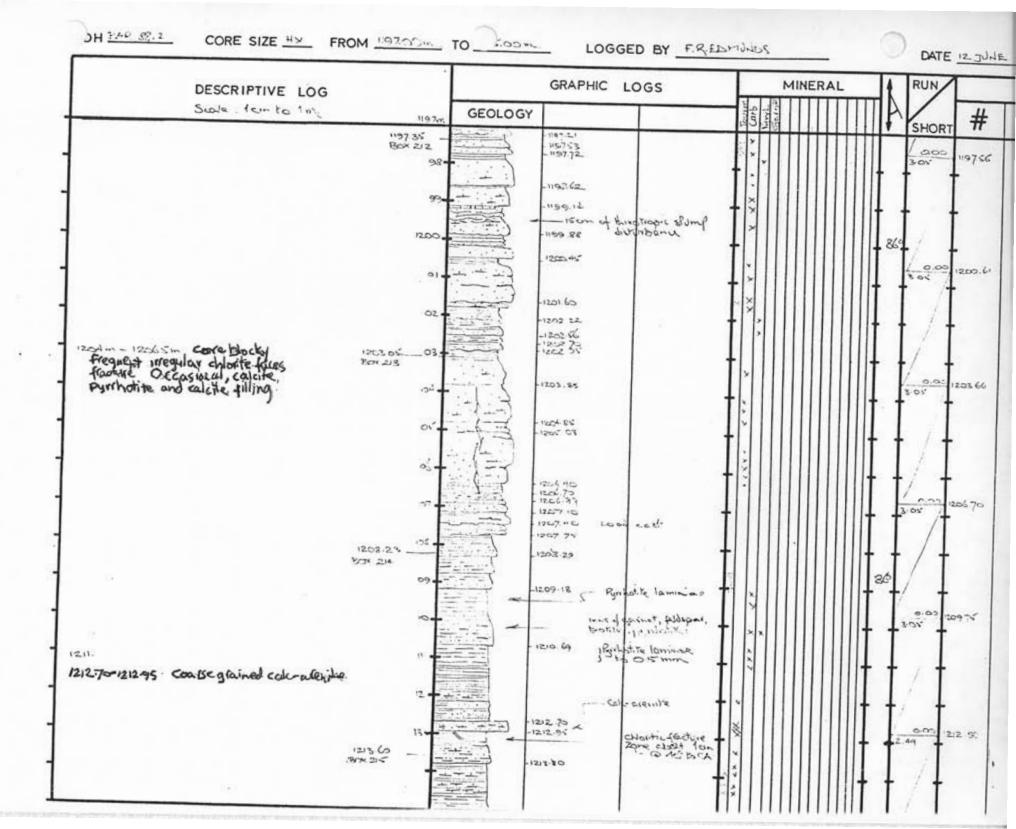


DH BAR 201.2 CORE SIZE HX FROM 1179.0151 TO 1 00 m

LOGGED BY FREDUNDS

DATE 12 JUNE

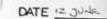


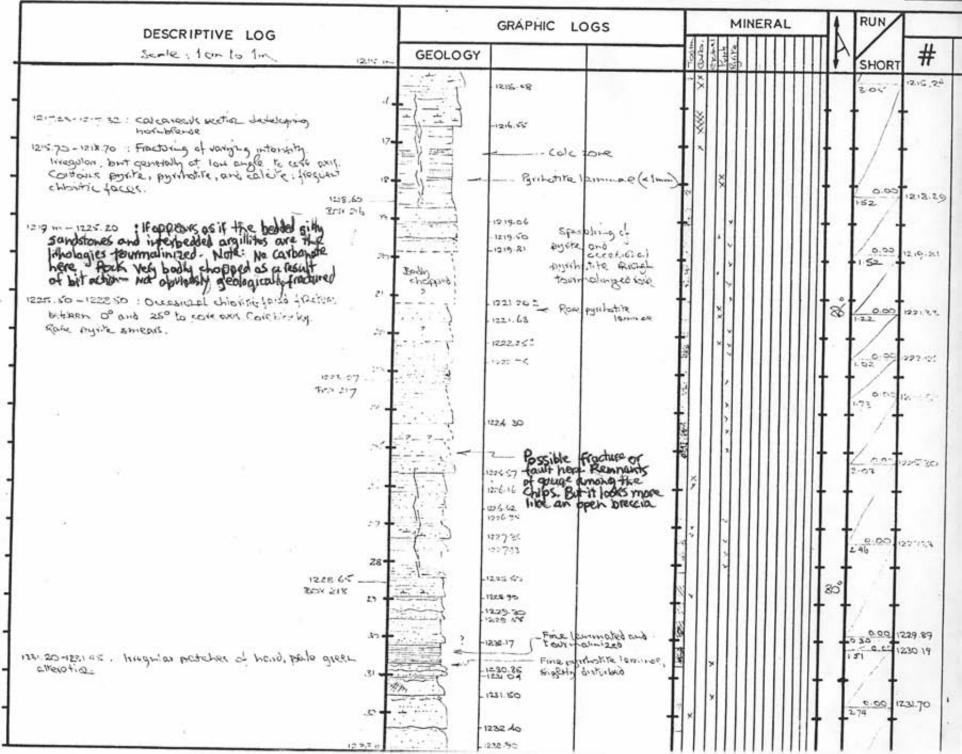


DH 348.13-2

CORE SIZE HX FROM 1215.00 TO _ Scom

LOGGED BY F.R. ELLING





DESCRIPTIVE LOG	GRAF	HIC LOGS	MINERAL	RUN
Scale : tom to Im 1233"	GEOLOGY		Contro Contro Partice Farty	SHORT #
1234 m - 1237.80: Fracture zonce centred On FAULT form 1236.10 to 1236.25 Ore Bady chopped. frequent chloritic takes, accessical pyrite anneal. apparently varying from about 650 to parallel to core axis. 1236.10: 3 cm of fault biecere inounded fragments to 5 mm in block mylomite	×	s } mind chips	• · · · · · · · · · · · · · · · · · · ·	79 ¹⁹³ ^{1234,4}

39

-10

-11

42

43

34

-45

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47

48

49

50

1250.83 -1251H

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-

1229 10

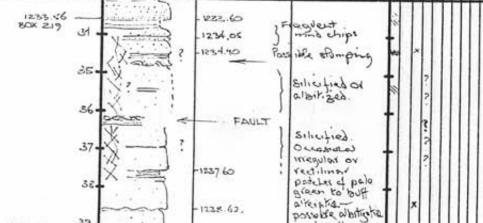
KOX 220

244.95 Tex 221

fragments to some block mylonite. No calcite Boundary by chloritic planes. at 60° to core air

1236,18: 5 cm shorted algillite an gene angle to core and.

This foult may not be large. But it may have been initiated very could, i.e. same related features are not betour (Somps, mud up setc).



