## CQ REVIEWS

# The Tennadyne T5 HF Log-Periodic Antenna

## **BY PHIL SALAS\*, AD5X**

he longer one is involved in this amateur radio hobby, the more obsessed one tends to become concerning effective HF antennas. How many of us started with a dipole on one band, moved to a multi-band trapped vertical, and finally wound up with a triband beam? And, unfortunately, it generally takes some combination of all three or more to enable us to cover all the HF amateur bands. As an example, covering all of the bands from 20 through 10 meters with a single directional antenna is generally difficult due to the electrical lengthening of lower frequency elements by the inductors within the traps, combined with the close separation of the 17 and 12 meter bands with the 20, 15, and 10 meter bands. One way around this is with a log-periodic antenna. Enter Tennadyne with their series of low-cost, high-performance HF log periodics.

## **The Log-Periodic Antenna**

There is no need for me to go into detail on the theory of log-periodic antennas. If you are interested, quite a bit of information is available in the ARRL Antenna Manual and many other publications. Sufffice it to say, LPs are essentially broadband directive arrays that give effectively constant SWR, gain, and front-to-back ratio over the designed frequency range. Logperiodic antennas also tend to be extremely efficient (close to 100%), because no traps or other finite-Q reactive components are used in the antennas.



## The Tennadyne LPs

Tennadyne offers six different HF legal-limit LPs to suit any installation. All the Tennadyne LPs use full-size elements (longest element is 38 feet). Table I gives the characteristics of the different models.

In my case, I was looking for an antenna that could easily be mounted on the mast of my Create 6 foot roof tower. As can be seen from the table, the smallest antenna sold by Tennadyne is their T5. This antenna appeared to be small enough and light enough to be easily handled by one person (me). All that I seemed to be giving up over the longer boom models was SWR and a little bit of gain (0.5–1.8 dB). The T5 antenna seemed to fit my needs perfectly. A phone call and five days of waiting resulted in the T5 being delivered to my door. With Texas tax and COD charges added, my total delivered price was \$362.

The T5 arrived in a  $5.5" \times 5.5" \times 6'$  carton. There were quite a few parts in this box. The T5 consists of 56 separate aluminum tubes, plus two spacers, a boom insulator, six U-bolts, and lots of screws, nuts, bolts, and washers.

\*1517 Creekside Drive, Richardson, TX 75081



A close-up view of the Tennadyne T5 HF log periodic antenna on top of the author's Create CR18 roof tower.

The reason why there are so many tubes is that Tennadyne tapers their antenna elements down to 1/4 inch diameter. The last 48 inches of every element is 1/4 inch tubing. The multiple short tubing sections permit tapering without sagging and keep the wind load and weight down. Also, the elements tend to be springy and give with the wind, also helping to keep the wind load down. The aluminum tubes are 6061-T6 unpolished tubes. All hardware is stainless steel, and all the nuts are self-locking ny-loks.

## **Putting It Together**

While the number of parts seems to be overwhelming at first, the actual assembly is pretty straightforward and goes fairly fast. The first task is to properly arrange the booms. Four 2 inch diameter 6 foot long tubes are used for the 12 foot long double boom (this allows for very rigid boom construction without a support truss). A boom splice is inserted into two of the tubes. To secure the boom splice, two 1/8 inch holes must be drilled through the booms into the boom splices and secured with stainless steel screws. The boom splices are not secured to the remaining two boom pieces until near the end of the assembly.

Next the elements are assembled. All tubes are premeasured and drilled, so you just need to put in the stainless-steel screws that hold each of the tubing sections together. The ele-

ST States	T5	<b>T</b> 6	T7	T8	T10	T12
Elements	5	6	7	8	10	12
Gain (dBd)	4.5	5.0	5.6	5.8	6.1	6.3
F/B Ratio (dB)	14-24	14-24	14-24	15-24	15-25	15-24
Boom Length	12 ft.	12 ft.	18 ft.	18 ft.	24 ft.	30 ft.
Max. SWR	2.1	1.9	1.8	1.7	1.6	1.5
Weight (lbs.)	26	29	37	40	50	61
Wind Area	5.1	6.1	7	8	10	12
Price (ppd.)	\$335	\$365	\$470	\$510	\$630	\$770

Table I- Characteristics of the six high-frequency, legal-limit log periodics offered by Tennadyne.

ments are then inserted into the appropriate boom sections and fastened in place. All Tennadyne booms are drilled such that the elements slide through holes in the booms and are then bolted in place with a stainless-steel bolt which passes through the element and one side of the boom. No clamps or rivets are used.

Next the booms are placed on top of each other, separated by the boom spacers, and secured in place with bolts into the boom spacers. Finally holes are drilled in the remaining two boom sections through the boom splices to securely fasten the boom sections together. The only thing remaining is to attach the mast mount, attach your coax feed with a coiled coax balun, and then put up the antenna.

In my case, I modified the instructions somewhat, as I wanted to attach the elements after I carried the boom up onto my roof. I first assembled the elements minus the first, or largest, section of each element. I inserted only the first section of each element into the double boom. This made for a very compact boom assembly which was easy to carry up to my roof. Once on the roof, I moved the boom assembly near the base of the roof tower and completed the assembly of the elements to the boom. With a weight of only 26 pounds, I was able to easily lift the completed antenna and attach it to the mast on the roof tower. With the help of KB5VOD, I was able to easily slide the T5 up to its final height on the mast (total height above ground of 35 feet) and secure it in place. All in all, I spent about four hours assembling the T5.

## Testing ... Testing ... 1-2-3

Once the T5 was up, I connected my MFJ-259 SWR Analyzer to the coax at the base of the roof tower and measured the following characteristics:

