

Bulletin

TIMOR CR8AM, operated by K4DAO and KS6ES, showed up on the air last Wednesday and has been rather regular on twenty meters since then. There was an initial skepticism over the station being legitimate but it is true-blue and drawing a good pile-up. The station, CR8AM, is licensed to Dr. Cayette. K4DAO, Vince Higby and KS6ES, Tom Sidenfaden, arrived at Dili on Timor via small sailing vessels, each traveling independently. K4DAO some months back was in Thailand and he said that after Timor he will be headed for Darwin, Australia.

Initially they announced they would only operate to August 12th but last Saturday they decided to stay through the week. Their plans were to discontinue the operation at the home of Dr. Cayette and over last Sunday to move the station to a separate location where they could operate longer hours. They also planned to put up a beam to improve the signal. Plans called for them to be off the air Sunday but to be on through this week until Friday.

There were a number of pieces of gear on hand, FT101s, FT200 etc but each one seemed to have some ailment. It was hoped to get all the gear working over last weekend so that QSOs would be speeded.

QSLs go to Don DeZarn, WB6BGQ, 127 Rio Del Mar, Vallejo, Calif. 94590. Initially it was advised to QSL to Box 22, Dili, Timor, the doctor being a stamp collector, but then it was decided that it might prove a burden and Don DeZarn took on the chores. Look for the station around 14250kc from O600Z onwards. The station will usually operate from this time onward to about 1400Z. Sometimes the operation is split frequency, sometimes transceive, sometimes they give instructions.

DARLEEN Darleen and Joe Magen, HC2YL and HC2OM, became the parents of a baby girl on August 4th....Diane Renee. All the family doing well. Darleens and the rest of the family's mailing address: Box 872, Guayquil, Eucador.

MELLISH VK3JW, John Martin, says that he is hardly satisfied with the way the WIA and the ARRL have handled the accreditation for his VK9JW operation of a year ago and John says that he is heading down to Melbourne to shake things up. Recent word from John is that all the innuendo raised by the WIA is a lot of 'Hooey" and he would appreciate it a bit more if they would be specific in their allegations so that he could refute any charges that they might dare to raise. It was his feeling after hearings conducted by the WIA thalf year back that the WIA had found nothing wrong with his Mellish operation. John also passes along the information that the present Custodiah (Secretary) of the WIA acknowledges that the

minutes of the meeting shows this action but apparently nothing has been forwarded to the ARRL to clear the matter.

Anyhow, John will be headed for Melbourne to demand his 'Day in Court' and to clear any questions on the Mellish operations.

Actually, in all fairness, the ARRL finds itself in a tender position. The WIA raises some questions on the Mellish operations....the ARRL is obligated to listen to the voice of a national society and a memb er of the IARU. Then the WIA fails to clear up the matter. The ARRL is thus left with the predicament of being unable to act. If the ARRL, in utter frustration, were to credit the operation and later the WIA were to produce something, the ARRL would have a hard time facing things down. Even if, as the portents would indicate, there is no basis to question the VK9JW operation, the ARRL cannot move. The whole ballgame is in the hands of the WIA....and they seem to be unwilling to either pitch or bat....just to sit..... SUNSPOT LOUIE: There was some rather vivid activity during the last week and the charts this week gives some indication of how things can change in a short period. On the left hand chart, the spot shown first appeared on April 2nd advanced across the face of the sun. Then there was a solar flare, spots crupted on the face of the sun and the changing picture indicated some good activity.

All of the spots in the group did not appear on the same day, the lower ones appearing first and then the others showing the following day. The original spots were about 2 000 miles in diameter, the smaller ones about 7000 miles. The whole group is about 75,000 miles long. Conditions on the bands have reflected the activity and WWV has been foreasting N-6s last week. The arrow indicates the original spot, the group is the area where there was the eruption.. Think Sunspots!!

Aug

SHORTLY NOTED This week is a rush job with the staff....all of them...returning home Friday evening and getting to work immediately on the bulletin. It took about two hours just to open the mail. If we have not responded immediately to any items, hold on and we will.