1228.62,

1235 23

1241.95

1242.52

12.43.70

12.44.48

12-46.48

1246 72

1247.17

1249.22

1249.77

1250.36

1250 90

7

} calc-while

locally

Minor convent

Moderate which affects pour occasional Africa distorbance

calcoliente

Cele 1 ating

1245.95 : No based plane of pailing

High Into sections

Lond costing

zone of high conbort

Leans of cale - pression

E 15 JUNIS

80

205

3.05

0.0'

3.05

3.05-

68

0.00 1239.01

0.00-1242.04

1245.5

0.00 1248.16

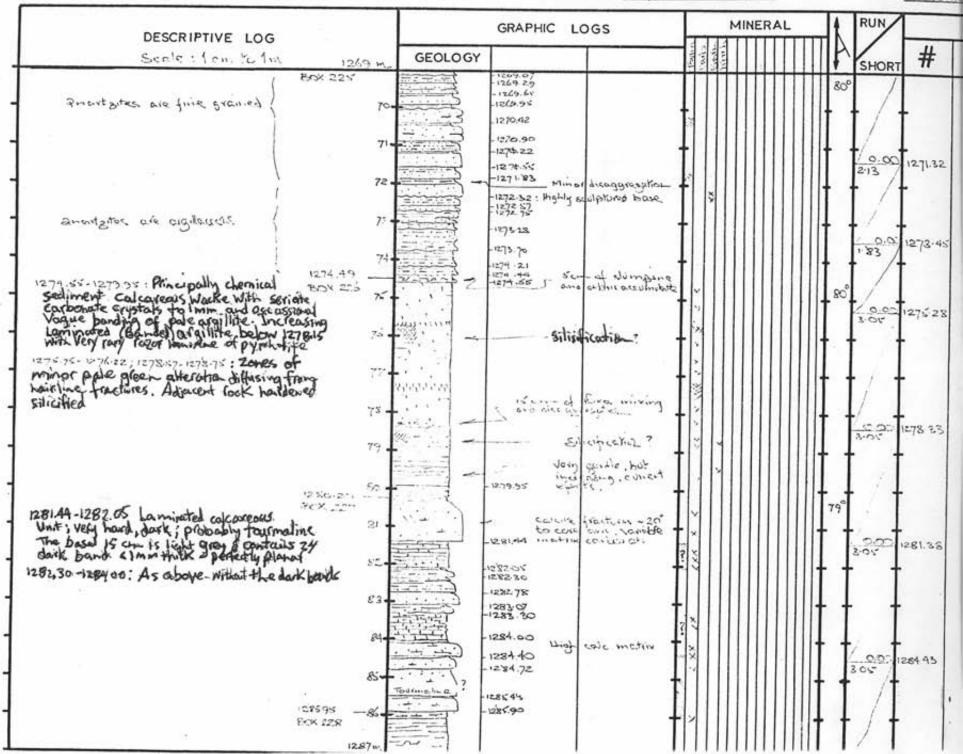
DESCRIPTIVE LOG		GRAPHIC	LOGS	MI	NERAL		RUN	
Scale: Lein to lin 1251	GEOLOGY			Cash And And And And And And And And And And		1	SHORT	#
	the second	- 12.51 %8		×		t-1	SON /	
	2	-1252.10	Occuborial Po lam	1 1 1 1		11	. /1	
	Jan the	-1252 31 -1252 37		× ×			1	
×5	3-		Lammosted	+ 2 1 1 1		łł	•/ +	
		-1252.60	will gradnig, high				1	
		-1254.07	C 1 2	† ¥		† †	3.05	125
-	is a second		Phile is bedood	1		11		
	THE AND	-125534 5	activity and			ΓT	/T	
5		1156-27		+ ,		-78°-	/ +	F
1206.68 1214.223		1256.73					V 1	
	7	140.017.0		t []		t t	0.00	1257
	s-	-1257.95					3.05	
	- 11	-1256.15	contable cale motion,	TI~		ſ Ť	1	
60.05-1260.20; 20me of the pr. googe, browning alteration = all operation of abitization, and ealite		-1258.92 -1259.75	local gale green citeration	4 x		l	14	
	in the second		Bridgriegold Lamina Bridgrie bed	*			/	
0.25 - the gird a pynhot re real @ 12° to C.A. (and the second	1260.32	Bit Brit bed	t		+ +	0.00	
il 20-1262.00 : thenderlin , frequest broking-parallel planes of easy backing+ 102-Bitranes chlorini factors. 61	to describerties	-1260.65		Ĵ.		1	5.0X /12	250
Rouse appears to be then lacked graded south and family and many ang mater.	3			T		r t	- / Ť	
1262.24	N 2	1262-12				- 1	1	
2.0× 2.24			1 8	5				
	T	1262-84				٠¥	+	
i de			when him yes			5.	2 /12	63
LTO-1260 NO CONJETA	?	leanin at the Details of	Ph. I the Charles and The OC			· †	/†	
678-1262.28 : Randetelles are altered probably as						. L	/]	
725-126.28: triagular contertais conter of white	11 to 12 and 1	1265-20					2000 12	45 2
66	Contraction of the second s	126 .10	1 1		+	+	75 -	
5-		266 70	Sec. and and	X			1	
	4	- C2	- irégular patela			1	/ 1	
65.		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~				1	6	
1269.00 1269m	the second se	268.28		111111	111111 T	13	0.00 126	68.2