Freq. (MHz) 14.2 18.11 21.2 24.93 28.5

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     RTTY         S16         R         PACTOR         0106/95           T028: X0 #C CENEVA         S38 HEBRIAL         RTTY         S16         R         PACTOR         0106/95	NU28: X0 #F CAVENNE         CUF REUL         RTTY         S28: 200 F         FW         ARGE3         0.1455/95           T028: X0 #F CAVENNE         S33: HERRIAL         RTTY         S16: 8         R         PACTOR         01455/95           T028: X0 #C CENEVA         S33: HERRIAL         RTTY         S16: 8         R         PACTOR         01455/95           T028: X0 #C CENEVA         S13: HERRIAL         RTTY         S16: 8         R         PACTOR         0146/95           T028: X0 #C PALE         RH         RTTY         RGF         R         PACTOR         0166/95	NUSH XULH CAVENNE         GUP BPUIL         RTTY         S28 200 F         PW         ARGE3         D345595           NUSH XULH CAVENNE         GUP BPUIL         RTTY         S28 200 F         PW         ARGE3         D345595           NUSH XULH CAVENNE         S38 HERRIGA         RTTY         S16         R         PMCTUR         2116676           NUSHSHOKCR PALE         RH         RTTY         RGF         R         PALTOR         026676	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         S28 200 F         PW         ARGE3         D345595           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         S28 200 F         PW         ARGE3         D345595           VILDE: XX IF CAVENNE         S38 HERRIA         RTTY         S16         R         PMCTUR         211/6/95           VILDE: XX IF CAVENNE         BH         RTTY         S16         R         PMCTUR         21/6/95	NUSH XI H CAVENNE         GUP REUG         RTTY         S28 200 F         PW         ARGE3         D345595           NUSH XI H CAVENNE         GUP REUG         RTTY         S28 200 F         PW         ARGE3         0345595           NUSH XI H CAVENNE         S18 HERRIG         RTTY         S16         R         PMCTUR         016696           NUSH XI H CAVENNE         BH         RTTY         S16         R         PMCTUR         016696	NOME OF PROJECTION         REF         REF         REF         REF         POLARQ         25/06/94           NU281 X0 FF DAYENINE         GUF PRUG         RITY         525 200 F         PW         ARGE3         03/05/95           NU281 X0 FF DAYENINE         GUF PRUG         RITY         525 200 F         PW         ARGE3         03/05/95           NU281 X0 FF DAYENINE         GUF PRUG         RITY         515         R         PULARQ         25/06/95           NU281 X0 FF DAYENINE         SUR HERRIGH, RITY         516         R         PULARQ         03/05/95           NU281 X0 FF DAYENINE         SUR HERRIGH, RITY         516         R         PULARQ         03/05/95           NU281 X0 FF DAYENINE         SUR HERRIGH, RITY         516         R         PULARQ         03/05/95           NU281 X0 FF DAYENINE         SUR HERRIGH, RITY         507         R         R         PULOR         02/06/95
TEXERD COCCERNENA SUB HERRINA STITY SIE E H PACTUR STUGE/95 TEXER COCCERNE BH RITY SIE E R PACTUR SC/96/95	NUSR X0 #F CAVENNE         CAVE PRILL         RTTY         S28 200 F         Av         ARGE3         D105595           NUSR X0 #F CAVENNE         SUB HERRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C SENEVAL         SUB HERRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785	NUSH X0 #F CAVENNE         CUF REUG         RTTY         S2E 2800 F         Fw/         ARGE3         D1055%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         RACTOR         D1065%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         RACTOR         D1065%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         PACTOR         D1065%           10283 X0 RC CENEVA         EH         RTTY         S07         R         R         PACTOR         D06676           10283 X0 RC CENEVAL         EH         RTTY         S07         R         R         PACTOR         D06676           10283 X0 RC CENEVAL         EH         RTTY         S07         R         R         PACTOR         D06676           10203 X0 RC CENEVAL         EH         RTTY         S06         R         PACTOR         D066765	NU251 XX IF CAVENNE         GUF PRUG         RTTY         S25 230 F         Av         ARGE3         B1055%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PACTOR         B1065%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PACTOR         B1065%           NU251 XX IF CAVENNE         ENH         RTTY         B16         R         PACTOR         B1065%           NU251 XX IF CAVENNE         ENH         RTTY         B17         R         PACTOR         B1067%           NU251 XX IF CAVENNE         ENH         RTTY         B17         R         PACTOR         B1067%	NU251 X0 #F CAVENNE         GOF PELLS         RTTY         S25 200 F         PAV         ARGE3         D345/56           NU251 X0 #F CAVENNE         GOF PELLS         RTTY         S26 8         PL         PACTOR         D345/56           NU251 X0 #F CAVENNE         S38 HEBRIA         RTTY         S16 8         PL         PACTOR         D345/56           NU251 X0 #C CAVE AND         EM         RTTY         REF         PL         PACTOR         D346/56           NU251 X0 #C CAVE AND         EM         RTTY         REF         PL         PACTOR         D346/56           NU251 X0 #C CAVE AND         EM         RTTY         REF         PL         PACTOR         D346/56	NUSH X0 #F CoveNME         GUF PRUG         RTTY         S28 2000 F         Pw/         ARGE3         D1/55/95           NUSH X0 #F CoveNME         SUB HERRING         RTTY         S26         R         Pw/CTOR         D1/05/95           NUSH X0 #C CENE VA         SUB HERRING         RTTY         S16         R         Pw/CTOR         D1/05/95           NUSH X0 #C FALL         RH         RTTY         REF         R         Pw/CTOR         D0/65/95           NOSELIN RESERVATION         RH         RTTY         REF         R         Pw/CTOR         D0/65/95	NUSH X0 #F CoveNME         GUF PRUG         RTTY         S28 2000 F         PW         ARGE3         D345595           NUSH X0 #C CENEVA         SUA HERRIA         RTTY         S16         R         PACTOR         D345595           NUSH X0 #C CENEVA         SUA HERRIA         RTTY         S16         R         PACTOR         D345595           NUSH X0 #C FALL         RH         RTTY         R07         R         PACTOR         D36595           NOME X0 #C FALL         RH         RTTY         R07         R         PACTOR         D36595           NOME X0 #C FALL         RH         RTTY         R05         R         PACTOR         D36595	NUSS         MILES         GUE PRUS         RTTY         S25/200/F         PA/         ARGE3         D185/96           NUSS         MILES         MILES <td< td=""><td>NU251 X0 #F CAVENNE         GOF PELLS         RTTY         S25 200 F         PAV         ARGE3         D345/56           NU251 X0 #F CAVENNE         GOF PELLS         RTTY         S26 8         PL         PACTOR         D345/56           NU251 X0 #F CAVENNE         S38 HEBRIA         RTTY         S16 8         PL         PACTOR         D345/56           NU251 X0 #C CAVE AND         EM         RTTY         REF         PL         PACTOR         D346/56           NU251 X0 #C CAVE AND         EM         RTTY         REF         PL         PACTOR         D346/56           NU251 X0 #C CAVE AND         EM         RTTY         REF         PL         PACTOR         D346/56</td><td>NUSH X/HF CAVENNE         CUF PRUS         RTTY         S25/200/F         Pw/         ARGE3         D1/5/56           10253 X0/RF CAVENNE         SUB HERAL         RTTY         S16         R         PACTOR         D1/6/56           10253 X0/RF CAVE         SUB HERAL         RTTY         S16         R         PACTOR         D1/6/56           10253 X0/RF CAVE         EM         RTTY         REF         R         PACTOR         D0/6/76           10253 X0/RF CAVE         EM         RTTY         REF         R         PACTOR         D0/6/76           10251 X0/RF CAVE         EM         RTTY         REF         R         PACTOR         D0/6/76           10251 X0/RF CAVE         EM         RTTY         REF         R         PACTOR         D0/6/76</td><td>NOME OF POLY         REL         RTTY         1422/2564         FE         POLARD         24/06/94           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         525/250/F         FW         ARGE3         0.015/56           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         525/250/F         FW         ARGE3         0.015/56           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         525/250/F         FW         ARGE3         0.015/56           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         516         R         PACTOR         0.06/56           NUSH X0 PF CAVENNE         GH         RTTY         807         E         R         PACTOR         0.06/56           NUSH X0 PF CAVENNE         GH         RTTY         807         E         R         PACTOR         0.06/56           NULL 00         SECENDARIAN         GH         RTTY         RE         0         FI         FACTOR         0.06/56</td></td<>	NU251 X0 #F CAVENNE         GOF PELLS         RTTY         S25 200 F         PAV         ARGE3         D345/56           NU251 X0 #F CAVENNE         GOF PELLS         RTTY         S26 8         PL         PACTOR         D345/56           NU251 X0 #F CAVENNE         S38 HEBRIA         RTTY         S16 8         PL         PACTOR         D345/56           NU251 X0 #C CAVE AND         EM         RTTY         REF         PL         PACTOR         D346/56           NU251 X0 #C CAVE AND         EM         RTTY         REF         PL         PACTOR         D346/56           NU251 X0 #C CAVE AND         EM         RTTY         REF         PL         PACTOR         D346/56	NUSH X/HF CAVENNE         CUF PRUS         RTTY         S25/200/F         Pw/         ARGE3         D1/5/56           10253 X0/RF CAVENNE         SUB HERAL         RTTY         S16         R         PACTOR         D1/6/56           10253 X0/RF CAVE         SUB HERAL         RTTY         S16         R         PACTOR         D1/6/56           10253 X0/RF CAVE         EM         RTTY         REF         R         PACTOR         D0/6/76           10253 X0/RF CAVE         EM         RTTY         REF         R         PACTOR         D0/6/76           10251 X0/RF CAVE         EM         RTTY         REF         R         PACTOR         D0/6/76           10251 X0/RF CAVE         EM         RTTY         REF         R         PACTOR         D0/6/76	NOME OF POLY         REL         RTTY         1422/2564         FE         POLARD         24/06/94           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         525/250/F         FW         ARGE3         0.015/56           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         525/250/F         FW         ARGE3         0.015/56           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         525/250/F         FW         ARGE3         0.015/56           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         516         R         PACTOR         0.06/56           NUSH X0 PF CAVENNE         GH         RTTY         807         E         R         PACTOR         0.06/56           NUSH X0 PF CAVENNE         GH         RTTY         807         E         R         PACTOR         0.06/56           NULL 00         SECENDARIAN         GH         RTTY         RE         0         FI         FACTOR         0.06/56
10283 00 KPC GENEVA         503         HEIB204         HTTY         HEIB         H         HL06/95           10283 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95           10283 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95           10203 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95	NUSR X0 #F CAVE VINE         COF RELIG         RTTY         S28 2000 F         Avv         ARGE3         D105595           NUSR X0 #C SENEVA         SUB HERRIA         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C SENEVA         SUB HERRIA         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C FALL         RIH         RTTY         REF         R         PACTOR         D006755           NUSR X0 #C FALL         RIH         RTTY         REF         R         PACTOR         D006755           NUSR X0 #C FALL         RIH         RTTY         REF         R         PACTOR         D006755           NUME         RESERVED         RIH         RTTY         REF         R         PACTOR         D006755           NUME         RESERVED         RIH         RTTY         REF         R         PACTOR         D006755           NUME         RESERVED         RIH         RTTY         REF         R         PACTOR         D006755           NUME         REF         REV         RTTY         NUME         R         R         PACTOR         D005755	NUSH X0 RF CAVENNE         CUF REUG         RTTY         S25 2300 F         Av         ARGE3         D105595           10253 00 CRC SENEVA         SUR HERBAL         RTTY         316         R         RuctoR         0106595           10253 00 CRC PRLE         EH         RTTY         807         E         R         PACTOR         0206755           10253 00 CRC PRLE         EH         RTTY         807         E         R         PACTOR         0206755           10203 00 CRC PRLE         EH         RTTY         916         E         R         PACTOR         0206755           10203 00 CRC 2AGRE3         HRV         RTTY         1140         0         R         PACTOR         01/05755	NU251 X0 #F CAVENNE         GUF PEUL         RTTY         S25 200 F         Av         ARGE3         D105795           NU251 X0 #F CAVENNE         GUF PEUL         RTTY         S16         R         PACTOR         D105795           NU251 X0 (AC GENEVA         S18         HERRIA         RTTY         S16         R         PACTOR         D105795           NU251 X0 (AC FAULE         EH         RTTY         BIF         R         PACTOR         D060765           NU251 X0 (AC FAULE         EH         RTTY         BIF         R         PACTOR         D060765           NU251 X0 (AC CAULE         EH         RTTY         BIF         R         PACTOR         D060765           NU251 X0 (AC CAULE         EH         RTTY         BIF         R         PACTOR         D060765           NU251 X0 (AC CAULE         EH         RTTY         BIF         R         PACTOR         D060795           NU251 X0 (AC CAULE)         EH         RTTY         THE         R         PACTOR         D1050795           NU251 X0 (AC CAULE)         HRV         RTTY         NU45         R         R         PACTOR         NU55795	NU281 X0 #F CAVENNE         GUF PRUS         RTTY         S28 (200 F)         PAV         ARGE3         D185/95           NU281 X0 #F CAVENNE         SUR HERRIA         RTTY         S28 (200 F)         