The Electronic series of stamps should be available at most Post Offices by now. First the 6ϕ and 15ϕ showed...then the 11ϕ and finally those offices that were waiting were supplied the 8ϕ ones. These are shipped from the Government Printing Office and it would seem that the delays were caused by the Printing Office...not the Post Office. Should you need any of these, we have a local supplier who usually comes up with most everything requested.

CP1AA was a special one-day operation to commemorate the founding of the Radio Club Boliviano. QSL and you get a special certificate, suitable for framing. 5N2ABG has been showing up on the Pacific DX Net....14260/0600Z most days. WP10RT QSLs to Box 1973, Portsmouth, New Hamp. 03801. 1X1XA showed again on August 4th....close relative of Slim on Cray Island....8X8A. EIØDI Will QSL to EI7CC.

On the China Desk, some inquiries to officials in the Peking government regarding some possible amateur operations brought the response that it was not necessary to discuss amateur radio activity since there are no amateur radio stations in the Peoples Republic of China. Well!! WØOL, Richard J Brown, has been transferred to Taiwan and has written the government there for permission to operate. He asked for BV2DX or permission to sign WØOL/BV2.

The Richardson Radio Club had a group signing VP2MYA in the CQ/WPX test last March and the same operators, W5QBM and W5MYA will be joined by W5EQT for a determined effort to establish a new world-high score in the CQ/WW Phone Test October 27/28th. They will operate in the All Band, Multi-op, Single transmitter category, using a 4 element beam and will work everything from ten through 160mtrs.

5WIAN is said to be the westernest of the Western Samoa operators...being on the most western island. The Tongareva group are still gotting together at 44250kc/0330Z to pass the latest around. ZKIAI QSLs have been ordered while the art work on the ZKITA cards and certificate continues. UAØs holding their own roundtable Mondays at 3610kc from 1100Z. May move a few kcs...will listen for c.w. breakers. Sometimes they listen above 3800kc for U.S. SSB stations after they finish with their net.

ARRL still needing helpers in the Intruder (atch. If you have the time and inclination, drop the ARRL a line for more information. W3HNK will be off on a trip shortly....maybe to the Caribbean...maybe to Africa... 3B6CF has been around 14040kc-14050kc from 0230Z. ARRL after prodding by Pacific Division Director asking for action on the FCC/CBers threat to 220mc.....Write letters to the FCC.... (On Page 5 we started to run some stuff and ran short...don't read this until; you have

REPORTS FROM RED EYED LOUIE

My heart is warm with the friends I make ...

