

OKLAHOMA GEOLOGICAL SURVEY OBSERVATORY
CATALOG OF NUCLEAR EXPLOSIONS

LAST MODIFIED 2006 OCT09. IF YOU CITE THIS CATALOG USE THIS DATE** ADDITIONS DELETIONS, AND CORRECTIONS WILL BE CONTINUING. This catalog is not published anywhere on paper.

NOTE the original gopher catalog had less than and greater than symbols
in the yield figures. In this HTML version these are changed to l and g

CATALOG OF KNOWN AND PUTATIVE NUCLEAR EXPLOSIONS FROM UNCLASSIFIED SOURCES
LAST UPDATE 2006 OCT09

Compiled by James E. Lawson Jr. (Jim), who is solely responsible for the contents.

THIS CATALOG HAS A NEARLY COMPLETE LIST OF KNOWN TESTS. THERE ARE STILL MANY TIMES, MAGNITUDES, LATITUDES, AND LONGITUDES TO BE FILLED IN. PLEASE SEND ANY ADDITIONS, DELETIONS, CORRECTIONS, SUGGESTIONS TO:
amiegibson@ou.edu. PLEASE CITE AN UNCLASSIFIED DOCUMENT WITH YOUR SUGGESTIONS.

Prior to 1998 JUN10, this catalog was only available in text form on a gopher server. The text was converted to HTML by a program named txt2html.pl written by Seth Golub. In general the conversion was good, but there are some inconsistencies in what was and was not converted to bold font.

<http://www.okgeosurvey1.gov/level2/nuke.cat.html> is the current location of this catalog.

ACKNOWLEDGEMENTS AND DISCLAIMER

JL was supported by the State of Oklahoma and ARPA. Nothing in this catalog represents an opinion of ARPA, or of any US Government agency, or of the Oklahoma Geological Survey, or of any Oklahoma Government Agency.

THIS INFORMATION IS COMPILED FROM UNCLASSIFIED WIDELY ACCEPTED SOURCES. NO INFORMATION REPRESENTS AN OFFICIAL OPINION OF THE OKLAHOMA GEOLOGICAL SURVEY. ALTHOUGH THE OGS HAS RECORDED BODY AND SURFACE WAVES FROM MANY UNDERGROUND BLASTS, NONE OF THE YIELDS GIVEN HERE WERE CALCULATED BY THE OGS.

In the headings:

LINE 1-EXISTS FOR ONLY SOME TESTS-----

COLUMNS 1-6:

DATE=date (UTC time) yymmdd, yy=year-1900, mm=month, dd=day of month

COLUMNS 8-15: Time of blast in GMT until 1971 DEC31, in UTC starting 1972 JAN 01. GMT was Greenwich Mean Time (which is not correct to use after 1971 JAN01). UTC is Universal Time Coordinated. The times are listed as hhhmmss.d, where hh=hour(0 through 23), mm=minute, ss=second, d=decisecond. Although it can't be shown in this format, many US shot times have been released to the nearest 0.001 second.

COLUMN 16 Always # on Line 1 if Line 1 exists for the test

COLUMNS 17-44 Full name of test.

COLUMNS 46-53 Depth of burial in meters below ground surface (below water level for underwater tests). If figure is negative, it represents elevation above land surface (ending in L) or above sea level ending in S).

COLUMNS 55-80 Free format comments.

LINE 2-EXISTS FOR ALL TESTS-----

COLUMNS 1-6:

DATE=date (UTC time) yymmdd, yy=year-1900, mm=month, dd=day of month

COLUMNS 8-15: Time of blast in GMT until 1971 DEC31, in UTC starting 1972 JAN 01. GMT was Greenwich Mean Time (which is not correct to use after 1971 JAN01). UTC is Universal Time Coordinated. The times are listed as hhhmmss.d, where hh=hour(0 through 23), mm=minute, ss=second, d=decisecond. Although it can't be shown in this format, many US shot times have been released to the nearest 0.001 second.

COLUMNS 17-18:

TP=Testing Party: US=United States, GB=UK, CP=USSR, FR=France, IN=India
PC=People's Republic of China
IS=Israel, but the 790922 event is only putative
PK=Pakistan
NK=North Korea

COLUMNS 19-21: Test or explosion site. Note that the UK Christmas Island site has been used for some US atmospheric tests. In exchange, the US has allowed the UK to conduct underground tests at the Nevada Test Site.

ANM= Alamogordo, New Mexico, USA (US atmospheric test)

HRJ= Hiroshima, Japan (US/warfare)

NGJ= Nagasaki, Japan (US/warfare)

BKN= Bikini (US atmospheric tests)

ENW= Enwetak (US atmospheric tests)

CNV= Central Nevada (US underground test)

NTS= Nevada Test Site, Nevada, USA (US atmospheric and underground and UK underground tests)

FMT= Farmington, New Mexico (US underground natural gas stimulation test)

MBI= Monte Bello Islands, Australia (UK atmospheric test)

EMU= Emu Field, 480 kilometers SW of Woomera, Australia (UK atmospheric tests)

PAC= Various Pacific Ocean sites

MAR= Maralinga, Australia (UK atmospheric tests)
 CHR= Christmas Island (UK and US atmospheric tests)
 NZ = Novaya Zemlya, USSR (USSR atmospheric and underground tests)
 KTS= Eastern Kazakh or Semipalitinsk test site, USSR (USSR atmospheric and underground tests)
 REG= Reggane Proving Grounds, Algeria (French Atmospheric Tests)
 ECK= Ecker, Algeria (French Underground tests)
 CLS= Carlsbad, New Mexico, USA (US underground test)
 JON= Johnston Island (US atmospheric tests)
 FAL= Fallon, Nevada, USA (US underground test)
 LNR= Lop Nor, PRC (PRC atmospheric and underground tests)
 AMC= Amchitka Island, Aleutians, Alaska, USA (US underground tests)
 MUR= Muruora Is. (French atmospheric and underground tests)
 FAN= Fangataufa Is. (French atmospheric and underground tests)
 HTB= Hattiesburg, Mississippi, USA (US underground tests)
 GRV= Grand Valley, Colorado, USA (US natural gas stimulation)
 RAJ= Pokhran, Rajasthan Desert, India (Indian underground test)
 IS?IN= Indian Ocean (putative Israeli Test)
 RFL= Rifle, Colorado, USA (3x33kt simultaneous gas stimulation shots)
 SAT= South Atlantic Ocean (three US tests, rocket to 482 kilometers altitude)
 MAL= Malden Island (UK atmospheric tests)
 KPY= Kapustin Yar (USSR)
 SYS= Sary Shagan (USSR)
 YAK= Various sites in Yakutia (USSR)
 CHA= Chagai Hills, Dist. of Quetta, Baluchistan, Pakistan (PK underground)

USSR sites other than NZ and KTS. A large number of blasts, some or many of which were for engineering purposes (possibly similar to US Plowshare tests) were fired underground at many locations. Latitude and Longitude for most of these are given in the tables. These tests, US plowshare tests, and the one Indian test, were announced by the testing parties to be PNEs (Peaceful Nuclear Explosions).

COLUMN 22: Test sub site

NTS: P= Pahute Mesa
 Y= Yucca Mountain
 F= Frenchman Flat
 B= Buckboard Mesa
 KTS: B= Balapan or Shagan River
 D= Degelen Mountain
 M= Murzhik
 NZ: N= (NTS) Northern Island
 S= Southern Island

COLUMNS 24-27:

TYPE: AIRD=airdrop
 ART =artillery shell
 ATMO=in or above the atmosphere
 BALN=balloon
 BARG=barge
 CRAT=crater
 RC ="roman candle"=open vertical shaft
 ROCH=rocket
 SHFT=stemmed vertical shaft
 SS1 =simultaneous shot in shaft 1
 SS2 =simultaneous shot in shaft 2
 SSn =simultaneous shot in shaft n

(If several simultaneous tests were in the same shaft [usually at different depths] they will all be listed SS1. If three were shot simultaneously in three separate shafts they will be SS1, SS2, and SS3).

SURF=surface (unknown but probably not airdropped, near surface, includes tower and barge)

TOWR=tower

TUNN=tunnel

UNDW=underwater

COLUMNS 29-31: Seismic body (P) wave magnitude, mb. Sources in this order of preference. ISC mb, if ISC mb not available NEIS mb, if no mb available an ML from PAS or BRK may be used. If the test has known multiple explosions, mb refers to the entire test.

COLUMNS 33-35: Seismic surface wave magnitude, Ms. If the test has known multiple explosions, Ms refers to the entire test.

COLUMNS 37-41: Explosive Yield in Kilotons. NOTE decimal points are not all lined up vertically. This could be a problem in any machine processing as could l, g, LOW, HIGH, -, SLIGHT, FIZZ. Unless there is a single number without a l, g, or - , assume the yield is unknown and very approximate. FIZZ=fizzle or failure with extremely low yield. F followed by a number, eg F300, is a test which had a smaller yield than expected. Apparently some fizzles were two-stage devices in which the fusion stage produced little or no yield.

COLUMNS 43-49: Latitude in degrees and decimals of a degree. Although it can't be shown in this format, many US shots have coordinates released to 0.1 or 0.01 seconds (0.00003 or 0.000003 degrees).

COLUMNS 51-58: Longitude in degrees and decimals of a degree. See comments about US shots under latitude.

COLUMNS 60-61:

PU=Purpose: WR=weapons related, **=war, WE=weapons effects, SF=safety
PS=Plowshare (US PNE engineering shots)
VU=US Vela Uniform-directed toward seismic detection of underground shots

COLUMNS 62-63:

DT=Device Type: U=fission only with primarily U235, or boosted or two stage with primarily U235 primary (trigger, pit)
P=fission only with primarily Pu239, or boosted or two stage with primarily Pu239 primary (trigger, pit)
I=fission only, fission material mix unknown
B="boosted", some fusion yield, perhaps from tritium although the boost is probably mainly to increase the fission yield.
2=two stage, fusion second stage, possibly many or most of these will have a U238 fission "third" stage.

Zero yield omitted: USDOE "Announced Nuclear Tests" with zero yield are not included in this nuclear EXPLOSION catalog. Some of these are described as being safety or storage-transportation tests.

COLUMNS 64-67: For underground tests: Rock type at device emplacement point.

GR= granite
QP= quartz porphyrite
SA= sandstone
AL= aleurolite (siltstone)
PO= porphyrite
QS= quartz syneite
GS= gritstone
AR= argillite (mudstone)
CO= conglomerate
TS= tuffaceous sandstone
SL= salt

COLUMN 68: += device emplaced above water table
- = device emplaced below water table

COLUMN 69-76:

NAME=Name of explosion. All US announced, and a few French, and all UK underground tests have a name. In early US atmospheric testing some names were reused. When the names are too long for the table, any space is first dropped, and second, the name is truncated, not abbreviated. A few words appear often enough as the component of a name that they are abbreviated by a lower case letter as follows:
g=GERBOISE, m=MIST, y=MISTY, p=PRIME, d=DIAMOND
A * in the first column of the name indicates a putative nuclear test (ie. not announced or acknowledged by the PRESUMED testing party). A second * in the name column indicates some doubt about whether the event was a nuclear explosion. A number of US tests listed only by N (NRDC), which have ** in the name column, may be cavity collapses from previous tests, or earthquakes, but they may include some unannounced nuclear explosions.

COLUMNS 77-80: Generalized References

E= United States Department of Energy
N= Natural Resources Defense Council
B= Bolt "The Parted Veil: Nuclear Explosions and Earthquakes"
A= Bocharv, V. S., S. A. Zelentsov, and V. N. Mikhailov.
Characteristics of 96 underground nuclear explosions at the Semipalatinsk test site, Atomnaya Energiya, 67, (3), 1989.
D= Dominion of New Zeland, Dept. of Scientific and Industrial Research
I= International Seismological Centre
C= United States Advanced Research Projects Agency/ Nuclear Monitoring Research Office/ Center for Seismic Studies
L= U.S. Geological Survey, National Earthquake Information Service
S= Seismic Service of the Russian Federation Ministry of Defense
U= United Kingdom Atomic Weapons Research Establishment
F= Ronald Walters and Kenneth S. Zinn, The September 22, 1979 Mystery Flash: Did South Africa Detonate a Nuclear Bomb? Report of the Washington Office on Africa Educational Fund, May 21, 1985.
n= ARPA/MMRO/NORwegianSeismicARray (NORSAR)
G= GSETT3-Group of Scientific Experts Technical Test 3
REB-Reviewed Event Bulletin from IDC-International Data Center
Z= Australian Geological Survey Organization Database of Nuclear Explosions http://www.agso.gov.au/information/structure/isd/database/nukexp_query.html
i= Indian Government press releases

DATE	TIME	TP	TYPE	MAG	YIELD	LAT	LON	PU	ROCKw	SRC
yymmdd	hhmmss.	SITE		mb Ms	kt.	deg	deg	DT	tNAME	
450716		USANM	TOWR		21	33.675N	106.475W	WRP	TRINITY	EN
450805		USHRJ	AIRD		15			**U	LITTLEBOEN	
450809		USNGJ	AIRD		21			**P	FAT MAN	EN
460630		USBKN	AIRD		21	11.000N	165.000E	WEP	ABLE	EN
460724		USBKN	UNDW		21			WEP	BAKER	EN
480414		USENW	TOWR		37	11.000N	162.000E	WR	XRAY	E
480430		USENW	TOWR		49	11.000N	162.000E	WR	YOKE	E
480514		USENW	TOWR		18	11.000N	162.000E	WRU	ZEBRA	EN
490829		CP	TOWR		10-20	48.000N	076.000E	P	JOE 1	N
510127		USNTSFAIRD			1	37.000N	116.000W	WR	ABLE	EN
510128		USNTSFAIRD			8	37.000N	116.000W	WR	BAKER	EN
510201		USNTSFAIRD			1	37.000N	116.000W	WR	EASY	EN
510202		USNTSFAIRD			8	37.000N	116.000W	WR	BAKER-2	EN
510206		USNTSFAIRD			22	37.000N	116.000W	WR	FOX	EN
510407		USENW	TOWR		70			WR	DOG	EN
510420		USENW	TOWR		47			WR	EASY	EN
510508		USENW	TOWR		225			WR B	GEORGE	EN
510524		USENW	TOWR		45.5			WR B	ITEM	EN
510924		CP	SURF		25				JOE 2	N
511018		CP	ATMO		50	48.000N	076.000E		JOE 3	N
511022		USNTS	TOWR		10.1			WR	ABLE	E
511028		USNTS	AIRD		3.5			WR	BAKER	E
511030		USNTS	AIRD		14			WR	CHARLIE	E
511101		USNTS	AIRD		21			WR	DOG	E
511105		USNTS	AIRD		31			WR	EASY	E
511119		USNTS	SURF		1.2			WE	SUGAR	E
511129		USNTS	CRAT		1.2			WE	UNCLE	E
520401		USNTS	AIRD		1			WE	ABLE	E
520415		USNTS	AIRD		1			WE	BAKER	E
520422		USNTS	AIRD		31			WR	CHARLIE	E
520501		USNTS	AIRD		19			WR	DOG	E
520507		USNTS	TOWR		12			WR	EASY	E
520525		USNTS	TOWR		11			WR	FOX	E
520601		USNTS	TOWR		15			WR	GEORGE	E
520605		USNTS	TOWR		14			WR	HOW	E
521003		GBMBI	SHIP						HURRICANB	
521031		USENW	SURF		10400			WR 2	MIKE	EN
521115		USENW	AIRD		500			WR	KING	E
530317		USNTS	TOWR		16			WR	ANNIE	E
530324		USNTS	TOWR		24			WR	NANCY	E
530331		USNTS	TOWR		0.2			WR	RUTH	E
530406		USNTS	AIRD		11			WR	DIXIE	E
530411		USNTS	TOWR		0.2			WR	RAY	E
530418		USNTS	TOWR		23			WR	BADGER	E
530425		USNTS	TOWR		43			WR	SIMON	E
530508		USNTS	AIRD		27			WE	ENCORE	E
530519		USNTS	TOWR		32			WR	HARRY	E
530525		USNTS	ART		15			WR	GRABLE	E
530604		USNTS	AIRD		61			WR	CLIMAX	E
530812		CP	TOWR		200-300				JOE 4	N
530823		CP	ATMO						JOE 5-7	N
531014	223000.0	GBEMU	TOWR			28S	135E		TOTEM	B
531026	223000.0	GBEMU	TOWR							B
540228		USBKN	SURF		15000			WR 2	BRAVO	EN

540326	USBKN	BARG	11000		WR 2	ROMEO	EN
540406	USBKN	SURF	110		WR	KOON	E
540425	USBKN	BARG	6900		WR 2	UNION	EN
540504	USBKN	BARG	13500		WR 2	YANKEE	EN
540513	USENW	BARG	1690		WR 2	NECTAR	EN
540914	053600.0	CP		55.000N 64.000E			N
550218	USNTS	AIRD	1		WE	WASP	E
550222	USNTS	TOWR	2		WR	MOTH	E
550301	USNTS	TOWR	7		WR	TESLA	E
550307	USNTS	TOWR	43		WR	TURK	E
550312	USNTS	TOWR	4		WR	HORNET	E
550322	USNTS	TOWR	8		WR	BEE	E
550323	USNTS	CRAT	1		WE	ESS	E
550329	USNTS	TOWR	14		WR	APPLE-1	E
550329	USNTS	AIRD	3		WR	WASP p	E
550406	USNTS	AIRD	3		WE	HA	E
550409	USNTS	TOWR	2		WR	POST	E
550415	USNTS	TOWR	22		WE	MET	E
550505	USNTS	TOWR	29		WR	APPLE-2	E
550515	USNTS	TOWR	28		WR	ZUCCHINIE	
550514	USPAC	UNDW	30		WE	WIGWAM	EN
550729	CP		5				N
550802	CP		25		P		N
550921	CP		20		P		N
551106	CPKTS	AIRB	215		U		N
551122	CPKTS	AIRD	1600				N
560118	USNTS	SURF	SLIGHT		SF	PROJ 56	E
560320	CP						N
560330	CP						N
560504	USENW	SURF	40		WR	LACROSSEE	
560502	USBKN	AIRD	3400		WR	CHEROKE	EN
560516	GBMBI	TOWR				MOSAIC	B
560527	USBKN	SURF	3500		WR 2	ZUNI	EN
560527	USENW	TOWR	0.19		WR	YUMA	EN
560530	USENW	TOWR	16.8		WR	ERIE	E
560606	USENW	SURF	13.7		WR	SEMINOLEE	
560611	USBKN	BARG	365		WR	FLATHEADEN	
560611	USENW	TOWR	8.5		WR	BLACKFOOE	
560613	USENW	TOWR	1.4		WR	KICKAPOOE	
560616	USENW	AIRD	1.9		WR	OSAGE	E
560619	GBMBI	TOWR					B
560621	USENW	TOWR	16		WR	INCA	E
560625	USBKN	BARG	1000		WR	DAKOTA	EN
560702	USENW	TOWR	350		WR	MOHAWK	EN
560708	USENW	BARG	1900		WR	APACHE	EN
560710	USBKN	BARG	4500		WR 2	NAVAJO	EN
560720	USBKN	BARG	5000		WR 2	TEWA	EN
560721	USENW	BARG	270		WR	HURON	EN
560824	CP	ATMO	11000				N
560830	CP	ATMO	g20				N
560902	CP	ATMO					N
560910	CP	ATMO					N
560927	GBMAR	TOWR	g100			BUFFALO	B
561004	GBMAR	SURF	LOW				B
561011	GBMAR	AIRD	LOW				B
561022	GBMAR	TOWR	g100				B
561117	CP	ATMO					N
570119	CP	ATMO					N

570308		CP	ATMO						N
570403		CP	ATMO						N
570406		CP	ATMO						N
570410		CP	ATMO						N
570412		CP	ATMO						N
570416		CP	ATMO						N
570515	193700.0	GBCHR	AIRD	F300			2	GRAPPLE	B
570528		USNTS	TOWR	12			WR	BOLTZMANE	
570531	194100.0	GBCHR	AIRD	720			I		B
570602		USNTS	TOWR	.140			WR	FRANKLINE	
570605		USNTS	BALN	.0005			WR	LASSEN	E
570618		USNTS	BALN	10			WR	WILSON	E
570619	194000.0	GBCHR	AIRD	F200			2		B
570624		USNTS	BALN	37			WR	PRISCILLE	
570705		USNTS	BALN	74			WR	HOOD	E
570715		USNTS	TOWR	17			WR	DIABLO	E
570719		USNTS	ROCH	2			WE	JOHN	E
570724		USNTS	TOWR	10			WR	KEPLER	E
570725		USNTS	BALN	9.7			WR	OWENS	E
570807		USNTS	RC	SLIGHT			SF	PASCAL -AE	
570807		USNTS	BALN	19			WR	STOKES	E
570810		USNTS	TUNN	0			SF	SATURN	E
570818		USNTS	TOWR	17			WR	SHASTA	E
570822		CP		HIGH					N
570823		USNTS	BALN	11			WR	DOPPLER	E
570827		USNTS	RC				SF	PASCAL -BE	
570830		USNTS	BALN	4.7			WR	FRANKLINE	
570831		USNTS	TOWR	44			WR	SMOKY	E
570902		USNTS	TOWR	11			WR	GALILEO	E
570906		USNTS	BALN	.197			WR	WHEELER	E
570906		USNTS	SURF	0.3			SF	COLOUMBBE	
570908		USNTS	BALN	1			WR	LAPLACE	E
570914		USNTS	TOWR	11			WR	FIZEAU	E
570914	053000.0	GBMAR	TOWR	120				ANTLER	B
570916		USNTS	BALN	12			WR	NEWTON	E
570919		USNTS	TUNN	1.7			WR	RAINIER	E
570923		USNTS	TOWR	19			WR	WHITNEY	E
570924		CPNZ		g1000	73.000N	055.000E			N
570925	003000.0	GBMAR	TOWR	g100					B
570926		CPKTS	UNDW	7-70					N
570928		USNTS	BALN	12			WR	CHARLESTE	
571006	085800.0	CPNZ	ATMO	HIGH	73.000N	055.000E			N
571007		USNTS	BALN	8			WR	MORGAN	E
571009	073000.0	GBMAR	BALN	g100					B
571010	065500.0	CPNZ	ATMO	LOW					N
571108	174700.0	GBCHR	AIRD	1800			2	GRAPPLE	B
571206		USNTS	RC	SLIGHT			SF	PASCAL -CE	
571209		USNTS	SURF	0.5			SF	COULOMBCE	
571228		CP	ATMO						N
580222		USNTS	TUNN	11			SF	VENUS	E
580223		CPNZ	ATMO	g1000	73.000N	055.000E			N
580227	075900.0	CPNZ	ATMO	g1000	73.000N	055.000E			N
580227	102400.0	CPNZ	ATMO	HIGH	73.000N	055.000E			N
580314		USNTS	TUNN	11			SF	URANUS	E
580314		CPNZ	ATMO	11000	73.000N	055.000E			N
580314		CP	ATMO	11000					N
580315		CP	ATMO	11000					N
580320		CPNZ	ATMO	LOW	73.000N	055.000E			N