PAV         ARGE3         D185/95           NU281 X0 (FC GENEVA         SUR HERRIA         RTTY         S16         R         PACTOR         D186/95           NU281 X0 (FC FALL         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FC FALL         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FC CAULE)         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FC CAULE)         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FRC CAULE)         EH         RTTY         REF         R         PACTOR         D106/95           NU281 X0 (FRC CAULE)         EH         RTTY         RTTY         REF         R         PACTOR         D106/95           NU281 X0 (FRC CAULE)         HRV         RTTY         NU48         R         R         R         R         R         R         R         R         R         R	NU28: X0 #F CovENNE         GUF PRUS         RTTY         S28: 250% F         Av         ARGE3         D1455%           NU28: X0 #F CovENNE         SUB HEBRIG         RTTY         S16         R         PACTOR         D1455%           NU28: X0 #C SENEVAL         SUB HEBRIG         RTTY         S16         R         PACTOR         D1455%           NU28: X0 #C FALL         RH         RTTY         REF         R         PACTOR         D0505%           NU28: X0 #C FALL         RH         RTTY         REF         R         PACTOR         D0505%           NU28: X0 #C FALL         RH         RTTY         REF         R         PACTOR         D0505%           NU28: X0 #C FALL         RH         RTTY         REF         R         PACTOR         D0505%           NU28: X0 #C FALL         RH         RTTY         REF         R         PACTOR         D0505%           NU28: X0 #C FALL         RH         RTTY         REF         R         PACTOR         D0505%           NU28: X0 #C FALL         RH         RTTY         REF         R         PACTOR         D0505%           NU28: X0 #C FALL         RRV         RTTY         NU40         RT         PACTOR         D14057% <td>HUDB X0 #F CovENNE         GUF PRUS         RTTY         S28 2000 F         Av         ARGE3         D1455/95           HIDB X0 K7K SENEVA         SUA HERRIA         RTTY         S16         R         PACTOR         D1455/95           HIDB X0 K7K SENEVA         SUA HERRIA         RTTY         S16         R         PACTOR         D1455/95           HIDB X0 K7K FALL         RH         RTTY         RGF         R         PACTOR         D1060/95           HOML NR FALL         RH         RTTY         RGF         R         PACTOR         D1060/95           HOML NR FALL         RH         RTTY         RGF         R         PACTOR         D1060/95           HOML NR FALL         RH         RTTY         RGF         R         PACTOR         D1060/95           HOML NR FALL         RH         RTTY         RGF         R         PACTOR         D1060/95           HOML NR FALL         RRV         RTTY         NTY         NTY         RTY         RTY</td> <td>NUSS         XV IF CAVENNE         GUF PEUL         RTTY         S25 200 F         Av         ARGE3         D185%           NUSS         XV PEUL         RTTY         S16         R         PACTOR         D185%           NUSS         XV PEUL         RTTY         S16         R         PACTOR         D185%           NUSS         XV PEUL         RH         RTTY         S16         R         PACTOR         D186%           NUSS         XV PEUL         RH         RTTY         S16         R         PACTOR         D186%           NUSS         XV PEUL         RH         RTTY         S16         R         PACTOR         D186%           NUSS         XV PEUL         RH         RTTY         S16         R         PACTOR         D186%           NUSS         XV PEUL         RH         RTTY         S16         R         PACTOR         D186%           NUSS         RESERVENCE         RH         RTTY         S16         R         PACTOR         D186%           NUSS         RESERVENCE         RH         RTTY         S16         R         PACTOR         D186%           NUSS         RTTY         S14         RTTY         S1</td> <td>NU281 X0 #F CAVENNE         GUF PRUS         RTTY         S28 (200 F)         PAV         ARGE3         D185/95           NU281 X0 #F CAVENNE         SUR HERRIA         RTTY         S28 (200 F)         PAV         ARGE3         D185/95           NU281 X0 (FC GENEVA         SUR HERRIA         RTTY         S16         R         PACTOR         D186/95           NU281 X0 (FC FALL         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FC FALL         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FC CAULE)         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FC CAULE)         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FRC CAULE)         EH         RTTY         REF         R         PACTOR         D106/95           NU281 X0 (FRC CAULE)         EH         RTTY         RTTY         REF         R         PACTOR         D106/95           NU281 X0 (FRC CAULE)         HRV         RTTY         NU48         R         R         R         R         R         R         R         R         R         R</td> <td>NU281 XX IF CAVENNE         GUE PEUG         RTTY         S25 2300 F         PA/         ARGE3         D185/95           10283 XX IF CAVENNE         GUE PEUG         RTTY         S16         R         PACTOR         D185/95           10283 XX IF CAVENNE         S18         HERRIG         RTTY         S16         R         PACTOR         D185/95           10283 XX IF CAVE         ENH         RTTY         B16         R         PACTOR         D106/95           10283 XX IF CAVE         ENH         RTTY         B17         B         R         PACTOR         D106/95           10283 XX IF CAVE         ENH         RTTY         B16         R         PACTOR         D106/95           10283 XX IF CAVE         ENH         RTTY         B16         R         PACTOR         D106/95           10283 XX IF CAVENNE         ENH         RTTY         B16         R         PACTOR         D106/95           10283 XX IF CAVENNE         ENH         RTTY         B14         RTTY         B17         AACTOR         D106/95           10283 XX IF CAVENNE         ENH         RTTY         B140         RT         PACTOR         D106/95</td> <td>10201.00         MOL END DRUGSELS         BEL         RTTY         1422.256         FE         POL ARD         24/06/94           10291.30         FF CAVENNE         GUF PRUG         RTTY         \$25,250/F         FW         ARG E3         0.4/5/95           10291.30         FF CAVENNE         GUF PRUG         RTTY         \$25,250/F         FW         ARG E3         0.4/5/95           10293.30         FF CAVENNE         SUR HERRIGAL         RTTY         \$216         FI         PACTOR         0.4/5/95           10293.00         CRC FALE         FIH         RTTY         \$257         F         FI         PACTOR         0.0/6/95           10203.00         CRC FALE         FIH         RTTY         \$16         FI         FACTOR         0.0/6/95           10203.00         CRC ZAGREB         HRV         RTTY         1140         0         FI         FACTOR         0.0/6/95</td>	HUDB X0 #F CovENNE         GUF PRUS         RTTY         S28 2000 F         Av         ARGE3         D1455/95           HIDB X0 K7K SENEVA         SUA HERRIA         RTTY         S16         R         PACTOR         D1455/95           HIDB X0 K7K SENEVA         SUA HERRIA         RTTY         S16         R         PACTOR         D1455/95           HIDB X0 K7K FALL         RH         RTTY         RGF         R         PACTOR         D1060/95           HOML NR FALL         RH         RTTY         RGF         R         PACTOR         D1060/95           HOML NR FALL         RH         RTTY         RGF         R         PACTOR         D1060/95           HOML NR FALL         RH         RTTY         RGF         R         PACTOR         D1060/95           HOML NR FALL         RH         RTTY         RGF         R         PACTOR         D1060/95           HOML NR FALL         RRV         RTTY         NTY         NTY         RTY         RTY	NUSS         XV IF CAVENNE         GUF PEUL         RTTY         S25 200 F         Av         ARGE3         D185%           NUSS         XV PEUL         RTTY         S16         R         PACTOR         D185%           NUSS         XV PEUL         RTTY         S16         R         PACTOR         D185%           NUSS         XV PEUL         RH         RTTY         S16         R         PACTOR         D186%           NUSS         XV PEUL         RH         RTTY         S16         R         PACTOR         D186%           NUSS         XV PEUL         RH         RTTY         S16         R         PACTOR         D186%           NUSS         XV PEUL         RH         RTTY         S16         R         PACTOR         D186%           NUSS         XV PEUL         RH         RTTY         S16         R         PACTOR         D186%           NUSS         RESERVENCE         RH         RTTY         S16         R         PACTOR         D186%           NUSS         RESERVENCE         RH         RTTY         S16         R         PACTOR         D186%           NUSS         RTTY         S14         RTTY         S1	NU281 X0 #F CAVENNE         GUF PRUS         RTTY         S28 (200 F)         PAV         ARGE3         D185/95           NU281 X0 #F CAVENNE         SUR HERRIA         RTTY         S28 (200 F)         PAV         ARGE3         D185/95           NU281 X0 (FC GENEVA         SUR HERRIA         RTTY         S16         R         PACTOR         D186/95           NU281 X0 (FC FALL         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FC FALL         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FC CAULE)         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FC CAULE)         EH         RTTY         REF         R         PACTOR         D296/95           NU281 X0 (FRC CAULE)         EH         RTTY         REF         R         PACTOR         D106/95           NU281 X0 (FRC CAULE)         EH         RTTY         RTTY         REF         R         PACTOR         D106/95           NU281 X0 (FRC CAULE)         HRV         RTTY         NU48         R         R         R         R         R         R         R         R         R         R	NU281 XX IF CAVENNE         GUE PEUG         RTTY         S25 2300 F         PA/         ARGE3         D185/95           10283 XX IF CAVENNE         GUE PEUG         RTTY         S16         R         PACTOR         D185/95           10283 XX IF CAVENNE         S18         HERRIG         RTTY         S16         R         PACTOR         D185/95           10283 XX IF CAVE         ENH         RTTY         B16         R         PACTOR         D106/95           10283 XX IF CAVE         ENH         RTTY         B17         B         R         PACTOR         D106/95           10283 XX IF CAVE         ENH         RTTY         B16         R         PACTOR         D106/95           10283 XX IF CAVE         ENH         RTTY         B16         R         PACTOR         D106/95           10283 XX IF CAVENNE         ENH         RTTY         B16         R         PACTOR         D106/95           10283 XX IF CAVENNE         ENH         RTTY         B14         RTTY         B17         AACTOR         D106/95           10283 XX IF CAVENNE         ENH         RTTY         B140         RT         PACTOR         D106/95	10201.00         MOL END DRUGSELS         BEL         RTTY         1422.256         FE         POL ARD         24/06/94           10291.30         FF CAVENNE         GUF PRUG         RTTY         \$25,250/F         FW         ARG E3         0.4/5/95           10291.30         FF CAVENNE         GUF PRUG         RTTY         \$25,250/F         FW         ARG E3         0.4/5/95           10293.30         FF CAVENNE         SUR HERRIGAL         RTTY         \$216         FI         PACTOR         0.4/5/95           10293.00         CRC FALE         FIH         RTTY         \$257         F         FI         PACTOR         0.0/6/95           10203.00         CRC FALE         FIH         RTTY         \$16         FI         FACTOR         0.0/6/95           10203.00         CRC ZAGREB         HRV         RTTY         1140         0         FI         FACTOR         0.0/6/95
TELEDIRY CREATE SUI HERRIN ATTY SIE E H PACTUR ITUGE/S	TUDER 2017 DAVENNE DAVE PRUM RTTY 525 2007 PW ARGES 0345595 TUDER DAVE GENEVA SUI HEIRINA RTTY 816 8 R PACTUR 2010696	TILLER XI AF CAVENNE CUF PRUG RITY \$25,255,7 PW ARGE3 0345595 TILLER IN CAVE GENEVA SUB HERRIA RITY \$16 E H PACTUR 20106/95	TILDER XV IFF CAVENNE CAVE REFULL RETTY S25 2000 F FW ARG E3 0345595 TILDED KORC GENE VIA SUB HEIBONA RETTY S16 8 H PACTURE 20106/96	TILDER XV IFF CAVENNE CAVE REFULL RETTY S25 2000 F FW ARG E3 0345595 TILDED KORC GENE VIA SUB HEIBONA RETTY S16 8 H PACTURE 20106/96	TILDER XN AF CAVENINE CAVE PRIVIL RITTY S25 2150 F FW ARG E3 0345595 TILDER KORC GENE VIA SUN HEIRDIA RITTY S16 8 H PACTUR 20106/95	TILDER XN AF CAVENINE CAVE PRIVIL RITTY S25 2150 F FW ARG E3 0345595 TILDER KORC GENE VIA SUN HEIRDIA RITTY S16 8 H PACTUR 20106/95	TILOST XU AF CAVENNE CUF REFUG RITTY S25 200 F FW ARGES 0345595 TILOST XU AF CENEVA SUB HERAUL RITTY S16 8 H PACTUR 2010695	TILDER XV IFF CAVENNE CAVE REFULL RETTY S25 2000 F FW ARG E3 0345595 TILDED KORC GENE VIA SUB HEIBONA RETTY S16 8 H PACTURE 20106/96	TILDET XV AF CRYENNE CUF PFULL RTTY \$25 2100 F FW ARGES 0345595 TILDET RUXAC GENEVA SUB HERRIA RTTY \$16 8 H PACTUR 2010696	10281.00         POL. EMB BIRUSSELS         BEL         RTTY         1432.2563         FE         POL.4RQ         25/06/94           10281.00         POL EMB BIRUSSELS         BEL         RTTY         1432.2563         FE         POL.4RQ         25/06/94           10281.00         POL EMB BIRUSSELS         BEL         RTTY         525.2553         FW         ARGE3         03/05/95           10283.00         POL EMB BIRUSSELS         SUB HEBRIG         RTTY         516         FL         PW         ARGE3         03/05/95