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DH 249 832

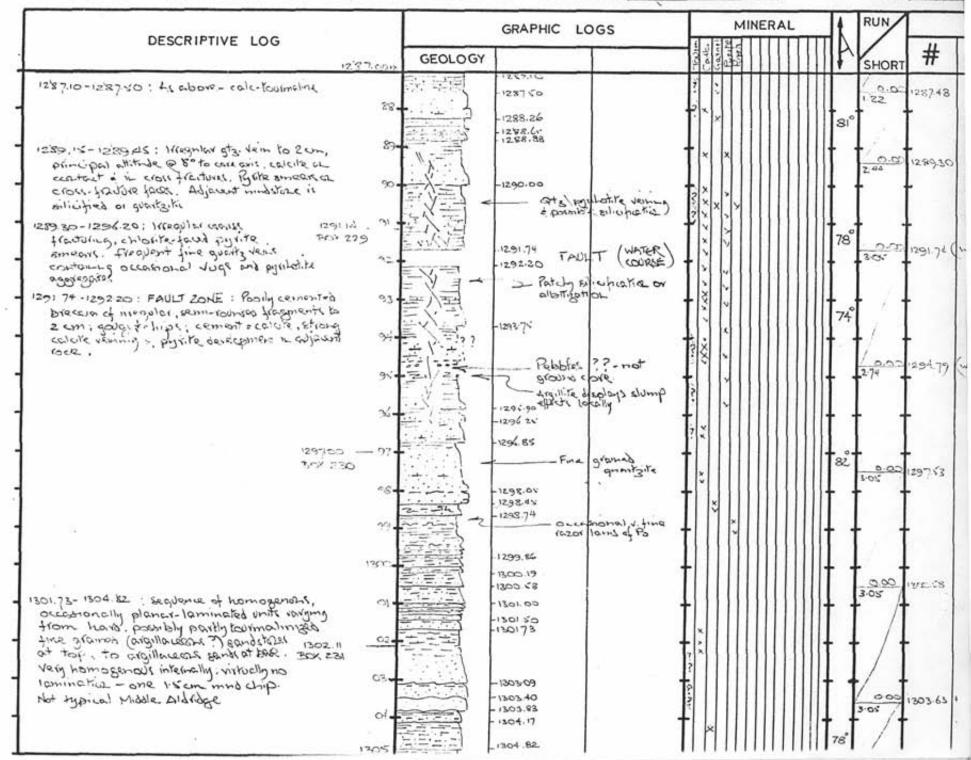
LOGGED BY F.R.EDMUNDS

DATE 19 JUNE



DH BAR. SS-2 CORE SIZE HX FROM 1287 COM TO DS. 000 LOGGED BY F.R.ENMUNIC

DATE 19 TUNE

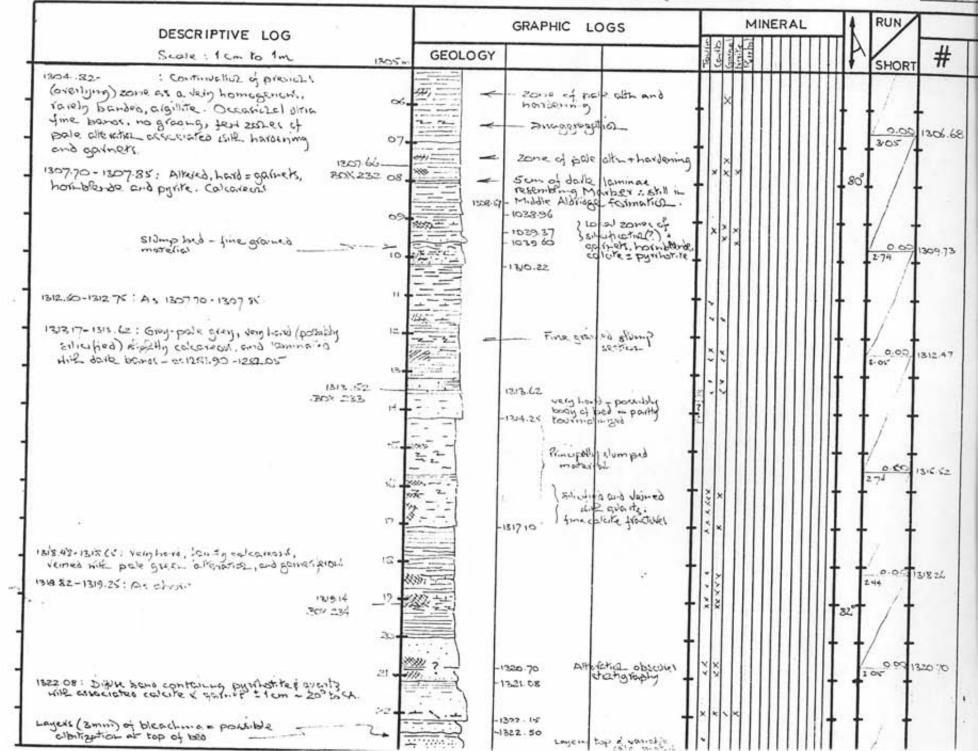