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14 Aug 73

AF	RICA.					ψ.	•		
	11M 4AG	14048/0130/Aug 14055/2025/Aug	4m 4e	TR8PB 3B8DA	21040/2200/Aug 14010/1155/Aug	4m 6e	3D6AX 5R8AC	14029/1230/Aug 14038/1200/Aug	4m 5e
AS	IA	CW			and the second second				
HS HM JT JT JT JT	2AJG 3AIG 1BB 1KAA 1AO 1AS ØAE	14043/1505/Aug 14040/1200/Aug 14021/1600/Aug 14040/1545/Aug 14060/1620/Aug 14018/1400/Aug 14010/1450/Aug	2w 3m 4w 4w 4w 5w 4w	UAØLEX UI8GAA UV9FN VU2ANI	14020/0505/Aug 14036/0445/Aug 14018/1250/Aug 14037/1500/Aug 14036/0350/Aug 14028/1445/Aug	4w 6m 3e 4w 8w 8w	VU2LO VS6DD YK10K 4S7EA 9M2DP 9V1RS 9V1RP	14002/1610/Aug 14040/1440/Aug 14015/0000/Aug 14048/1135/Aug 14055/1420/Aug 14037/1655/Aug 14040/1555/Aug	5w 7w 5e 5w 7w 5w
	HAYC	14033/1210/Aug	3e	VU2GV	14034/1515/Aug	OW		in a st	
EU.	ROPE.	• <u>CW</u>						· · · · · · · · · · · ·	d
IT JW LZ	2CYO 9JLA 1SO 1XZ 3EAI	14033/053-/Aug 14039/2300/Aug 14043/1715/Aug 14040/0400/Aug 14018/0535/Aug	2w 6w 8w 3m 3w	UK2WAF UK2GAN	14041/0315/Aug 14055/0420/Aug 14012/1200/Aug 14023/0540/Aug 14030/0400/Aug	7w 3m 3e 4w 3m	UK5JAI UK5MAF UP2BAO UT5LN	14020/0515/Aug 14014/1420/Aug 14041/0335/Aug 14014/0530/Aug	4w 5w 4w 4w
EL	SEWHE	RES CW							
CP C1 DU DU FO FY HK HP	1JV 1AA 1DX 1AFS 6RM 8DT 7AJ 1KS 1XYZ 3PC 7BSA	14027/0335/Aug 14033/1950/Aug 14022/2030/Aug 14045/1530/Aug 14019/1440/Aug 14050/0335/Aug 14036/2320/Aug 14052/0230/Aug 14025/0230/Aug 14041/1145/Aug 14026/0055/Aug	8w 5w 5w?? 8w 7w 6w 2e 7w 6w 2e 5e	KX6BB K5/Kure OA7BI OX3JW OX3WZ PJ2EF PJ9JT TG4SR TG9YN VK2ARV VK4RF	14028/0525/Aug 14025/1145/Aug 14051/0300/Aug 14083/1710/Aug 14071/0500/Aug 14037/0225/Aug 14026/0115/Aug 14007/0250/Aug 14007/0250/Aug 14041/0430/Aug 14046/0705/Aug	5e 5w 7w 5w 9w 9w 3e 6w 3m 4m	VP2VBU VP9HM VR4AA XQ3EL XQ3ED YN1AA ZL2OI 4K1D 9M8FDS 9Y4VU	14042/0030/Aug 14028/0125/Aug 14051/0450/Aug 14040/2215/Aug 14052/1500/Aug 14049/1150/Aug 14039/0410/Aug 14039/0410/Aug 14017/1245/Aug 14023/1550/Aug 14013/1130/Aug	4e 5w 5e 1w 3m 6w 5e
A HT	RICA.	etp.	1.		and the second			and the second	
A20 CRE CRE CNE	CCY 6CA 6LF 8BO 8BW	14207/1525/Aug 14218/0110/Aug 14206/1445/Aug 14206/2040/Aug 14245/2250/Aug	6w 3e 5w 4e 2e	TU2DJ TU2DO VQ9M ZD7SS ZS2MI	14272/2250/Aug 14285/2100/Aug 14216/1135/Aug 14239/2120/Aug 14195/1145/Aug	5 4e 5 3e 4w	3B8CZ 3D6AY 5N2ABG 7X2MD 9L1VW	14263/0615/Aug 14213/1230/Aug 14263/0555/Aug 14200/2150/Aug 14333/2100/Aug	3e 7m# 3e 4e 6m
ASJ	IA	SSB							
HL9 HZ1 JA3 JD1 JD1	1AQ 9KK 1TA 3/JD1 1AHN 1YAH 1ÁIV	14232/1235/Aug 14225/1125/Aug 14265/1530/Aug 14226/0730/Aug 14212/1315/Aug 14202/1300/Aug 14202/1300/Aug	5m 5e 2hs 4w 4e 13e 4e	KA1IW MP4BJP OD5ET UAØNT VS6BS XW8EO YA1AH	14238/1145/Aug 14204/2250/Aug 14222/0415/Aug 14211/1520/Aug 14202/1325/Aug 14201/1530/Aug 14320/1200/0ft	5 $6m4w5$ $4w5w4e4w5w4e4w$	xw8eh 5B4KP 9V10I 9V10R	14330/1250≠Aug 14216/2155/Aug 14241/1550/Aug 14240/1520/Aug	4w 4e 5w 5w
(e	= eas	stern states m	= midd	lle stat	es w = western	reach	ies hs =	= thialand hp =	pana

(e = castern states m = middle states w = western reaches hs = thialand hp = panama) (all times in gmt # = long path ???? Slim, 8x8A on Cray Island lives!!!!)