TEXERD COCCERNENA SUB HERRINA STITY SIE E H PACTUR STUGE/95 TEXER COCCERNE BH RITY SIE E R PACTUR SC/96/95	NU281 X0 #F CAVENNE         CAVE RELIG         RTTY         S28 2000 F         PW         ARGE3         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #C CENEVA         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95	NUSH XI H CAVENNE         GUE PPUIL         RTTY         \$25,225/F         Av         ARGE3         D355/55           NUSH XI H CAVENNE         SUR HERRIGA         RTTY         \$16         R         Pactor         10,05/95           NUSH XI H CAVENNE         SUR HERRIGA         RTTY         \$16         R         Pactor         10,05/95           NUSH XI H CAVENNE         SUR HERRIGA         RTTY         \$16         R         Pactor         10,05/95           NUSH XI H CAVENNE         BH         RTTY         \$16         R         Pactor         10,05/95	VILDES XO AF CAVENINE GOVE BELLE RETTY SZE ZESSEF FAW ARGES BLACES/95 NEZES KORC GENEVIA SUB HERRIA RETTY BEE B RE PACTOR 20166/95 NEZES KORC PALE BEM RETTY BOT B RE PACTOR 20166/95	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         S28 200 F         PW         ARGE3         D345595           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         S28 200 F         PW         ARGE3         D345595           VILDE: XX IF CAVENNE         S38 HERRIA         RTTY         S16         R         PMCTUR         211/6/95           VILDE: XX IF CAVENNE         BH         RTTY         S16         R         PMCTUR         21/6/95	NU28: X0 #F CAVENNE         COF BEUX         RTTY         S28: Z100 F         PW         ARGE3         0.1455/95           T028: X0 #F CAVENNE         S38 HEBRIAL         RTTY         S16         R         PACTOR         0106/95           T028: X0 #C CENEVA         S38 HEBRIAL         RTTY         S16         R         PACTOR         0106/95           T028: X0 #C CENEVA         S38 HEBRIAL         RTTY         S16         R         PACTOR         0106/95	NU25: X0 #F CAVENNE         CUF REUL         RTTY         S25: Z100 F         FW         ARGE3         D3455/95           T025: X0 #F CAVENNE         S33: HERE24         RTTY         S16: 8         R         PACTOR         211/65/95           T025: X0 #C CENEVA         S33: HERE24         RTTY         S16: 8         R         PACTOR         211/65/95           T025: X0 #C CENEVA         S13: HERE24         RTTY         S16: 8         R         PACTOR         211/65/95           T025: X0 #C PALE         RH         RTTY         RGF         R         PACTOR         201/66/95	NUSH XULH CAVENNE         GUP BPUIL         RTTY         S28 200 F         PW         ARGE3         D345595           NUSH XULH CAVENNE         GUP BPUIL         RTTY         S28 200 F         PW         ARGE3         D345595           NUSH XULH CAVENNE         SUH HERINA         RTTY         S16         R         PMCTUR         2016696           NUSHSHOKCREPALE         RH         RTTY         RGF         R         PALTOR         005676	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         S28 200 F         PW         ARGE3         D345595           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         S28 200 F         PW         ARGE3         D345595           VILDE: XX IF CAVENNE         S38 HERRIA         RTTY         S16         R         PMCTUR         211/6/95           VILDE: XX IF CAVENNE         BH         RTTY         S16         R         PMCTUR         21/6/95	NUSH XI H CAVENNE         GUP REUG         RTTY         S28 200 F         PW         ARGE3         D345595           NUSH XI H CAVENNE         GUP REUG         RTTY         S28 200 F         PW         ARGE3         0345595           NUSH XI H CAVENNE         S18 HERRIG         RTTY         S16         R         PMCTUR         016696           NUSH XI H CAVENNE         BH         RTTY         S16         R         PMCTUR         016696	YO2R1.00         POL. EMB. BIRUSSELS         REL         RTTY         1432-2563         FE         POL.4RQ         25/06/94           Y02R1.00         PF DAYENNE         DUF RPUID         RTTY         \$25/2503 F         PW         ARGE3         D1/05/96           Y02R1.00         PF DAYENNE         DUF RPUID         RTTY         \$25/2503 F         PW         ARGE3         D1/05/96           Y02R1.00         PF DAYENNE         SUF RPUID         RTTY         \$16         PL         PULARQ         25/06/96           Y02R1.00         PF DAYENNE         SUF RPUID         RTTY         \$16         PL         PULARQ         25/06/96           Y02R1.00         PF DAYENNE         SUF RPUID         RTTY         \$16         PL         PULARQ         25/06/96           Y02R1.00         PE         PL         <
10243100 KPC GENE 48         528         HEIBER         HTTY         THE         H         HEIGHT         THOMAN	NUSR X0 #F CAVE VINE         COF RELIG         RTTY         S28 2000 F         PAV         ARGE3         D105595           NUSR X0 #F CAVE VINE         SUB HEIRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C SENEVAL         SUB HEIRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C FALL         RTH         RTTY         REF         R         PACTOR         D006765           NUSR X0 #C FALL         RTH         RTTY         REF         R         PACTOR         D006765           NUSR X0 #C FALL         RTH         RTTY         REF         R         PACTOR         D006765           NUSR X0 #C FALL         RTH         RTTY         REF         R         PACTOR         D006765	NUSH X0 HF CAVENNE         CUF RPUIL         RTTY         S25 2350 F         Fw         APQE3         D1055%           10251 X0 K7K GENENA         SUB HER2AL         RTTY         S16         R         PACTOR         D1055%           10253 X0 K7K GENENA         SUB HER2AL         RTTY         S16         R         PACTOR         D1055%           10253 X0 K7K GENENA         SUB HER2AL         RTTY         RS7         R         RACTOR         D065%           10253 X0 K7K FALS         EH         RTTY         RS7         R         PACTOR         D066%           10251 X0 K7K FALS         EH         RTTY         RS7         R         PACTOR         D066%           10251 X0 K7K FALS         EH         RTTY         RS7         R         PACTOR         D066%	NU251 XX IF CAVENNE         GOF PENJI         RTTY         S25 2350 F         PAV         ARGE3         D1055/95           NU251 XX IF CAVENNE         GOF PENJI         RTTY         S16         R         PACTOR         D1055/95           NU251 XX IF CAVENNE         S18         HERRIA         RTTY         S16         R         PACTOR         D1056/95           NU251 XX IF CAVENNE         E1H         RTTY         S16         R         PACTOR         D1056/95           NU251 XX IF CAVENNE         E1H         RTTY         S16         R         PACTOR         D1056/95           NU251 XX IF CAVENNE         E1H         RTTY         S16         R         PACTOR         D1056/95           NU251 XX IF CAVENNE         E1H         RTTY         S16         R         PACTOR         D1056/95	NU251 XX IF CAVENNE         GOF PENS         RTTY         S25 200 F         PA/         ARGE3         D355/95           NU251 XX IF CAVENNE         GOF PENS         RTTY         S16         R         PA/CER         D365/95           NU251 XX IF CAVENNE         S18         HERRIA         RTTY         S16         R         PA/CER         D106/95           NU251 XX IF CAVENNE         EH         RTTY         B16         R         PA/CER         D106/95           NU251 XX IF CAVENNE         EH         RTTY         B17         R         PA/CER         D06/95           NU251 XX IF CAVENNE         EH         RTTY         B17         R         PA/CER         D06/95           NU251 XX IF CAVENNE         EH         RTTY         B17         R         PA/CER         D06/95	NUSR X0 #F Cove NNE         Cove PRUS         RTTY         S28 2000 F         PAV         ARGE3         D145595           NUSR X0 #C CENEVA         SUB HEBRIA         RTTY         S16         R         PACTOR         D145595           NUSR X0 #C CENEVA         SUB HEBRIA         RTTY         S16         R         PACTOR         D145595           NUSR X0 #C FAUL         RH         RTTY         REF         R         PACTOR         D145695           NUSR X0 #C FAUL         RH         RTTY         REF         R         PACTOR         D145695           NUSR X0 #C FAUL         RH         RTTY         REF         R         PACTOR         D145695           NUSR X0 #C FAUL         RH         RTTY         REF         R         PACTOR         D145695	NUSR X0 #F Cove NNE         Cove PRUS         RTTY         S28 2000 F         PAV         ARGE3         D145595           NUSR X0 #C CENEVA         SUB HEBRIA         RTTY         S16         R         PACTOR         D145595           NUSR X0 #C CENEVA         SUB HEBRIA         RTTY         S16         R         PACTOR         D145595           NUSR X0 #C FAUL         RH         RTTY         REF         R         PACTOR         D145695           NUSR X0 #C FAUL         RH         RTTY         REF         R         PACTOR         D145695           NUSR X0 #C FAUL         RH         RTTY         REF         R         PACTOR         D145695           NUSR X0 #C FAUL         RH         RTTY         REF         R         PACTOR         D145695	NUSS         XV IF CAVENNE         GUF PEUL         RTTY         S25 200 F         Av         ARGE3         D105/95           10253 00 K7K GENEVA         508 HERAL         RTTY         S16         R         PACTOR         01/05/95           10253 00 K7K GENEVA         508 HERAL         RTTY         S16         R         PACTOR         01/05/95           10253 00 K7K GENEVA         614         RTTY         867         R         PACTOR         00/05/95           10203 00 K7K FALL         614         RTTY         867         R         PACTOR         00/05/95           10203 00 K7K FALL         614         RTTY         867         R         PACTOR         00/05/95	NU251 XX IF CAVENNE         GOF PEND         RTTY         S25 2300 F         PAV         ARGE3         D355/95           NU251 XX IF CAVENNE         GOF PEND         RTTY         S16         R         PACTOR         D365/95           NU251 XX IF CAVENNE         S18         HERRIA         RTTY         S16         R         PACTOR         D305/95           NU251 XX IF CAVENNE         EH         RTTY         S16         R         PACTOR         D306/95           NU251 XX IF CAVENNE         EH         RTTY         S16         R         PACTOR         D306/95           NU251 XX IF CAVENNE         EH         RTTY         S16         R         PACTOR         D306/95	NUSH X/H CAVENNE         GUF RFUIL         RTTY         S25/200/F         Pw/         ARGE3         D355/95           10253 X0/R7C SENEVA         508 HERAL         RTTY         316         R         PACTOR         01/05/95           10253 X0/R7C SENEVA         508 HERAL         RTTY         316         R         PACTOR         01/05/95           10253 X0/R7C FRUE         EH         RTTY         857         R         PACTOR         00/05/95           10251 X0/R7C FRUE         EH         RTTY         857         R         PACTOR         00/05/95           10251 X0/R7C FRUE         EH         RTTY         957         R         PACTOR         00/05/95	NOME OF POLY         REL         RTTY         1422 2263         FE         POLARQ         25/06/94           NU281 X0 FF CAVE NINE         GUF PPL/G         RTTY         \$25 2250/F         Pol         ARQ E3         03/05/95           NU281 X0 FF CAVE NINE         GUF PPL/G         RTTY         \$25 2250/F         Pol         ARQ E3         03/05/95           NU281 X0 FF CAVE NINE         GUF PPL/G         RTTY         \$25 2250/F         Pol         ARQ E3         03/05/95           NU281 X0 FF CAVE NINE         SUB HEBRICAL         RTTY         \$16         R         PACIDIA         20/05/95           NU283 X0 FF CAVE NINE         SUB HEBRICAL         RTTY         \$16         R         PACIDIA         20/05/95           NU283 X0 FF CAUE         SUB H         RTTY         \$16         R         PACIDIA         20/05/95           NU283 X0 FF CAUE         SUB H         RTTY         \$16         R         PACIDIA         20/05/95           NU283 X0 FF CAUE         SUB H         RTTY         \$16         R         PACIDIA         10/05/95           NU212 X0         SUB SUB/05         SUB SUB/05         SUB SUB/05         SUB SUB/05         SUB SUB/05         SUB SUB/05
10283 00 KPC GENEVA         503         HEIB204         HTTY         HEIB         H         HL06/95           10283 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95           10283 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95           10203 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95	NUSR X0 #F CAVENNE         CAVE PRILL         RTTY         S28 200 F         Av         ARGE3         D105595           NUSR X0 #F CAVENNE         SUB HERRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C SENEVAL         SUB HERRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785	NUSH X0 #F CAVENNE         CUF REUG         RTTY         S2E 2800 F         Fw/         ARGE3         D1055%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         Ructlin         R106765           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         Ructlin         R106765           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         REF         R         Ructlin         R106765           10283 X0 RC CENEVA         EH         RTTY         REF         R         Ructlin         R106765           10283 X0 RC CENEVA         EH         RTTY         REF         R         RUCTOR         R06765           10283 X0 RC CENEVA         EH         RTTY         REF         R         RuctoR         R06765	NU251 XX IF CAVENNE         GUF PRUG         RTTY         S25 230 F         PA/         ARGE3         B1055%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%	NU251 XX IF CAVENNE         GUF PRUG         RTTY         S25 230 F         PA/         ARGE3         B1055%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%	NUMB         DUF         PRUS         RTTY         S28 200 F         PA/         ARGE3         D105595           NUMB         DUF         PRUS         RTTY         S28 200 F         PA/         ARGE3         D105595           NUMB         DUF         PRUS         SUB         HERRIG         RTTY         S26         R         PA/CTOR         D105695           NUMB         PRUS         RTTY         REF         R         PA/CTOR         D00695           NUMB         PRUS         RTTY         REF         R         PA/CTOR         D00695           NUMB         PRUS         RTTY         REF         R         PA/CTOR         D00695	NUMB         DUF         PRUS         RTTY         S28 200 F         PA/         ARGE3         D105595           NUMB         DUF         PRUS         RTTY         S28 200 F         PA/         ARGE3         D105595           NUMB         DUF         PRUS         SUB         HERRIG         RTTY         S26         R         PA/CTOR         D105695           NUMB         PRUS         RTTY         REF         R         PA/CTOR         D00695           NUMB         PRUS         RTTY         REF         R         PA/CTOR         D00695           NUMB         PRUS         RTTY         REF         R         PA/CTOR         D00695	NUSS         XI IF CAVENNE         GUE PEUL         RTTY         S25 200 F         Av         ARGE3         B1055%           NUSS         XI IF CAVENNE         GUE PEUL         RTTY         S25 200 F         Av         ARGE3         B1055%           NUSS         XI IF CAVENNE         SUB HEBRING         RTTY         S16         R         PACTOR         R106765           NUSS         BLICK FRUE         EH         RTTY         BIF         R         PACTOR         R06765           NUSS         BLICK FRUE         EH         RTTY         BIF         R         PACTOR         R06765           NUSS         BLICK FRUE         EH         RTTY         BIF         R         PACTOR         R06765	NU251 XX IF CAVENNE         GUF PRUG         RTTY         S25 230 F         PA/         ARGE3         B1055%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%	NUSH X/H (AVENNE         GUE PEUL         RTTY         S25/200/F         FW         ARGE3         B105/96           10251 X/H (AVENNE         GUE PEUL         RTTY         S25/200/F         FW         ARGE3         B105/96           10251 X/H (AVENNE         SUB HEBAUL         RTTY         S16         R         FW/GE3         B106/96           10253 X/H (AVENNE         EH         RTTY         B16         R         FW/GE3         B106/96           10253 X/H (AVENNE         EH         RTTY         B07         E         R         FW/GE3         B106/95           10251 X/H (AVENNE         EH         RTTY         B07         E         R         FW/GE3         B106/95           10211 X/H (AVENNE)         EH         RTTY         B16         FI         FW/GR3         B106/95	NOME OF POLY         REL         RTTY         1422/2564         FE         POLARD         24/06/94           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         525/250/F         FW         ARGE3         0.015/56           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         525/250/F         FW         ARGE3         0.015/56           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         525/250/F         FW         ARGE3         0.015/56           NUSH X0 PF CAVENNE         GUF PPUL         RTTY         516         R         PACTOR         0.06/56           NUSH X0 PF CAVENNE         GH         RTTY         807         E         R         PACTOR         0.06/56           NUSH X0 PF CAVENNE         GH         RTTY         807         E         R         PACTOR         0.06/56           NULL 00         SECENDARIAN         GH         RTTY         RE         0         FI         FACTOR         0.06/56