580321	CP	ATMO	LOW					N
580322	CPNZ	ATMO	g20	73.000N	055.000E			N
580428	USPAC	BALN	1.7			WE	YUCCA	E
580428	190500.0	GBCHR	AIRD	g1000			GRAPPLE	B
580505	USENW	SURF	18			WR	CACTUS	E
580511	USBKN	BARG	1300			WR	FIR	E
580511	USENW	BARG	90			WR	BUTTERNUE	
580512	USENW	SURF	1370			WR 2	KOA	EN
580516	USENW	UNDW	9			WE	WAHOO	E
580520	USENW	BARG	6			WR	HOLLY	E
580521	USBKN	BARG	24			WR	NUTMEG	E
580526	USENW	BARG	350			WR	YELLOWWOE	
580526	USENW	BARG	61			WR	MAGNOLIAE	
580530	USENW	BARG	15			WR	TOBACCO	E
580531	USBKN	BARG	130			WR	SYCAMOREE	
580602	USENW	BARG	18			WR	ROSE	E
580608	USENW	UNDW	9			WE	UMBRELLAE	
580610	USBKN	BARG	195			WR	MAPLE	E
580614	USBKN	BARG	320			WR	ASPEN	E
580614	USENW	BARG	1.5			WR	WALNUT	E
580618	USENW	BARG	10			WR	LINDEN	E
580627	USBKN	BARG	415			WR	REDWOOD	E
580627	USENW	BARG	875			WR	ELDER	E
580628	USENW	BARG	8900			WR 2	OAK	EN
580629	USBKN	BARG	13			WR	HICKORY	E
580701	USENW	BARG	5			WR	SEQUOIA	E
580702	USBKN	BARG	220			WR	CEDAR	E
580705	USENW	BARG	390			WR	DOGWOOD	E
580712	USBKN	BARG	9300			WR	POPLAR	E
580714	USENW	BARG	low			SF	SCAEVOLAE	
580717	USENW	BARG	250			WR	PISONIA	E
580722	USBKN	BARG	62			WR	JUNIPER	E
580722	USENW	BARG	195			WR	OLIVE	E
580726	USENW	BARG	2000			WR	PINE	E
580801	USJON	ROCH	3800			WE	TEAK	E
580806	USENW	SURF	FIZZ			WR	QUINCE	E
580812	USJON	ROCH	3800			WE	ORANGE	E
580818	USENW	SURF	low			WR	FIG	E
580822	180000.0	GBCHR	BALN	g100				B
580827	USSAT	ROCH	1-2			WE	ARGUS 1	E
580830	USSAT	ROCH	1-2			WE	ARGUS 2	E
580902	172400.0	GBCHR	AIRD	g1000				B
580906	USSAT	ROCH	1-2			WE	ARGUS 3	E
580911	174800.0	GBCHR	AIRD	g1000				B
580912	USNTS	RC	.038			SF	OTERO	E
580917	USNTS	RC	.015			SF	BERNALILE	
580919	USNTS	BALN	.083			WR	EDDY	E
580920	CPNZ	ATMO		73.000N	055.000E			N
580921	USNTS	RC	1.5			SF	LUNA	E
580923	USNTS	TUNN				SF	MERCURY	E
580923	175800.0	GBCHR	BALN	g100				B
580926	USNTS	RC	.002			SF	VALENCIAE	
580928	USNTS	TUNN	.013			SF	MARS	E
580929	USNTS	BALN	2			WR	MORA	E
580930	075000.0	CPNZ	ATMO	50+	73.000N	055.000E		N
580930	095500.0	CPNZ	ATMO	50+	73.000N	055.000E		N
581002	080000.0	CPNZ	ATMO	g20	73.000N	055.000E		N
581002	090100.0	CPNZ	ATMO		73.000N	055.000E		N

581005		USNTS	RC	5.5				SF		COLFAX	E
581005		USNTS	BALN	77				SF		HIDALGO	E
581005	060000.0	CPNZ	ATMO		73.000N	055.000E					N
581008		USNTS	TUNN	72				WR		TAMALPA	E
581010		USNTS	TOWR	79				WR		QUAY	E
581010	075100.0	CPNZ	ATMO	HIGH	73.000N	055.000E					N
581012	075300.0	CPNZ	ATMO	g1000	73.000N	055.000E					N
581013		USNTS	BALN	1.4				WR		LEA	E
581014		USNTS	TUNN	0.115				SF		NEPTUNE	E
581015		USNTS	TOWR	1.2				WR		HAMILTONE	E
581015	075100.0	CPNZ	ATMO	g1000	73.000N	055.000E					N
581016		USNTS	TUNN	5				WR		LOGAN	E
581016		USNTS	BALN	37				WR		DONA ANAE	E
581017		USNTS	SURF	24				SF		VESTA	E
581018		USNTS	TOWR	90				WR		RIOARRIBE	E
581018	095100.0	CPNZ	ATMO	g1000	73.000N	055.000E					N
581019	072700.0	CPNZ	ATMO	LOW	73.000N	055.000E					N
581020	082000.0	CPNZ	ATMO	g1000	73.000N	055.000E					N
581022		USNTS	BALN	6				WR		SOCORRO	E
581022		USNTS	BALN	115				WR		WRANGELLE	E
581022		USNTS	BALN	188				WR		RUSHMOREE	E
581022	082100.0	CPNZ	ATMO	g1000	73.000N	055.000E					N
581024		USNTS	TOWR	21				SF		CATRON	E
581024		USNTS	SURF	1.7				SF		JUNO	E
581024	080300.0	CPNZ	ATMO	HIGH	73.000N	055.000E					N
581025	082000.0	CPNZ	ATMO	HIGH	73.000N	055.000E					N
581026		USNTS	TOWR	0.7				SF		CERES	E
581026		USNTS	BALN	4.9				WR		SANFORD	E
581026		USNTS	BALN	2.2				WR		DE BACA	E
581027		USNTS	TOWR	0.6				SF		CHAVEZ	E
581029		USNTS	TUNN	55				WR		EVANS	E
581029		USNTS	TOWR	7.8				WR		HUMBOLDTE	E
581030		USNTS	BALN	1.3				WR		SANTA FEE	E
581030		USNTS	TUNN	22				WR		BLANCA	E
581030		USNTS	TOWR	0.2				SF		TITANIA	E
581101		CP	ATMO	LOW							N
581103		CP	ATMO	LOW							N
600213	070400.0	FRREG	TOWR	60-70	26.317N	000.067W	WE	P	g	BLEUE	N
600401	061700.0	FRREG	SURF	120	26.100N	000.150W	WR	P	g	BLANCHN	N
601227	073000.0	FRREG	TOWR	1.6			WE	P	g	ROUGE	N
610425	060000.0	FRREG	TOWR	FIZ0.7				P	g	VERTE	N
610901		CPKTS	ATMO	150	50.000N	078.000E					N
610904		CPKTS	ATMO	10-80	50.000N	078.000E					N
610905		CPKTS	ATMO	LOW	50.000N	078.000E					N
610906		CPKPY	ATMO	25	48.450N	044.300E					N
610910	090000.0	CPNZ	ATMO	g1000	73.000N	055.000E					N
610910		CPNZ	ATMO	LOW	73.000N	055.000E					N
610912	100800.0	CPNZ	ATMO	g1000	73.000N	055.000E					N
610913		CPNZ	ATMO	LOW	73.000N	055.000E					N
610913		CPKTS	ATMO	LOW	50.000N	078.000E					N
610914	095616.7	CPNZ	ATMO	g1000	74.600N	051.100E					N
610915		USNTS	TUNN	2.6				WR		ANTLER	E
610916		USNTS	SHFT	LOW				WR		SHREW	E
610916	090800.0	CPNZ	ATMO	g1000	73.000N	055.000E					N
610917		CPKTS	ATMO	20-150	50.000N	078.000E					N
610918	075936.8	CPNZ	ATMO	g1000	74.000N	052.000E					N
610920	081200.0	CPNZ	ATMO	g1000	73.000N	055.000E					N
610922	080100.0	CPNZ	ATMO	g1000	73.000N	055.000E					N

611002	103100.0	CPNZ	ATMO	g1000	73.000N	055.000E			N
611004	073054.8	CPNZ	ATMO	g1000	73.700N	053.800E			N
611006	070000.0	CPNZ	ATMO	g1000	73.000N	055.000E			N
611006		CPKPY	ATMO	~200					N
611008		CPNZ	ATMO	LOW	73.000N	055.000E			N
611001		USNTS	SHFT	LOW			WR	BOOMER	E
611010		USNTS	TUNN	LOW			WR	CHENA	E
611011	073959.9	CP	UNDG	120	49.772N	077.995E			A
611012		CPKTS	ATMO	LOW	50.000N	078.000E			N
611020		CPNZ	ATMO	g1000	73.000N	055.000E			N
611021		CPSYS	ATMO	15					N
611023	083122.1	CPNZ	ATMO	25000	73.900N	053.800E			N
611023	103048.8	CPNZ	UNDW	LOW	70.700N	053.500E			N
611025	083300.0	CPNZ	ATMO	11000	73.000N	055.000E			N
611027	083026.6	CPNZ	ATMO	20-150	70.700N	053.500E			N
611027		CPSYS	ATMO	15					N
611029		USNTS	SHFT	LOW			WR	MINK	E
611030	083300.0	CPNZ	ATMO	58000	73.000N	055.000E			N
611031	082900.0	CPNZ	ATMO	g1000	73.000N	055.000E			N
611031	083800.0	CPNZ	ATMO	11000	73.000N	055.000E			N
611102	084100.0	CPNZ		20-150	73.000N	055.000E			N
611104	072000.0	CPNZ	ATMO	g1000	73.000N	055.000E			N
611107	112959.9	FRECK	TUNN	8	24.057N	005.052E	WR	AGATE	N
611203		USNTS	SHFT	13.4			WR	FISHER	E
611210		USCLS	SHFT	3			PS	GNOME	E
611213		USNTS	SHFT	0.50			WR	MAD	E
611217		USNTS	SHFT	LOW			WR	RINGTAILE	
611222		USNTS	TUNN	LOW			WR	FEATHER	E
620109		USNTS	SHFT	5.1			WR	STOAT	E
620118		USNTS	SHFT	6.4			WR	AGOUTI	E
620130		USNTS	SHFT	LOW			WR	DORMOUSEE	
620202	080000.2	CPKTS	UNDG	120	49.777N	078.001E			A
620208		USNTS	SHFT	3.07			WR	STILLWATE	
620209		USNTS	SHFT	7.1			WR	ARMADILOE	
620215		USNTS	SHFT	5.7			WE	HARD HATE	
620219		USNTS	SHFT	1.9			WR	CHINCHILE	
620219		USNTS	SHFT	LOW			WR	CODSAW	E
620223		USNTS	SHFT	11.90			WR	CIMARRONE	
620224		USNTS	SHFT	LOW			WR	PLATYPUSE	
620301		GBNTS	SHFT	LOW				PAMPAS	E
620305		USNTS	CRAT	0.43			WE	DANNYBOYE	
620306		USNTS	SHFT	LOW			WR	ERMINE	E
620308		USNTS	SHFT	8.4			WR	BRAZOS	E
620315		USNTS	SHFT	LOW			WR	HOGNOSE	E
620328		USNTS	SHFT	3.40			WR	HOOSIC	E
620331		USNTS	SHFT	LOW			WR	CHINCHI2E	
620405		USNTS	SHFT	10.6			WR	DORMOUSpE	
620406		USNTS	SHFT	LOW			WR	PASSAIC	E
620412		USNTS	SHFT	LOW			WR	HUDSON	E
620414		USNTS	TUNN	1.85			WR	PLATTE	E
620421		USNTS	SHFT	LOW			WR	DEAD	E
620425		USCHR	AIRD	20-1000			WR	ADOBE	E
620427		USCHR	AIRD	20-1000			WR	AZTEC	E
620427		USNTS	SHFT	LOW			WR	BLACK	E
620501	100000.5	FRECK	TUNN	g20	24.063N	005.042E	WR	BERYL	N
620502		USCHR	AIRD	LOW 1000			WR	ARKANSASE	
620504		USCHR	AIRD	20-1000			WR	QUESTA	E
620506		USPAC	ROCH	600			WR	FRIGATEBEN	

620507	USNTS	SHFT	LOW			WR	PACA	E	
620508	USCHR	AIRD	20-1000			WR	YUKON	E	
620509	USCHR	AIRD	20-1000			WR	MESILLA	E	
620510	USNTS	SHFT	LOW			WR	ARIKAREEE		
620511	USCHR	AIRD	20-1000			WR	MUSKEGONE		
620511	USPAC	UNDW	LOW			WE	SWORDFISE		
620512	USCHR	AIRD	20-1000			WR	ENCINO	E	
620512	USNTS	SHFT	40			WR	AARDVARKE		
620514	USCHR	AIRD	20-1000			WR	SWANEE	E	
620519	USNTS	SHFT	LOW			WR	EEL	E	
620519	USCHR	AIRD	20-1000			WR	CHETCO	E	
620525	USNTS	SHFT	LOW			WR	WHITE	E	
620525	USCHR	AIRD	LOW			WR	TANANA	E	
620527	USCHR	AIRD	20-1000			WR	NAMBE	E	
620601	USNTS	SHFT	LOW			WR	RACCOON	E	
620606	USNTS	SHFT	LOW			WR	PACKRAT	E	
620608	USCHR	AIRD	20-1000			WR	ALMA	E	
620609	USCHR	AIRD	20-1000			WR	TRUCKEE	E	
620610	USCHR	AIRD	g1000			WR 2	YESO	EN	
620612	USCHR	AIRD	20-1000			WR	HARLEM	E	
620613	USNTS	TUNN	LOW			WR	DESMOINEE		
620615	USCHR	AIRD	20-1000			WR	RINCONADE		
620617	USCHR	AIRD	20-1000			WR	DULCE	E	
620619	USCHR	AIRD	LOW			WR	PETIT	E	
620621	USNTS	SHFT	LOW			WR	DAMAN 1	E	
620622	USCHR	AIRD	20-1000			WR	OTOWI	E	
620627	USCHR	AIRD	g1000			WR 2	BIGHORN	EN	
620627	USNTS	SHFT	67			WR	HAYMAKERE		
620628	USNTS	TUNN	LOW			WE	MARSHMALE		
620630	USCHR	AIRD	g1000			WR 2	BLUESTONEN		
620630	USNTS	SHFT	LOW			WR	SACRAMENE		
620706	USNTS	CRAT	104			PS	SEDAN	E	
620707	USNTS	SURF	LOW			WE	LFELLER1E		
620709	USJON	ROCH	1400			WE 2	STARFISHEN		
620710	USCHR	AIRD	20-1000			WR	SUNSET		
620711	USCHR	AIRD	g1000			WR 2	PAMLICO	EN	
620711	USNTS	CRAT	0.5			WE	JOHNNIEBE		
620713	USNTS	SHFT	20-1000			WR	MERRIMACE		
620714	USNTS	TOWR	LOW			WE	SMALLBOYE		
620717	USNTS	SURF	LOW			WE	LFELLER2E		
620727	USNTS	SHFT	LOW			WR	WICHITA	E	
620805	090900.0	CPNZ	ATMO	30000	73.000N	055.000E		N	
620807	093000.0	CPKTS	ATMO	LOW	50.000N	078.000E		N	
620810	090000.0	CPNZ	ATMO	11000	73.000N	055.000E		N	
620820	090214.1	CPNZ	ATMO	g1000	74.300N	051.500E		N	
620822	090000.0	CPNZ	ATMO	g1000	73.000N	055.000E		N	
620824		USNTS	SHFT	LOW			WR	YORK	E
620824		USNTS	SHFT	LOW			WR	BOBAC	E
620825	054000.0	CPKTS	ATMO	LOW	50.000N	078.000E		N	
620825	090000.0	CPNZ	ATMO	g1000	73.000N	055.000E		N	
620827	090000.0	CPNZ	ATMO	1000+	73.000N	055.000E		N	
620901	124000.0	CPNZ	ATMO		73.000N	055.000E		N	
620902		CPNZ	ATMO	20-150	73.000N	055.000E		N	
620906		USNTS	SHFT	LOW			WR	RARITAN	E
620908	101800.0	CPNZ	ATMO	g1000	73.000N	055.000E		N	
620914		USNTS	SHFT	LOW			WR	HYRAX	E
620915	080213.9	CPNZ	ATMO	g1000	74.400N	051.500E		N	
620916	105900.0	CPNZ	ATMO	g1000	73.000N	055.000E		N	

620918	082902.7	CPNZ	ATMO	g1000	73.200N	054.700E			N
620919	110056.4	CPNZ	ATMO	20000	73.800N	053.800E			N
620920		USNTS	SHFT	LOW			WR	PEBA	E
620921	080100.0	CPNZ	ATMO	25000	73.000N	055.000E			N
620925	130300.0	CPNZ		25000	73.000N	055.000E			N
620927	080316.4	CPNZ	ATMO	g1000	74.300N	052.400E			N
620929		USNTS	SHFT	LOW			WR	ALLEGHENE	
621002		USJON	AIRD	20-1000			WR	ANDROSCOE	
621005		USNTS	SHFT	115			WR	MISSISSIE	
621006		USJON	AIRD	LOW			WR	BUMPING	E
621007	163200.0	CPNZ	ATMO	g20	73.000N	055.000E			N
621012		USNTS	SHFT	LOW			WR	ROANOKE	E
621012		USNTS	SHFT	LOW			WR	WOLVERINE	
621014		CPKTS	ATMO	LOW	50.000N	078.000E			N
621018		USJON	AIRD	g1000			WR 2	CHAMA	E
621018		USNTS	SHFT	LOW			WR	TIOGA	E
621019		USNTS	SHFT	LOW			WR	BANDICOOE	
621020		USJON	ROCH	LOW			WE	CHECKMATE	
621022	034100.0	CPKTS	ATMO	g100	50.000N	078.000E			N
621022	090600.0	CPNZ	ATMO	g1000	73.000N	055.000E			N
621026		USJON	ROCH	11000			WE	BLUEGIL	E
621027		USNTS	SHFT	LOW			WR	SANTEE	E
621027		USJON	AIRD	20-1000			WR	CALAMITYE	
621027	073500.0	CPNZ	ATMO	20-1000	73.000N	055.000E			N
621028	044100.0	CPKTS	ATMO	LOW	50.000N	078.000E			N
621029	073500.0	CPNZ	ATMO	20-1000	73.000N	055.000E			N
621030		USJON	AIRD	g1000			WR 2	HOUSATONEN	
621030		CPNZ	ATMO	20-1000	73.000N	055.000E			N
621101		USJON	ROCH	11000			WE	KINGFISHE	
621101	063000.0	CPNZ	ATMO	20-1000	73.000N	055.000E			N
621101	092000.0	CPKTS	ATMO	20-1000	50.000N	078.000E			N
621103	083100.0	CPNZ	ATMO	20-1000	73.000N	055.000E			N
621104		USJON	ROCH	LOW			WE	TIGHTROPE	
621104		CPKTS	ATMO	20-1000	50.000N	078.000E			N
621109		USNTS	SHFT	LOW			WR	ST. LAWREE	
621115		USNTS	SHFT	LOW			WR	GUNDI	E
621117		CPKTS	ATMO	LOW	50.000N	078.000E			N
621127		USNTS	SHFT	LOW			PS	ANACOSTIE	
621204		USNTS	SHFT	LOW			WR	TAUNTON	E
621207		GBNTS	SHFT	LOW				TENDRAC	E
621212		USNTS	TUNN	LOW			WR	MADISON	E
621212		USNTS	SHFT	LOW			WR	NUMBAT	E
621214		USNTS	SHFT	LOW			WR	MANATEE	E
621218		CPNZ	ATMO	20-1000	73.000N	055.000E			N
621218		CPNZ	ATMO	20-1000	73.000N	055.000E			N
621220		CPNZ	ATMO	20-1000	73.000N	055.000E			N
621222		CPNZ	ATMO	20-1000	73.000N	055.000E			N
621223	111500.0	CPNZ	ATMO	500-5000	73.000N	055.000E			N
621224	104421.9	CPNZ	ATMO		74.200N	052.300E			N
621224	111142.0	CPNZ	ATMO	20000	73.600N	057.500E			N
621225	133557.2	CPNZ	ATMO	500-5000	73.400N	056.500E			N
630208		USNTS	SHFT	LOW			WR	CASSELMAE	
630208		USNTS	SHFT	LOW			WR	ACUSHI	E
630208		USNTS	SHFT	LOW			WR	FERRET	E
630208		USNTS	SHFT	LOW			WR	HATCHIE	E
630215		USNTS	SHFT	LOW			WR	CHIPMUNKE	
630221		USNTS	SHFT	LOW			PS	KAWEAH	E
630221		USNTS	SHFT	LOW			WR	CARMEL	E

630301		USNTS	SHFT		LOW			WR	JERBOA	E
630315		USNTS	SHFT		LOW			WR	TOYAH	E
630318	100100.4	FRECK	SH?	4.9	4.86	24.041N	005.072E	WR	EMERAUDEN	
630329		USNTS	SH?		LOW			WR	GERBIL	E
630330	095900.3	FRECK	TUNN		120	24.043N	005.057E	WR	AMETHST	N
630405		USNTS	SHFT		LOW			WR	FERRETPRE	
630410		USNTS	SHFT		LOW			WR	COYPU	E
630411		USNTS	SHFT		LOW			WR	CUMBERLAE	
630424		USNTS	SHFT		LOW			WR	KOOTANAIE	
630424		USNTS	SHFT		LOW			WR	PAISANO	E
630509		USNTS	SHFT		LOW			WR	GUNDIPRIE	
630517		USNTS	SHFT		LOW			WR	HARKEE	E
630517		USNTS	SHFT		LOW			WR	TEJON	E
630522		USNTS	SHFT		20-1000			WR	STONES	E
630529		USNTS	SHFT		LOW			WR	PLEASANTE	
630605		USNTS	TUNN		LOW			WR	YUBA	E
630606		USNTS	SHFT		LOW			WR	HUTIA	E
630606		USNTS	SHFT		LOW			WR	APSHAPAPE	
630614		USNTS	SHFT		LOW			WR	MATACO	E
630625		USNTS	SHFT		LOW			WR	KENNEBECE	
630812		USNTS	SHFT		LOW			WR	PEKAN	E
630815		USNTS	SHFT		LOW			WR	SATSOP	E
630823	1320	#NATCHES					059 NTS09	LLNL		
630823	1320	USNTSYSS1			LOW			WR	NATCHES	E
630823	1320	#KOHOCOTON*					255 NTS09	LLNL		
630823	1320	USNTSYSS2			LOW			WR	KOHOCOTONE	
630913		USNTS	SHFT		LOW			WR	AHTANUM	E
630913		USNTS	SHFT		249			WR	BILBY	E
630927		USNTS	SHFT		LOW			WR	CARP	E
630927		USNTS	SHFT		LOW			WR	NARRAGUAE	
631011		USNTS	SHFT		LOW			WR	GRUNION	E
631011		USNTS	SHFT		LOW			PS	TORNILLOE	
631016		USNTS	SHFT		20-1000			WR	CLEARWATE	
631017		USNTS	SHFT		LOW			WR	MULLET	
631020	130000.0	FRECK	TUNN	5.5	5.49	24.036N	005.039E	WR	RUBIS	N
631026		USFAL	SHFT		12			VU	SHOAL	E
631114		USNTS	SHFT		LOW			WR	ANCHOVY	E
631115		USNTS	SHFT		LOW			WR	MUSTANG	E
631122		USNTS	SHFT		20-1000			WR	GREYS	E
631204	1638									
631204	1638	#SARDINE*					262 NTS03	LANL		
631204	1638	USNTSYSS1			120			WR	SARDINE	E
631204	1638	#BARRACUDA					263 NTS03	LANL		
631204	1638	USNTSYSS2			120			WR	BARRACUDE	
631212		USNTS	SHFT		LOW			WR	EAGLE	E
631220		USNTS	SHFT		LOW			WR	TUNA	E
640116		USNTS	SHFT		20-200	37.090N	116.090W	WR	FORE	E
640123	160000.2	USNTS	SHFT	4.2	120	37.080N	116.050W	WR	OCONTO	E
640130		USNTS	SHFT		120			WR	CLUB	E
640212		USNTS	SHFT		120			WR	SOLENDONE	
640213		USNTS	SHFT		120			WR	BUNKER	E
640218		USNTS	SHFT		120			WR	BONEFISHE	
640218		USNTS	SHFT		120			WR	MACKERELE	
640220	153000.1	USNTS	SHFT	5.1	24	37.11N	116.04W		KLICKITAEN	
	(1998 NOV12	KLICKITAT	LONGITUDE	CORRECTED	FROM	37.2N	111.0W)			
640312		USNTS	SHFT		120			WR	HANDICAPE	
640313	160200.1	USNTS	SHFT		120	36.901N	116.201W	WR	PIKE	E
640315	075958.2	CPKTS	DUNDG	5.6	20-150	49.815N	078.075E			A