EUROPE	.SSB			1			1 1 1	1
CT1QN CT1ZW	14276/2305/Aug 14223/2110/Aug	1e 4e	GW3AHN HB9ASL	14186/1920/Aug 14208/1230/Aug	7m 2e	ON8WW OK1CFH	14203/2300/Aug 14235/2300/Aug	4e 4m
EA3HC	14200/2300/Aug	5e	LX1BJ	14332/1830/Aug	2e	SP6PZB	14243/2355/Aug	4e
EA3JE	14213/2115/Aug	1w	LX1ES	14216/0000/Aug	6e	YU2CDS	14236/1940/Aug	4m
EASKF	14252/2310/Aug	1e	LX1HD	14225/0020/Aug 14215/2120/Aug	4e 4e	ZB2BL	14215/0015/Aug	1w
EIØDI	14255/2305/Aug	4e	ON5KD:,	14210/2120/ Aug	Te	~ ·1		
ELSEWHE	RESSSB							
C21NI	14253/1320/Aug	4e	КХ6КО	14262/1140/Aug	4e	VR1AC	14281/0540/Aug 14333/2020/Aug	2w 2e
CX1JM	21294/2250/Aug	5e	K5/Kure OX3AY	14217/1330/Aug 14217/1115/Aug	4e 5e	WP10RT XP1AA	14223/1350/Aug	Ze 3w
CP1AA CR8AM	14213/0440/Aug 14248/1325/Aug	6w 8m	OA4AS	14246/0145/Aug	2e	XP1AB	14217/1935/Aug	4m
DU2EL	14234/1305/Aug	4e	PY8ZAA	14212/2345/Aug	2e	YB1BH	14241/1515/Aug	7w
FO8BO	14118/0300/Aug	3e	PZ1DR	14203/1210/Aug	2e	YS1JSL	14231/2345/Aug	
HKØBKS	14207/1310/Aug	6e	VK9ZC	14211/0730/Aug	5e	ZK1CL	14251/0350/Aug	7w
KB6CU	14281/0530/Ofte		VK9XX	14254/1235/Aug	7e	ZK2BD	14240/0715/Aug 14263/0640/Aug	4m 3e
KC6SX	14209/0700/Aug	5e	VK9FV VK9DV	14252/1200/Aug 14245/1150/Aug	4e 4e	3D2FM 3D2CM	14238/0345/Aug	5w
KC6SI KJ6BSA	14286/0725/Aug 14287/1930/Aug	5e, 2e	VK9DV VK9FH	14262/1140/Aug	4e	3D2GR	14238/0345/Aug	
KP4CT	14229/1210/Aug	2e	VKØWW	14221/0515/Aug	6e	3D2EK	14203/0730/Aug	5e
KS6DY	14263/0620/Aug	3e	VP2GRN	14211/0230/Aug	1e .	5W1AU	14280/0500/Aug	
KS6EM	14315/0430/Aug	7e	VP2VPV	14213/2350/Aug	2e	5W1AN	14249/0350/Au	0
KS6DX	14227/0455/Aug	7e	VP2SBH	14218/2200/Aug	6m	бұ5ан	14333/1740/Aug	6e
KV4FY	14246/1205/Aug	5e	VP8ML	14202/1225/Aug 14226/1820/Aug	2m 3e			
KV4DC KX6DC	14240/1245/Aug 14296/0450/Aug	2.e 7e	W9/VP9 VP9H	14332/1840/Aug	2e			
KX6BQ	14293/0540/Aug	7e	VP9L	14203/1340/Aug	4e			
		10						
FORTY/H	TIGHTY DESK							
ASCCA	7020/0040/Aug	2m	HP1EE	7135/1210/Aug	2e	KC6SX	7001/1115/Aug	30
EA7JA	7016/0535/Aug	8w	HA25KDQ	7027/0305/Aug	5w	OZ5KF	7099/0335/Aug 7011/0130/Aug	4e
EIØDI	7015/0410/Aug	4w	HV1NA HI8NAH	7003/0310/Aug 7004/0420/Aug	6w 2w	UK6AAU UK80M	7003/1415/Aug	3m 8w
FO8BW FO8DF	7088/0610/Aug 7016/0350/Aug	6w 2w	1X1XA	7005/1105/Aug	2w 4e	VP9L	7159/0610/Aug	5w
FPØBG	7007/0440/Aug	Zw Zw	JD1YAH	7007/1120/Aug	6e	ZFISB	7032/1205/Aug	1e
G5WP	7011/0550/Aug	7w	JA3/JD1	7007/1430/Aug	2w	ZLSAL	7005/0040/Aug	2m
HKØBKX	7012/1205/Aug	2e	KG6JAR	7003/1430/Aug	7w.	4S7BX	7009/1330/Aug	6w
CO2AA	3784/0345/Aug	4e	HA5JI	3509/0235/Aug	4e	VK2AVA	3695/1100/Aug	4w
EIØREI	3779/0510/Aug	7w	HC2NW	_3800/0440/Aug	4w	ZL4CP	3503/1030/Aug	4e

