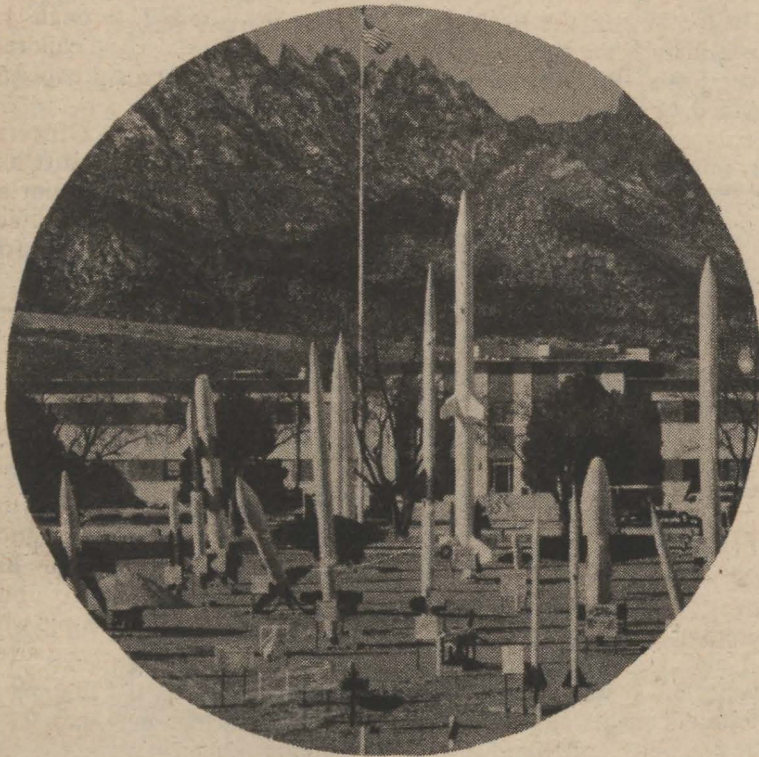


# RANGER

Published in the Interest of Personnel at White Sands Missile Range

VOLUME 43 — NUMBER 27

FRIDAY, JULY 6, 1990



# 45<sup>th</sup> Anniversary

by Monte Marlin

Since its inception, White Sands Missile Range has had a full and varied mission. The past five years have been no exception.

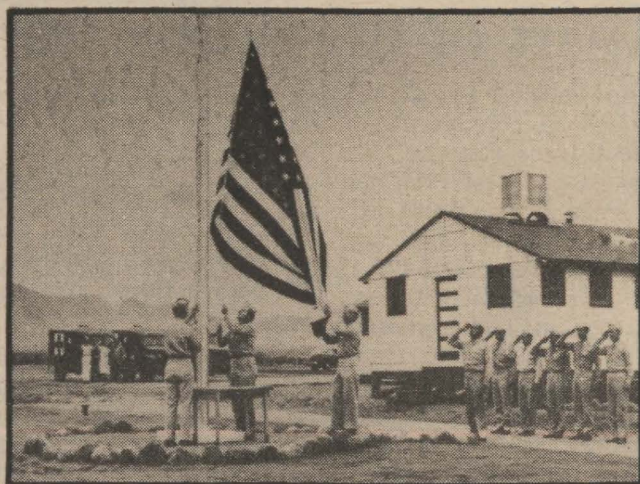
During Fiscal Years 1985 through 1989, more than 20,000 tests were conducted at the missile range. The range civilian, military and contractor workforce averaged about 9,100 employees during those years.

Below is just a very small sampling of what has occurred here since 1985.

- The last Aerobee high altitude research rocket was fired by the Naval Ordnance Missile Test Station on Jan. 17, 1985. The Aerobee, which reached altitudes as high as 720 miles, was the oldest continuous firing program on range. More than 600 Aerobees were fired from WSMR between 1947 and 1985.