640414	144000.1	USNTS SHFT			120	37.150N	115.980W	WR		HOOK	E
640415	143000.1	USNTS SHFT			120	37.102N	116.402W	WR		STURGEONE	
640417		USNTS SHFT			120			WR		BOGEY	E
640424	201000.1	USNTS SHFT	5.2		20-200	37.070N	116.110W	WR		TURF	E
640429	204700.0	USNTS SHFT	4.1		120	37.040N	116.040W	WR		PIPEFISHE	
640507		USNTS SHFT			120			WR		DRIVER	E
640514	144000.1	USNTS SHFT			120	36.405N	115.803W	WR		BACKSWINE	
640515	161459.6	USNTS SHFT			120	37.100N	116.000W	WR		MINNOW	E
640516	060057.8	CPKTS DUNDG	5.6		20-150	49.807N	078.101E		GR		A
640611	164501.0	USNTS SHFT			120	37.160N	115.901W	PS		ACE	E
640612		USNTS SHFT			120			WR		BITTERLIE	
640615	134000.4	FRECK TUNN			120	24.067N	005.035E	WR		TOPAZE	N
640618		USNTS SHFT			120			WR		DUFFER	E
640625	133000.3	USNTS SHFT			120	37.050N	116.070W	WR		FADE	E
640630	133259.8	USNTS SHFT			120	37.130N	116.100W	PS		DUB	E
640716	131459.9	USNTS SHFT			20-200	37.100N	116.070W	WR		BYE	E
640717		GBNTS SHFT			120					CORMORANE	
640719	055958.6	CPKTS DUNDG	5.4		120	49.809N	078.092E		GR		A
640723		USNTS SHFT			120			WR		LINKS	E
640724		USNTS SHFT			120			WR		TROGON	E
640819	160001.8	USNTS SHFT			120	37.101N	116.001W	WR		ALVA	E
640822	221701.2	USNTS SHFT			120	37.004N	116.001W	WR		CANVASBAE	
640827		USNTS SHFT			120			WR		PLAYER	E
640828	170601.9	USNTS SHFT			120	37.030N	116.030W	WR		HADDOCK	E
640904	181501.8	USNTS SHFT			120	36.970N	116.050W	WR		GUANAY	E
640911		USNTS SHFT			120			WR		SPOON	E
640918	075957.2	CPNZ UNDG	4.3			73.200N	054.400E				N
640925		USNTS SHFT			120			JOINT US-UK		COURSER	E
641002	200300.6	USNTS SHFT	4.0		120	37.070N	116.010W	WR		AUK	E
641009	140002.6	USNTS SHFT	4.8		38	37.070N	116.130W	PS		PAR	E
641016	155930.5	TURNSTONE					126 NTS03	LANL			
641016	155930.5	USNTSYSS1			120	37.030N	115.970W	WR		TURNSTONE	
641016	155930.5	TURNSTONE					259 NTS03	LANL			
641016	155930.5	USNTSYSS2			120	37.030N	115.970W	WR		BARBEL	E
641016	070000.0	PCLNR TOWR			20						N
641016	2000	#HOOPOE					070 NTS03	LANL			
641016	2000	USNTSYSS1			120			WR		HOOPOE	E
641022	155959.2	USHTB SHFT	4.6		5.3	31.280N	089.440W	VU		SALMON	E
641023		USNTS SHFT			120			WR		GARDEN	E
641025	075958.3	CPNZ UNDG	4.9		48	73.390N	053.900E				N
641031	170458.0	USNTS SHFT			120	37.080N	116.080W	WR		FOREST	E
641105	150001.5	USNTS SHFT	4.8		12	37.110N	116.120W	PS		HANDCAR	E
641116	055958.0	CPKTS UNDG			88	49.800N	078.170E				N
641128	103000.0	FRECK TUNN			120	24.042N	005.042E	WR		TURQUOI	N
641205	211503.1	USNTS SHFT	4.8		20-200	37.080N	116.110W	WR		CREPE	E
641205	2115	DRILL (SOURCE-LOWER)*					190 NTS02	LLNL			
641205	2115	USNTSYSS1			3.4			WR		DRILL-S	E
641205	2115	DRILL (TARGET-UPPER)					220 NTS02	LLNL			
641205	2115	USNTSYSS2			120			WR		DRILL-T	E
641216		USNTS SHFT			120			WR		CASSOWARE	
641216	200000.0	USNTS SHFT			1.3	37.020N	116.004W	WR		PARROT	E
641216	201000.1	USNTS SHFT			2.7	37.001N	115.801W	WE		MUDPACK	E
641218	193500.1	USNTS SHFT			0.092	37.045N	116.203W	PS		SULKY	E
641223	1843	USNTSFSH?	2.8							**	N
650114	160000.7	USNTS SHFT			120	37.07N	116.04W	WR		WOOL	E
650116	055958.4	CPKTSBUNDG	5.8		100-150	49.935N	079.009E		SA		A
650129		USNTS SHFT			120			WR		TERN	E
650204	152959.7	USNTS SHFT			120	37.08N	116.10W	WR		CASHMERE	E

650212		USNTS SHFT		120				WR	ALPACA	E
650216	173001.6	USNTS SHFT		10.1	36.99N	116.00W		WR	MERLIN	E
650218	161847.3	USNTS SHFT		120	36.72N	115.94W		WE	WISHBONEE	
650219		USNTS SHFT		120				WR	SEERSUCKE	
650227	113000.0	FRECK TUNN	5.7	117	24.059N	005.031E		WR	SAPHIR	N
650303	191303.2	USNTS SHFT		20-200	37.01N	116.08W		WR	WAGTAIL	E
650303	061456.8	CPKTSDUNDG	5.5	120	49.824N	078.052E		GR		A
650320		USNTS SHFT		120				WR	SUEDE	E
650326	153410.6	USNTS SHFT		20-200	37.11N	116.09W		WR	CUP	E
650405	210003.3	USNTS SHFT		120	36.95N	116.08W		WR	KESTREL	E
650414	131402.6	USNTS CRAT		4.3	37.26N	116.54W		PS	PALANQUIE	
650421	220003.4	USNTS TUNN	5.0	120	36.97N	116.23W		WE	GUM DROPE	
650422		USNTS SHFT		120				WR	CHENILLEE	
650423	214400.0	USNTS SHFT	3.7	120	37.017N	115.995		WR	MUSCOVY	E
650507	154711.3	USNTS SHFT		120	37.14N	116.10W		WE	TEE	E
650511	063957.3	CPKTSDUNDG	4.9	120	49.770N	077.994E		GR		A
650512	18150.04	USNTS SHFT		120	37.2N	116.5W		WR	BUTEO	E
650514	173238.3	USNTS SHFT		120	37.07N	116.05W		WR	SCAUP	E
650514	145756.3	USNTS SHFT		0.75	36.84N	116.07W		WR	CAMBRIC	E
650514	020000.0	PCLNR AIRD		20-40						N
650521	130854.8	USNTS SHFT		120	37.07N	116.04W		WR	TWEED	E
650530	110000.0	FRECK TUNN		120	24.055N	005.051E		WR	JADE	N
650611	194500.4	USNTS SHFT		1.3	37.00N	116.05W		WR	PETREL	E
650611		USNTS SHFT		120				WR	ORGANDY	E
650616	163000.0	USNTS SHFT		120	36.83N	116.06W		WE	DILUTEDWE	
650617		USNTS TUNN		120				WE	TINY TOTE	
650617	034500.0	CPKTSDUNDG	5.2	120	49.828N	078.066E		GR		A
650716		USNTS SHFT		120				WR	IZZER	E
650722		USNTS SHFT		120				WR	PONGEE	E
650723	170002.0	USNTS SHFT	5.4	20-200	37.06N	116.03W		WR	BRONZE	E
650729	030500.2	CPKTSDUNDG	4.5	120	49.779N	077.998E		GR		A
650806	172330.8	USNTS SHFT		120	37.02N	116.11W		WR	MAUVE	E
650821		USNTS SHFT		120				WR	TICKING	E
650827	135113.1	USNTS SHFT		120	37.08N	116.04W		WR	CENTAUR	E
650901	200759.7#MOA					194 NTS03	LANL			
650901	200759.4	USNTSYSS1	4.2	120	36.99N	115.95W		WR	MOA	E
650901	200759.4#SCREAMER*					302 NTS03	LANL			
650901	200759.4	USNTSYSS2	4.2	120	36.99N	115.95W		WE	SCREAMERE	
650910	171202.1	GBNTS SHFT	5.1	20-200	36.98N	115.99W			CHARCOALE	
650917	040000.1	CPKTSDUNDG	5.2	120	49.811N	078.146E		QP		A
650917	150823.1	USNTS SHFT		120	37.06N	116.02W		WR	ELKHART	E
651001	100000.0	FRECK TUNN		120	24.065N	005.034E		WR	CORINDN	N
651008	060000.4	CPKTSDUNDG	5.4	120	49.825N	078.111E		QP		A
651029	210003.6	USAMC SHFT	5.8	80	51.61N	179.22E		VU	LONGSHOTE	
651112	180000.0	USNTS SHFT		120	37.03N	116.01W		WR	SEPIA	E
651121	045758.2	CPKTSDUNDG	5.6	23	49.860N	078.040E		GR		A
651123		USNTS SHFT		120				WR	KERMET	E
651201	103000.1	FRECK TUNN	4.9	10	24.044N	005.047E		WR	TOURMALIN	
651203	151304.5	USNTS SHFT	5.6	20-200	37.13N	116.02W		WR	CORDUROYE	
651216	153918.1	USNTS SHFT		120	37.08N	116.03W		WR	EMERSON	E
651216	191502.6	USNTS SHFT	5.3	20-200	37.02N	116.05W		WR	BUFF	E
651224	045958.2	CPKTSDUNDG	5.0	5.7	49.871N	078.135E		QP		A
651225	185955	USNTSYSH?	3.6		37.0N	116.3W			**	N
660113	153743.1	USNTS SHFT		120	37.17N	116.02W		WR	MAXWELL	E
660118		USNTS SHFT		120				WR	SIENNA	E
660118	183503.3	USNTS SHFT	5.2	20-200	37.10N	116.05W		WR	LAMPBLACE	
660121	182759.3	USNTS SHFT		120	37.03N	115.97W		WR	DOVEKIE	E
660122		USNTS SHFT		120				WR	REO	E

660203	181737.1	USNTS SHFT		120	37.07N	116.10W	WR		PLAID 2	E
660213	045757.5	CPKTSDUNDG	6.1	81	49.840N	078.158E		QP		A
660216	110000.0	FRECK TUNN	4.9	13	24.044N	005.041E	WR		GRENAT	N
660224	155510.5	USNTS SHFT	5.0	19	37.17N	116.42W	WR		REX	E
660305	181500.7	USNTS TUNN		120	37.15N	116.11W	WE		RED HOT	E
660307	184100.5	#CINNAMON						120 NTS03	LANL	
660307	184100.5	USNTSYSS1		120	36.94N	116.13W	WR			CINNAMONE
660307	184100.5	#FINFOOT*						196 NTS03	LANL, LLNL	
660307	184100.5	USNTSYSS2		120	36.94N	116.13W	WE			FINFOOT E
660312	180413.2	USNTS SHFT		120	37.08N	116.09W	WR			CLYMER E
660318	190002.7	USNTS SHFT		120	36.90N	116.15W	WR			PURPLE E
660320	054957.8	CPKTSDUNDG	6.0	61	49.720N	078.070E		QP		A
660324	145529.0	USNTS SHFT		120	37.05N	116.16W	PS			TEMPLAR E
660401	184001.1	USNTS SHFT		120	37.05N	115.88W	WR			LIME E
660406	135717.1	USNTS SHFT	4.4	120	37.08N	116.08W	WR			STUTZ E
660407	222730.0	USNTS SHFT		120	37.01N	115.59W	WR			TOMATO E
660414	141346.4	USNTS SHFT	5.4	70	37.20N	116.45W	WR			DURYEA E
660421	035757.5	CPKTSDUNDG	5.3	11	49.808N	078.135E		GR		A
660422	025804.0	CP UNDG	4.7	1.1	47.930N	047.690E				N
660423		USNTS SHFT		120			WR			FENTON E
660425	183803.3	USNTS SHFT	4.5	120	36.82N	115.96W	WE			PINSTRPEE
660429		USNTS SHFT		120			WR			OCHRE E
660504	133219.0	USNTS SHFT		120	37.17N	115.96W	WR			TRAVELR E
660505	140003.1	USNTS SHFT	4.4	12	37.03N	116.02W	WR			CYCLAMENE
660506	150003.1	USNTS SHFT	5.4	73	37.20N	116.19W	WR			CHARTREUE
660507	035758.0	CPKTSDUNDG	4.8	3.6	49.774N	078.149E		QP		A
660702	153400	FR ATMO			20S	140W				Z
660719	150500	FR ATMO			20S	140W				TAMOURE Z
660509	080000.0	PCLNR AIRD		200						N
660512	193726.0	USNTS SHFT	4.3	120	37.08N	116.04W	WR			TAPESTRYE
660513	133000.0	USNTS SHFT	5.6	20-200	37.05N	116.02W	WR			PIRANNA E
660519	135628.1	USNTS SHFT	5.9	20-200	37.06N	116.03W	WR			DUMONT E
660527	200003.0	USNTS SHFT	5.0	22	37.10N	116.05W	WE			DISCUSTHE
660602	153001.8	USNTS TUNN	5.6	62	37.21N	116.00W	WE			PILEDRIVE
660603	140002.2	USNTS SHFT	5.7	20-200	37.03N	116.01W	WR			TAN E
660610	143002.6	USNTS SHFT		120	36.98N	116.03W	WR			PUCE E
660615		USNTS TUNN		120			WE			DOUBLEPLE
660615		USNTS SHFT		20-200			WR			KANKAKEEE
660625	171259.6	USNTS SHFT		25	37.10N	116.10W	PS			VULCAN E
660629	065757.6	CPKTSDUNDG	5.6	23	49.847N	078.101E		GR		A
660630	221502.7	USNTS SHFT	6.1	365	37.32N	116.28W	WR			HALFBEAKE
660702	153400.0	FRMUR BARG		30			WR P			ALDEBAR N
660719	150500.0	FRFAN AIRD		60			WR P			TAMOURE N
660721	035757.5	CPKTSDUNDG	5.3	11	49.738N	078.140E		QP		A
660728	153332.5	USNTS SHFT		120	37.00N	115.89W	PS			SAXON E
660805	035757.9	CPKTSDUNDG	5.4	14	49.830N	078.050E		GR		A
660810	131603.0	USNTS SHFT		120	37.3N	116.0W	WR			ROVENA E
660812		USNTS		120			WR			TANGERINE
660819	035301.4	CPKTSDUNDG	5.1	7.3	50.500N	077.860E		QP		A
660907	035158.1	CPKTSDUNDG	4.8	3.6	49.940N	077.920E		GR		A
660911	173000.0	FRMUR BALN		120	20S	140W	WR P			BETELGEUN
660912	152959.8	USNTS SHFT	4.6	120	36.84N	115.92W	WE			DERRINGEE
660923	175958.5	USNTS SHFT		120	37.13N	116.02W	WR			DAIQUIRIE
660924	170000.0	FRFAN BARG		150			WRPB			RIGEL N
660929	144532.1	USNTS SHFT		120	37.12N	115.98W	WR			NEWARK E
660930	055952.8	CP UNDG	5.1	30	38.950N	064.540E				N
661004	210000.0	FRMUR BARG		300	20S	140W	WRPB			SIRIUS N
661015		USNTS SHFT		120			WR			KHAKI E

661019	035757.8	CPKTSDUNDG	5.6	23	49.770N	078.030E	GR		A
661027	011000.0	PCLNR ATMO		20+					N
661027	055757.9	CPNZ UNDG	6.3	422	73.400N	054.570E			N
661105	144501.2	USNTS SHFT		120	37.17N	115.96W	PS	SIMMS	E
661111	120000.7	USNTS SHFT		120	37.10N	116.00W	WR	AJAX	E
661118	150201.7	USNTS SHFT		120	37.00N	116.07W	WR	CERISE	E
661122		USNTS SHFT		120			WR	VIGIL	E
661203		USHTB SHFT		.380			VU	STERLNG	E
661203	050203.5	CPKTSDUNDG	4.8	3.6	49.720N	077.900E	GR		A
661213	210002.7	USNTS SHFT	4.6	120	36.82N	115.96W	WE	NEWPOINNE	
661213		USNTS SHFT		120			WR	SIDECAR	E
661218	045757.4	CPKTSMUNDG	5.8	38	49.922N	077.766E	PO		A
661220	153001.9	USNTS SHFT	6.3	870	37.32N	116.36W	WR	GREELEY	E
661228	040000.0	PCLNR TOWR		300+					N
670118		USNTS SHFT		120			WR	RIVET I	E
670119	164502.5	USNTS SHFT	5.3	20-200	37.14N	116.18W	WR	NASH	E
670120	174005.5	USNTS SHFT	5.3	20-200	37.08N	116.01W	WR	BOURBON	E
670126		USNTS SHFT		120			WR	RIVET IIE	
670130	040157.9	CPKTSDUNDG	4.8	3.6	49.900N	078.000E	QS		A
670208	151500.1	USNTS SHFT	4.6	120	37.19N	116.02W	WR	WARD	E
670226	035757.3	CPKTSDUNDG	6.0	61	49.750N	078.125E	QP		A
670302	150000.0	USNTS SHFT		120	37.09N	116.02W	WR	RIVET 3	E
670303		USNTS SHFT		120			WR	MUSHROOME	
670310		USNTS SHFT		120			WR	FIZZ	E
670325	055758.9	CPKTSDUNDG	5.3	11	49.780N	078.060E	GR		A
670404		USNTS SHFT		120			WR	OAKLAND	E
670406		USNTS SHFT		120			WR	HEILMAN	E
670407	150000.0	USNTS SHFT		120	37.054N	116.022W	WR	FAWN	E
670420	040757.6	CPKTSDUNDG	5.5	18	49.731N	078.148E	QP		A
670421	150900.0	USNTS SHFT		120	37.017N	116.038W	WR	CHOCOLATE	
670427	144500.0	USNTS SHFT		120	37.139N	116.064W	WR	EFFENDI	E
670510	134000.0	USNTS SHFT	4.9	20-200	37.078N	116.995W	WR	MICKEY	E
670520	150000.2	USNTS SHFT	5.8	250	37.130N	116.064W	WR	COMMODORE	
670523	140000.0	USNTS SHFT	5.7	155	37.275N	116.370W	WR	SCOTCH	E
670526		USNTS SHFT		120			WR	ABSINTHEE	
670526	150000.0	USNTS SHFT	5.4	76	37.248N	116.480W	WR	KNICKERBE	
670528	040757.7	CPKTSDUNDG	5.4	14	49.810N	078.110E	QP		A
670603	092059.0	CP UNDG	4.5	1.5	50.000N	077.000E			N
670605	190000.0	FRMUR BALN		1100	20S	140W	WR U	ALTAIR	N
670617	001907.9	PCLNR AIRD		3000					N
670622	131000.0	USNTS		120	37.126N	116.029W	PS	SWITCH	E
670626	160000.0	USNTS TUNN	5.1	120	37.202N	116.208W	WE	MIDI m	E
670627	193000.0	FRMUR BALN		1100	20S	140W	WR U	ANTARES	N
670629	112500.0	USNTS SHFT	4.6	120	37.029N	116.023W	WE	UMBER	E
670629	025657.8	CPKTSDUNDG	5.3	11	49.870N	078.100E	GR		A
670702	173000.0	FRMUR BALN		1100	20N	140W	WR U	ARCTURUSN	
670707	220000	FR ATMO		20N		140W			Z
670714		USNTS SHFT		120			WR	VITO	E
670715	032657.6	CPKTSDUNDG	5.4	14	49.880N	078.160E	QP		A
670727	130000.0	USNTS SHFT	5.0	20-200	37.149N	116.049W	WR	STANLEY	E
670804	065758.0	CPKTSDUNDG	5.3	11	49.820N	078.050E	GR		A
670804		USNTS SHFT		120			WR	GIBSON	E
670810	141000.0	USNTS SHFT		120	37.157N	116.047W	WR	WASHER	E
670818	201230.0	USNTS SHFT	4.6	120	37.012N	116.036W	WR	BORDEAUXE	
670824		USNTS SHFT		120			WR	LEXINGTOE	
670831	163000.0	USNTS TUNN	5.0	120	37.178N	116.209W	WE	DOOR m	E
670907	134500.0	USNTS SHFT	5.0	20-200	37.153N	116.053W	WR	YARD	E
670915		USNTS SHFT		120			WR	GILROY	E