SEANET CONVENTION-SINGAPORE The annual meeting of the SEANET will be held in Singapore this November, the Singapore Amateur Radio Transmitting Society being the host for the meeting November 8-10, 1973.

Previously the SEANET has met in Penang and Bangkok. Regular net members plus many other interested participants gather from all over the world to attend these SEANET meetings.

The SEANET has been operating since 1964 and meets daily at 14320kc/1200Z. 4S7PB is often the Net Control but he has had some problems with electrical supplies there in Ceylon and often HS4AGN or others step in to give a hand.

Further details on the SEANET Convention can be obtained from SARTS by writing them at GPO Box 2728, Singapore. Edward A Gribi, YB8AAP, will be the convention Chairman. With but four months to the meeting, it might be time to see your travel agent. Get to Singapore and see 9M2IR....one of the Big DXers in SEAsia. John will be there.

14 Aug 73

CALENDAR

CR8AM on until August 17th. TIMOR WPX....Until August 19th. 350th Anniversary of Portsmouth, New Hamp. WP10RT ALL ASIA TEST August 25/26th CW only. Richardson, Tex Radio Club CQ/WPX Test October 27/28. Aiming for MONTSERRAT World High ... All Band/Multi Op Single Transmitter class.

SEANET CONVENTION November 8-10th in Singapore Prepare!!

Two Meters to Hawaii ... A large number of California amaterurs were able to work Hawaiian Stations via the two-meter repeater in Honolulu, the conditions lasting from July 27th to 30th.

W6FZJ and KH6BZF have been keeping schedu es on 432mc and 220mc during the last two months but so far a two-way QSO has eluded them, KH6BZF did hear W6FZJ but Joe was not able to read KH6BZF. When W6FZJ was able to read Lee's signal, KH6BZF could not reach the San Jose Station to complete the QSO.

W6FZJ speculates that the presence of Hurricane Emily to the south of Hilo changed the usual weather pattern between California and Hawaii and the signals were getting through on a possible 'turbulent duct'. 50mc stations were working Hawaii on an apparent tropo path during this period but most of the action was on two meters. In one reported instance, WAGEIR worked a station in Santa Barbara via the Hawaiian repeater.

K6DYD appears to have been one of the earliest stations to note the opening to Hawaii and alerted other stations. K6JYO, WA6EIR, K6YNB were in to make early contacts and the opening spread up the coast as far as San Francisco. Study of the opening would indicate that the Santa Barbara area was the central point for the path and it did not extend much beyond the San Jose area to the north or San Diego to the south.

The ARRL put out a special bulletin, noting that this was the first two meter action from California to Hawaii since W6NLZ/KH6UK did it back in 1957. ARRL is asking that amateurs with information on the event to report their results and observations in detail, a full report on this being planned for the October issue of QST.

ARRL Etc W5BQZ has petitioned the FCC to allow Technicians to operate below 50.1mc and in all Novice Bands using A-1 emission.

A new Emergency Communications Advisory Committee has been formed eleven members have been named by President Dannals.