DH 849 882

CORE SIZE HX FROM 1305.00m TO 1 400 m

LOGGED BY F.R.EDMULUSS

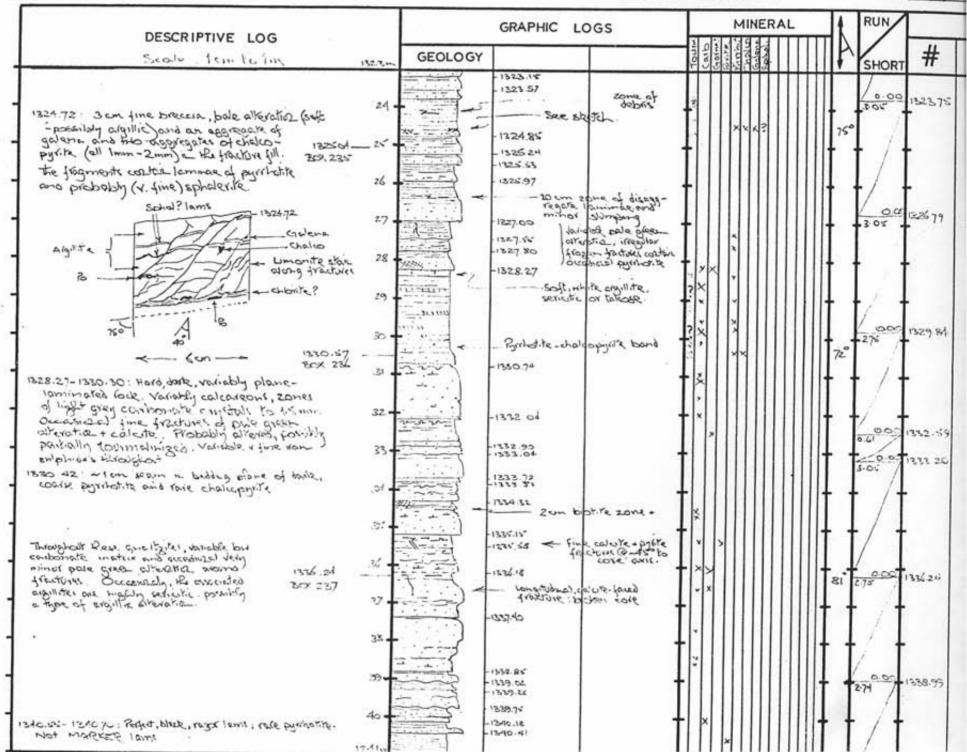
DATE _20,70



OH BAR SRE

LOGGED BY F.R.EJSMUNDS

DATE 20 TUN

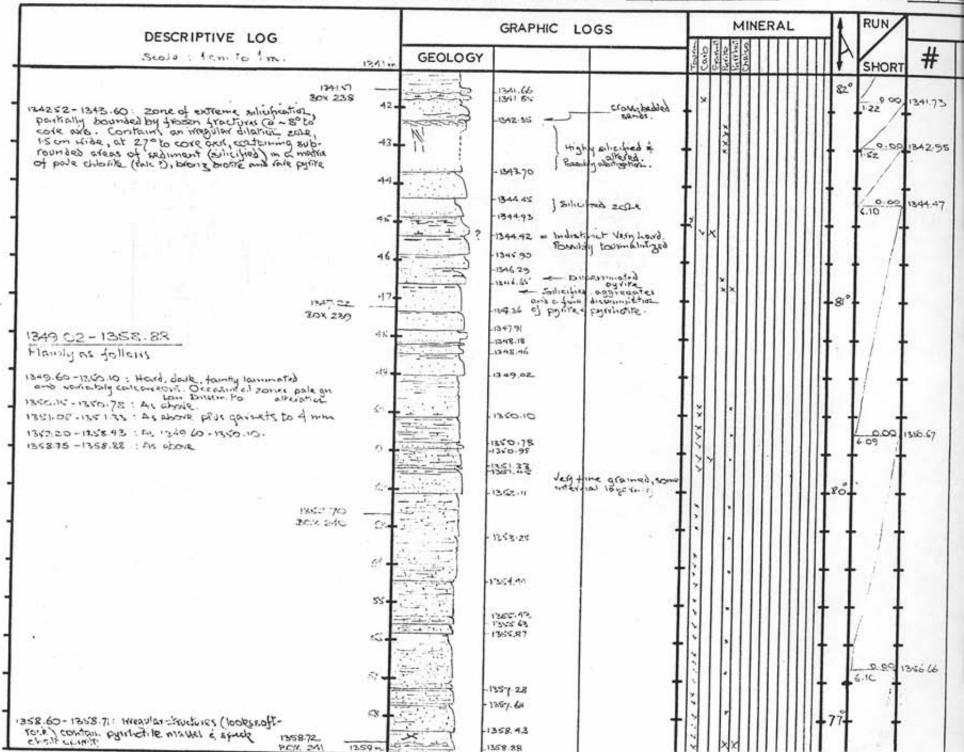


JH PAR 88.2