670916	040357.8	CPKTSMUNDG	5.3	11	49.953N	077.756E	SA		A
670921	204500.0	USNTS SHFT		2.2	37.166N	116.038W	PS	MARVEL	E
670922	050357.4	CPKTSMUNDG	5.2	9.2	49.972N	077.726E	AL		A
670927	170000.0	USNTS SHFT	5.7	20-200	37.099N	116.053W	WR	ZAZA	E
671006	070002.5	CP UNDG	4.7	5.2	57.710N	065.220E			N
671017	050358.0	CPKTSDUNDG	5.6	23	49.800N	078.030E	GR		A
671018	143000.0	USNTS SHFT	5.7	20-200	37.116N	116.058W	WR	LANPHER	E
671021	045958.4	CPNZ UNDG	5.9	93	73.400N	054.420E			N
671025		USNTS SHFT		120			WR	COGNAC	E
671025		USNTS SHFT		120			WR	WORTH	E
671025	143000.6	USNTS SHFT		120	37.032N	116.026W	WR	SAZERAC	E
671030	060357.9	CPKTSDUNDG	5.3	11	49.810N	078.020E	GR		A
671108	150000.0	USNTS SHFT	5.1	120	37.092N	116.036W	WR	COBBLER	E
671122	040357.6	CPKTSMUNDG	4.8	3.6	49.980N	077.777E	AL		A
671206		USNTS SHFT		120			WR	POLKA	E
671208	060357.4	CPKTSDUNDG	5.4	14	49.880N	078.210E	QP		A
671210	193000.1	USFMT SHFT	4.8	29	36.678N	107.208W	PS	GASBUGGYE	
671215	150000.0	USNTS SHFT		120	37.367N	116.002W	WR	STILT	E
671224	040000.0	PCLNR AIRD		15-25					N
680118	034657.6	CPKTSDUNDG	5.1	7.3	49.740N	078.020E	GR		A
680118	163000.0	USNTS SHFT		7.4	37.146N	116.066W	WE	HUPMOBILE	
680119	150000.0	USNTS SHFT		20-200	37.156N	116.054W	WR	STACCATOE	
680119	181500.0	USCNV SHFT	6.3	200-1000	38.634N	116.215W	WR	FAULTLESE	
680124		USNTS SHFT		120			WR	BRUSH	E
680126	160000.0	USNTS CRAT		2.3	37.281N	116.514W	PS	CABRIOLEE	
680131		USNTS SHFT		120			WR	MALLET	E
680221		USNTS SHFT		120			WR	TORCH	E
680221	153000.0	USNTS SHFT	5.8	20-200	37.117N	116.054W	WR	KNOX	E
680229	170830.0	USNTS TUNN	5.0	120	37.018N	116.021W	WE	DORSLFINE	
680305		USNTS SHFT		120			WR	RUSSET	E
680312	170400.1	BUGGY-A				50 NTS30	LLNL		
680312	170400.1	USNTSBCRAT		1.08	37.008N	116.037W	PS	BUGGY-A	E
680312	170400.1	BUGGY-B				50 NTS30	LLNL		
680312	170400.1	USNTSBCRAT		1.08	37.008N	116.037W	PS	BUGGY-B	E
680312	170400.1	BUGGY-C				50 NTS30	LLNL		
680312	170400.1	USNTSBCRAT		1.08	37.008N	116.037W	PS	BUGGY-C	E
680312	170400.1	BUGGY-D				50 NTS30	LLNL		
680312	170400.1	USNTSBCRAT		1.08	37.008N	116.037W	PS	BUGGY-D	E
680312	170400.1	BUGGY-E				50 NTS30	LLNL		
680312	170400.1	USNTSBCRAT		1.08	37.008N	116.037W	PS	BUGGY-E	E
680314		USNTS SHFT		1.5			WR	POMMARD	E
680322	150000.0	USNTS SHFT	5.6	20-200	37.333N	116.311W	WR	STINGER	E
680325	184427.0	USNTS SHFT		120	36.872N	115.931W	WE	MILKSHKEE	
680404		USNTS SHFT		120			WR	BEVEL	E
680410	140000.0	THROW				231 NTS02	LLNL		
680410	140000.0	USNTSYSS1	4.6	120	37.154N	116.079W	WR	THROW	E
680410	140000.0	#NOOR				382 NTS02	LLNL	2	
680410	140000.0	USNTSYSS2	4.6	20-200	37.154N	116.079W	WR	NOOR	E
680418	140500.0	USNTS SHFT	4.9	20-200	37.153N	116.037W	WR	SHUFFLE	E
680423	170130.0	USNTS SHFT		120	37.338N	116.376W	VU	SCROLL	E
680424	103557.3	CPKTSDUNDG	5.0	5.7	49.840N	078.070E	QP		A
680426	150000.1	USNTS SHFT	6.2	1300	37.295N	116.456W	WR	2	BOXCAR EN
680503		USNTS SHFT		120			WR	HATCHET	E
680508		USNTS SHFT		120			WR	CROCK	E
680517	130000.0	USNTS SHFT	4.7	20-200	37.120N	116.059W	WR	CLRKSMOBE	
680521	035910.0	CP UNDG	5.4	47	38.890N	065.100E			N
680528		USNTS SHFT		120			WR	ADZE	E
680605		USNTS SHFT		120			WR	WEMBLEY	E

681212	151000.1	TYG-A				198	NTS02	LLNL				
681212	151000.1	USNTSYSS1		120	37.119N	116.082W	WR		TYG-A	E		
681212	151000.1	TYG-B				207	NTS02	LLNL				
681212	151000.1	USNTSYSS2		120	37.119N	116.082W	WR		TYG-B	E		
681212	151000.1	TYG-C				228	NTS02	LLNL				
681212	150000.1	USNTSYSS3		120	37.119N	116.082W	WR		TYG-C	E		
681212	150000.1	TYG-D				228	NTS02	LLNL				
681212	150000.1	USNSTYSS4		120	37.119N	116.082W	WR		TYG-D	E		
681212	150000.1	TYG-E				251	NTS02	LLNL				
681212	150000.1	USNTSYSS5		120	37.119N	116.082W	WR		TYG-E	E		
681212	150000.1	TYG-F				265	NTS02	LLNL				
681212	150000.1	USNTSYSS6		120	37.119N	116.082W	WR		TYG-F	E		
681212		USNTS SHFT		120			WR		BAY LEAFE			
681212		USNTS SHFT		120			WR		SCISSORSE			
681218	050157.1	CPKTSDUNDG	5.0		5.7	49.720N	078.120E	GR		A		
681219	163000.0	USNTS SHFT	6.3		1150	37.231N	116.474W	WR 2	BENHAM	EN		
681227	073000.0	PCLNR AIRD			3000					N		
690115	190000.1	USNTS SHFT			10.0	37.148N	166.066W	WE	PACKARD	E		
690115	193000.0	USNTS SHFT	5.3		20-200	37.209N	116.225W	WR	WINESKINE			
690122		USNTS SHFT			120			WR	SHAVE	E		
690130		USNTS SHFT			120			WR	BIGGIN	E		
690130	150000.0	USNTS SHFT	4.9		20-200	37.053N	116.029W	WR	WISE	E		
690204		USNTS SHFT			120			WR	NIPPER	E		
690204		USNTS SHFT			120			WR	WINCH	E		
690212	161820.1	USNTS TUNN			120	37.169N	116.211W	WE	CYPRESS	E		
690307	082657.6	CPKTSDUNDG	5.6		23	49.840N	078.150E	GR		A		
690318		USNTS SHFT			120			WR	VALISE	E		
690318		USNTS SHFT			120			WR	CHATTY	E		
690320	181200.0	USNTS SHFT	4.4		120	37.022N	116.030W	WR	BARSAC	E		
690321	143000.0	USNTS SHFT	4.9		1100	37.080N	116.087W	WR	COFFER	E		
690424		USNTS SHFT			120			WR	GOURD	E		
690424	130400.2	GOURD-AMBER						181	NTS02	LLNL		
690424	130400.2	USNTSYSS1	3.8		120	37.002N	116.000W	WR	GOURD-AME			
690424	130400.2	GOURD-BROWN						227	NTS02	LLNL		
690424	130400.2	USNTSYSS2			120	37.002N	116.000W	WR	GOURD-BRE			
690430	170000.0	USNTS SHFT			20-200	36.081N	116.013W	WR	THISTLE	E		
690430	170000.0	USNTS SHFT			20-200	36.081N	116.013W	WR	BLENTON	E		
690507	134500.0	USNTS SHFT	5.5		20-200	37.238N	116.500W	WR	PURSE	E		
690515		USNTS SHFT			120			WR	ALIMENT	E		
690516	040257.3	CPKTSDUNDG	5.2		9.2	49.780N	078.160E	GR		A		
690527		USNTS SHFT			120			WR	IPECAC	E		
690527	1300	IPECAC-A						124	NTS03	LANL		
690527	1300	USNTSYSS1			120			WR	IPECAC-AE			
690527	1300	IPECAC-B						124	NTS03	LANL		
690527	1300	USNTSYSS2			120			WR	IPECAC-BE			
690527	141500.0	USNTS SHFT	5.0		20-200	37.076N	115.995W	WR	TORRIDO	E		
690531	050156.8	CPKTSMUNDG	5.3		11	49.967N	077.728E	AL		A		
690612	140000.0	USNTS SHFT	4.5		120	37.053N	116.030W	WR	TAPPER	E		
690626		USNTS SHFT			120			WR	BOWL	E		
690626	1500	BOWL-1	4.0					198	NTS02	LLNL		
690626	1500	USNTSYSS1			120			WR	BOWL-1	E		
690626	1500	BOWL-2						198	NTS02	LLNL		
690626	1500	USNTSYSS2			120			WR	BOWL-2	E		
690704	024657.3	CPKTSDUNDG	5.2		9.2	49.760N	078.200E	QP		A		
690716	130230.0	USNTS SHFT	4.6		20-200	37.119N	116.055W	WR	ILDRIM	E		
690716	145500.0	USNTS SHFT	5.5		20-200	37.139N	116.088W	WR	HUTCH	E		
690723	024657.6	CPKTSDUNDG	5.4		14	49.817N	078.170E	QP		A		
680814	1330	SPIDER-A						207	NTS02	LLNL		

690814	1330	USNTSYSS1			120			WR		SPIDER-AE
690814	1330	SPIDER-B					229	NTS02	LLNL	
690814	1330	USNTSYSS2			120			WR		SPIDER-BE
690827	134500.0	USNTS SHFT			120	37.021N	116.038W	WR		PLIERS E
690827		USNTS SHFT			120			WR		HOREHOUNE
690902	050000.0	CP UNDG	4.9		8	57.500N	054.700E			N
690908	045955.0	CP UNDG	4.9		8	57.300N	056.000E			N
690910		USGRV SHFT			40			PS		RULISON E
690911	040157.5	CPKTSDUNDG	5.0		5.7	49.770N	078.030E		GR	A
690912	180223.4	USNTS SHFT			120	36.877N	115.929W	WE		MINUTESTE
690916	143000.4	USNTS SHFT	6.1		11000	37.314N	116.461W	WR		JORUM E
690920		USNTS SHFT			120			WR		KYACK E
690920	1330	KYACK-A					186	NTS02	LLNL	
690920	1330	USNTSYSS1			120			WR		KYACK-A E
690920	1330	KYACK-B					192	NTS02	LLNL	
690920	1330	USNTSYSS2			120			WR		KYACK-B E
690922	161458.8	PCLNR TUNN	5.1		25	41.383N	088.300E			
690926	070000.0	CP UNDG	5.0		5.7	46.000N	042.400E			N
690929	084026.0	PCLNR AIRD			3000					N
691001	040257.7	CPKTSDUNDG	5.2		9.2	49.810N	078.180E		GR	A
691001		USNTS SHFT			120			WR		SEAWEED E
691001		USNTS SHFT			120			WR		SEAWEED-E
691001	1330	SEAWEED-D					118	NTS03	LANL	
691001	1330	USNTSYSS1			120			WR		SEAWEED-E
691001	1330	SEAWEED-C					119	NTS03	LANL	
691001	1330	USNTSYSS2			120			WR		SEAWEED-E
691001	1330	SEAWEED-E					125	NTS03	LANL	
691001	1330	USNTSYSS3			120			WR		SEAWEED-E
691002		USAMC SHFT			1000			WR 2		MILROW EN
691008	143000.1	USNTS SHFT	5.6	200-1000	1000	37.257N	116.441W	WR		PIPKIN E
691014	070006.4	CPNZ UNDG	6.0		140	73.390N	054.500E			N
691020	090902.0	CP UNDG	3.7		.09	48.100N	047.800E			N
691028	143458.1	USNTSPSH?	2.9			37.003N	116.004W			** N
691029	193000.0	USNTS SHFT			11	37.121N	116.128W	WR		CRUET E
691029	200000.0	POD-B					171	NTS02	LLNL	
691029	200000.0	USNTSYSS1			120	37.141N	116.142W	WR		POD-B E
691029	200000.0	POD-A					248	NTS02	LLNL	
691029	200000.0	USNTSYSS2			120	37.141N	116.142W	WR		POD-A E
691029	200000.0	POD-D					267	NTS02	LLNL	
691029	200000.0	USNTSYSS3			120	37.141N	116.142W	WR		POD-D E
691029	200000.0	POD-C					312	NTS02	LLNL	
691029	200000.0	USNTSYSS4			120	37.141N	116.142W	WR		POD-C E
691029	220151.4	USNTS SHFT	5.6		110	37.143N	116.063W	WR		CALABASHE
691113	151520.2	USNTS SHFT	3.5		120	37.17N	116.09W	WR		SCUTTLE E
691121		USNTS SHFT			120			WR		PLANER E
691121	145200.0	USNTS SHFT	5.0	20-200	200	37.031N	116.002W	WR		PICCALILE
691130	033257.1	CPKTSBUNDG	5.9		54	49.913N	078.961E		CO	A
691205	170000.0	USNTS TUNN	4.9		120	37.180N	116.211W	WE		DIESLTRAE
691206	070257.5	CP UNDG	5.8		70	43.790N	054.750E			N
691210		USNTS SHFT			120			WR		CULANTROE
691210	150000.0	CULANTRO-A					134	NTS03	LANL	
691210	150000.0	USNTSYSS1			120			WR		CULANTROE
691210	150000.0	CULANTRO-B					149	NTS03	LANL	
691210	150000.0	USNTSYSS2			120			WR		CULANTROE
691210		USNTS SHFT			120			WR		TUN E
691210	153003.7	TUN-B					194	NTS10	LLNL	
691210	153003.7	USNTSYSS1			120			WR		TUN-B E
691210	153003.7	TUN-C					194	NTS10	LLNL	

691210	153003.7	USNTSYSS2		120				WR		TUN-C	E
691210	153003.7	TUN-A				200	NTS10	LLNL			
691210	153003.7	USNTSYSS3		120				WR		TUN-A	E
691210	153003.7	TUN-D				256	NTS10	LLNL			
691210	153003.7	USNTSYSS4		120				WR		TUN-D	E
691217	150000.0	USNTS SHFT	5.4	20-200	37.084N	116.002W		WR		GRAPE A	E
691217		USNTS SHFT		120				WR		LOVAGE	E
691218	190000.0	TERRINE-YELLOW				419	NTS09	LLNL			
691218	190000.0	USNTSYSS1	5.2	20-200	37.121N	116.035W		WR		TERRINE-E	
691218	190000.0	TERRINE-WHITE				462	NTS09	LLNL			
691218	190000.0	USNTSYSS2	5.2	20-200	37.121N	116.035W		WR		TERRINE-E	
691228	034657.6	CPKTSMUNDG	5.7	30	49.954N	077.748E			AL		A
691229	040158.1	CPKTSDUNDG	5.5	7.3	49.790N	078.000E			QP		A
701223	163000.2	FOB-BLUE				101	NTS09	LLNL			
700123	163000.2	USNTSYSS1		120	37.137N	116.037W		WR		FOB-BLUEE	
700123	163000.2	FOB-RED				245	NTS09	LLNL			
700123	163000.2	USNTSYSS2		120	37.137N	116.037W		WR		FOB-RED E	
700123	163000.2	FOB-GREEN				267	NTS09	LLNL			
700123	163000.2	USNTSYSS3		120	37.137N	116.037W		WR		FOB-GREEE	
700129	070257.5	CPKTSDUNDG	5.5	18	49.813N	078.185E			PO		A
700130		USNTS SHFT		120				WR		AJO	E
700204		USNTS SHFT		120				WR		BELEN	E
700204	170000.4	USNTS SHFT	5.6	20-200	37.098N	116.027W		WR		GRAPE B	E
700205	150000.4	USNTS SHFT	4.6	25	37.164N	116.039W		WR		LABIS	E
700211	191500.4	USNTS TUNN	4.7	120	37.201N	116.205W		WE		DIANA m	E
700225	142838.4	USNTS SHFT	5.2	20-200	37.037N	116.000W		WR		CUMARIN	E
700226	153000.4	YANNIGAN-BLUE				351	NTS02	LLNL			
700226	153000.4	USNTSYSS1	5.3	20-200	37.116N	116.061W		WR		YANNIGANE	
700226	153000.4	YANNIGAN-WHITE				381	NTS02	LLNL			
700226	153000.4	USNTSYSS2	5.3	20-200	37.116N	116.061W		WR		YANNIGANE	
700226	153000.4	YANNIGAN-RED				389	NTS02	LLNL			
700226	153000.4	USNTSYSS3		20-200	37.116N	116.061W		WR		YANNIGANE	
700306	142400.3	USNTS SHFT	4.3	8.7	37.023N	116.092W		WR		CYATHUS	E
700306	150000.2	ARABIS-BLUE				101	NTS09	LLNL			
700306	150000.2	USNTSYSS1		120	37.140N	116.037W		WR		ARABIS-BE	
700306	150000.2	ARABIS-RED				250	NTS09	LLNL			
700306	150000.2	USNTSYSS2		120	37.140N	116.037W		WR		ARABIS-RE	
700306	150000.2	ARABIS-GREEN				250	NTS09	LLNL			
700306	150000.2	USNTSYSS3		120	37.140N	116.037W		WR		ARABIS-GE	
700319	140330.4	USNTS SHFT		120	37.001N	116.023W		WR		JAL	E
700323	230500.4	USNTS SHFT	5.5	20-200	37.086N	116.021W		WR		SHAPER	E
700326	190002.0	USNTS SHFT	6.4	1900	37.300N	116.534W		WR	2	HANDLEY	EN
700327	050257.0	CPKTSDUNDG	5.0	5.7	49.770N	078.110E			GR		A
700421	143000.4	USNTS SHFT	4.4	120	37.055N	115.988W		WE		SNUBBER	E
700421	150000.4	CAN-GREEN				274	NTS02	LLNL			
700421	150000.4	USNTSYSS1	4.6	120	37.099N	116.080W		WR		CAN-GREEE	
700421	150000.4	CAN-RED				399	NTS02	LLNL			
700421	150000.4	USNTSY	4.6	20-200	37.099N	116.080W		WR		CAN-RED E	
700501	134000.2	HOD-B(RED)				241	NTS09	LLNL			
700501	141300.4	USNTS SHFT		120	37.059N	116.028W		WR		BEEBALM	E
700501	144000.2	USNTSYSS1	4.3	120	37.133N	116.034W		WR		HOD-B(REE	
700501	144000.2	HOD-A(GREEN)				265	NTS09	LLNL			
700501	144000.2	USNTSYSS2	4.3	120	37.133N	116.034W		WR		HOD-A(GRE	
700505	153000.2	USNTS TUNN	5.0	120	37.211N	116.184W		WE		MINTLEAFE	
700512	140000.4	USNTS TUNN		120	37.010N	116.202W		VU		d DUST	E
700515	133000.2	CORNICE-YELLOW				390	NTS10	LLNL			
700515	133000.2	USNTSYSS1	5.1	20-200	37.162N	116.039W		WR		CORNICE-E	
700515	133000.2	CORNICE-GREEN				444	NTS10	LLNL			

700515	133000.2	USNTSYSS2	5.1	20-200	37.162N	116.039W	WR	CORNICE-E
700515	180000.0	FRMUR BALN		20-200	20S	140W	WR	ANDROME N
700521	140000.4	USNTS SHFT		120	37.029N	115.992W	WR	MANZANASE
700521	141500.4	USNTS SHFT	5.1	20-200	37.071N	116.013W	WR	MORRONESE
700522	183000.0	FRMUR BALN		20-200	20S	140W	WR	CASSIOPEN
700523	053259.0	CP UNDG	3.5	1	48.100N	047.800E		N
700524	124147.0	CP UNDG	3.6	2	48.100N	047.800E		N
700526	140000.0	FLASK-RED				152 NTS02	LLNL	
700526	140000.0	USNTSYSS1		120			PS	FLASK-REE
700526	140000.0	FLASK-YELLOW				335 NTS02	LLNL	
700526	140000.0	USNTSYSS2		120			PS	FLASK-YEE
700526	140000.0	FLASK-GREEN				529 NTS02	LLNL	
700526	140000.0	USNTSYSS3		105			PS	FLASK-GRE
700526	141600.2	USNTS TUNN		120	37.183N	116.213W	WE	HUDSONMOE
700526	150000.5	USNTS SHFT	5.5	105	37.113N	116.062W	PS	FLASK E
700527	040257.0	CPKTSDUNDG	3.8	2	48.300N	078.200E	QP	A
700528		USNTS SHFT		120			WR	PITON A E
700528		USNTS SHFT		120			WR	PITON E
700528	110000.0	PITON-B				230 NTS09	LLNL	
700528	110000.0	USNTSYSS1		120			WR	PITON-B E
700528	110000.0	PITON-A				236 NTS09	LLNL	
700528	110000.0	USNTSYSS2		120			WR	PITON-A E
700528	120000.3	USNTS			37.2N	116.0W		** N
700529	031735.0	CP UNDG	3.6	1	48.100N	047.800E		N
700530	175958.5	FR BALN	4.7	g1000	22.16S	138.84W	WR	DRAGON N
700624	183000.0	FRMUR BALN		LOW	20S	140W	WR	ERIDAN N
700625	045952.4	CP UNDG	4.9	8.4	52.200N	055.700E		N
700626	120000.0	ARNICA-VIOLET				264 NTS02	LLNL	
700626	120000.0	USNTSYSS1		120			WR	ARNICA-VE
700626	120000.0	ARNICA-YELLOW				309 NTS02	LLNL	
700626	120000.0	USNTSYSS2		120			WR	ARNICA-YE
700626	130000.4	USNTS SHFT		20-200	37.114N	116.086W	WR	ARNICA E
700628	015757.7	CPKTSDUNDG	5.7	30	49.830N	078.220E	GR	A
700703	182959.1	FR BALN	4.0	1000	21.800S	139.200W	WR	LICORNE N
700721	030257.2	CPKTSMUNDG	5.4	14	49.953N	077.701E	SA	A
700724	035657.6	CPKTSDUNDG	5.3	11	49.820N	078.180E	QP	A
700727	190000.0	FRMUR BALN		LOW	20S	140W	WR	PEGASE N
700802	190000.0	FRFAN BALN		20-200	20S	140W	WR	ORION N
700806	190000.0	FRMUR BALN		20-200	20S	140W	WR	TOUCAN N
700906	040257.5	CPKTSDUNDG	5.4	14	49.780N	078.046E	GR	A
701013		USNTS SHFT		120			WR	SCREE E
701013	140500.0	SCREE-ALHAMBRA				101 NTS09	LLNL	
701013	140500.0	USNTSYSS1		120			WR	SCREE-ALE
701013	140500.0	SCREE-CHAMOIS				192 NTS09	LLNL	
701013	140500.0	USNTSYSS2		120			WR	SCREE-CHE
701013	140500.0	SCREE-ACAJOU				249 NTS09	LLNL	
701013	140500.0	USNTSYSS3		120			WR	SCREE-ACE
701013	150000.2	USNTSYSH?	3.9		37.18N	115.95W		** N
701014	055957.3	CPNZ UNDG	6.6	1001	73.310N	054.890E		N
701014	072958.9	PCLNR AIRD		3000				
701014	143000.4	USNTS SHFT	5.5	20-200	37.071N	116.005W	WR	TIJERAS E
701028		USNTS SHFT		120			WR	TRUCHAS E
701028	143000.0	TRUCHAS-CHAMISAL				118 NTS03	LANL	
701028	143000.0	USNTSYSS1		120			WR	TRUCHAS-E
701028	143000.0	TRUCHAS-CHACON				119 NTS03	LANL	
701028	143000.0	USNTSYSS2		120			WR	TRUCHAS-E
701028	143000.0	TRUCHAS-RODARTE				266 NTS03	LANL	
701028	143000.0	USNTSYSS3		120			WR	TRUCHAS-E