- The Defense Nuclear Agency conducted three high explosive tests - Minor Scale, using 4,800 tons of ammonium nitrate and fuel oil (ANFO), in June 85; Misty Picture, also using about 4,800 tons of ANFO, in May 1987 and Misers Gold, using 2,440 tons of ANFO, in June 1989. These tests were designed to expose experiments

*Continued on page 5*



Post Headquarters, 1945



Post Headquarters, 1990

*White Sands Missile Range*



# COMMENTARY

Opinions expressed on the editorial page are those of various writers and do not necessarily reflect the opinion of the Department of the Army or White Sands Missile Range. All letters to the editor (except those defaming identifiable individuals or containing obscenities) will be published. Names are withheld from printing upon request; however, all letters must be signed. The newspaper staff reserves the right to edit submissions for clarity and brevity.

## Civilian Corner

# Federal, military pay hikes seem more secure

Irv Rubenstein

*Editor's Note: This column offers news of interest to federal employees. Information is furnished courtesy of the WSMR Chapter of the Federal Managers' Association (FMA).*

\*\*\*

*Some More Good News To Report!* - Last week I used the term "believe-it-or-not," in reporting some good news. There is more "good" news to report this week. Our pay now stands a better chance to be increased by about six percent over the president's proposal than it had last week. Word has reached the street that federal and military pay seem secure in the budget reduction agenda.

A discussion with a staff member of the House Armed Services Committee revealed that there could indeed be a drastic cut (as much as \$27 billion) in the budget summit process over the next two years. Between the Armed Services and Appropriations Commit-

tees of the House, there has been some agreement that "down-sizing" of the military and some weapons program reductions for systems still on the drawingboards, could take up the slack and keep pay and allowances sacred. Reduction of the military numbers will not necessarily cause an equal number of civilian positions to disappear. Time alone will tell.

*Early Out Initiative Gets New Life* - Because of some high interest on the part of the WSMR workforce on the subject of Early Out, I have been reporting on initiatives in the early out process. Most of the reports I have made reflected the mood that any passage of a bill this year was unlikely.

Well folks, I found out last Tuesday, that such is not the case. There are two known initiatives on this subject floating on Capitol Hill: The Boxer Bill (H.R. 4531) and the Roth proposal to amend one of the upcoming bills in the Senate.

The Boxer Bill seems to have

received a new interest transfusion. A staffer of Rep. Ford's Committee on Civil Service and Post Office revealed last week that there is a lot of movement to get the Boxer Bill moving through the House in the remaining days of this session. The movement seems to have a lot to do with deficit reduction and a very important backing from the National Federation of Federal Employees.

In most instances, labor organizations oppose early out legislation because of the restrictions in filling vacancies. In the line with the support by the National Federation of Federal Employees, is the "silence" on the part of the American Federation of Government Employees on the legislation.

Here is a brief review of the Boxer Bill - an allowance of extra service time or age credit for DoD employees wishing to retire when a RIF is declared. Although the bill is primarily designed for base closure

scenarios, pundits on Capitol Hill feel that the language would extend to other RIF actions.

In the case of the Roth proposal, here is the latest agenda. Sen. Roth (R-Del.) has now decided to offer his early out version as an amendment to any pay reform bill that might be of-

fered in this session. Of course there is still no movement on pay reform and none is expected in this session. More information of the pay reform process appears below.

*Pay Reform Hits A Stonewall*  
Quite a few nuances in the title

Continued on page 7

## Stay tuned for this thriller

by Will Hugh Read

Mowing the lawn is a fun thing, at best, and when you incorporate a small-screen teevee on the mower, it gives one a new perspective on film titles.

Take the other day. The smooth-voiced guy on the tube said: "Stay tuned for Humphrey Bogart and Ingrid Bergman in 'Just a Moment.'"

I didn't remember it by that name, but it was a good show. It sort of made me want to see the next show, "Richard Burton

and Elizabeth Taylor in one of filmdom's classics; 'We'll be Right Back'."

By that time I had the Bermuda grass down to the level of the tifgreen and I was ready for more.