CORE SIZE HX /NX FROM 1241.00 m TO _ 39.00 m

LOGGED BY F.R.ELMUNTS

DATE 22 June

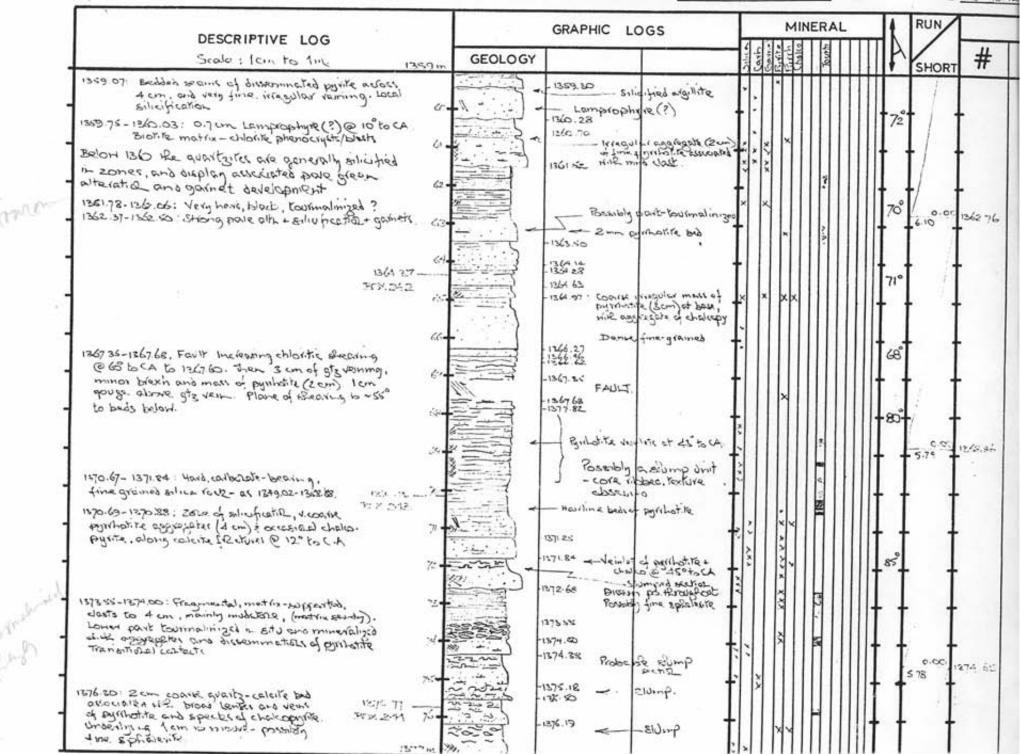


DH BOD 38-2

CORE SIZE NX FROM 12450.00m TO . 7 00m

LOGGED BY F.R. ENSINGLISS

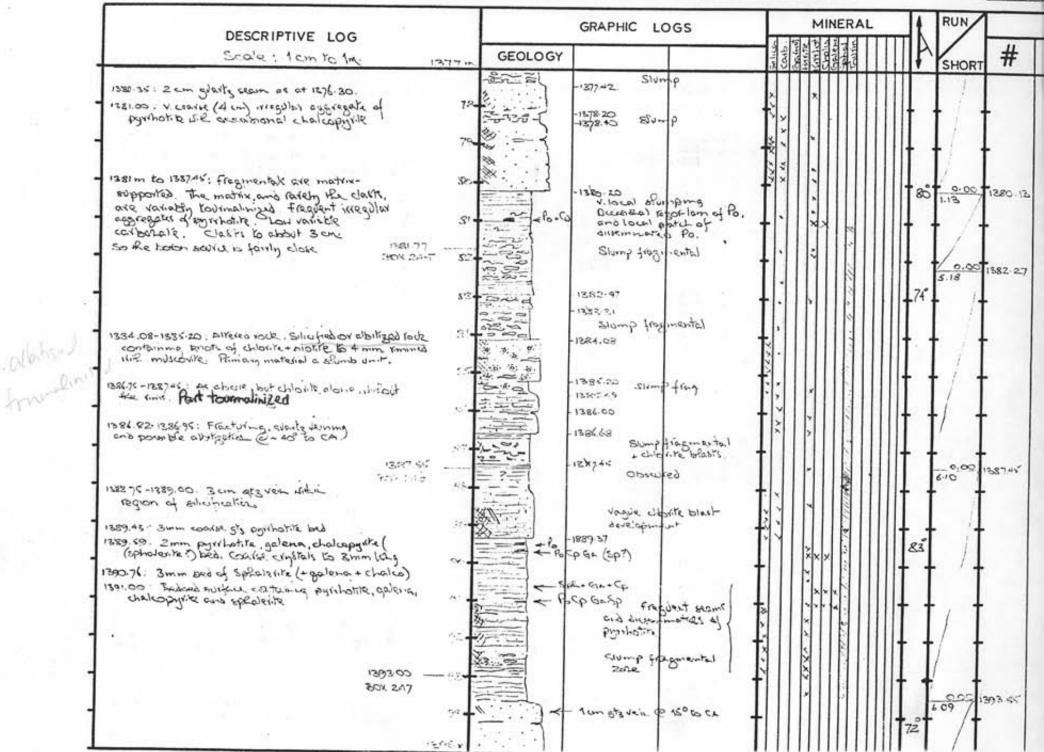
DATE 25 TUNE