701104	060257.2	CPKTSMUNDG	5.4	14	50.007N	077.798E	PO		A
701105	150000.0	USNTS SHFT	4.9	20-200	37.029N	116.012W	WR	ABEYTAS	E
701119		USNTS SHFT		120			WR	PENASCO	E
701203	150700.0	CORAZON				241	NTS03 LANL		
701203	150700.0	USNTSYSS1	3.1	120			WR	CORAZON	E
701203	150700.0	CARRIZOZO				279	NTS03 LANL		
701203	150700.0	USNTSYSS2	3.1	120			WR	CARRIZOZE	
701212	070057.4	CP UNDG	6.0	113	43.870N	054.780E			N
701216		USNTS SHFT		120			WR	CANJILONE	
701216	160000.9	USNTS SHFT	5.2	20-200	37.100N	116.008W	WR	ARTESIA	E
701216	160000.2	AVENS-CREAM				293	NTS09 LLNL		
701216	160000.2	USNTSYSS1	5.1	120	37.143N	116.034W	WR	AVENS-CRE	
701216	160000.2	AVENS-ASAMLTE				306	NTS09 LLNL		
701216	160000.2	USNTSYSS2	5.1	120	37.143N	116.034W	WR	AVENS-ASE	
701216	160000.2	AVENS-ANDORRE				311	NTS09 LLNL		
701216	160000.2	USNTSYSS3	5.1	120	37.143N	116.034W	WR	AVENS-ANE	
701216	160000.2	AVENS-ALKERMES				380	NTS09 LLNL		
701216	160000.2	USNTSYSS4	5.1	120	37.143N	116.034W	WR	AVENS-ALE	
701217	160500.2	USNTS SHFT	5.8	220	37.129N	116.083W	WR	CARPETBAE	
701217	070057.7	CPKTSDUNDG	5.4	14	49.730N	078.170E	GR		A
701218	153000.2	USNTS SHFT	5.1	10	37.173N	116.099W	WR	BANEBERRE	
701223	070057.3	CP UNDG	6.0	113	43.810N	054.820E			N
710322	043257.8	CPKTSDUNDG	5.7	30	49.791N	078.142E	GR		A
710323	065956.4	CP UNDG	5.5	45	61.390N	056.220E			A
710425	033257.5	CPKTSDUNDG	5.9	53	49.774N	078.074E	GR		A
710429	190000.0	USNTS SHFT		20-200	37.12N	116.33W	WR	CHEM?	MINETHROE
710525	040258.0	CPKTSDUNDG	5.0	6.0	49.815N	078.197E	GR		A
710605	191500.0	FRMUR ATMO		15	20S	140W	WR	DIONE	N
710606	040257.2	CPKTSMUNDG	5.4	17	49.988N	077.720E	AL		A
710612	191500.0	FRMUR ATMO		450-500	23.8S	137.2W	WR	ENCELADEN	
710616	145000.0	USNTS SHFT	4.1	120	37.03N	116.02W	WR	EMBUDO	E
710619	040357.7	CPKTSMUNDG	5.4	15	49.992N	077.705E	PO		A
710623		USNTS SHFT		120			WR	DEXTER	E
710623	153000.0	USNTS SHFT		20-200	37.02N	116.02W	WR	LAGUNA	E
710624	140000.0	USNTS SHFT	4.9	20-200	37.15N	116.07W	WR	HAREBELLE	
710629	182957.3	USNTS TUNN	4.9	120	36.6N	115.8W	WE	CAMPHOR	E
710630	035657.3	CPKTSBUNDG	5.2	11	49.949N	078.986E	CO		A
710701	140000.0	USNTS TUNN		120	37.01N	116.20W	VU	d MINE	E
710702	170001.9	CP UNDG	4.7	5.2	67.660N	062.000E			N
710704	213000.0	FRMUR ATMO		1100	20S	140W	WR	JAPET	N
710708	140000.1	USNTS SHFT	5.5	83	37.11N	116.05W	PS	MINIATA	E
710709		USNTS SHFT		120			WR	BRACKEN	E
710710	165959.6	CP UNDG	5.2	17	64.200N	054.770E			N
710721		USNTS SHFT		120			WR	APODACA	E
710804		USNTS SHFT		120			WR	BARRANCAE	
710805		USNTS SHFT		120			WR	NAMA	E
710805	170700.0	NAMA-MEPHISTO				244	NTS09 LLNL		
710805	170700.0	USNTSYSS1		120			WR	NAMA-MEPE	
710805	170700.0	NAMA-AMARYLIS				273	NTS09 LLNL		
710805	170700.0	USNTSYSS2		120			WR	NAMA-AMAE	
710806		USNTS SHFT		120			WR	BALTIC	E
710808	183000.0	FRMUR ATMO		1100	20S	140W	WR	PHOEBE	N
710814	185959.2	FR BALN	4.7	1000	21.880S	139.000W	WR	RHEA	N
710818	140000.0	USNTS SHFT	5.4	20-200	37.1N	116.0W	WR	ALGODONEE	
710919	110006.8	CP UNDG	4.5	3.3	57.760N	041.440E			N
710922		USNTS SHFT		120			WR	FRIJOLESE	
710922	130000.0	FRIJOLES-ESPUELA				149	NTS03 LANL		
710922	130000.0	USNTSYSS1		120			WR	FRIJOLESE	

710922	130000.0	FRIJOLES-DEMING				150	NTS03	LANL			
710922	130000.0	USNTSYSS2						WR			FRIJOLESE
710922	130000.0	FRIJOLES-PETACA				226	NTS03	LANL			
710922	130000.0	USNTSYSS3						WR			FRIJOLESE
710922	130000.0	FRIJOLES-GUAJE				257	NTS03	LANL			
710922	130000.0	USNTSYSS4						WR			FRIJOLESE
710927	060257.4	CPNZ UNDG	6.4		586	73.390N	054.910E				N
710929	140000.0	USNTS SHFT				120	37.01N	116.01W	WR		PEDERNALE
710929		USNTS SHFT				120			WR		CHANTILLE
711004	100002.0	CP UNDG	4.6		4.1	61.610N	047.220E				N
711008	143000.2	USNTS SHFT				120	37.12N	116.03W	WR		CATHAY E
711009	060257.4	CPKTSMUNDG	5.3		12	49.996N	077.653E			AL	N
711014		USNTS SHFT				120			WR		LAGOON E
711021	060257.4	CPKTSMUNDG	5.5		19	50.001N	077.629E			SA	A
711022	050000.6	CP UNDG	5.2		17	51.610N	054.450E				N
711106		USAMC SHFT				15000				WR 2	CANNIKN EN
711118	060000.0	PCLNR ATMO				20					N
711124	201500.2	USNTS SHFT				120	36.7N	116.9W	WE		DIAGONALE
711129	060257.5	CPKTSDUNDG	5.4		16	49.758N	078.132E			GR	A
711130		USNTS SHFT				120			WR		PARNASSIE
711214		USNTS SHFT				120			WR		HOSPAH E
711214		USNTS SHFT				120			WR		YERBA E
711214	210957.7	USNTS SHFT			20-200	37.01N	116.06W		WR		CHAENACTE
711215	075258.9	CPKTSDUNDG	4.9		4.5	50.031N	077.972E			GR	A
711222	065956.5	CP UNDG	6.0		57	47.900N	048.070E				N
711230	062057.8	CPKTSDUNDG	5.7		36	49.772N	078.093E			GR	A
720101	070000.0	PCLNR ATMO				120					N
(above may be 720107)											
720105		USNTS SHFT				120				WR	MESCALERE
720203		USNTS SHFT				120				WR	COWLES E
720210	050257.5	CPKTSBUNDG	5.3		13	50.014N	078.878E			AL	A
720217		USNTS SHFT				120				WR	DIANTHUSE
720310	045657.4	CPKTSDUNDG	5.4		15	49.752N	078.142E			QP	A
720318	060000.0	PCLNR ATMO			20-200						N
720323		USNTS SHFT				120				WR	SAPPHO E
720328	042157.6	CPKTSDUNDG	5.1		8.0	49.740N	078.130E			QP	A
720330	210001.2	OCATE								210 NTS03 LANL	
720330	210001.2	USNTSYSS1	4.6			120	37.0N	116.0W	WR		OCATE E
720330	210001.2	ONAJA								279 NTS03 LANL	
720330	210001.2	USNTSYSS2	4.6			120	37.0N	116.0W	WR		ONAJA E
720411	060002.9	CP UNDG	4.9		8.4	37.360N	062.070E				N
720419		USNTS SHFT				120				WR	JICARILLE
720419	163200.0	USNTS SHFT				120	37.12N	116.08W	WR		LONGCHAME
720502	191501.8	USNTS TUNN	5.0			120	37.2N	116.2W	WE		y NORTH E
720510	120000.0	USNTS SH?					37.01N	116.20W			MINEDUSTI
720511		USNTS SHFT				120				WR	KARA E
720517	141000.2	USNTS SHFT				120	37.12N	116.09W	WR		ZINNIA E
720519	170000.0	USNTS SHFT				120	37.06N	116.00W	WR		MONERO E
720522	232856	USNTS SH?					37.12N	116.33W			THROW 1 I
720523	221538	USNTS SH?					37.12N	116.33W			THROW 2 I
720524	212119	USNTS SH?					37.12N	116.33W			THROW 3 I
720525	203059	USNTS SH?					37.12N	116.33W			THROW 4 I
720526	191542	USNTS SH?					37.12N	116.33W			THROW 5 I
720607	012757.4	CPKTSDUNDG	5.4		14	49.808N	078.093E			QP	A
720607		USNTS SHFT				120				WR	MERIDA E
720625		FRMUR ATMO				LOW	20S	140W		WR	UMBRIEL N
720628		USNTS SHFT				120				WR	CAPITAN E
720628		USNTS SHFT				120				WR	HAPLOPAPE

720628		USNTS SHFT		120				WR		TAJIQUE	E
720630		FRMUR ATMO		LOW	20S	140W		WR		TITANIA	N
720706	010259.9	CPKTS DUNDG	4.4	1.5	49.781N	078.093E			QP		A
720709	065957.9	CP UNDG	4.8	6.6	49.780N	035.450E					N
720714	145949.0	CP UNDG	3.6	.10	49.990N	046.440E					N
720720	171600.2	USNTS TUNN	4.9	120	37.22N	116.18W		WE		d SKULLSE	
720725		USNTS SHFT		120				WR		ATARQUE	E
720729		FRMUR ATMO		LOW	20S	140W		WR			N
720809	123100.0	SOLANO				134 NTS03		LANL			
720809	123100.0	USNTSYSS1		120				WR		SOLANO	E
720809	123100.0	CUCHILLO				199 NTS03		LANL			
720809	123100.0	USNTSYSS2		120				WR		CUCHILLOE	
720809	123100.0	CEBOLLA				287 NTS03		LANL			
720809	123100.0	USNTSYSS3		120				WR		CEBOLLA	E
720816	031657.5	CPKTS DUNDG	5.1	7.8	49.770N	078.113E			GR		A
720820	025957.8	CP UNDG	5.7	55	49.400N	048.060E					N
720826	034657.2	CPKTS MUNDG	5.3	13	49.993N	077.773E			AL		A
720828	055956.7	CPNZ UNDG	6.3	329	73.390N	054.650E					N
720902	085657.5	CPKTS MUNDG	4.8	4.3	49.950N	077.660E			SA		A
720904	070004.4	CP UNDG	4.6	4.1	67.730N	033.090E					N
720921	090001.4	CP UNDG	5.0	10	52.190N	051.940E					N
720921	153000.2	USNTS SHFT	4.3	20-200	37.08N	116.04W		WR		OSCURO	E
720926	143000.2	USNTS SHFT	4.4	15	37.12N	116.09W		WR		DELPHINIE	
721003	085957.8	CP UNDG	5.6	44	46.660N	044.870E					N
721102	012657.6	CPKTS BUNDG	6.1	126	49.923N	078.815E			AL		A
721109		USNTS SHFT		120				WR		AKBAR	E
721109		USNTS SHFT		120				WR		ARSENATEE	
721117		USNTS SHFT		120				WR		CANNA	E
721117	180000.0	CANNA-UMBRINUS				183 NTS09		LLNL			
721117	180000.0	USNTSYSS1		120				WR		CANNA-UME	
721117	180000.0	CANNA-LIMOGES				213 NTS09		LLNL			
721117	180000.0	USNTSYSS1		120				WR		CANNA-LIE	
721124	090002.8	CP UNDG	4.5	3.3	52.140N	051.830E					N
721124	095958.0	CP UNDG	5.2	17	51.850N	064.180E					N
721210	042657.6	CPKTS DUNDG	5.6	23	49.837N	078.102E			GR		A
721210	042707.3	CPKTS BUNDG	5.9	59	50.001N	078.973E			TS		A
721212		USNTS SHFT		120				WR		TULOSO	E
721214		USNTS SHFT		120				WR		SOLANUM	E
721221	201500.0	FLAX-TEST				436 NTS02		LLNL			
721221	201500.0	USNTSYSS1		20-200				WE		FLAX-TESE	
721221	201500.0	FLAX-BACKUP				445 NTS02		LLNL			
721221	201500.0	USNTSYSS1		120				WE		FLAX-BACE	
721228	042700.0	CPKTS DUNDG	4.9	.39	51.700N	077.200E			QP		A
730214		USNTS SHFT		120				WR		ALUMROOTE	
730216	050257.5	CPKTS UNDG	5.4	17	49.822N	078.158E					N
730308	161000.2	USNTS SHFT	5.4	20-200	37.10N	116.03W		WR		MIERA	E
730323		USNTS SHFT		120				WR		GAZOOK	E
730405		USNTS SHFT		120				WR		NATOMA	E
730419	043257.5	CPKTS UNDG	5.3	12	49.995N	077.647E					N
730425	222500.0	VELARDE				277 NTS03		LANL			
730425	222500.0	USNTSYSS1	4.7	120	37.00N	116.03W		WR		VELARDE	E
730425	222500.0	ANGUS				453 NTS03		LANL			
730425	222500.0	USNTSYSS2	4.7	120	37.00N	116.03W		WR		ANGUS	E
730426		USNTS SHFT		120				WR		COLMOR	E
730426	171500.2	USNTS SHFT	5.6	90	37.12N	116.06W		WR		STARWORTE	
730509		USNTS SHFT		120				WR		MESITA	E
730517	150000.0	RIO BLANCO-1				543 RIFLE,CO		LLNL			
730517	150000.0	USRFL SS1	5.4	33	39.79N	108.37W		PS		RIO BLANE	

730517	150000.0	RIO BLANCO-2				579 RIFLE,CO	LLNL	
730517	150000.0	USRFL SS1	5.4	33	39.79N	108.37W	PS	RIO BLANE
730517	150000.0	RIO BLANCO-3				622 RIFLE,CO	LLNL	
730517	150000.0	USRFL SS1	5.4	33	39.79N	108.37W	PS	RIO BLANE
730524		USNTS SHFT					WR	CABRESTOE
730524		USNTS SHFT					WR	KASHAN E
730605	170000.2	USNTS TUNN	5.1		120 37.18N	116.21W	WE	DIDOQUEEE
730606	130000.0	USNTS SHFT	6.5	200-1000	37.25N	116.35W	WR	ALMENDROE
730621		USNTS SHFT					WR	POTRILLOE
730627	035951.0	PCLNR ATMO		2000-3000				N
730628	191512.4	USNTS SHFT	5.3	20-200	37.1N	116.09W	WR	PORTULACE
730628		USNTS SHFT					WR	SILENE E
730710	012657.7	CPKTS UNDG	5.3		11 49.798N	078.087E		N
730721	180000.0	FRMUR ATMO			5 20S	140W	WR	N
730723	012257.6	CPKTS UNDG	6.2		181 49.962N	078.812E		N
730728	230300.0	FRMUR ATMO			LOW 20S	140W	WR	N
730815	015957.7	CP UNDG	5.3		21 42.690N	067.410E		N
730819		FRMUR ATMO		5-10	20S	140W	WR	N
730825		FRMUR ATMO			20S	140W	WR	N
730826		FR ATMO			20S	140W		Z
730828		FRMUR AIRD		6.6			WR	TAMARA N
730828	025957.9	CP UNDG	5.2		17 50.580N	068.400E		N
730912	065954.5	CPNZ UNDG	6.7	2099	73.320N	054.970E		N
730919	025957.6	CP UNDG	5.1		13 45.680N	067.800E		N
730927	065958.4	CPNZ UNDG	5.9		100 70.800N	053.420E		N
730930	045957.7	CP UNDG	5.2		17 51.660N	054.540E		N
731002		USNTS SHFT					WR	POLYGONUE
731002		USNTS SHFT					WR	WALLER E
731012	170000.8	USNTS TUNN	4.8		120 37.20N	116.20W	WE	HUSKYACEE
731026	042657.7	CPKTS UNDG	5.2		10 49.759N	078.164E		N
731026	055957.2	CP UNDG	4.8		6.6 53.630N	055.380E		N
731027	065957.6	CPNZ UNDG	6.9	4055	70.800N	053.920E		N
731128	153000.5	USNTS SHFT	4.4		120 36.9N	116.0W	WR	BERNAL E
731212		USNTS SHFT					WR	PAJARA E
731213		USNTS SHFT					WR	SEAFOAM E
731214	074657.1	CPKTS UNDG	5.8		38 50.044N	078.987E		N
731219		USNTS SHFT					WR	ELIDA E
731219		USNTS SHFT					WR	SPAR E
740110		USNTS SHFT					WR	PINEDROPE
740110	143000.0	PINEDROPS-SLOAT				213 NTS10	LLNL	
740110	143000.0	USNTSYSS1			120		WR	PINEDROPE
740110	143000.0	PINEDROPS-TAWNY				282 NTS10	LLNL	
740110	143000.0	YSNTSYSS1			120		WR	PINEDROPE
740110	143000.0	PINEDROPS-BAYOU				343 NTS10	LLNL	
740110	143000.0	USNTSYSS1			120		WR	PINEDROPE
740130	045657.8	CPKTS UNDG	4.9		4.5 49.837N	078.049E		N
740130	045702.2	CPKTS UNDG	5.4		14 49.853N	078.087E		N
740227	170000.0	USNTS SHFT	5.8	20-200	37.10N	116.05W	WR	LATIR E
740314		USNTS SHFT					WR	HULSEA E
740412		USNTS SHFT					WR	SAPELLO E
740416	055257.4	CPKTS UNDG	4.4		1.5 50.041N	078.943E		N
740423		USNTS SHFT					WR	PORTREROE
740501		USNTS SHFT					WR	PLOMO E
740508		USNTS SHFT					WR	JIB E
740516	030257.6	CPKTS UNDG	5.2		10 49.752N	078.093E		N
740518	023455.4	INRAJ UNDG	4.9		15 26.99 N	071.80 E	P	I
740522		USNTS SHFT					WR	GROVE E
740523	133830.2	GBNTS SHFT	4.8	20-200	37.1N	116.1W		FALLON E

740531	032657.4	CPKTS	UNDG	5.8	42	49.950N	078.852E		N
740606		USNTS	SHFT		120			WR	JARA E
740616		FRMUR	BALN		20	20S	140W	WR	CAPRICORN N
740617	055949.0	PCLNR	ATMO		200-1000				N
740619	155959.0	USNTS	TUNN	5.0	120	37.2N	116.2W	WE	MINGBLAEE
740625	035657.7	CPKTS	UNDG	4.5	1.8	49.840N	078.166E		N
740707		FRMUR	BALN		150	20S	140W	WR	GEMEAUX N
740708	055959.7	CP	UNDG	4.6	4.1	53.680N	055.080E		N
740710	025657.6	CPKTS	UNDG	5.1	8.4	49.783N	078.130E		N
740710	160000.1	USNTS	SHFT	5.7	20-200	37.07N	116.03W	WR	ESCABOSAE
740717		FRMUR	ATMO			20S	140W	WR	CENTAUREN
740718	130000.0	CRESTLAKE - TANSAN					272 NTS02	LLNL	
740718	130000.0	USNTSYSS1			120			WR	CRESTLAKE
740718	130000.0	CRESTLAKE - BRIAR					374 NTS02	LLNL	
740718	130000.0	USNTSYSS1			120			WR	CRESTLAKE
740718		USNTS	SHFT		120			WR	CRESTTLAE
740726		FRMUR	AIRD			20S	140W	WR	N
740729		FRMUR	ATMO		HIGH			WR	N
740814	140000.1	USNTS	SHFT	4.6	120	37.0N	116.0W	WR	PUYE E
740814	145958.5	CP	UNDG	5.4	27	68.940N	075.830E		N
740815		FRMUR	ATMO			20S	140W	WR	N
740825		FRMUR	ATMO			20S	140W	WR	N
740829	095955.7	CPNZ	UNDG	6.4	497	73.410N	054.930E		N
740829	145958.9	CP	UNDG	5.0	10	67.230N	062.140E		N
740830	150000.2	USNTS	SHFT	5.8	20-200	37.1N	116.1W	WR	PORTMANTE
740913	030257.6	CPKTS	UNDG	5.1	8.6	49.778N	078.081E		N
740915		FRMUR	ATMO		1000	20S	140W	WR	N
740925		USNTS	SHFT		120			WR	PRATT E
740926		USNTS	SHFT		120			WR	TRUMBULLE
740926	150500.2	USNTS	SHFT	5.6	20-200	37.1N	116.1W	WR	STANYAN E
741002	005956	KRISTALL					98		
741002	005956	CPYAK	UNDG	4.6	1.7	66.1N	112.61E	PNE	KRISTALLISC
741016	063257.5	CPKTS	UNDG	5.4	17	49.979N	078.898E		N
741017		USNTS	SHFT		120			WR	ESTACA E
741028		USNTS	TUNN		120			WE	HYBLAFAIE
741102	045956.8	CPNZ	UNDG	6.7	2099	70.810N	053.910E		N
741102		USNTS	SHFT		120			WR	TEMESCALE
741126		USNTS	SHFT		120			WR	PUDDLE E
741207	055957.6	CPKTS	UNDG	4.5	1.8	49.933N	077.636E		N
741216	062257.7	CPKTS	UNDG	5.0	5.7	49.793N	078.133E		N
741216	064057.9	CPKTS	UNDG	4.8	3.6	49.867N	078.087E		N
741216		USNTS	SHFT		120			WR	KEEL E
741227	054656.8	CPKTS	UNDG	5.5	18	49.943N	079.011E		N
750206	153000.0	PORTOLA					198 NTS10	LLNL	
750206	153000.0	USNTSYSS1	3.5		120	37.05N	116.00W	WR	PORTOLA E
750206	153000.0	PORTOLA - LARKIN					274 NTS10	LLNL	
750206	153000.0	USNTSYSS1	3.5		120	37.05N	116.00W	WR	PORTOLA - E
750206		USNTS	SHFT		120			WR	TELEME E
750219		USNTS	SHFT		120			WR	BILGE E
750220	053257.6	CPKTS	UNDG	5.6	26	49.789N	078.062E		N
750228	151500.1	USNTS	SHFT	5.7	20-200	37.11N	116.06W	WR	TOPGALLAE
750307	150000.2	USNTS	SHFT	5.5	20-200	37.13N	116.08W	WR	CABRILLOE
750311	054257.6	CPKTS	UNDG	5.3	14	49.747N	078.146E		N
750405	194500.2	USNTS	TUNN	4.8	120	37.18N	116.21W	WE	DININGCAE
750424	141000.2	USNTS	SHFT	4.6	20-200	37.11N	116.08W	WR	EDAM E
750425	050002.5	CP	UNDG	4.7	2.6	48.080N	047.200E		N
750427	053657.2	CPKTS	UNDG	5.5	21	49.949N	078.926E		N
750430	150000.0	USNTS	SHFT	5.2	20-200	37.11N	116.03W	WR	OBAR E