TEXERD COCCERNENA SUB HERRINA STITY SIE E H PACTUR STUGE/95 TEXER COCCERNE BH RITY SIE E R PACTUR SC/96/95	NU281 X0 #F CAVENNE         CAVE RELIG         RTTY         S28 2000 F         PW         ARGE3         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #C CENEVA         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95	NU251 XX H CAVENNE         GUE REFUG         RTTY         525 2350 F         Av         ARGE3         03/05/95           NU251 XX HE CAVENNE         GUE REFUG         RTTY         516         R         RECTOR         03/05/95           NU251 XX RC GENEVA         SUR HERBAUL         RTTY         316         R         RECTOR         03/05/95           NU251 XX RC GENEVA         SUR HERBAUL         RTTY         316         R         RECTOR         02/05/95           NU251 XX RC FILLE         RH         RTTY         957         R         R         PACTOR         02/05/95	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERAL         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERAL         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	NU2R X0 #F CAVENNE         GUF REUX         RTTY         S2E 280 F         PW         ARGE3         03/05/95           NU2R X0 #F CAVENNE         GUF REUX         RTTY         S2E 280 F         PW         ARGE3         03/05/95           NU2R X0 #F CAVENNE         S3R HERRINE         RTTY         S1E         R         PMCTOR         01/05/95           NU2R X0 #C CAVENNE         RH         RTTY         S1E         R         PMCTOR         02/05/95	NU2R X0 #F CAVENNE         GUF REUX         RTTY         S2E 280 F         PW         ARGE3         03/05/95           NU2R X0 #F CAVENNE         GUF REUX         RTTY         S2E 280 F         PW         ARGE3         03/05/95           NU2R X0 #F CAVENNE         S3R HERRINE         RTTY         S1E         R         PMCTOR         01/05/95           NU2R X0 #C CAVENNE         RH         RTTY         S1E         R         PMCTOR         02/05/95	NUSH X0 H CAVENNE         GUP RPUIL         RTTY         \$25,220,67         Av         ARGE3         03/05/95           NUSH X0 H CAVENNE         GUP RPUIL         RTTY         \$25,220,67         Av         ARGE3         03/05/95           NUSH X0 H CAVENNE         SUR HERAUL         RTTY         \$16         R         Pactor         10/05/95           NUSH X0 H CAVENNE         BH         RTTY         \$16         R         Pactor         10/05/95	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERAL         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	NU251 XX H CAVENNE         GUE REFUG         RTTY         525 2350 F         Av         ARGE3         03/05/95           NU251 XX HE CAVENNE         GUE REFUG         RTTY         516         R         RECTOR         03/05/95           NU251 XX RC GENEVA         SUR HERBAUL         RTTY         316         R         RECTOR         03/05/95           NU251 XX RC GENEVA         SUR HERBAUL         RTTY         316         R         RECTOR         02/05/95           NU251 XX RC FILLE         RH         RTTY         957         R         R         PACTOR         02/05/95	NOME OF POLY END DRUGSELS         BEL         RTTY         1432/2001         FE         POLARQ         25/06/04           NOME OF POLY END DRUGSELS         BEL         RTTY         1432/2001         FE         POLARQ         25/06/04           NOME OF POLY END DRUGSELS         BEL         RTTY         525/2001         FE         POLARQ         25/06/04           NOME OF POLY         BUTY         525/2001         RTTY         525/2001         FU         ARGE3         03/05/95           NOME OF POLY         SUB POLY         RTTY         515         R         POLY         60/05           NOME OF POLY         BEN         RTTY         90/05         R         POLY         60/05
TEXERD COCCERNENA SUB HERRINA STITY SIE E H PACTUR STUGE/95 TEXER COCCERNE BH RITY SIE E R PACTUR SC/96/95	NU281 X0 #F CAVENNE         CAVE RELIG         RTTY         S28 2000 F         PW         ARGE3         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #C CENEVA         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95	NUSH XI H CAVENNE         GUE PPUIL         RTTY         \$25,225/F         Av         ARGE3         D355/55           NUSH XI H CAVENNE         SUR HERRIGA         RTTY         \$16         R         Pactor         10,05/95           NUSH XI H CAVENNE         SUR HERRIGA         RTTY         \$16         R         Pactor         10,05/95           NUSH XI H CAVENNE         SUR HERRIGA         RTTY         \$16         R         Pactor         10,05/95           NUSH XI H CAVENNE         BH         RTTY         \$16         R         Pactor         10,05/95	VILDES XO AF CAVENINE GOVE BELLE RETTY SZE ZESSEF FAW ARGES BLACES/95 NEZES KORC GENEVIA SUB HERRIAL RETTY BEE B RE PACTOR 20166/95 NEZES KORC PALE BEH RETTY BOT B RE PACTOR 20166/95	VILDES XO AF CAVENINE GOVE BELLE RETTY SZE ZESSEF FAW ARGES BLACES/95 NEZES KORC GENEVIA SUB HERRIAL RETTY BEE B RE PACTOR 20166/95 NEZES KORC PALE BEH RETTY BOT B RE PACTOR 20166/95	NU2R         XV #         QUE REUX         RTTY         S2E 280/F         PW         APQ/E3         D3/55/55           T02E1 R0 K7C GENEVA         S38 HERRIA         RTTY         S16         R         PACTUR         R10/676           T02E3 R0 K7C GENEVA         S38 HERRIA         RTTY         S16         R         PACTUR         R10/676           T02E3 R0 K7C FALL         RH         RTTY         RGF         R         PACTOR         R0/676	NU2R         XV #         QUE REUX         RTTY         S2E 280/F         PW         APQ/E3         D3/55/55           T02E1 R0 K7C GENEVA         S38 HERRIA         RTTY         S16         R         PACTUR         R10/676           T02E3 R0 K7C GENEVA         S38 HERRIA         RTTY         S16         R         PACTUR         R10/676           T02E3 R0 K7C FALL         RH         RTTY         RGF         R         PACTOR         R0/676	NUSH XO H CAVENNE         GUP REFUG         RTTY         S28 200 F         Part ARGE3         D355/95           NUSH XO H CAVENNE         GUP REFUG         RTTY         S28 200 F         Part ARGE3         D355/95           NUSH XO HC CAVENNE         SUR HERAL         RTTY         S16         R         Part (R         20.06/95           NUSH XO HC CAVE         RH         RTTY         S16         R         Part (R         20.06/95	VILDES XO AF CAVENINE GOVE BELLE RETTY SZE ZESSEF FAW ARGES BLACES/95 NEZES KORC GENEVIA SUB HERRIAL RETTY BEE B RE PACTOR 20166/95 NEZES KORC PALE BEH RETTY BOT B RE PACTOR 20166/95	NUSH X/H CAVENNE         GUF RFULL         RTTY         \$25,225,67         Av         ARGE3         D355/95           NUSH X/H CAVENNE         GUF RFULL         RTTY         \$25,225,67         Av         ARGE3         0345/95           NUSH X/H CAVENNE         SUR HERBALL         RTTY         \$16         R         Pactor         81,06/95           NUSH X/H CAVE SHALL         RTY         \$16         R         Pactor         81,06/95           NUSH X/H CAVE SHALL         RTY         \$16         R         Pactor         81,06/95	10281.00         POL END SPUSSELS         BEL         RTTY         1422 2269         FE         POL ARQ         25/06/94           10281.00         POL END SPUSSELS         BEL         RTTY         1422 2269         FE         POL ARQ         25/06/94           10281.00         PLY DATES NO.         RTTY         525 2250 F         Pol ARQ         25/06/94           10281.00         RTCRC GENEVA         SUR HERRIGA         RTTY         316         R         POL COR         25/06/95           10283.00         RTRC FILE         ENH         RTTY         957         E         R         POL COR         10/05/95
TEXERD COCCERNENA SUB HERRINA STITY SIE E H PACTUR STUGE/95 TEXER COCCERNE BH RITY SIE E R PACTUR SC/96/95	NU281 X0 #F CAVENNE         CAVE RELIG         RTTY         S28 2000 F         PW         ARGE3         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #C CENEVA         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95	NUSH XI H CAVENNE         GUE PPUIL         RTTY         S25 225/F         Av         ARGE3         D355/55           NUSH XI H CAVENNE         S28 HERRAL         RTTY         S16         R         PactoR         210,65/55           NUSH XI H CAVENNE         S28 HERRAL         RTTY         S16         R         PactoR         210,65/55           NUSH XI H CAVENNE         S28 HERRAL         RTTY         S16         R         PactoR         210,65/55           NUSH XI H CAVENNE         BH         RTTY         S16         R         PactoR         10,66/55	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERAL         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERAL         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	NU2R X0 #F CAVENNE         GUF REUX         RTTY         S2E 280 F         PW         ARGE3         03/05/95           NU2R X0 #F CAVENNE         GUF REUX         RTTY         S2E 280 F         PW         ARGE3         03/05/95           NU2R X0 #F CAVENNE         S3R HERRINE         RTTY         S1E         R         PMCTOR         01/05/95           NU2R X0 #C CAVENNE         RH         RTTY         S1E         R         PMCTOR         02/05/95	NU2R X0 #F CAVENNE         GUF REUX         RTTY         S2E 280 F         PW         ARGE3         03/05/95           NU2R X0 #F CAVENNE         GUF REUX         RTTY         S2E 280 F         PW         ARGE3         03/05/95           NU2R X0 #F CAVENNE         S3R HERRINE         RTTY         S1E         R         PMCTOR         01/05/95           NU2R X0 #C CAVENNE         RH         RTTY         S1E         R         PMCTOR         02/05/95	NUSH X0 H CAVENNE         GUP RPUIL         RTTY         \$25,220,67         Av         ARGE3         03/05/95           NUSH X0 H CAVENNE         GUP RPUIL         RTTY         \$25,220,67         Av         ARGE3         03/05/95           NUSH X0 H CAVENNE         SUR HERAUL         RTTY         \$16         R         Pactor         10/05/95           NUSH X0 H CAVENNE         BH         RTTY         \$16         R         Pactor         10/05/95	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERAL         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	NUSH X/H CAVENNE         GUE FEQUE         RTTY         S25 225/F         Av         ARGE3         D355/55           NUSH X/H CAVENNE         GUE FEQUE         RTTY         S25 225/F         Av         ARGE3         D355/55           NUSH X/H CAVENNE         S28 HERBAR         RTTY         S16         R         Pactor         201/65/55           NUSH X/H CAVE GENEVA         S28 HERBAR         RTTY         S16         R         Pactor         201/65/55           NUSH X/H CAVE FILE         RH         RTTY         S07         R         R         Pactor         10/66/55	10281.00         POL END SERVICESELS         BEL         RTTY         1422 2563         FE         POL ARQ         25/06/94           10281.00         POL END SERVICE         RDF REUG         RTTY         525 2500 F         Pol ARQ         25/06/94           10281.00         RT DATESMILE         RDF REUG         RTTY         525 2500 F         Pol ARQ         25/06/94           10281.00         RTTY         S25 2500 F         Pol ARQ         25/06/95         10/05/95           10283.00         RTRC SERVICE         S10         HERRIGAL         RTTY         957         E         R         PACTOR         10/05/95