JDH BAR 202 CORE SIZE TY FROM 1377.000 TO 35.000

135.00m LOGGED BY FREDMUNICS

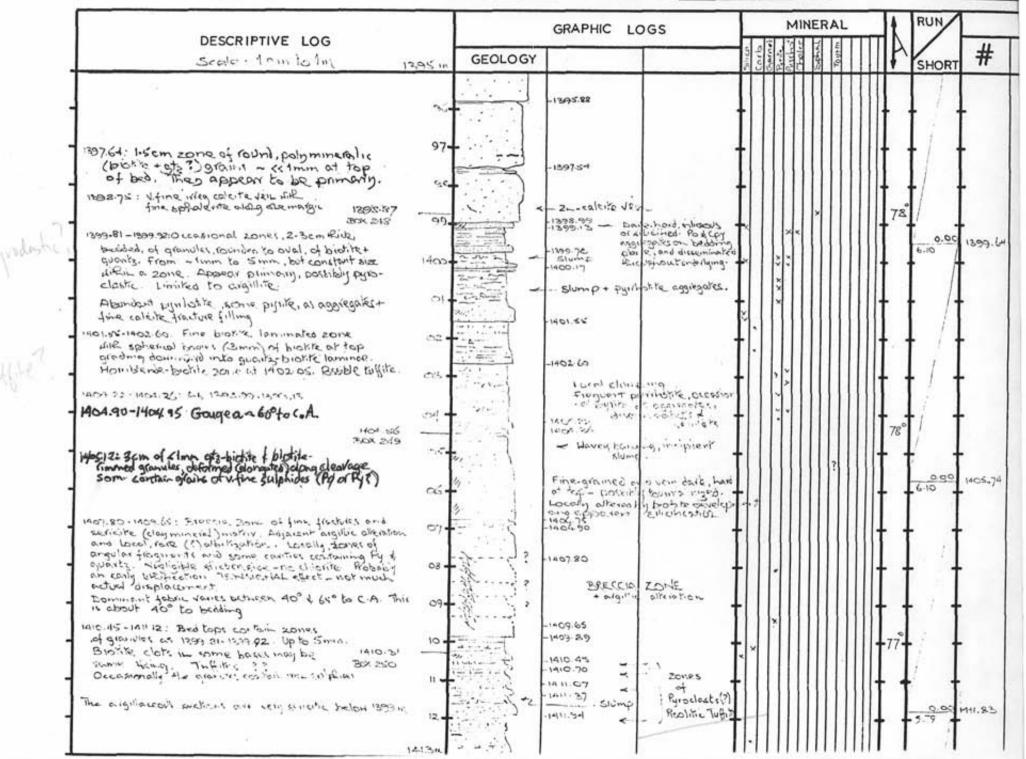
DATE 25 JUN



DH 544 32 2

LOGGED BY FREAD UNAS

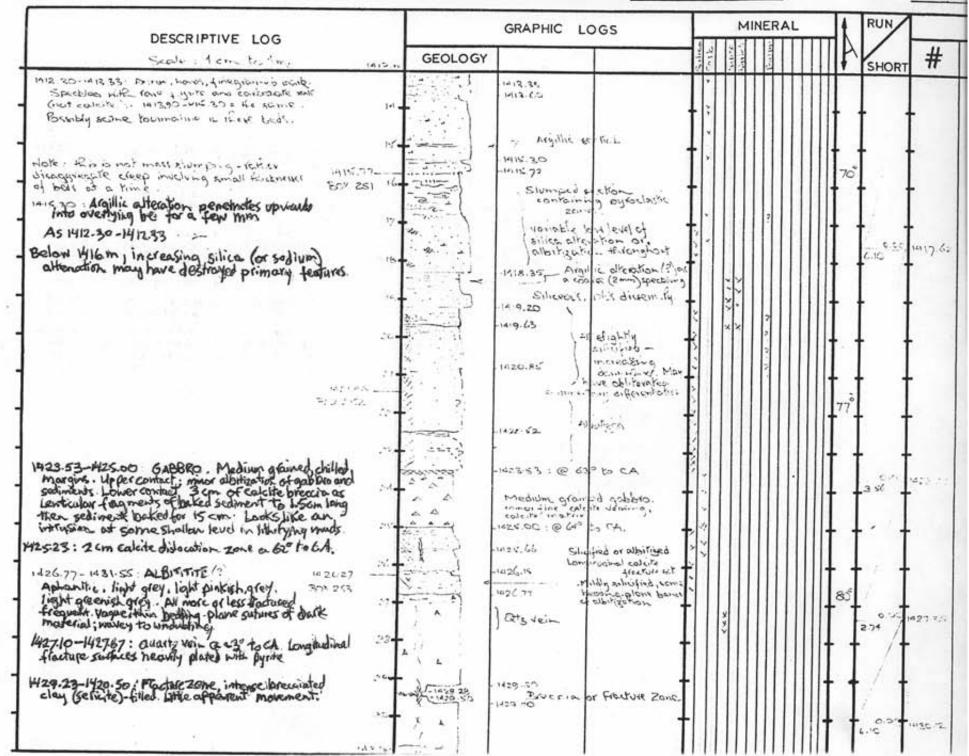
DATE 25 TUNE



JDH 2044: 37.2

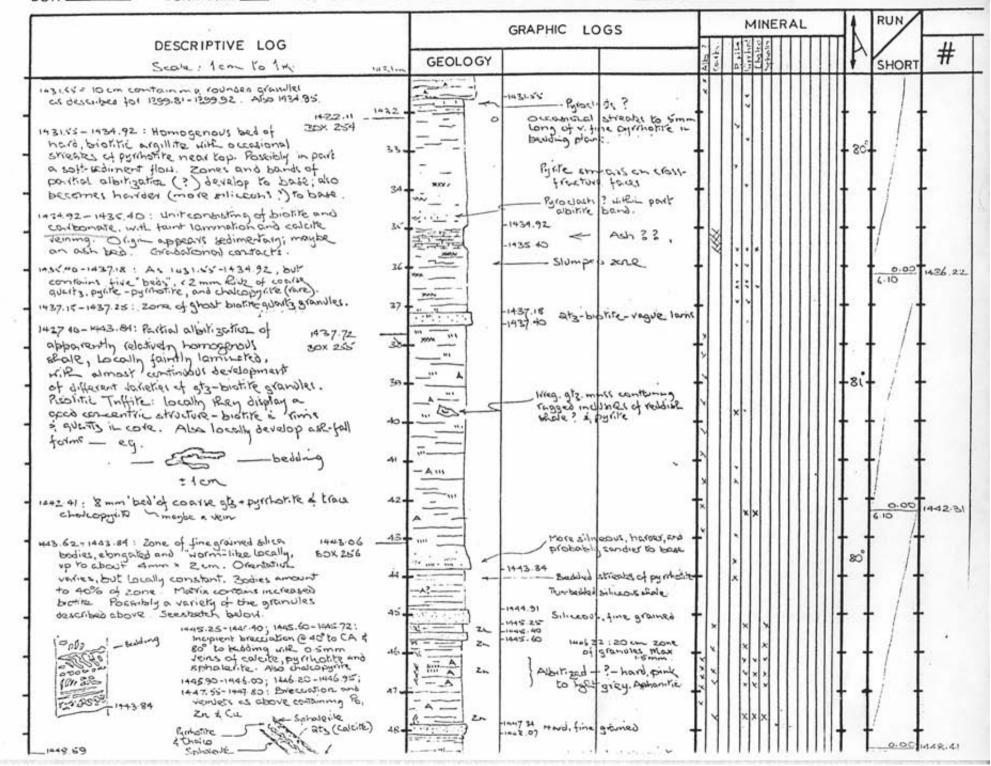