750514	140000.4	USNTS	SHFT	5.8	200-1000	37.22N	116.47W	WR	TYBO	E
750603	142000.2	USNTS	SHFT	5.9	20-200	37.33N	116.52W	WR	STILTON	E
750603	144000.1	USNTS	SHFT	5.7	20-200	37.09N	116.03W	WR	MIZZEN	E
750605	181500.0	FRFAN	SHFT	5.3	20	22S	139W		ACHILLE	N
750608	032657.5	CPKTS	UNDG	5.5	18	49.762N	078.050E			N
750611		USNTS	SHFT		120			WR	ALVISO	E
750618		USNTS	SHFT		120			WR	FUTTOCK	E
750619	130000.1	USNTS	SHFT	6.1	200-1000	37.35N	116.32W	WR	MAST	E
750626	123000.2	USNTS	SHFT	5.0	200-1000	37.27N	116.37W	WR	CAMEMBERE	
750630	032657.5	CPKTS	UNDG	4.6	2.4	50.004N	078.957E			N
750807	035657.6	CPKTS	UNDG	5.1	8.2	49.812N	078.161E			N
750812	150000	GORIZONT-4					496			
750812	150000	CPYAK	UNDG	5.1	7.6	70.76N	127.12E	PNE	GORIZONTIS	
750823	085957.9	CPNZ	UNDG	6.4	477	73.340N	054.500E			N
750830	211159.5	USNTSPSH?		3.0		37.28N	116.21W		**	N
750906	170000.1	USNTS	SHFT	4.6	120	37.02N	116.03W	WR	MARSH	E
750929	105958.3	CP	UNDG	4.8	6.6	69.600N	090.460E			N
751005	042743.9	CPKTS	UNDG	4.6	.19	55.800N	075.100E			N
751018	085956.5	CPNZ	UNDG	6.6	1281	70.840N	053.530E			N
751021	115957.7	CPNZ	UNDG	6.4	497	73.320N	054.930E			N
751024	171126.1	USNTS	TUNN	4.7	120	37.22N	116.18W	WE	HUSKYPUPE	
751026	005959.0	PCLNR	UNDG		120					N
751027	010003.5	PCLNR		5.0	110	41.400N	088.667E			
751028	143000.2	USNTS	SHFT	6.2	200-1000	37.28N	116.41W	WR	KASSERI	E
751029	044657.3	CPKTS	UNDG	5.6	24	49.946N	078.878E			N
751118		USNTS	SHFT		120			WR	DECK	E
751120	150000.1	USNTS	SHFT	5.8	200-1000	37.22N	116.37W	WR	INLET	E
751126	004800.0	FRFAN	SHFT	5.2	15	20S	140W		HECTOR	N
751126	153000.2	USNTS	SHFT	5.0	120	37.12N	116.02W	WR	LEYDEN	E
751213	045657.5	CPKTS	UNDG	5.0	6.0	49.810N	078.157E			N
751220	200000.2	USNTS	SHFT		20-200	37.12N	116.06W	WR	CHIBERTAE	
751225	051657.1	CPKTS	UNDG	5.6	29	50.044N	078.814E			N
760103	191500.2	USNTS	SHFT	6.2	200-1000	37.30N	116.33W	WR	MUENSTERE	
760115	044657.5	CPKTS	UNDG	5.2	10	49.824N	078.201E			N
760123	060000.0	PCLNR	ATMO		LOW					N
760204	142000.1	USNTS	SHFT	5.8	20-200	37.07N	116.03W	WR	KEELSON	E
760204	144000.2	USNTS	SHFT	5.7	20-200	37.11N	116.04W	WR	ESROM	E
760212	144500.2	USNTS	SHFT	5.5	200-1000	37.27N	116.49W	WR	FONTINA	E
760214	113000.2	USNTS	SHFT	5.7	200-500	37.24N	116.42W	WR	CHESHIREE	
760226		USNTS	SHFT		120			WR	SHALLOWSE	
760309	140000.1	USNTS	SHFT	5.9	200-500	37.31N	116.36W	WR	ESTUARY	E
760314	123000.2	USNTS	SHFT	6.3	500-1000	37.31N	116.47W	WR	COLBY	E
760317	141500.1	USNTS	SHFT	5.8	200-500	37.26N	116.31W	WR	POOL	E
760317	144500.1	USNTS	SHFT	5.6	200-500	37.11N	116.05W	WR	STRAIT	E
760403	004500.0	FRMUR	SHFT					WR	PATROCLEN	
760421	045757.7	CPKTS	UNDG	5.1	7.3	49.776N	078.146E			N
760421	050257.1	CPKTS	UNDG	5.2	11	49.890N	078.827E			N
760512	195000.2	USNTS	TUNN	4.9	120	37.2N	116.2W	WE	MIGHTYEPE	
760519	025657.8	CPKTS	UNDG	4.8	3.7	49.796N	078.058E			N
760520		USNTS	SHFT		120			WR	RIVOLI	E
760604	025657.4	CPKTS	UNDG	5.8	40	49.909N	078.911E			N
760609	030257.2	CPKTS	UNDG	5.1	7.6	49.989N	079.022E			N
760711	002959.1	FRMUR	SHFT	5.0	10	21.859S	138.768W	WR		N
760723		FRMUR	SHFT			20S	140W	WR		N
760723	023257.7	CPKTS	UNDG	5.0	6.3	49.779N	078.085E			N
760727	203000.1	USNTS	SHFT	5.2	20-150	37.1N	116.0W	WR	BILLET	E
760729	045957.9	CP	UNDG	5.9	45	47.810N	048.100E			N
760804	025658.0	CPKTS	UNDG	4.1	.06	49.900N	077.700E			N

760826	143000.2	GBNTS	SHFT	5.3	20-150	37.13N	116.08W		BANON	E
760828	025657.4	CPKTS	UNDG	5.7	30	49.969N	078.930E			N
760926	060000.0	PCLNR	ATMO		20-200					N
760929	025957.6	CPNZ	UNDG	5.8	70	73.410N	054.500E			N
761006		USNTS	SHFT		120			WR	GOUDA	E
761017	050003.7	PCLNR		4.9	10-20	41.650N	088.667E			N
761020	075957.8	CPNZ	UNDG	5.1	13	73.400N	054.470E			N
761030	045702.5	CPKTS	UNDG	4.9	4.5	49.821N	078.029E			N
761030	230000	FR			0-5				ULYSSEA	Z
761105	035956.8	CPYAK	UNDG	5.3	11	61.52N	112.73E	PNE	OKA	ISC
761110		USNTS	SHFT		120			WR	SPRIT	E
761117	060017.6	PCLNR	ATMO		4000					N
761123	050257.2	CPKTS	UNDG	5.7	34	50.008N	078.963E			N
761123	151500.2	USNTS	SHFT		120	37.2N	116.1W	WR	CHEVRE	E
761205	230000	FR			0-5				ASTYANAX	Z
761207	045657.3	CPKTS	UNDG	5.8	41	49.922N	078.846E			N
761208	144930.1	USNTS	SHFT	4.9	120	37.08N	116.00W	WR	REDMUD	E
761208		FRMUR	SHFT		20S	140W		WR		N
761221		USNTS	SHFT		120			WR	SUTTER	E
761221	150900.2	USNTS	SHFT		120	37.12N	116.07W	WR	ASIAGO	E
761228	180000.1	USNTS	SHFT	5.5	20-150	37.10N	116.04W	WR	RUDDER	E
761230	035657.9	CPKTS	UNDG	5.1	7.8	49.802N	078.069E			N
770216	175300.2	OARLOCK					318 NTS03	LLNL		
770216	175300.0	USNTSYSS1			120			WR	OARLOCK	E
770216	175300.0	COVE					335 NTS03	LLNL		
770216	175300.0	USNTSYSS2			120			WR	COVE	E
770219	232958.9	FRMUR	SHFT	5.0	5	21.834S	138.846W	WR		N
770308	142400.0	DOFINO					183 NTS10	LLNL		
770308	142400.0	USNTSYSS1			120			WR	DOFINO	E
770308	142400.0	DOFINO-LAWTON					282 NTS10	LLNL		
770308	142400.0	USNTSYSS1			120			WR	DOFINO-LE	
770319	230058.4	FRMUR	SHFT	5.9	45	21.891S	138.913W	WR		N
770329	035657.5	CPKTS	UNDG	5.4	14	49.970N	078.086E			N
770402	233000	FR			0-5				OEDIPE	Z
770405	150000.2	USNTS	SHFT	5.6	20-150	37.12N	116.06W	WR	MARSILLYE	
770425	040657.7	CPKTS	UNDG	5.0	6.6	49.813N	078.150E			N
770427	150000.1	USNTS	SHFT	5.1	20-150	37.09N	116.03W	WR	BULKHEADE	
770525	170000.3	USNTS	SHFT	5.3	20-150	37.09N	116.04W	WR	CREWLINEE	
770529	025657.5	CPKTS	UNDG	5.7	32	49.937N	078.770E			N
770602		USNTS	SHFT		120			WR	FOREFOOTE	
770629	030657.7	CPKTS	UNDG	5.2	9.6	50.006N	078.869E			N
770706	225958.5	FRMUR	SHFT	4.9	25	21.780S	138.954W	WR		N
770726	165957.7	CP	UNDG	5.0	10	69.540N	090.510E			N
770728		USNTS	SHFT		120			WR	CARNELIAE	
770730	015657.7	CPKTS	UNDG	5.0	7.1	49.759N	078.097E			N
770804	164000.1	USNTS	SHFT	5.0	20-150	37.09N	116.01W	WR	STRAKE	E
770810	220002.0	CP	UNDG	5.0	10	50.950N	110.780E			N
770816	134100.0	GRUYERE-GRADINO					207 NTS09	LLNL		
770816	134100.0	USNTSYSS1			120			WR	GRUYERE-E	
770816	134100.0	GRUYERE					320 NTS09	LLNL		
770816	134100.0	USNTSYSS1			120			WR	GRUYERE	E
770816		USNTS	SHFT		120			WR	FLOTOST	E
770816	154900.2	USNTSYSH?		4.0		37.2N	116.1W		**	N
770817	042657.5	CPKTS	UNDG	4.9	5.6	49.825N	078.170E			N
770819		USNTS	SHFT		120			WR	SCUPPER	E
770819	175500.1	USNTS	SHFT	5.5	20-150	37.11N	116.05W	WR	SCANTLINE	
770820	215958.3	CP	UNDG	5.0	10	64.130N	099.620E			N
770901	025957.7	CPNZ	UNDG	5.7	55	73.370N	054.410E			N

770905	030257.3	CPKTS	UNDG	5.7	37	50.035N	078.921E					N
770910	160003.3	CP	UNDG	4.8	6.6	57.290N	106.230E					N
770915	143630.1	USNTS	SHFT	4.5	120	37.0N	116.0W	WR		EBBTIDE		E
770917	070000.0	PCLNR	ATMO		120							N
770927	140000.2	USNTS	SHFT	4.8	20-150	37.1N	116.1W	WR		COULOMMIE		E
770930	065955.9	CP	UNDG	5.0	5.4	47.850N	048.130E					N
771009	105958.8	CPNZ	UNDG	4.6	4.1	73.470N	053.980E					N
771026	141500.1	USNTS	SHFT	4.5	120	37.1N	116.0W	WR		BOBSTAY		E
771029	030657.5	CPKTS	UNDG	5.6	23	49.833N	078.131E					N
771029	030702.4	CPKTS	UNDG	5.5	20	50.069N	078.975E					N
771101	180600.1	USNTS	SHFT	4.7	120	37.19N	116.21W	WR		HYBLAGOLE		E
771109	220000.1	USNTS	SHFT	5.7	20-150	37.07N	116.05W	WR		SANDREEFE		E
771112	013000.0	FRMUR	SHFT	5.2	15	22S	139W	WR				N
771117	193000.1	USNTS	SHFT	4.7	120	37.02N	116.02W	WR		SEAMOUNTE		E
771124	165958.4	FRMUR	SHFT	5.8	55	21.896S	138.884W	WR		NESTOR		N
771130	040657.3	CPKTS	UNDG	5.8	47	49.958N	078.885E					N
771214		USNTS	SHFT		120			WR		RIB		E
771214	153000.2	USNTS	SHFT	5.7	20-150	37.13N	116.09W	WR		FARALLONE		E
771217	220000.0	FRMUR	SHFT	5.1	10	22S	139W	WR				N
771226	040257.8	CPKTS	UNDG	4.8	4.3	49.953N	078.115E					N
780120	043257.6	CPKTS	UNDG	4.6	2.6	49.858N	078.089E					N
780213	215259.6	USNTS	SHFT	3.8	120	37.1N	116.0W	WR		CAMPOS		E
780223	170000.2	USNTS	SHFT	5.6	20-150	37.12N	116.06W	WR		REBLOCHOE		E
780227	230000.0	FRMUR	SHFT	4.0	11	22S	139W	WR				N
780315	050000.0	PCLNR	ATMO		120							N
780316		USNTS	SHFT		120			WR		KARAB		E
780319	034657.4	CPKTS	UNDG	5.2	9.4	49.959N	077.746E					N
780322	172958.9	FR	SHFT	4.8	10	21.714S	138.926W	WR				N
780323		USNTS	SHFT		120			WR		TOPMAST		E
780323	163000.2	USNTS	SHFT	5.6	20-150	37.10N	116.05W	WR		ICEBERG		E
780325	170000	FR			0-5					HECUBE		Z
780326	035657.5	CPKTS	UNDG	5.6	24	49.768N	078.044E					N
780411	153000.2	GBNTS	SHFT	5.3	20-150	37.30N	116.33W	WR		FONDUTTAE		E
780411	174500.1	USNTS	SHFT	5.5	20-150	37.23N	116.37W	WR		BACKBEACE		E
780422	035657.5	CPKTS	UNDG	5.2	11	49.761N	078.186E					N
780425		USNTS	SHFT		120			WR		ASCO		E
780529	045657.4	CPKTS	UNDG	4.6	2.6	49.772N	078.141E					N
780601		USNTS	SHFT		120			WR		JACKPOTSE		E
780611	025657.5	CPKTS	UNDG	5.8	41	49.898N	078.797E					N
780701	170000				0-5					XANTHOS		Z
780705	024657.4	CPKTS	UNDG	5.8	38	49.887N	078.871E					N
780707		USNTS	SHFT		120			WR		SATZ		E
780712	170000.1	USNTS	SHFT	5.5	20-150	37.08N	116.04W	WR		LOWBALL		E
780719	180000.0	FRMUR	SHFT	4.4	2	22S	139W	WR				N
780726	230000.0	FRMUR	SHFT	4.7	4	22S	139W	WR				N
780728	024657.4	CPKTS	UNDG	5.6	27	49.756N	078.140E					N
780809	175958.1	KRATON-4					567					
780809	175958.1	CPYAK	UNDG	5.6	22	63.65N	125.34E	PNE		KRATON-4ISC		N
780810	075957.7	CPNZ	UNDG	5.9	89	73.310N	054.700E					N
780824	180003.8	KRATON-3					577					
780824	180003.8	CPYAK	UNDG	5.1	19	65.87N	112.56E	PNE		KRATON-3ISC		N
780829	023657.5	CPKTS	UNDG	5.2	9.2	49.812N	078.142E					N
780829	023706.2	CPKTS	UNDG	5.9	56	50.000N	078.978E					N
780831	140000.2	USNTS	SHFT	5.6	20-150	37.27N	116.36W	WR		PANIR		E
780913	131500.2	USNTS	TUNN	4.6	120	37.21N	116.21W	WE		DIABLOHAE		E
780915	023657.4	CPKTS	UNDG	5.9	55	49.916N	078.879E					N
780920	050256.8	CPKTS	UNDG	4.3	1.1	49.835N	078.416E					N
780921	145957.6	CP	UNDG	5.2	17	66.530N	086.260E					N

780927	020458.4	CPNZ	UNDG	5.6	44	73.380N	054.440E					N
780927	1430	USNTS	SH?	3.4					**			N
780927	153000.0	CREMINO					210	NTS08	LLNL			
780927	153000.0	USNTSYSS1			120				WR	CREMINO		E
780927	153000.0	CREMINO-CAERPHILLY					420	NTS08	LLNL			
780927	153000.0	USNTSYSS1			120				WR	CREMINO-E		
780927	170000.0	USNTS	SHFT	5.0	20-150	37.08N	116.05W		WR	DRAUGHTSE		
780927	172000.0	USNTS	SHFT	5.7	20-150	37.07N	116.02W		WR	RUMMY		E
781007	235957.0	VYATKA					1530					N
781007	235957.0	CPYAK	UNDG	5.2	16	61.53N	112.87E		PNE	VYATKA		ISC
781014	010002.7	PCLNR	SHFT	4.9	120	41.450N	088.633E					N
781015	053657.7	CPKTS	UNDG	5.1	69	49.753N	078.165E					N
781017	045956.6	CP	UNDG	5.8	35	47.810N	048.090E					N
781017	135958.0	CP	UNDG	5.5	34	63.210N	063.260E					N
781031	041657.7	CPKTS	UNDG	5.2	9.6	49.806N	078.143E					N
781102	152500.2	USNTS	SHFT	4.2	120	37.29N	116.30W		WR	EMMENTHAE		
781102	180000.0	FRMUR	SHFT	4.6	2	22S	139W		WR			N
781104	050557.3	CPKTS	UNDG	5.5	22	50.034N	078.943E					N
781118	190000.0	GBNTS	SHFT	5.1	20-150	37.13N	116.08W			QUARGEL		E
781129	043257.7	CPKTS	UNDG	5.3	11	49.810N	078.042E					N
781129	043302.4	CPKTS	UNDG	5.9	60	49.949N	078.798E					N
781130	173158.5	FR	SHFT	5.8	65	21.866S	138.949W		WR			N
781201		USNTS	SHFT		120				WR	CONCENTRE		
781214		PCLNR	ATMO		120							N
781214	044257.6	CPKTS	UNDG	4.7	2.9	49.813N	078.144E					N
781216	153000.2	USNTS	SHFT	5.5	20-150	37.27N	116.41W		WR	FARM		E
781217	180400.0	FRMUR	SHFT	5.2	15	22S	139W		WR			N
781218	075956.3	CP	UNDG	5.9	45	47.780N	048.140E					N
781219	165659.9	FR	SHFT	4.9	10	21.769S	138.945W		WR			N
790110	080000.0	CP	UNDG	5.0	1.4	47.000N	048.000E					N
790117	075955.7	CP	UNDG	6.0	57	47.870N	048.060E					N
790124	180000.1	USNTS	SHFT	4.5	120	37.10N	116.01W		WR	BACCARATE		
790201	041257.6	CPKTS	UNDG	5.3	14	50.090N	078.870E					N
790208	200000.1	USNTS	SHFT	5.5	20-150	37.1N	116.1W		WR	QUINELLAE		
790215	180500.2	USNTS	SHFT	4.8	20-150	37.2N	116.1W		WR	KLOSTER		E
790216	040358.1	CPKTS	UNDG	5.4	15	49.990N	077.712E					N
790301	172400.0	FRMUR	SHFT	5.0	7	22S	139W		WR			N
790309	163700.0	FRMUR	SHFT	5.2	15	22S	139W		WR			N
790314	183000.1	USNTS	SHFT	4.3	120	37.0N	116.0W		WR	MEMORY		E
790324	162758.8	FR	SHFT	4.9	7	21.830S	138.909W		WR			N
790404	180659.1	FR	SHFT	4.8	6	21.812S	138.741W		WR			N
790506	031657.6	CPKTS	UNDG	5.1	9.0	49.774N	078.049E					N
790511		USNTS	SHFT		120				WR	FREEZEOUE		
790524	040700.0	CPKTS	UNDG	4.9	0.39	50.000N	078.000E					N
790531	055457.6	CPKTS	UNDG	5.2	10	49.835N	078.127E					N
790611		USNTS	SHFT		20-150				WR	PEPATO		E
790618	232658.0	FR	SHFT	4.8	4	22.140S	138.456W		WR			N
790620		USNTS	SHFT		120				WR	CHESS		E
790623	025657.5	CPKTS	UNDG	6.2	152	49.903N	078.855E					N
790628		USNTS	SHFT		20-150				WR	FAJY		E
790629	185558.8	FR	SHFT	5.2	25	21.798S	138.927W		WR			N
790707	034657.3	CPKTS	UNDG	5.8	41	50.026N	078.991E					N
790714	045955.2	CP	UNDG	5.6	22	47.810N	048.070E					N
790718	031702.5	CPKTS	UNDG	5.2	9.2	49.937N	077.850E					N
790725	175658.5	FR	SHFT	6.1	120	21.880S	138.940W		WR			N
790728	195558.7	FR	SHFT	4.7	15	21.808S	138.808W		WR			N
790803		USNTS	SHFT		20-150				WR	BURZET		E
790804	035657.1	CPKTS	UNDG	6.1	113	49.894N	078.904E					N