TEXERD COCCERNENA SUB HERRINA STITY SIE E H PACTUR STUGE/95 TEXER COCCERNE BH RITY SIE E R PACTUR SC/96/95	NU281 X0 #F CAVENNE         CAVE RELIG         RTTY         S28 2000 F         PW         ARGE3         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #C CENEVA         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95	NUSH XI H CAVENNE         GUE PPUIL         RTTY         S25 225/F         Av         ARGE3         D355/55           NUSH XI H CAVENNE         S28 HERRAL         RTTY         S16         R         PactoR         210,65/55           NUSH XI H CAVENNE         S28 HERRAL         RTTY         S16         R         PactoR         210,65/55           NUSH XI H CAVENNE         S28 HERRAL         RTTY         S16         R         PactoR         210,65/55           NUSH XI H CAVENNE         BH         RTTY         S16         R         PactoR         10,66/55	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERINA         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERINA         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 280/F         PW         ARGE3         03/05/95           NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 280/F         PW         ARGE3         03/05/95           NU2B         XV #C CENEVA         S3A HEREVAL         RTTY         S1E         R         PACTOR         02/06/95           NU2B         RM         RTTY         RGF         R         R         PACTOR         02/06/95	NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 280/F         PW         ARGE3         03/05/95           NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 280/F         PW         ARGE3         03/05/95           NU2B         XV #C CENEVA         S3A HEREVAL         RTTY         S1E         R         PACTOR         02/06/95           NU2B         RM         RTTY         RGF         R         R         PACTOR         02/06/95	NUSH X0 H CAVENNE         GUP RPUIL         RTTY         \$25,220,67         Av         ARGE3         03/05/95           NUSH X0 H CAVENNE         GUP RPUIL         RTTY         \$25,220,67         Av         ARGE3         03/05/95           NUSH X0 H CAVENNE         SUR HERAUL         RTTY         \$16         R         Pactor         10/05/95           NUSH X0 H CAVENNE         BH         RTTY         \$16         R         Pactor         10/05/95	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERINA         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	NUSH X/H CAVENNE         GUE FEQUE         RTTY         S25 225/F         Av         ARGE3         D355/55           NUSH X/H CAVENNE         GUE FEQUE         RTTY         S25 225/F         Av         ARGE3         D355/55           NUSH X/H CAVENNE         S28 HERBAR         RTTY         S16         R         Pactor         201/65/55           NUSH X/H CAVE GENEVA         S28 HERBAR         RTTY         S16         R         Pactor         201/65/55           NUSH X/H CAVE FILE         RH         RTTY         S07         R         R         Pactor         10/66/55	10281.00         POL END SERVICESELS         BEL         RTTY         1422 2563         FE         POL ARQ         25/06/94           10281.00         POL END SERVICE         RDF REUG         RTTY         525 2500 F         Pol ARQ         25/06/94           10281.00         RT DATESMILE         RDF REUG         RTTY         525 2500 F         Pol ARQ         25/06/94           10281.00         RTTY         S25 2500 F         Pol ARQ         25/06/95         10/05/95           10283.00         RTRC SERVICE         S10         HERRIGAL         RTTY         957         E         R         PACTOR         10/05/95
10283 00 KPC GENEVA         503         HEIB204         HTTY         HEIB         H         HL06/95           10283 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95           10283 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95           10203 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95	NUSR X0 #F CAVENNE         CAVE PRILL         RTTY         S28 200 F         Av         ARGE3         D105595           NUSR X0 #F CAVENNE         SUB HERRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C SENEVAL         SUB HERRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785	NUSH X0 #F CAVENNE         CUF REUG         RTTY         S2E 2800 F         Fw/         ARGE3         D1055%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         RACTOR         D1065%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         RACTOR         D1065%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         PACTOR         D1065%           10283 X0 RC CENEVA         EH         RTTY         S07         R         R         PACTOR         D06676           10283 X0 RC CENEVAL         EH         RTTY         S07         R         R         PACTOR         D06676           10283 X0 RC CENEVAL         EH         RTTY         S07         R         R         PACTOR         D06676           10203 X0 RC CENEVAL         EH         RTTY         S06         R         PACTOR         D066765	NU251 XX IF CAVENNE         GUF PRUS         RTTY         S25 2350 F         FW         ARGE3         01055%           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95	NU251 XX IF CAVENNE         GUF PRUS         RTTY         S25 2350 F         FW         ARGE3         01055%           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95	NUMB         DUF         PAUL         RTTY         S25 200 F         PAU         ARGE3         D105595           NUMB         DUF         PRUL         RTTY         S25 200 F         PAU         ARGE3         D105595           NUMB         DUF         PRUL         RTTY         S16         R         PAUSIA         D105595           NUMB         DUF         RTTY         S16         R         PAUSIA         D105695           NUMB         RTTY         BUF         R         PAUSIA         D105695           NUMB         RTTY         BUF         R         PAUSIA         D105695           NUMB         RTTY         REF         R         PAUSIA         D105695           NUMB         RTTY         REF         R         PAUSIA         D105695	NUMB         DUF         PAUL         RTTY         S25 200 F         PAU         ARGE3         D105595           NUMB         DUF         PRUL         RTTY         S25 200 F         PAU         ARGE3         D105595           NUMB         DUF         PRUL         RTTY         S16         R         PAUSIA         D105595           NUMB         DUF         RTTY         S16         R         PAUSIA         D105695           NUMB         RTTY         BUF         R         PAUSIA         D105695           NUMB         RTTY         BUF         R         PAUSIA         D105695           NUMB         RTTY         REF         R         PAUSIA         D105695           NUMB         RTTY         REF         R         PAUSIA         D105695	NUSS         MILES         GUE PRUS         RTTY         S25/200/F         FW         ARGE3         D105/56           NUSS         MILES	NU251 XX IF CAVENNE         GUF PRUS         RTTY         S25 2350 F         FW         ARGE3         01055%           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95	NUSH X/H (AVENNE         GUE PEUX         RTTY         S25/200/F         FW         ARGE3         D105/56           10251 X/H (AVENNE         GUE PEUX         RTTY         S25/200/F         FW         ARGE3         D105/56           10251 X/H (AVENNE         SUB HEB244         RTTY         S16         R         PACTOR         X106/56           10253 X/H (AVENNE         EH         RTTY         REF         R         PACTOR         X106/56           10251 X/H (AVENNE)         EH         RTTY         REF         R         PACTOR         X106/56           10251 X/H (AVENNE)         EH         RTTY         REF         R         PACTOR         X106/56           10251 X/H (AVENNE)         EH         RTTY         REF         R         PACTOR         X106/56	10281.00         POL FIND BRUSSELS         BEL         RTTY         1422.2564         FE         POL ARD         25/06/94           10281.00         POL FIND BRUSSELS         BEL         RTTY         1422.2564         FW         ARDE3         03/05/95           10281.00         PECENEVA         SUR HER24L         RTTY         S25.255/F         FW         ARDE3         03/05/95           10283.00         POLES         SUR HER24L         RTTY         S16         R         PACTOR         03/05/95           10283.00         FREE         FM         RTTY         REF         R         PACTOR         02/05/95           10283.00         FREE         FM         RTTY         REF         R         PACTOR         02/05/95           10283.00         FREE         FM         RTTY         REF         R         PACTOR         02/05/95           10203.00         FREE         FM         RTTY         REF         R         PACTOR         02/05/95
10283 00 KPC GENEVA         503         HEIB204         HTTY         HEIB         H         HL06/95           10283 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95           10283 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95           10203 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95	NUSR X0 #F CAVENNE         CAVE PRILL         RTTY         S28 200 F         Av         ARGE3         D105595           NUSR X0 #F CAVENNE         SUB HERRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C SENEVAL         SUB HERRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785	NUSH X0 #F CAVENNE         CUF REUG         RTTY         S2E 2800 F         Fw/         ARGE3         D1055%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         RACTOR         D1065%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         RACTOR         D1065%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         PACTOR         D1065%           10283 X0 RC CENEVA         EH         RTTY         S07         R         R         PACTOR         D06676           10283 X0 RC CENEVAL         EH         RTTY         S07         R         R         PACTOR         D06676           10283 X0 RC CENEVAL         EH         RTTY         S07         R         R         PACTOR         D06676           10203 X0 RC CENEVAL         EH         RTTY         S06         R         PACTOR         D066765	NU251 XX IF CAVENNE         GUF PRUS         RTTY         S25 2350 F         FW         ARGE3         01055%           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95	NU251 XX IF CAVENNE         GUF PRUS         RTTY         S25 2350 F         FW         ARGE3         01055%           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95	NUMB         DUF         PAUL         RTTY         S25 200 F         PAU         ARGE3         D105595           NUMB         DUF         PRUL         RTTY         S25 200 F         PAU         ARGE3         D105595           NUMB         DUF         PRUL         RTTY         S16         R         PAUSIA         D105595           NUMB         DUF         RTTY         S16         R         PAUSIA         D105695           NUMB         RTTY         BUF         R         PAUSIA         D105695           NUMB         RTTY         BUF         R         PAUSIA         D105695           NUMB         RTTY         REF         R         PAUSIA         D105695           NUMB         RTTY         REF         R         PAUSIA         D105695	NUMB         DUF         PAUL         RTTY         S25 200 F         PAU         ARGE3         D105595           NUMB         DUF         PRUL         RTTY         S25 200 F         PAU         ARGE3         D105595           NUMB         DUF         PRUL         RTTY         S16         R         PAUSIA         D105595           NUMB         DUF         RTTY         S16         R         PAUSIA         D105695           NUMB         RTTY         BUF         R         PAUSIA         D105695           NUMB         RTTY         BUF         R         PAUSIA         D105695           NUMB         RTTY         REF         R         PAUSIA         D105695           NUMB         RTTY         REF         R         PAUSIA         D105695	NUSS         MILES         GUE PRUS         RTTY         S25/200/F         FW         ARGE3         D105/56           NUSS         MILES	NU251 XX IF CAVENNE         GUF PRUS         RTTY         S25 2350 F         FW         ARGE3         01055%           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         GUF PRUS         RTTY         S16         R         PACTOR         0106-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95           NU251 XX IF CAVENNE         EIH         RTTY         BIF         R         PACTOR         0006-95	NUSH X/H (AVENNE         GUE PEUX         RTTY         S25/200/F         FW         ARGE3         D105/56           10251 X/H (AVENNE         GUE PEUX         RTTY         S25/200/F         FW         ARGE3         D105/56           10251 X/H (AVENNE         SUB HEB244         RTTY         S16         R         PACTOR         X106/56           10253 X/H (AVENNE         EH         RTTY         REF         R         PACTOR         X106/56           10251 X/H (AVENNE)         EH         RTTY         REF         R         PACTOR         X106/56           10251 X/H (AVENNE)         EH         RTTY         REF         R         PACTOR         X106/56	10201.00         POLARD         SEL         RTTY         1422.256         FE         POLARD         SUBCR4           10201.00         POLARD         SUF PPLID         RTTY         S25.255/F         Pol         ARDE3         D345/95           10201.00         PCCENEVA         SUF PPLID         RTTY         S25.255/F         Pol         ARDE3         D345/95           10201.00         PCCENEVA         SUF PPLID         RTTY         S16         R         PACTOR         D345/95           10203.00         PCCENEVA         SUF PPLID         RTTY         S16         R         PACTOR         D345/95           10203.00         PCLAR         SUF PPLID         RTTY         S16         R         PACTOR         D345/95           10203.00         PLE         RH         RTTY         S16         R         PACTOR         D346/95           10203.00         PLE         RH         RTTY         S16         R         PACTOR         D346/95           10203.00         PLE         RH         RTTY         S16         R         PACTOR         D346/95