LOGGED BY FR EDMUNDS

DATE ______



DDH 240 31.2

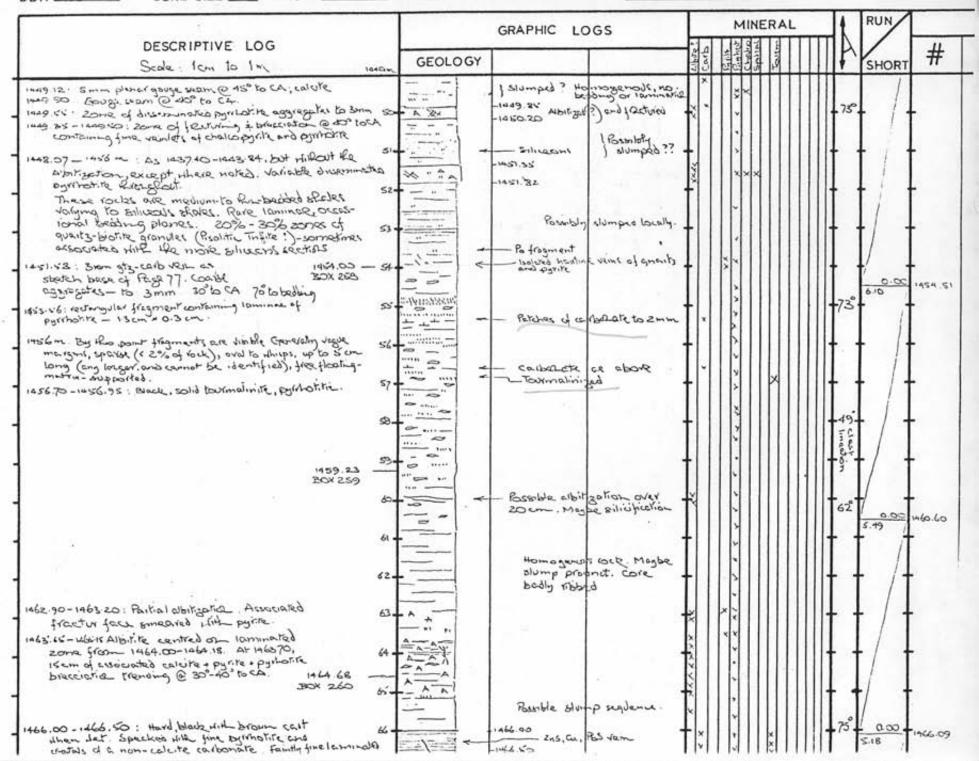


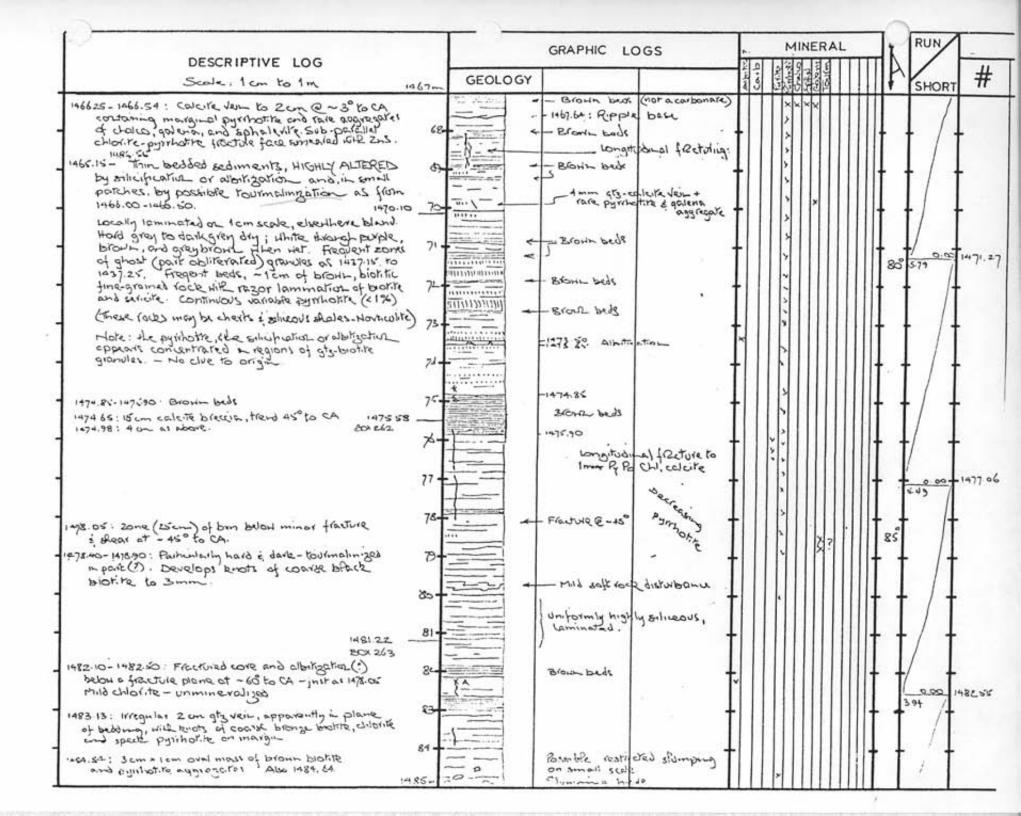


DDH 345 88.2

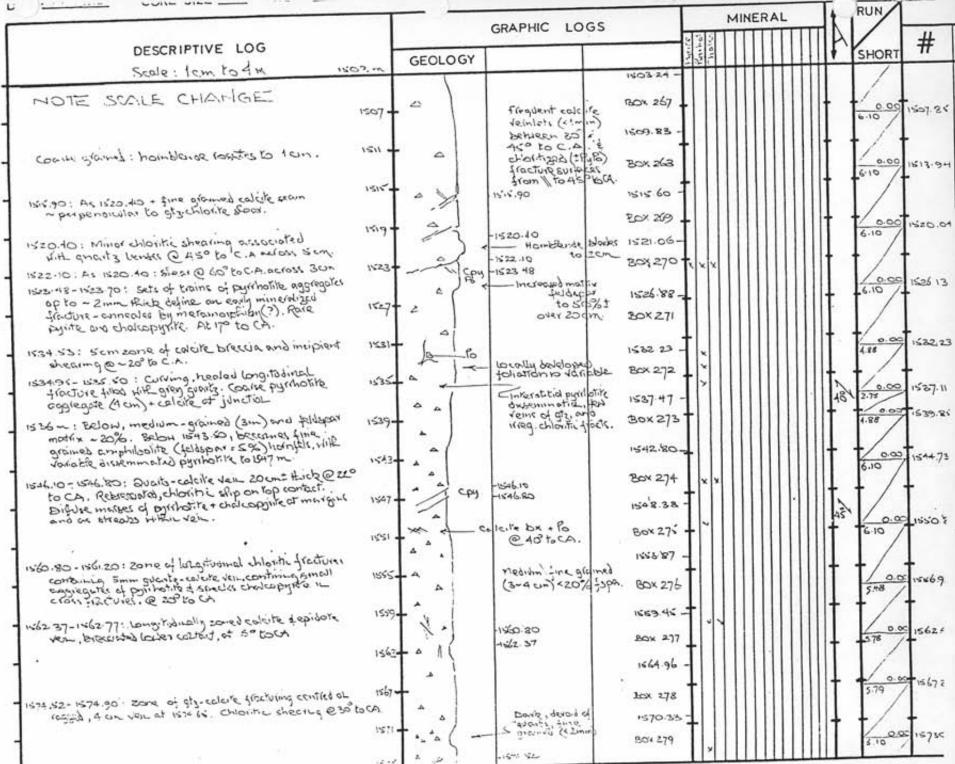
LOGGED BY FREDMUNIS

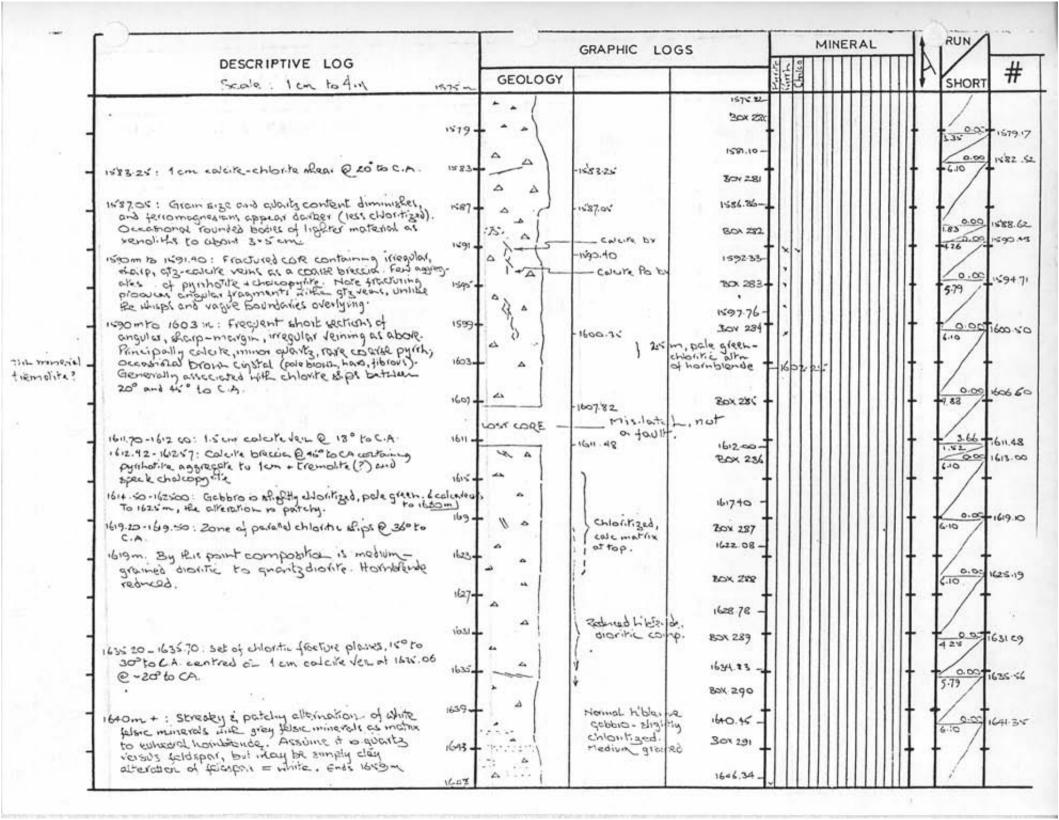
DATE 1 JULS'