790808		USNTS	SHFT		20-150			WR	OFFSHOREE	
790812	175957.4	KIMBERLIT-4					982		N	
790812	175957.4	CPYAK	UNDG	4.9	6.5	61.86N	122.22E	PNE	KIMBERLIISC	
790818	025157.1	CPKTS	UNDG	6.1	119	49.943N	078.938E		N	
790829		GBNTS	SHFT		20-150				NESSSEL	E
790906		USNTS	SHFT		20-150			WR	HEARTS	E
780906	175957.7	CP	UNDG	4.9	8.4	64.060N	99.620E		N	
790908		USNTS	SHFT		120			WR	PERA	E
790913		PCLNR							N	
790914	073300.0	CPKTS	UNDG	5.2	0.79	50.000N	078.000E		N	
790915	040700.0	CPKTS	UNDG	4.6	0.19	50.000N	078.000E		N	
790916	085953	CP	MINE	3.3	0.3?	48.22 N	038.3E		n	
790922	010000.	IS?IN	SUR?		LOW?	47.000S	040.000E	??	*	F
790924	032958.3	CPNZ	UNDG	5.7	55	73.370N	054.580E		N	
790926		USNTS	SHFT		20-150			WR	SHEEPSHEE	
790927	041257.6	CPKTS	UNDG	4.4	1.4	49.767N	078.120E		N	
791004	155958.0	CP	UNDG	5.4	27	60.660N	071.440E		N	
791007	205957.1	SHEKSNA					1545			
791007	205957.1	CPYAK	UNDG	5.0	15	61.85N	113.12E	PNE	SHEKSNA	ISC
791018	041657.7	CPKTS	UNDG	5.1	9.0	49.837N	078.148E		N	
791018	070958.5	CPNZ	UNDG	5.8	70	73.340N	054.730E		N	
791024	055956.6	CP	UNDG	5.8	35	47.790N	048.110E		N	
791028	031656.9	CPKTS	UNDG	5.9	59	49.973N	078.997E		N	
791119	175300				0-5				CHRYSOTEZ	
791122	191420.0	FRMUR	SHFT	4.7	4	22S	139W	WR	N	
791129		USNTS	SHFT		120			WR	BACKGAMME	
791130	045258.1	CPKTS	UNDG	4.4	1.6	49.789N	078.144E		N	
791202	043657.4	CPKTS	UNDG	5.9	60	49.891N	078.796E		N	
791214		USNTS	SHFT		120			WR	AZUL	E
791221	044157.6	CPKTS	UNDG	4.6	2.7	49.801N	078.173E		N	
791223	045657.4	CPKTS	UNDG	6.1	119	49.916N	078.755E		N	
800223	180300.0	FRMUR	SHFT	4.3	1			WR	N	
800228		USNTS	SHFT		120			WR	TARKO	E
800303	175600.0	FRMUR	SHFT	5.1	10			WR	N	
800308		USNTS	SHFT		120			WR	NORBO	E
800323	193658.5	FR	SHFT	5.6	80	21.864S	138.928W	WR	N	
800401	193058.7	FR	SHFT	5.1	20	21.854S	138.763W	WR	N	
800403		USNTS	SHFT		20-150			WR	LIPTAUERE	
800404	053257.4	CPKTS	UNDG	5.0	6.0	50.012N	077.856E		N	
800404	183258.6	FR	SHFT	4.5	2	21.906S	138.808W	WR	N	
800410	040657.8	CPKTS	UNDG	4.9	5.5	49.805N	078.108E		N	
800416		USNTS	SHFT		20-150			WR	PYRAMID	E
800425	035657.5	CPKTS	UNDG	5.5	18	49.973N	078.755E		N	
800426		GBNTS	SHFT		20-150				COLWICK	E
800502		USNTS	SHFT		120			WR	CANFIELDE	
800522		USNTS	SHFT		120			WR	FLORA	E
800522	035657.7	CPKTS	UNDG	5.4	18	49.784N	078.082E		N	
800612		USNTS	SHFT		20-150			WR	KASH	E
800612	032657.6	CPKTS	UNDG	5.5	23	49.980N	079.001E		N	
800616	182658.6	FR	SHFT	5.3	25	21.864S	138.904W	WR	N	
800621	170100.0	FRMUR	SHFT	5.0	9			WR	N	
800624		USNTS	SHFT		120			WE	HURONKINE	
800629	023257.6	CPKTS	UNDG	5.7	30	49.939N	078.815E		N	
800706	172658.9	FR	SHFT	4.7	5	21.845S	138.861W	WR	N	
800713	081000.0	CPKTS	UNDG	5.0	0.49	50.000N	078.000E		N	
800719	234658.5	FR	SHFT	5.7	80	21.855S	138.959W	WR	N	
800725		USNTS	SHFT		20-150			WR	TAFI	E
800731		USNTS	SHFT		120			WR	VERDELLOE	

800731	033257.6	CPKTS	UNDG	5.3	11	49.807N	078.148E			N
800914	024239.1	CPKTS	UNDG	6.2	150	49.921N	078.802E			N
800920	104000.0	CPKTS	UNDG	4.9	0.39	50.000N	078.000E			N
800925		USNTS	SHFT		20-150			WR	BONARDA	E
800925		USNTS	SHFT		120			WR	RIOLA	E
800925	062110.6	CPKTS	UNDG	4.7	3.3	49.835N	078.118E			N
800930	055700.0	CPKTS	UNDG	4.6	0.19	50.000N	078.000E			N
800930	055700.0	CPKTS	UNDG	5.2	0.79	50.000N	078.000E			N
801008	055957.3	CP	UNDG	5.2	8.6	46.790N	048.290E			N
801011	070957.1	CPNZ	UNDG	5.7	55	73.360N	054.820E			N
801012	033414.1	CPKTS	UNDG	5.9	50	49.961N	079.028E			N
801016	044028.9	PCLNR	ATMO		200-1000					N
801024		GBNTS	SHFT		120				DUTCHESSE	
801031		USNTS	TUNN		120			WE	MINERSIRE	
801101	125958.0	CP	UNDG	5.2	17	60.790N	097.570E			N
801114		USNTS	SHFT		120			WR	DAUPHIN	E
801125	175300.0	FRMUR	SHFT	4.5	2			WR		N
801203	173258.5	FR	SHFT	5.6	50	21.874S	138.945W	WR		N
801210	065957.6	CP	UNDG	4.6	4.1	61.730N	066.760E			N
801214	034706.4	CPKTS	UNDG	5.9	54	49.899N	078.938E			N
801217		GBNTS	SHFT		20-150				SERPA	E
801226	040707.2	CPKTS	UNDG	4.2	0.97	49.941N	078.183E			N
801227	040908.1	CPKTS	UNDG	5.8	45	50.057N	078.981E			N
810115		USNTS	SHFT		20-150			WR	BASEBALLE	
810205		USNTS	SHFT		120			WR	CLAIRETTE	
810225		USNTS	SHFT		120			WR	SECO	E
810227	232800.0	FRMUR	SHFT	5.0	8			WR		N
810306	172700.0	FRMUR	SHFT	4.5	2			WR		N
810328	172259.2	FR	SHFT	4.8	5	21.780S	138.674W	WR		N
810329	040350.0	CPKTS	UNDG	5.6	24	50.007N	078.982E			N
810331	075156.0	CPKTS	UNDG	3.6	.09	50.000N	079.000E			N
810410	175659.0	FR	SHFT	4.8	8	21.775S	138.969W	WR		N
810422	011711.3	CPKTS	UNDG	5.9	54	49.885N	078.810E			N
810430		USNTS	SHFT		120			WR	VIDE	E
810525	045957.5	CP	UNDG	5.5	34	68.210N	053.500E			N
810527	03581234	CPKTS	UNDG	5.4	17	49.985N	078.980E			N
810529		USNTS	SHFT		120			WR	ALIGOTE	E
810605	032200.0	CPKTS	UNDG	4.7	0.24	50.000N	078.000E			N
810606		USNTS	SHFT		20-150			WR	HARZER	E
810630	015712.9	CPKTS	UNDG	5.2	10	49.768N	078.119E			N
810705	035900.0	CPKTS	UNDG	4.6	0.19	50.000N	078.000E			N
810708	222258.8	FR	SHFT	5.1	20	21.781S	139.049W	WR		N
810710		USNTS	SHFT		120			WR	NIZA	E
810711	171700.0	FRMUR	SHFT	5.0	8			WR		N
810716		USNTS	SHFT		120			WR	PINEAU	E
810717	023715.7	CPKTS	UNDG	5.1	8.4	49.810N	078.160E			N
810718	174300.0	FRMUR	SHFT	4.5	2			WR		N
810803	183258.6	FR	SHFT	5.1	15	21.833S	138.900W	WR		N
810805		USNTS	SHFT		120			WR	HAVARTI	E
810814	022712.8	CPKTS	UNDG	4.9	5.6	49.791N	078.121E			N
810827		USNTS	SHFT		120			WR	ISLAY	E
810902	040003.9	CP	UNDG	4.4	2.6	60.590N	055.700E			N
810904		USNTS	SHFT		120			WR	TREBBIANE	
810913	021718.2	CPKTS	UNDG	6.0	71	49.910N	078.915E			N
810924		USNTS	SHFT		120			WR	CERNADA	E
810926	045957.4	CP	UNDG	5.2	8.6	46.820N	048.280E			N
810926	050357.0	CP	UNDG	5.3	10	46.790N	048.270E			N
810930	125500.0	CPKTS	UNDG	4.6	0.19	50.000N	078.000E			N

811001		USNTS	SHFT		20-150			WR	PALIZA	E
811001	121456.9	CPNZ	UNDG	6.0	113	73.320N	054.550E			N
811018	035702.6	CPKTS	UNDG	6.0	66	49.923N	078.859E			N
811022	135957.4	CP	UNDG	5.1	13	63.790N	097.540E			N
811106	170300				0-5				LETO	Z
811111		USNTS	SHFT		20-150			WR	TILCI	E
811111	170658.7	FR	SHFT	4.6	3	21.833S	138.991W	WR		N
811112		GBNTS	SHFT		20-150			WR	ROUSANNEE	
811120	045702.6	CPKTS	UNDG	5.1	8.2	49.740N	078.160E			N
811129	033508.6	CPKTS	UNDG	5.7	32	49.987N	078.860E			N
811203		USNTS	SHFT		20-150			WR	AKAVI	E
811205	165759.0	FR	SHFT	4.8	5	21.848S	138.774S	WR		N
811208	164658.7	FR	SHFT	5.1	15	21.808S	138.896W	WR		N
811216		USNTS	SHFT		120			WR	CABOC	E
811222	043102.6	CPKTS	UNDG	5.0	6.6	49.831N	078.147E			N
811227	034314.1	CPKTS	UNDG	6.2	176	49.923N	078.795E			N
820128		USNTS	SHFT		20-150			WR	JORNADA	E
820212		USNTS	SHFT		20-150			WR	MOLBO	E
820212		USNTS	SHFT		20-150			WR	HOSTA	E
820219	035611.1	CPKTS	UNDG	5.4	14	49.824N	078.069E			N
820220	173300.0	FRMUR	SH?	4.6	3			WR		N
820224	181500	FR			0-5				DEIPHOBENZ	
820320	170257.8	FR	SHFT	5.2	15	21.996S	138.941W	WR		N
820323	170700	FR			0-5				EVENOS	Z
820417		USNTS	SHFT		120			WR	TENAJA	E
820425		GBNTS	SHFT		20-150				GIBNE	E
820425	032305.2	CPKTS	UNDG	6.0	77	49.903N	078.913E			N
820506		USNTS	SHFT		120			WR	KRYDDOSTE	
820507		USNTS	SHFT		20-150			WR	BOUSCHETE	
820611	105900.0	CPKTS	UNDG	4.7	0.24	50.000N	078.000E			N
820616		USNTS	SHFT		120			WR	KESTI	E
820624		USNTS	SHFT		20-150			WR	NEBBILOE	
820625	020304.7	CPKTS	UNDG	4.8	3.6	49.810N	078.132E			N
820627	170000.0	FRMUR	SHFT	4.4	2			WR		N
820701	170158.8	FR	SHFT	5.3	20	21.766S	139.050W	WR		N
820704	011714.2	CPKTS	UNDG	6.2	158	49.960N	078.807E			N
820712	102900.0	CPKTS	UNDG	4.6	0.19	50.000N	078.000E			N
820721	171300.0	FRMUR	SHFT	4.5	2			WR		N
820725	180158.1	FR	SHFT	5.7	55	21.864S	138.943W	WR		N
820729		USNTS	SHFT		20-150			WR	MONTEREYE	
820730	210002.9	CP	UNDG	5.0	10	53.800N	104.140E			N
820731	070800.0	CP	UNDG	4.0	0.13	47.000N	048.000E			N
820805		USNTS	SHFT		20-150			WR	ATRISCO	E
820811		USNTS	SHFT		120			WR	QUESO	E
820823	024304.2	CPKTS	UNDG	4.7	2.8	49.788N	078.092E			N
820828	090900.0	CP	UNDG	4.0	0.13	47.000N	048.000E			N
820831	013100.7	CPKTS	UNDG	5.3	11	49.924N	078.761E			N
820831	084000.0	CP	UNDG	4.6	0.53	47.000N	048.000E			N
820902		USNTS	SHFT		120			WR	CERRO	E
820904	054700.0	CPKTS	UNDG	4.1	0.06	50.000N	078.000E			N
820904	175958.5	CP	UNDG	5.3	21	69.210N	081.640E			N
820915	043300.0	CPKTS	UNDG	5.1	0.62	50.000N	078.000E			N
820921	025700.8	CPKTS	UNDG	5.2	9.2	49.801N	078.151E			N
820923		USNTS	TUNN		120			WE	HURONLANE	
820923		USNTS	TUNN		120			WE	DIAMONDAE	
820923		USNTS	SHFT		20-150			WR	FRISCO	E
820925	175957.3	CP	UNDG	5.2	17	64.330N	081.800E			N
820929		USNTS	SHFT		1150			WR	BORREGO	E

821001	131000.0	CP	UNDG	4.0	0.13	47.000N	048.000E				N
821005		PCLNR	UNDG								N
821010	045956.8	NEVA-1					1502				N
821010	045956.8	CPYAK	UNDG	5.3	16	61.53N	112.86E	PNE	NEVA-1	ISC	N
821011	071458.3	CPNZ	UNDG	5.6	44	73.370N	054.340E				N
821016	055957.3	CP	UNDG	5.2	8.6	46.770N	048.220E				N
821016	060457.4	CP	UNDG	5.2	8.6	46.770N	048.240E				N
821016	060957.3	CP	UNDG	5.2	8.6	46.770N	048.220E				N
821027	072800.0	CP	UNDG	4.0	0.13	47.000N	048.000E				N
821112		USNTS	SHFT		120			WR	SEYVAL		E
821121	061000.0	CP	UNDG	4.4	0.65	55.000N	050.000E				N
821129	191900.0	CP	UNDG	4.1	0.32	55.000N	050.000E				N
821130	094900.0	CP	UNDG	4.5	0.42	47.000N	048.000E				N
821205	033712.5	CPKTS	UNDG	6.1	97	49.919N	078.813E				N
821210		USNTS	SHFT		20-150			WR	MANTECA		E
821225	042305.2	CPKTS	UNDG	4.8	3.6	49.807N	078.068E				N
821226	033514.2	CPKTS	UNDG	5.7	30	50.071N	078.988E				N
830201	135500.0	CP	UNDG	4.3	0.26	47.000N	048.000E				N
830211		USNTS	SHFT		120			WR	COALORA		E
830217		USNTS	SHFT		120			WR	CHEEDAM		E
830224	141100.0	CP	UNDG	4.3	0.26	47.000N	048.000E				N
830225	065300.0	CP	UNDG	4.2	0.21	47.000N	048.000E				N
830302	084530.0	CP	UNDG	3.8	0.31	48.000N	049.000E				N
830326		USNTS	SHFT		20-150			WR	CABRA		E
830330	041700.0	CPKTS	UNDG	5.0	0.49	49.000N	079.000E				N
830412	034105.2	CPKTS	UNDG	4.9	0.39	49.810N	078.220E				N
830413		USNTS	SHFT		1150			WR	TURQUOISE		N
830419	185258.4	FR	SHFT	5.5	40	21.847S	138.906W	WR			N
830422		GBNTS	SHFT		120				ARMADA		E
830425	170300.0	FRMUR	SHFT	4.2	1			WR			N
830504	050000.0	PCLNR	TUNN	4.4	20-100						N
830505		USNTS	SHFT		120			WR	CROWDIE		E
830525	173058.2	FR	SHFT	5.6	40	21.895S	138.918W	WR			N
830526		USNTS	TUNN		120			WE	MINIJADEE		N
830526		USNTS	SHFT		120			WR	FAHADA		E
830530	033344.8	CPKTS	UNDG	5.5	18	49.740N	078.190E				N
830609		USNTS	SHFT		120			WR	DANABLU		E
830612	023643.7	CPKTS	UNDG	6.1	81	49.910N	078.970E				N
830618	173100.0	FRMUR	SHFT	4.6	3			WR			N
830624	025611.2	CPKTS	UNDG	4.7	2.8	49.820N	078.120E				N
830628	174558.6	FR	SHFT	5.5	35	21.745S	138.917W	WR			N
830710	035957.3	CP	UNDG	5.3	21	51.330N	053.290E				N
830720	203000.0	FRMUR	SHFT	5.0	10	22S	139W	WR			N
830728	034100.0	CPKTS	UNDG	5.0	0.49	49.000N	079.000E				N
830803		USNTS	SHFT		120			WR	LABAN		E
830804	171358.2	FR	SHFT	5.0	8	21.835S	138.922W	WR			N
830811		USNTS	SHFT		120			WR	SABADO		E
830818	160958.6	CPNZ	UNDG	5.9	89	73.380N	054.870E				N
830827		USNTS	SHFT		120			WR	JARLSBERE		N
830901		USNTS	SHFT		20-150			WR	CHANCELLE		N
830911	063310.5	CPKTS	UNDG	4.9	4.5	49.890N	078.210E				N
830921		USNTS	TUNN		120			WE	TOMIZEPHE		N
830921	152500.0	BRANCO					293 NTS02	LLNL			N
830921	152500.0	USNTSYSS1			120			WR	BRANCO		E
830921	152500.0	BRANCO-HERKIMER					427 NTS02	LLNL			N
830921	152500.0	USNTSYSS1			120			WR	BRANCO-HE		N
830921	162459.7	USNTS				37.113N	116.043W		**		N
830922		USNTS	SHFT		1150			WR	TECHADO		E

830924	045957.1	CP	UNDG	5.1	6.8	46.820N	048.290E				N
830924	050457.2	CP	UNDG	5.0	5.4	46.820N	048.280E				N
830924	050957.5	CP	UNDG	4.9	4.2	46.860N	048.270E				N
830924	051457.1	CP	UNDG	5.2	8.6	46.780N	048.300E				N
830924	052457.4	CP	UNDG	5.2	8.6	46.840N	048.230E				N
830925	130957.9	CPNZ	UNDG	5.8	70	73.350N	054.380E				N
830929		USNTS	SHFT		120			WR		NAVATA	E
831006	014706.8	CPKTS	UNDG	6.0	67	49.930N	078.840E				N
831006	100002.8	PCLNR	UNDG	5.5	20-100	41.550N	088.767E				N
831026	015505.0	CPKTS	UNDG	6.1	101	49.890N	078.900E				N
831120	032704.6	CPKTS	UNDG	5.5	18	50.060N	079.020E				N
831129	021906.7	CPKTS	UNDG	5.4	14	49.770N	079.020E				N
831203	165800.0	FRMUR	SHFT	4.7	4	22S	139W	WR			N
831207	172800.0	FRMUR	SHFT	5.2	15	22.3S	138.5W	WR			N
831209		USNTS	SHFT		120			WR		MUGGINS	E
831216		USNTS	SHFT		20-150			WR		ROMANO	E
831226	042906.8	CPKTS	UNDG	5.5	18	49.840N	078.220E				N
840131		USNTS	SHFT		20-150			WR		GORBEA	E
840215		USNTS	TUNN		120			WE		MIDASMYTE	
840219	035703.4	CPKTS	UNDG	5.8	38	49.910N	078.810E				N
840301		USNTS	SHFT		20-150			WR		TORTUGASE	
840307	022906.4	CPKTS	UNDG	5.7	30	50.060N	079.000E				N
840329	051908.2	CPKTS	UNDG	5.9	48	49.940N	079.020E				N
840331		USNTS	SHFT		120			WR		AGRINI	E
840415	031709.1	CPKTS	UNDG	5.7	30	49.740N	078.160E				N
840425	010903.5	CPKTS	UNDG	5.9	48	49.950N	078.940E				N
840501		GBNTS	SHFT		20-150					MUNDO	E
840502		USNTS	SHFT		120			WR		ORKNEY	E
840508	172600.0	FRMUR	SHFT	5.3	20			WR			N
840512	173058.3	FR	SHFT	5.7	3.8	55	21.852S	138.961W	WR		N
840516		USNTS	SHFT		120			WR		BELLOW	E
840526	031312.4	CPKTS	UNDG	6.0	61	49.980N	079.060E				N
840531		USNTS	SHFT		20-150			WR		CAPROCK	E
840612	171600.0	FRMUR	SHFT	4.5	2			WR			N
840616	174357.9	FR	SHFT	5.5	35	21.933S	138.992W	WR			N
840620		USNTS	SHFT		20-150			WR		DUORO	E
840623	025700.0	CPKTS	UNDG	4.4	0.12	50.000N	079.000E				N
840712		USNTS	SHFT		120			WR		NORMANNAE	
840714	010910.5	CPKTS	UNDG	6.2	140	49.890N	078.960E				N
840721	025957.1	CP	UNDG	5.4	27	51.356N	053.249E				N
840721	030457.0	CP	UNDG	5.3	5.5	51.374N	053.257E				N
840721	030957.0	CP	UNDG	5.3	21	51.353N	053.271E				N
840721	074106.0	CP	UNDG	3.8	0.62	48.000N	059.000E				N
840725		USNTS	SHFT		20-150			WR		KAPPELI	E
840802		USNTS	SHFT		120			WR		CORREO	E
840811	185957.4	CP	UNDG	5.1	3.4	65.079N	055.287E				N
840825	185958.6	CP	UNDG	5.4	27	61.876N	072.092E				N
840827	055957.0	CP	UNDG	4.5	3.2	66.770N	033.680E				N
840828	025955.5	CP	UNDG	4.4	2.6	60.826N	057.472E				N
840828	030459.0	CP	UNDG	4.5	3.3	61.000N	058.000E				N
840830		USNTS	SHFT		120			WR		WEXFORD	E
840830		USNTS	SHFT		120			WR		DOLCETTOE	
840909	025906.4	CPKTS	UNDG	5.0	5.7	49.870N	078.180E				N
840913		USNTS	SHFT		20-150			WR		BRETON	E
840915	061500.0	CPKTS	UNDG	5.2	0.79	50.000N	079.000E				N
840917	205957.4	CP	UNDG	4.9	8.4	55.835N	087.408E				N
841002		USNTS	SHFT		120			WR		VERMEJO	E
841003	055957.8	PCLNR	SHFT	5.3	15.70	41.600N	088.733E				N