A questionaire passed out at the meeting of the Potomac Valley Radio Club and the National Capitol DX Assn ... plus several hamfests, interested spectators etc. : The results of the 8 questions were: 1.Cut ARRL DX test to 2 week-ends 53.5/Yes 41.5%: leave alone, 5.0% uncaring. 2. 4 Weekends..but two in Spring, two in Fall. 48%-Yes, 43% leave alone, 9% uncaring. 3. Single band class/ARRL DX & SS 55% Yes 33% No. 4. 160mtr phone contest 19% Yes 26% no..55% uncaring (Balance of this in Shortly Noted)

160mtr phone contest 19% Yes 26% no.55% uncaring.....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring.....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring.....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% uncaring....(Balance of this in Shortly Noted) 160mtr phone contest 19% Yes 26% no.55% the test states 1100. 160mtr phone contest 10% Yes 21675....(Balance of this in Shortly Noted) 160mtr phone contest 10% Yes 21675....(Balance of this in Shortly Noted) 160mtr phone contest 10% Yes 21675....(Balance of this in Shortly Noted) 160mtr phone contest 10% Yes 250.75--self-support. NW65 \$331.50 W51 \$386.00 FOB Calif. 160mtr phone States 10% Yes 250.75--self-support. NW65 \$331.50 W51 \$386.00 FOB Calif. 160mtr phone contest 10% Yes 2100 The Yes 25% Yes 21000 Yes 2143.00 Mcg3B/Quad \$91.00 160mtr Phone States 10% Yes 2100 The Yes 2143.00 CETRON 572/160TL \$13.95 161mtr Phone Yes 2.5a/1000; iv expoxy diodes 29% each 161mtr Phone Yes 2.5a/1000; iv expoxy diodes 29% each 161mtr Phone Yes 20% Mary W5MBB Dave W452NY 161mtr Phone Yes 20% Yes 20

BEACONS From G3RFG, comes some updating on the 28mc Beacon Information. Some of this revises frequencies listed previously for some beacons.

VE3TEN	28175kc instead of 28275k
VP9BA	28165
ZC4CY	28180
DL7AZ	Listed previously at 29000kcBelow the frequency allocated for
	beacons.
GB3SX	28165
3B8MS	28190
DLØIGI	28195

28200kc is a common working frequency and all beacons will periodically move to it during taansmissions. Presently the frequencies from 28150kc to 18170kc have not been allocated. 28180/ZC4CY is at Limassol on Cyrpus, operating on a single frequency at present but may move from Limassol in the near future. GB3SX is at Crowborough in Sussex and like 3B8MS on 28190kc operates on a single frequency. DLØIGI is near Salzburg and moves from its frequency to the common 28200kc between 15 and 20 minutes and 45-50 minutes after each hour.

TNX to WIAM, KIDRN, WA2AUB, W2FPM, W3CDL, W4BAA, W4EH, W4HU, W4KA, WB4SIJ, WB4SPG, W4TUC, W5ALA, WA5EMH, W5QBM, W6AAO, W6AM, K6JB, K6JR, WA6JVD, W6KOE, W6KYA, WA6MWG, WA6OET, W6OKK, W6OL, W6PT, W6TSQ, W6TTS, W6VBI, WB6WHM, K6WR, WB6ZUC, W7NCO, W7YTN, W8ZOK, W9DDL, W9KNI, K9KXA, WA9SGP, WØJRN, WØOL, HS4AGN, 9M2IR, W4BRB, W2NSD/1.

WEST COAST DX BULLETIN Published every week by the Marin County DX Group. Some of the local QRPers a couple of weeks back dropped in on the Old Timer to wish him a happy anniversary. Along with the good wishes they talked of many things and finally one asked the Old Timer what had been the biggest changes he had noted over the years. The Old Timer was right back. "Over the years", he said, "it seems to me that there are now fewer hours in the day and fewer days in the months". Son of a Gun, we thought this one over, added things up and still we were confused. While we figure this one out you can make the time pass quickly with the WCDXB....\$9.00 by First Class Mail for a full year....\$10.50 brings it airmail. Sometimes the Old Timer takes a bit to figure out...here we had just been thinki g how far it was to next Pay Day.... All things are relative....some more so.

WEST COAST DX BULLETIN 77 Coleman Drive San Rafael, Calif. 94901

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