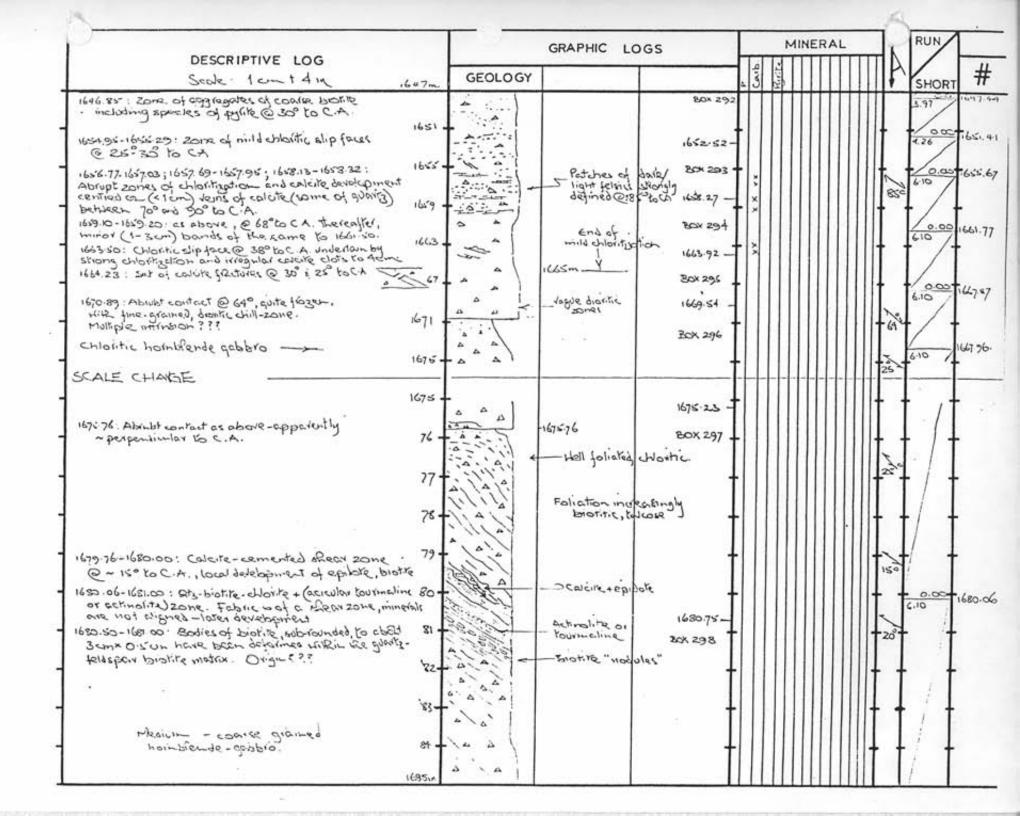


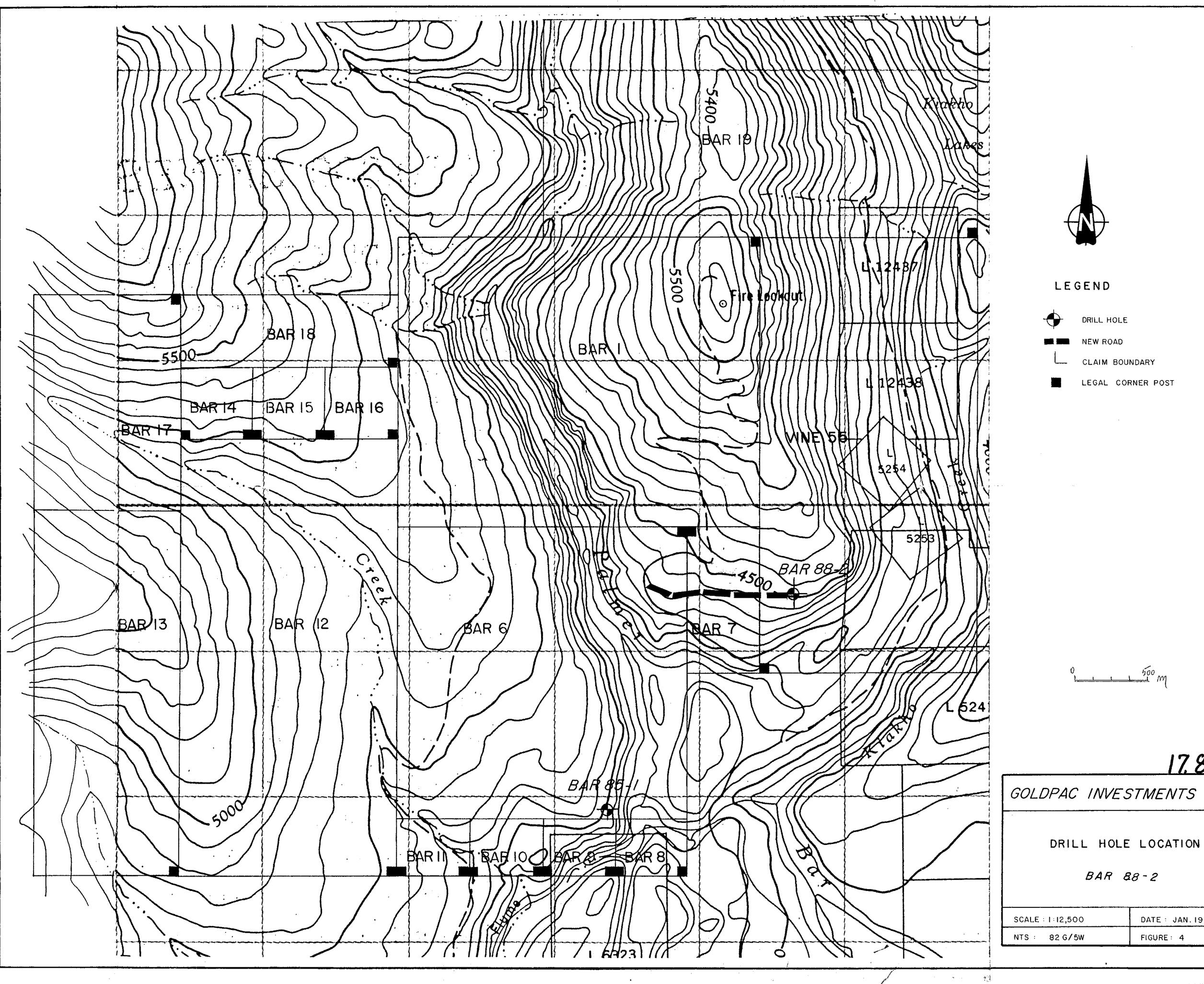


	Denne manner i se ser)	GRAPHIC LO	GS		MIN	ERAL	_	RUN	
	DESCRIPTIVE LOG				1	Treat	hut 1		AIIII	V	#
	Scale: tem to the	1495 -	GEOLOGY			8	293		1	SHORT	п
1.1	1435.22. Intravion mess of glants with one - coartie (15 mm) aggregate of sphelekte 1886.25 - Intrag. gtz very containing obts of pole chorite. Crosser core at high angle.	×-		structure.	ad vinit. No "Probably effect . - Not strump.			Conte	-t -6°	0.8	1486.51
]	1986.55- GABBRO DY (RE or SILL: 1486.155 Fine grained green . chiled contact (upper) Box 26.1 2 cm of biotike development in adjacent sediments. Calente ven et contact at 60° to CA.	- (8		Holine Bolin Minor Bolin Medium g	Similable abo	-		SI P		/	1488.03
-	1 cm gt3/calcite veins @ 80° to ca at 1286 67 and 1426.85. Very fine calcite veining throughout. Probable chlorite and apidole developed		and -	1483.78 of pale Upper 14/91.29 Bate	lossed hive veins grace offerents context a slip. hes of finer grained gabbio	-	*		-?-	- /-	-
rlot asinct: Pinh feidspui?	1453.29 14153.55: Bull gts ven containing v. coarder (400) aggregatice of pyrelatize and ribitize of germet (?)-bearing gerbarb. Uppen constant, recercularly, trogen Q-60°to (4. Lotter contact a sip prane Q 50° to CA.	90-	A			•				/ -	
•	Gabbio is typically coarse grained - homblende late to 0.5 cm, telicepar is interetited, occasional brown silicate (pyroxene?) and rare interetitial purchastive. A taliation is sometimes	91 • 92 •		the gab occesse verilet. Good he	Li matrix uf bro. But al caleite và hamogenous.	-				\$.49 	H91 08
-	apparent 1404, 10-1495, 65: fine grained inclusion 200226- of sediment. Top contact undulating @~25°. Contains irregular guartz-calcite mase with large (2-3 cm) aggrogates of pyrihatite + chalcopyrile	93• প- 9<-		Τηριωι 1494.50 Cρη 1495.25	No grenopityre		××				
-	sealing, calcite vering @ 18 to C.A.	જ્ર-			-	•			 -	0.00	1496.57
-	1493.50: 08 00002.	97-	~ /		İ						
-	contacts @ ~24" to c.a. +lagmal) soxel6 contacts @ ~24" to c.a. +lagmal) soxel6 development of fine biotive, and locally, chionile have? (s-io-cm) inegolen aggregates of contact pyrihotite = chalcopy(ice.	99-	- (
		01	*		I				III.		
		02-		waren aren	Por Spy		**			0.00	1501.75
		:sn3+	12	1×02·1()			ľ			9	









LEGAL CORNER POST

17.886 GOLDPAC INVESTMENTS LTD.

DATE: JAN.1989
FIGURE: 4
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