841018	045705.7	CPKTS	UNDG	4.5	1.8	49.800N	078.140E			N
841025	062957.7	CPNZ	UNDG	5.9	89	73.370N	054.960E			N
841027	015010.6	CPKTS	UNDG	6.2	140	49.950N	078.830E			N
841027	055957.1	CP	UNDG	5.0	5.4	46.860N	048.100E			N
841027	060456.7	CP	UNDG	5.0	5.4	46.840N	048.080E			N
841027	171600.0	FRMUR	SHFT	4.7	3	21.5S	139.1W	WR		N
841102	204458.0	FRMUR	SHFT	5.5	35	21.87S	139W	WR		N
841110		USNTS	SHFT		120			WR	VILLITA	E
841123	035504.8	CPKTS	UNDG	4.7	2.8	49.900N	078.130E			N
841201	165100.0	FR	SHFT	4.2	1	22.5	139.W	WR		N
841202	031906.3	CPKTS	UNDG	5.8	38	49.990N	079.070E			N
841206	172858.3	FR	SHFT	5.6	55	21.890S	138.954W	WR		N
841209		GBNTS	SHFT		20-150				EGMONT	E
841215		USNTS	SHFT		20-150			WR	TIERRA	E
841216	035502.7	CPKTS	UNDG	6.1	81	49.960N	078.860E			N
841219	060004.2	PCLNR	UNDG	4.7	5-50	41.683N	088.450E			N
841220		USNTS	SHFT		120			WR	MINERO	E
841228	035010.7	CPKTS	UNDG	6.0	61	49.860N	078.750E			N
850210	032707.6	CPKTS	UNDG	5.9	48	49.880N	078.820E			N
850315		USNTS	SHFT		20-150			WR	VAUGHN	E
850323		USNTS	SHFT		20-150			WR	COTTAGE	E
850402		USNTS	SHFT		20-150			WR	HERMOSA	E
850406		USNTS	TUNN		120			WE	y RAIN	E
850419	135358.7	CP	UNDG	4.7	5.2	44.440N	057.930E			N
850425	005706.5	CPKTS	UNDG	5.9	48	49.920N	078.970E			N
850430	172857.0	FRMUR	SHFT	5.1	15	22.1S	138.9W	WR		N
850502		USNTS	SHFT		20-150			WR	TOWANDA	E
850508	202800.0	FRMUR	SHFT	5.8	90	21.8S	139.06W	WR		N
850603	173000.0	FRMUR	SHFT	5.1	10			WR		N
850607	174000.0	FRMUR	SHFT	4.8	5			WR		N
850612		USNTS	SHFT		20-150			WR	SALUT	E
850612		USNTS	SHFT		120			WR	VILLE	E
850615	005700.7	CPKTS	UNDG	6.0	61	49.890N	078.880E			N
850626		USNTS	SHFT		120			WR	MARIBO	E
850630	023902.7	CPKTS	UNDG	6.0	61	49.860N	078.700E			N
850711	022700.0	CPKTS	UNDG	4.0	0.05	50.000N	078.000E			N
850718	211457.5	CP	UNDG	5.0	10	65.965N	040.754E			N
850720	005300.0	CPKTS	UNDG	6.7	27	50.000N	079.000E			N
850725		USNTS	SHFT		20-150			WR	SERENA	E
850725	031100.0	CPKTS	UNDG	5.3	1.00	50.000N	079.000E			N
850814		USNTS	SHFT		120			WR	CABRERO	E
850817		USNTS	SHFT		120			WR	CHAMITA	E
850927		USNTS	SHFT		120			WR	PONIL	E
851009		USNTS	TUNN		120			WE	MILLYRDE	E
851009		USNTS	TUNN		120			WE	d BEECH	E
851012		USNTS?							**	N
851016		USNTS	SHFT		20-150			WR	ROQUEFORE	E
851024	175000.0	FRMUR	SHFT	4.5	2			WR	HERO	N
851026	163458.0	FRMUR	SHFT	5.3	4.5	20	21.81S	139W	WR	N
851030		USNTS	SHFT		120			WR	ABO	E
851124	163000.0	FRMUR	SHFT	4.8	5	21.7S	138.8W	WR		N
851126	174200.0	FRMUR	SHFT	5.6	55	21.86S	138.92W	WR		NZ
851205		GBNTS	SHFT		20-150				KINIBITOE	E
851228		USNTS	SHFT		20-150			WR	GOLDSTONE	E
860322		USNTS	SHFT		20-150			WR	GLENCOE	E
860410		USNTS	TUNN		120			WE	MIGHTYOAE	E
860420	231229.9	USNTS	SHFT		120			WR	MOGOLLONE	E
860422		USNTS	SHFT		20-150			WR	JEFFERSOE	E

860426	170156.6	FR	SHFT	4.8	5	22.150S	139.120W	WR		N	
860506	165800.0	FRMUR	SHFT	4.7	5			WR		N	
860521		USNTS	SHFT		120			WE	PANAMINTE		
860527	171500.0	FRMUR	SHFT	4.7	4			WR		N	
860530	172458.2	FR	SHFT	5.4	4.3	30	21.913S	139.100W	WR	N	
860605		USNTS	SHFT		20-150			WR	TAJO	E	
860625		GBNTS	SHFT		20-150				DARWIN	E	
860717		USNTS	SHFT		20-150			WR	CYBAR	E	
860904	160900.1	USNTS	SHFT		120			WR	GALVESTOE		
860724		USNTS	SHFT		120			WR	CORNUCOPE		
860911		USNTS	SHFT		120			WR	ALEMAN	E	
860930		USNTS	SHFT		20-150			WR	LABQUARKE		
861016		USNTS	SHFT		20-150			WR	BELMONT	E	
861110	165800.0	FRMUR	SHFT	4.9	6			WR		N	
861112	170158.5	FR	SHFT	5.3	25	21.894S	139.068W	WR		N	
861114		USNTS	SHFT		20-150			WR	GASCON	E	
861206	171000.0	FRMUR	SHFT	5.0	9			WR		N	
861210	171458.6	FR	SHFT	5.5	30	21.877S	138.986W	WR		N	
861213		USNTS	SHFT		20-150			WR	BODIE	E	
870203	152000.0	HAZEBROOK-EMERALD (GREEN)						186	NTS10	LLNL	
870203	152000.0	USNTSYSS1			120			WR	HAZEBROOE		
870203	152000.0	HAZEBROOK-CHECKERBERRY (RED)						226	NTS10	LLNL	
870203	152000.0	USNTSYSS1			120			WR	HAZEBROOE		
870203	152000.0	HAZEBROOK-APRICOT (ORANGE)						262	NTS10	LLNL	
870203	152000.0	USNTSYSS1			120			WR	HAZEBROOE		
870211		USNTS	SHFT		120			WR	TORNERO	E	
870226	045824.0	CPKTS	UNDG	5.4	14	49.840N	078.120E			N	
870312	015718.0	CPKTS	UNDG	5.5	18	49.940N	078.820E			N	
870318		USNTS	TUNN		120			WE	MIDDLENOE		
870403	011709.0	CPKTS	UNDG	6.2	140	49.900N	078.810E			N	
870417	010304.7	CPKTS	UNDG	6.0	61	49.851N	078.690E			N	
870418		USNTS	SHFT		20-150			WR	DELAMAR	E	
870419	040001.8	CP	UNDG	4.5	3.3	60.781N	056.220E			N	
870419	040501.2	CP	UNDG	4.4	2.6	60.674N	056.295E			N	
870422		USNTS	SHFT		120			WR	PRESIDIOE		
870430		USNTS	SHFT		20-150			WR	HARDIN	E	
870505	165801.0	FRMUR	SHFT	4.8	5	21.6S	138.7W	WR		NZ	
870506	040205.6	CPKTS	UNDG	5.6	23	49.830N	078.125E			N	
870520	170458.0	FRMUR	SHFT	5.4	30	21.87S	138.97W	WR		NZ	
870605	045958.3	PCLNR	SHFT	6.2						N	
870606	023706.9	CPKTS	UNDG	5.3	12	49.865N	078.143E			N	
870606	180001.0	FRMUR	SHFT	4.5	3	21.5S	138.8W	WR		NZ	
870618		USNTS	SHFT		120			WR	BRIE	E	
870620		USNTS	TUNN		120			WE	MISSIONGE		
870620	005304.8	CPKTS	UNDG	6.1	81	49.901N	078.726E			N	
870621	175458.4	FR	SHFT	5.2	15	21.984S	138.844W	WR		N	
870630		USNTS	SHFT		120			WR	PANCHUELE		
870706	235956.9	NEVA-2						1526.6			
870706	235956.9	CPYAK	UNDG	5.1	13	61.50N	112.83E	PNE	NEVA-2	ISC	
870716		GBNTS	SHFT		20-150				MIDLAND	E	
870717	011707.0	CPKTS	UNDG	5.8	38	49.779N	078.128E			N	
870724	015956.9	NEVA-3						1515.2			N
870724	015956.9	CPYAK	UNDG	5.1	13	61.46N	112.78E	PNE	NEVA-3	ISC	
870802	005806.7	CPKTS	UNDG	5.9	48	49.828N	078.898E			N	
870802	015959.5	CPNZ	UNDG	5.8	70	73.289N	054.713E			N	
870812	012957.1	NEVA-4						815.3			N
870812	012957.1	CPYAK	UNDG	5.0	3.2	61.46N	112.79E	PNE	NEVA-4	ISC	
870813		USNTS	SHFT		20-150			WR	TAHOKA	E	

870916	073001.0	CPKTS	UNDG	5.0	6	49.000N	078.000E					N
870918	023157.0	CPKTS	UNDG	4.3	1.1	49.000N	078.000E					N
870924		USNTS	SHFT		20-150			WR		LOCKNEY		E
871003	151457.5	CP	UNDG	5.2	17	47.630N	056.220E					N
871016	060600.0	CPKTS	UNDG	4.6	2.2	49.000N	078.000E					N
871023		USNTS	SHFT		20-150			WR		BORATE		E
871023	164959.0	FRMUR	SHFT	5.6	50	21.78S	139.05W	WR				NZ
871105	172955.5	FR	SHFT	5.2	20	22.340S	138.970W	WR				N
871115	033106.7	CPKTS	UNDG	6.0	61	49.879N	078.790E					N
871119	163058.5	FR	SHFT	5.7	60	21.878S	139.037W	WR				N
871129	175900.0	FRMUR	SHFT	4.6	3	22S	139W	WR				N
871201		USNTS	SHFT		120			WR		WACO		E
871202		USNTS	TUNN		120			WE		MISSIONCE		
871213	032104.7	CPKTS	UNDG	6.1	81	49.970N	078.880E					N
871220	025512.0	CPKTS	UNDG	4.8	3.6	50.100N	077.500E					N
871227	030508.0	CPKTS	UNDG	6.1	81	49.900N	078.590E					N
880206	041909.1	CPKTS	UNDG			49.787N	077.975E					I
880213	030506.0	CPKTS	UNDG	6.1		49.930N	078.910E					I
880215		USNTS	SHFT		20-150			WR		KERNVILLE		
880403	013305.9	CPKTS	UNDG	6.0		49.870N	078.920E					I
880407		USNTS	SHFT		120			WR		ABILENE		E
880422	093006.9	CPKTS	UNDG	4.9		49.760N	078.090E					I
880504	005706.8	CPKTS	UNDG	6.1		49.890N	078.760E					I
880507	224958.3	CPNZ	UNDG	5.6		73.350N	054.430E					I
880511	165958.1	FR	SHFT	5.3	20	21.927S	139.107W	WR				N
880513		USNTS	SHFT		1150			WR		SHELLBOE		
880521		USNTS	SHFT		1150			WR		LAREDO		E
880525	170058.0	FR	SHFT	5.8	80	21.899S	139.027W	WR				N
880602		USNTS	SHFT		1150			WR		COMSTOCKE		
880614	022706.4	CPKTS	UNDG	5.1		50.000N	079.000E					I
880616	171457.0	FRMUR	SHFT	4.8	5			WR				N
880622		USNTS	SHFT		1150			WR		RHYOLITEE		
880622		USNTS	SHFT		1150			SF		NIGHTINGE		
880623	173058.5	FR	SHFT	5.4	30	21.928S	139.042W	WR				N
880707		USNTS	SHFT		1150			WR		ALAMO		E
880817		USNTS	SHFT		1150			WR		KEARSGEE		
880822	161958.5	CP	UNDG	5.3		66.310N	078.520E					I
880823		USNTS	SHFT		120			WR		HARLINGEE		
880823	173000.0	HARLINGEN-A					290 NTS06	LANL				
880823	173000.0	USNTSYSS1			120			WR		HARLINGEN		
880823	173000.0	HARLINGEN-B					290 NTS06	LANL				
880823	173000.0	USNTSYSS2			120			WR		HARLINGEN		
880830		USNTS	SHFT		1150			WR		BULLFROGE		
880906	161958.7	CP	UNDG			61.330N	047.980E					I
880914	035957.6	CPKTS	UNDG	6.1		49.810N	078.800E					I
880929	070003.1	PCLNR	TUNN	4.7	1-20	41.750N	088.467E					N
881013		USNTS	SHFT		1150			WR		DAHLHARTE		
881018	034006.7	CPKTS	UNDG	4.9		49.860N	078.100E					I
881025	170000.0	FRMUR	SHFT	4.4	2			WR				N
881105	162957.6	FR	SHFT	5.6	50	22.052S	139.029W	WR				N
881109		USNTS	SHFT		120			WR		MONAHANSE		
881109	201500.0	MONAHANS-A					290 NTS03	LANL				
881109	201500.0	USNTSYSS1			120			WR		MONAHANSN		
881109	201500.0	MONAHANS-B					290 NTS06	LANL				
881109	201500.0	USNTSYSS2			120			WR		MONAHANSN		
881112	033003.8	CPKTS	UNDG	5.4		50.030N	078.980E					I
881123	170058.5	FR	SHFT	5.6	40	22.908S	139.029W	WR				N
881123	035706.8	CPKTS	UNDG	5.4		49.770N	078.060E					I

881130	175454.3	FRFAN SHFT	5.9	100	22.900S	138.910W	WR		N
881204	051953.2	CPNZ UNDG	5.9		73.380N	054.960E			I
881209		USNTS SHFT		120			WR	KAWICH	AE
881209	151500.0	KAWICH A-WHITE				369	NTS08 LLNL		
881209	151500.0	USNTSYSS1		120			WR	KAWICH	AE
881209	151500.0	KAWICH A-BLUE				384	NTS08 LLNL		
881209	151500.0	USNTSYSS1		120			WR	KAWICH	AE
881210		USNTS TUNN		1150			WE	y ECHO	E
881217	041807.0	CPKTS UNDG	5.9		49.850N	078.930E			I
881228	052800.0	CPKTS UNDG			50.000N	079.000E			I
890122	035706.7	CPKTS UNDG	6.0		49.900N	078.830E			I
890210		USNTS SHFT		20-150			WR	TEXARKANE	
890212	041506.9	CPKTS UNDG	5.8		49.900N	078.750E			I
890217	040106.8	CPKTS UNDG	5.1		49.770N	078.070E			I
890224	161500.0	KAWICH-RED				370	NTS02 LLNL		
890224	161500.0	USNTSYSS1		120			WR	KAWICH-RE	
890224	161500.0	KAWICH-BLACK				431	NTS02 LLNL		
890224	161500.0	USNTSYSS1		120			WR	KAWICH-BE	
890309		USNTS SHFT		20-150			WR	INGOT	E
890511	163348.2	FRMUR SH?	5.5		21.700S	139.100W			I
890515	121000.0	PALISADE-1				345	NTS04 LLNL		
890515	121000.0	USNTSYSS1		120			WR	PALISADEE	
890515	121000.0	PALISADE-2				392	NTS04 LLNL		
890515	121000.0	USNTSYSS1		120			WR	PALISADEE	
890515	121000.0	PALISADE-3				404	NTS04 LLNL		
890515	121000.0	USNTSYSS1		120			WR	PALISADEE	
890520	175900	FR	4.1	0-10					Z
890526		USNTS SHFT		120			WR	TULIA	E
890603	172958.8	FRMUR SH?	5.2		21.800S	139.100W			I
890610	172959.0	FRMUR SH?	5.5		22.260S	138.720W			I
890622		USNTS SHFT		20-150			WR	CONTACT	E
890627		USNTS SHFT		20-150			WR	AMARILLOE	
890708	034657.7	CPKTS UNDG	5.6		49.860N	078.810E			I
890902	041657.3	CPKTS UNDG	5.1		50.030N	079.020E			I
890914		USNTS TUNN		120			WE	DISKOELME	
891004	112957.9	CPKTS UNDG	4.7		49.830N	078.090E			I
891019	094957.3	CPKTS UNDG	5.9		49.900N	078.970E			I
891024	162958.5	FRMUR SH?	5.4		21.850S	139.010W			I
891031		USNTS SHFT		20-150			WR	HORNITOSE	
891031	165658.9	FRMUR SH?	5.2		21.760S	138.980W			I
891115		USNTS SHFT		120			WR	MULESHOE	E
891120	172858.7	FRMUR SH?	5.3		21.790S	130.000W			I
891127	165959.0	FRMUR SH?	5.6	4.0	22.370S	138.960W			I
891208		GBNTS SHFT		20-150				BARNWELLE	
891220	220000.0	WHITEFACE-B				183	NTS03 LANL		
891220	220000.0	USNTSYSS1		120			WR	WHITEFACE	
891220	220000.0	WHITEFACE-A				197	NTS03 LANL		
891220	220000.0	USNTSYSS1		120			WR	WHITEFACE	
900310		USNTS SHFT		20-150			WR	METROPOLE	
900406		USNTS SHFT		120			WR	BOWIE	E
900526	075957.8	PCLNR SHFT	5.4	15-65	41.567N	088.683E			N
900602	172959.0	FRMUR SH?	5.3	4.3	30	21.820S	138.940W		DI
900607	174900.0	FRMUR SH?	4.3	3					D
900613		USNTS SHFT		20-150			WR	BULLION	E
900621		USNTS SHFT		120			WR	AUSTIN	E
900626	175958.4	FRFAN SH?	5.5	4.3	100	22.200S	138.830W		DI
900704	175958.8	FRMUR SH?	4.9	18	21.800S	139.100W			DI
900725	170000.0	MINERAL QUARRY				389	NTS12 LANL,DOD		

900725	170000.0	USNTRSRTUN1			120				WR	MINERALQE
900725	170000.0	RANDBURG					389	NTS12	LANL, DOD	
900725	170000.0	USNTRSRTUN1			120				WR	RANDBURE
900816	045957.6	PCLNR SHFT	6.2		50-200	41.567N	081.567E			N
900920	161500.0	SUNDOWN-B					256	NTS01	LANL	
900920	161500.0	USNTRSYSS1			120				WR	SUNDOWN-E
900920	161500.0	SUNDOWN-A					270	NTS01	LANL	
900920	161500.0	USNTRSYSS1			120				WR	SUNDOWN-E
900927		USNTR SHFT			120				WE	LEDOUX E
901012		USNTR SHFT			20-150				WR	TENABO E
901024	145758.3	CPNZ UNDG	5.7			73.360N	054.670E			I
901114		GBNTR SHFT			20-150					HOUSTON E
901114	181158.4	FRMUR SH?	5.6	5.8	117	22.200S	138.840W			DI
901121	165958.4	FRMUR SH?	5.4		36	21.900S	138.980W			DI
910308	210200.0	COSO-BRONZE					333	NTS04	LLNL	
910308	210200.0	USNTRSYSS1			120				WR	COSO-BROE
910308	210200.0	COSO-GRAY					442	NTS04	LLNL	
910308	210200.0	USNTRSYSS1			120				WR	COSO-GRAE
910308	210200.0	COSO-SILVER					475	NTS04	LLNL	
910308	210200.0	USNTRSYSS1			120				WR	COSO-SILE
910404		USNTR SHFT			20-150				WR	BEXAR E
910416		USNTR SHFT			20-150				WR	MONTELO E
910507	170000.0	FRMUR SH?	3.8		1					D
910518	171458.5	FRMUR SH?	5.1		16	21.832S	139.014W			D
910529	185958.2	FRMUR SH?	5.5		107	22.256S	138.794W			E
910614	175957.9	FRMUR SH?	5.4		28	21.944S	138.988W			D
910705	180000.0	FRMUR SH?	3.8		0.3					D
910715	180958.3	FRMUR SH?	5.3		34	21.877S	138.963W			E
910815		USNTR SHFT			120				WR	FLOYDADAE
910914		USNTR SHFT			20-150				WR	HOYA E
910919		USNTR TUNN			120				WE	DISTANTZE
911018		USNTR SHFT			20-150				WR	LUBBOCK E
911126		GBNTR SHFT			120					BRISTOL E
920326		USNTR SHFT			20-150				WR	JUNCTIONE
920430		USNTR TUNN			120				WE	dFORTUNEE
920521	045957.4	PCLNR UNDG	6.6		700-1800	41.583N	088.880E			N
920619		USNTR SHFT			120				WR	VICTORIAE
920623	140000.0	GALENA-YELLOW					290	NTS04	LLNL	
920623	140000.0	USNTRSYSS1			120				WR	GALENA-YE
920623	140000.0	GALENA-ORANGE					380	NTS09	LLNL	
920623	140000.0	USNTRSYSS1			120				WR	GALENA-OE
920623	140000.0	GALENA-GREEN					400	NTS09	LLNL	
920623	140000.0	USNTRSYSS1			120				WR	GALENA-GE
920918	170000.0	USNTR TUNN	4.4		120	37.207N	116.210W		WE	HUNTERSTE
920923		USNTR SHFT			120				WR	DIVIDER E
920925	804000.0	PCLNR UNDG	5.4		1-2					N
931005	020000	PCLNR UNDG	5.8			41.7N	088.6E			
940610	062600	PCLNR UNDG	5.7			41.64N	088.86E			C
941007	032558.2	PCLNR				41.55N	089.07E			R
950515	040559.6	PCLNR UNDG	5.7			41.630N	088.870E			G
950817	005959.3	PCLNR UNDG	5.5			41.600N	088.860E			G
950905	213000.4	FRMUR UNDG	4.7			21.850S	138.940W			G
951001	232959.4	FRFAN UNDG	5.2	3.9		22.250S	138.760W			G
951027	220000.0	FRMUR UNDG	5.3		60	21.820S	139.050W			G
951121	212959.9	FRMUR UNDG	4.6			21.900S	138.960W			G
951227	212959.8	FRMUR UNDG	5.0			21.800S	139.090W			G
960127	212959.5	FRFAN UNDG	5.1			22.270S	138.780W			G
960608	025559.4	PCLNR UNDG	5.7	4.0		41.65N	88.76E			G

960729	014859.1	PCLNR	UNDG	4.7			41.69N	88.35E		G
980511	101344.2	INRAJ	UNDG	5.1	3.6	43	27.072N	71.761E	SHAKTI1	Gi
980511	101344.2	INRAJ	UNDG			12	27.072N	71.761E	SHAKTI2	Gi
980511	101344.2	INRAJ	UNDG			0.2	27.072N	71.761E	SHAKTI3	Gi
980513	0651	INRAJ	UNDG	3?		0.5	27.1N	71.7E	SHAKTI4	i
980513	0651	INRAJ	UNDG	3?		0.3	27.1N	71.7E	SHAKTI5	i
980528	101617.6	PKCHA	UNDG	4.9	3.6	?	28.903N	64.893E		G
980528	101617.6	PKCHA	UNDG	4.9	3.6	?	28.903N	64.893E		G
980530	065506.3	PKCHA	UNDG	4.3		?	28.513N	63.865E		G
061009	013528	NK	TUNN	4.2		1-10	41.294N	129.134E		L

980528, 980530 There is some doubt as to how many tests occurred at each of these days. It appears that 980528 probably included not less than two tests.

710429 NTS Mine Throw may have been a chemical explosion.

Threshold Test Ban Treaty Verification to date:

USSR/Russian Federation tests verified by the US: None

UK tests at the NTS verified by the Russian Federation: None

US tests verified by the USSR: HOYA On-site inspection at NTS
 JUNCTION hydrodynamic method at NTS
 JUNCTION seismic method at TUL, RSSD, NEW