10283 00 KPC GENEVA         503         HEIB204         HTTY         HEIB         H         HL06/95           10283 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95           10283 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95           10203 00 KPC FRUE         RH         RTTY         RG*         R         PACTOR         02/05/95	NUSR X0 #F CAVENNE         CAVE PRILL         RTTY         S28 200 F         Av         ARGE3         D105595           NUSR X0 #F CAVENNE         SUB HERRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C SENEVAL         SUB HERRING         RTTY         S16         R         PACTOR         D106595           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785           NUSR X0 #C FRUE         RH         RTTY         REF         R         PACTOR         D006785	NUSH X0 #F CAVENNE         CUF REUG         RTTY         S2E 2800 F         Fw/         ARGE3         D1055%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         RACTOR         D1065%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         RACTOR         D1065%           10283 X0 RC CENEVA         SUR HERRIAL         RTTY         S16         R         PACTOR         D1065%           10283 X0 RC CENEVA         EH         RTTY         S07         R         R         PACTOR         D06676           10283 X0 RC CENEVAL         EH         RTTY         S07         R         R         PACTOR         D06676           10283 X0 RC CENEVAL         EH         RTTY         S07         R         R         PACTOR         D06676           10203 X0 RC CENEVAL         EH         RTTY         S06         R         PACTOR         D066765	NU251 XX IF CAVENNE         GUF PRUG         RTTY         S25 230 F         PA/         ARGE3         B1055%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%	NU251 XX IF CAVENNE         GUF PRUG         RTTY         S25 230 F         PA/         ARGE3         B1055%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%	NUMB         DUF         PRUS         RTTY         S28 200 F         PA/         ARGE3         D105595           NUMB         DUF         PRUS         RTTY         S28 200 F         PA/         ARGE3         D105595           NUMB         DUF         PRUS         SUB         HERRIG         RTTY         S26         R         PA/CTOR         D105695           NUMB         PRUS         RTTY         REF         R         PA/CTOR         D00695           NUMB         PRUS         RTTY         REF         R         PA/CTOR         D00695           NUMB         PRUS         RTTY         REF         R         PA/CTOR         D00695	NUSH X0 #F CoveNME         COVENNE         COVENNE         COVENNE         RTTY         S28 200 F         Av         ARGE3         D105595           NUSH X0 #F CoveNME         SUB HERRIA         RTTY         S16         R         PACTOR         D10695           NUSH X0 RC FALL         RH         RTTY         REF         R         PACTOR         D006765           NUSH X0 RC FALL         RH         RTTY         REF         R         PACTOR         D006765           NUSH X0 RC FALL         RH         RTTY         REF         R         PACTOR         D006765           NUSH X0 RC FALL         RH         RTTY         REF         R         PACTOR         D006765	NUSS         XI IF CAVENNE         GUE PEUL         RTTY         S25 200 F         Av         ARGE3         B1055%           NUSS         XI IF CAVENNE         GUE PEUL         RTTY         S25 200 F         Av         ARGE3         B1055%           NUSS         XI IF CAVENNE         SUB HEBRING         RTTY         S16         R         PACTOR         R106765           NUSS         BLICK FRUE         EH         RTTY         BIF         R         PACTOR         R06765           NUSS         BLICK FRUE         EH         RTTY         BIF         R         PACTOR         R06765           NUSS         BLICK FRUE         EH         RTTY         BIF         R         PACTOR         R06765	NU251 XX IF CAVENNE         GUF PRUG         RTTY         S25 230 F         PA/         ARGE3         B1055%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         GUF PRUG         RTTY         S16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B16         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%           NU251 XX IF CAVENNE         EIH         RTTY         B17         R         PA/CER         B1065%	NUSH X/H (AVENNE         GUE PEUL         RTTY         S25/200/F         FW         ARGE3         B105/56           10253 X0/RC GENEVA         508 HERAL         RTTY         316         R         PACTOR         01/65/56           10253 X0/RC GENEVA         508 HERAL         RTTY         316         R         PACTOR         01/65/36           10253 X0/RC FRLE         EH         RTTY         807         R         PACTOR         02/67/36           10253 X0/RC FRLE         EH         RTTY         807         R         PACTOR         02/67/36           10211 X0 RECERFENENCY         EH         RTTY         RE         E         R         PACTOR         01/05/25	10201.00         POLARD         SEL         RTTY         1422.256         FE         POLARD         SUBCR4           10201.00         POLARD         SUF PPLID         RTTY         S25.255/F         FW         ARDE3         D345/95           10201.00         PCCENEVA         SUF PPLID         RTTY         S25.255/F         FW         ARDE3         D345/95           10201.00         PCCENEVA         SUF PPLID         RTTY         S25.255/F         FW         ARDE3         D345/95           10201.00         PCCENEVA         SUF PPLID         RTTY         S16         R         PACTOR         D345/95           10203.00         PLA         S17         S16         R         PACTOR         D345/95           10203.00         PLA         S17         S16         R         PACTOR         D346/95           10203.00         PLA         S17         S16         R         PACTOR         D346/95           10203.00         PLA         S17         S16         R         PACTOR         D346/95
TEXERD COCCERNENA SUB HERRINA STITY SIE E H PACTUR STUGE/95 TEXER COCCERNE BH RITY SIE E R PACTUR SC/96/95	NU281 X0 #F CAVENNE         CAVE RELIG         RTTY         S28 2000 F         PW         ARGE3         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #F CAVENNE         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95           T0283 X0 #C CENEVA         S38 HERRIG         RTTY         S16         R         PACTURE         03/05/95	NUSH XI H CAVENNE         GUE PPUIL         RTTY         S25 225/F         Av         ARGE3         D355/55           NUSH XI H CAVENNE         S28 HERRAL         RTTY         S16         R         PactoR         210,65/55           NUSH XI H CAVENNE         S28 HERRAL         RTTY         S16         R         PactoR         210,65/55           NUSH XI H CAVENNE         S28 HERRAL         RTTY         S16         R         PactoR         210,65/55           NUSH XI H CAVENNE         BH         RTTY         S16         R         PactoR         10,66/55	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERINA         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERINA         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 280/F         PW         ARGE3         03/05/95           NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 280/F         PW         ARGE3         03/05/95           NU2B         XV #C CENEVA         S3A HEREVAL         RTTY         S1E         R         PACTOR         02/06/95           NU2B         RM         RTTY         RGF         R         R         PACTOR         02/06/95	NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 280/F         PW         ARGE3         03/05/95           NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 280/F         PW         ARGE3         03/05/95           NU2B         XV #C CENEVA         S3A HEREVAL         RTTY         S1E         R         PACTOR         02/06/95           NU2B         RM         RTTY         RGF         R         R         PACTOR         02/06/95	NUSH X0 H CAVENNE         GUP RPUIL         RTTY         \$25,220,67         Av         ARGE3         03/05/95           NUSH X0 H CAVENNE         GUP RPUIL         RTTY         \$25,220,67         Av         ARGE3         03/05/95           NUSH X0 H CAVENNE         SUR HERAUL         RTTY         \$16         R         Pactor         10/05/95           NUSH X0 H CAVENNE         BH         RTTY         \$16         R         Pactor         10/05/95	VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         D355/95           VILDE: XX IF CAVENNE         GUP BPUIL         RTTY         528 200 F         PW         ARGE3         03/05/95           VILDE: XX IF CAVENNE         SUR HERINA         RTTY         SUE         R         PACTOR         03/05/95           VILDE: XX IF CAVENNE         BH         RTTY         SUE         R         PACTOR         02/06/95	NUSH X/H CAVENNE         GUE FEQUE         RTTY         S25 225/F         Av         ARGE3         D355/55           NUSH X/H CAVENNE         GUE FEQUE         RTTY         S25 225/F         Av         ARGE3         D355/55           NUSH X/H CAVENNE         S28 HERBAR         RTTY         S16         R         Pactor         201/65/55           NUSH X/H CAVE GENEVA         S28 HERBAR         RTTY         S16         R         Pactor         201/65/55           NUSH X/H CAVE FILE         RH         RTTY         S07         R         R         Pactor         10/66/55	10281.00         POL END SERVICESELS         BEL         RTTY         1422 2563         FE         POL ARQ         25/06/94           10281.00         POL END SERVICE         RDF REUG         RTTY         525 2500 F         Pol ARQ         25/06/94           10281.00         RT DATESMILE         RDF REUG         RTTY         525 2500 F         Pol ARQ         25/06/94           10281.00         RTTY         S25 2500 F         Pol ARQ         25/06/95         10/05/95           10283.00         RTRC SERVICE         BEH         RTTY         957         R         Pol ARQ         25/06/95
TEXEND CRECEENEVA SUB HERRIA RITTY BIE E R PACTUR RUGE/95 TEXEND CRECEALE BH RITTY BIE E R PACTUR RUGE/95	NUSH X0 #F CAVENNE         COF BEUR         RTTY         S2E 280 F         Per         ARGE3         03/05/95           TO2ED REVICE CENEVA         S38 HERRIAL         RTTY         S16         R         PACTOR         03/05/95           TO2ED REVICE CENEVA         S38 HERRIAL         RTTY         S16         R         PACTOR         03/05/95           TO2ED REVICE CENEVA         S38 HERRIAL         RTTY         S16         R         PACTOR         03/05/95	NU251 XX H CAVENNE         GUE FEQUE         RTTY         S25 2250/F         FW         ARGE3         03/05/95           NU251 XX HE CAVENNE         S28 HERRIG         RTTY         S16         H         RU251/R         01/05/95           NU251 XX RC GENEVA         S28 HERRIG         RTTY         S16         H         RU251/R         01/05/95           NU251 XX RC GENEVA         S28 HERRIG         RTTY         S16         H         RU251/R         01/05/95           NU253 XX RC FILE         RH         RTTY         957         E         H         PACTOR         02/05/95	NU281 X0 IF CAVENNE         GUF REUL         RTTY         \$25 2350 F         FW         ARGE3         03/05/95           NU281 X0 IF CAVENNE         GUF REUL         RTTY         \$25 2350 F         FW         ARGE3         03/05/95           NU281 X0 IF CAVENNE         SUR HERAL         RTTY         \$16         R         RUCIER         01/05/95           NU283 INUCRC PALE         RH         RTTY         \$007         R         R         PACTOR         02/06/95	NU281 X0 IF CAVENNE         GUF REUL         RTTY         \$25 2350 F         FW         ARGE3         03/05/95           NU281 X0 IF CAVENNE         GUF REUL         RTTY         \$25 2350 F         FW         ARGE3         03/05/95           NU281 X0 IF CAVENNE         SUR HERAL         RTTY         \$16         R         RUCIER         01/05/95           NU283 INUCRC PALE         RH         RTTY         \$007         R         R         PACTOR         02/06/95	NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 200 F         FW         ARGE3         03/05/95           NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 200 F         FW         ARGE3         03/05/95           NU2B         XV #C CENEVA         S3A HERRIAL         RTTY         S1E         R         PACTOR         02/06/95           NU2B         RH         RTTY         RGF         R         RADE3         03/05/95	NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 200 F         FW         ARGE3         03/05/95           NU2B         XV #F CAVENNE         GUF BFUIL         RTTY         S2E 200 F         FW         ARGE3         03/05/95           NU2B         XV #C CENEVA         S3A HERRIAL         RTTY         S1E         R         PACTOR         02/06/95           NU2B         RH         RTTY         RGF         R         RADE3         03/05/95	NU251 X0 H CAVENNE         GUF RFUIL         RTTY         \$25 2250 F         Av         ARGE3         03/05/95           NU251 X0 AF CAVENNE         GUF RFUIL         RTTY         \$25 2250 F         Av         ARGE3         03/05/95           NU251 X0 AF CAVENNE         SUR HERBAUL         RTTY         \$16         R         RU251/A         71.06/95           NU253 X0 AF CAVE         BH         RTTY         \$16         R         PACTOR         10/06/95	NU281 X0 IF CAVENNE         GUF REUL         RTTY         \$25 2350 F         FW         ARGE3         03/05/95           NU281 X0 IF CAVENNE         GUF REUL         RTTY         \$25 2350 F         FW         ARGE3         03/05/95           NU281 X0 IF CAVENNE         SUR HERAL         RTTY         \$16         R         RUCIER         01/05/95           NU283 INUCRC PALE         RH         RTTY         \$007         R         R         PACTOR         02/06/95	NU251 XX H CAVENNE         GUE FEQUE         RTTY         S25 2250/F         FW         ARGE3         03/05/95           NU251 XX HE CAVENNE         S28 HERRIG         RTTY         S16         H         RU251/R         01/05/95           NU251 XX RC GENEVA         S28 HERRIG         RTTY         S16         H         RU251/R         01/05/95           NU251 XX RC GENEVA         S28 HERRIG         RTTY         S16         H         RU251/R         01/05/95           NU253 XX RC FILE         RH         RTTY         957         E         H         PACTOR         02/05/95	NOME OF POLY END DEFUS         DEL         RTTY         1432/2001         PE         POL ARD         25/06/94           NOME OF POLY END DEFUS         REL         RTTY         525/2001/F         PW         ARG E3         03/05/95           NOME OF POLY END DEFUS         RTTY         525/2001/F         PW         ARG E3         03/05/95           NOME OF POLY END DEFUS         RTTY         515         R         PL ARG         03/05/95           NOME OF POLY END DEFUS         RTTY         515         R         PL ARG E3         03/05/95           NOME OF POLY END DEFUS         RTTY         515         R         PL ARG E3         03/05/95           NOME OF POLY END DEFUS         RTTY         515         R         PL ARG E3         03/05/95           NOME OF POLY END DEFUS         RTTY         515         R         PL ARG E3         03/05/95
	TUDEN XN FF CAVENNE OUF PIFUR PITTY S25 2100 F PW APROES ISSUES 95	YOSH XI AF CAVENNE CUF PEUL RITY 528 280 F PW ARGES 1345595	YOSH XO FF CAYENNE CONFIRENCE PATTY S28 200 F PW ARGES ISSUESSE	YOSH XO FF CAYENNE CONFIRENCE PATTY S28 200 F PW ARGES ISSUESSE	TUDE XI FF CAVENNE GUF PFULL PITTY 525 200 F PW ARGES 10305/96	TUDE XI FF CAVENNE GUF PFULL PITTY 525 200 F PW ARGES 10305/96	YOSH XI AF CAVENNE CUF PEUL RITY 528 280 F PW ARGES 1345595	YOSH XO FF CAYENNE CONFIRENCE PATTY S28 200 F PW ARGES ISSUESSE	YOSH XI AF CAVENNE CUF PEUL RITY 528 280 F PW ARGES 1345595	10201.00 POLEMB BRUSSELS BEL RETY 1432 280 FE POLARD 25/06/04 10291 X0 FF CRYENNE GUF REUG RETY \$25 280/F FW ARGE3 83/65/96
TUDE XI AF CAVENNE QUE REFUL RETTY \$25,250/F FW ARGES 103/05/95	A CONTRACT OF A				A CONTRACT OF A	A CONTRACT OF A				10201.00 POLEMB BRUSSELS BEL RTTY 1432.200 FE POLARO 25/06/94
TUDE XI AF CAVENNE QUE RELIG RETAY \$28,2500 F FW ARGES 10345595					A CONTRACT OF A	A CONTRACT OF A				10201.00 P2LEMB BPUSSELS BEL RTTY 1432.289 FE POLARO 25/06/94
	TUDER XE AF CAVENNE OUF PIFUR PITTY S28,2100 F PW ARGES IDJUSSES	NOSH XI HE CRYENNE CRYENE RETY S28 200 F PW ARGES 10305495	TIOSE XO FF CRYENNE GUF PEUL PITTY 525 200 F PW ARGES 0340545	TIOSE XO FF CRYENNE GUF PEUL PITTY 525 200 F PW ARGES 0340545	TUDB XI FF CAVENNE OUF PFULL PITTY 525 200 F PW ARGES 034545	TUDB XI FF CAVENNE OUF PFULL PITTY 525 200 F PW ARGES 034545	NOSH XI AF CAVENNE COUF PEUL ATTY 528 200 F PW ARGES 03405495	TIOSE XO FF CRYENNE GUF PEUL PITTY 525 200 F PW ARGES 0340545	NOSH XI HE CRYENNE CRYENE RETY S28 200 F PW ARGES 10305495	10201.00 PCK EMB BIRUSSELS BEL RETY 1432 280 FE POLARO 25/06/04 10201 XI FE CAVENNE GUE PRUG RETY 525 280/F FW ARGE3 03/05/95
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### 2.0 SWR 1.7 1.2 2.0 1.1

This is pretty close to the 2.1 SWR "nominal maximum" promised by Tennadyne on the T5 data sheet. Depending on the type and length of your coax cable, the SWR in your shack probably will be a little lower due to cable loss. I personally prefer to use 9913 coax. It has half the loss of RG-213, is lighter, is easier to solder connectors to, and only costs a nickel or so a foot more than RG-213 (with some careful looking through the CQ ads). In my installation I have about 100 feet of 9913, which is essentially lossless below 10 meters. In all cases I could obtain full output with both an FT-990 and IC-706 without the need for an antenna tuner.

For those perfectionists who demand a perfect match at their transmitter, these SWRs are easily within the matching range of the internal tuners built into most rigs today. However, if your transmitter puts out full power without the tuner, there is no need to use the tuner. The SWR varied over the total frequency range as shown in Table II. The maximum SWR never exceeded 2.1:1.

Next I measured the front-to-back and frontto-side ratios with the help of K5HW, whose station is about 1/2 mile from mine. While K5HW transmitted a 5 watt carrier, I rotated the T5 and took S-meter readings. These obviously are far from precision readings, as they were taken on a standard S-meter (FT-990). I have no idea how accurate and "logarithmically linear" the Smeter is, nor do I know how well the S-meter accuracy tracks from band to band. I also "eye-

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SWR	2.1	1.1	2.1	1.1	2.1	1.1	1.7	1.6	1.7	1.1

Table II- SWR varied over the total frequency range as shown here. The maximum SWR never exceeded 2.1:1.

balled" the S-meter to try to interpolate between marks on the meter.

Finally, while I can see K5HW's antenna directly from my antenna, there is a significant amount of ground clutter (such as houses, power lines, etc.) all around us, which also can cause incorrect readings due to reflections. You really need a decent antenna range and a calibrated receiver to measure these parameters accurately. As you can see, though, the T5 certainly does act like a directional antenna!

	20m	17m	15m	12m	10m
F/B (dB)	15	12	14	17	15
F/S (dB)	20	27	32	33	35

I couldn't really measure gain, as I would need a reference dipole on each band. However, Tennadyne has their own antenna range complete with reference dipoles, and I have no reason to disbelieve their 4.5 dBd numbers.

## Improvements

I have a few minor criticisms of the T5. First, I believe that Tennadyne should drill the holes necessary to couple the boom sections together. This wasn't that big a deal; however, all the other holes were drilled. Second, the boom holes for the elements are pretty much a friction fit. I had to use a round file to slightly enlarge two of the holes on one boom section before I could insert the associated two elements. Again not a big deal, as this only took me a minute or so (the holes were almost big enough). Finally, one of the illustrations in the

instructions for my T5 showed a shorting element at the rear of the LP. However, no shorting stub was provided, and it was not covered in the written instruction steps. Tennadyne says this shorting stub is not really necessary on the T5, but they will be providing it in the future. This just caused a little confusion on my part. I did make a shorting stub per verbal instructions from Tennadyne.

## Conclusion

I've spent many hours actually using the T5. I am extremely pleased with the antenna. It works at least as well as a commercial triband three-element beam and a 17/12 meter rotatable trap dipole I previously had in the same location. Plus, I also now have an antenna with gain and F/B on 17 and 12 meters-and all with a single coax feed! Of course, this is highly subjective and involves operation at different times with different stations.

Finally, the T5 is much less obtrusive than a trapped Yagi due to the smaller diameter elements of the T5 (no need for large elements to support traps). And even though the rear element is much longer than a triband beam (38 feet versus 26 feet), the front element is much shorter. The T5 looks more like an oversized TV antenna than anything else. The first thing my XYL (N5UPT) said when she saw the T5 on the roof was "That's a definite improvement!" The T5 antenna is available from Tennadyne Corporation, HCR 81, Box 347A Junction, TX 76849 (915-446-4510 Tel/Fax).

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Here is the T5 out of the box prior to actual assembly, which was pretty straightforward and went fairly quickly.

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