"Be sure and tune in Mel Gibson's latest, 'You'll Be Glad You Did'."

Who knows? Maybe I'll even go back to watching the set in the house. That is, if I thought they'd show that ever-popular "Coming Right Up."

## Letters to the Editor

# MPs there to help, telephone operators part of life-saving team

Dear Editor:

This letter concerns the recent (June) bomb threat at the NCO/ENL Club.

First of all, I want the person who called in with the threat to know that he not only scared the employees, customers and band members half to death, not one of us really appreciated

our fun-filled street dance to be interrupted and all of us being forced to crouch down two blocks away for three hours.

Second, the the MPs on duty that night: Thanks for the non-availability to the "victims" of water, shelter or rest rooms and to the MPs that kept cruising past this crowd of victims way above the speed limit.

Luckily not one of you hit one of us. Come on, guys, we all deserve better treatment.

A happy note: We still have an NCO/ENL Club to enjoy!

Name withheld

## All bomb threats treated as real

My Military Police were there for your protection and safety. Had you requested a restroom or water I can assure you that they would have given you directions.

It is agreed that those who threaten the well-being of people with bomb threats or actual incidents are totally inconsiderate.

That is why they are called terrorist. They invoke fear into people just to satisfy their personal political motives.

In reference to you being forced to crouch down for three hours, I have found that the only time the "victims" were informed to do this was by direction of the EOD officer five minutes prior to until and five minutes after the time the explosive devices were to have detonated.

This was done for your safety even though you were evacuated to a safe distance.

As far as I can ascertain no one, except responding emergency personnel and the building custodian, were "required" to remain in the area until the building had been properly cleared.

Response to every bomb threat is treated as if there were an actual bomb present and the safety of the public is our primary concern. Therefore, a time consuming and complete search will be conducted until we can vouch for your safety.

As to the MP's "cruising past the victims way above the speed limit" I can vouch that during this my operations sergeant's presence and may own presence we did not observe any such incidents.

John P. Rouse  
Maj., MP  
Director, Law  
Enforcement and Security

## Phone operators do their very best

*Editor's note: The following letter is in response to a letter that*

appeared in the Missile Ranger the week of June 15.

\*\*\*

The USAISC-White Sands Telephone Operators handle many emergency situations and on many occasions have helped to save lives.

In the letter written by Mrs. Susanne Dies, she stated that she had heard that an operator refused to send an airlift for a heart attack victim on War Road.

On the afternoon in question, WSMR Operators received two calls reporting this incident. The operator who answered the emergency calls did not make a decision on type of services required; the operator passed the call to the Military Police and McAfee Clinic for action. This was as it should have been.

The USAISC-White Sands Telephone Operators have always been part of the life saving team and will continue to do their best to handle all emergency situations at WSMR.

Arthur M. Kelly, Jr.  
Col. SC  
Commanding

# MISSILE RANGER

Published in the Interest of Personnel at White Sands Missile Range

The Missile Ranger is an offset civilian newspaper enterprise published weekly in the interest of the military and civilian personnel of White Sands Missile Range, New Mexico, by E. E. and M. J. White. It is not an official or semi-official Department of Defense publication. Circulation is 6,000 copies to approximately 15,000 military, civil service and contractor employees and their families.

All news copy and photographs submitted for publication should be sent to the Public Affairs Office, White Sands Missile Range, NM 88002, phone (505) 678-2716. All news photographs reproduced in this newspaper are official Army photographs unless otherwise stated.

Advertising and publisher's offices are located at 1595 W. Picacho Avenue, Suite 13, Las Cruces, New Mexico, phone (505) 526-4851. Mailing address is P.O. Box 51, Las Cruces, NM 88004. Everything advertised in this newspaper must be made available for purchase, use or patronage without regard to sex, race, creed, color or national origin of the purchaser, user or patron. A confirmed violation or rejection of this policy of equal opportunity by an advertiser will result in the refusal to print advertising from that source.

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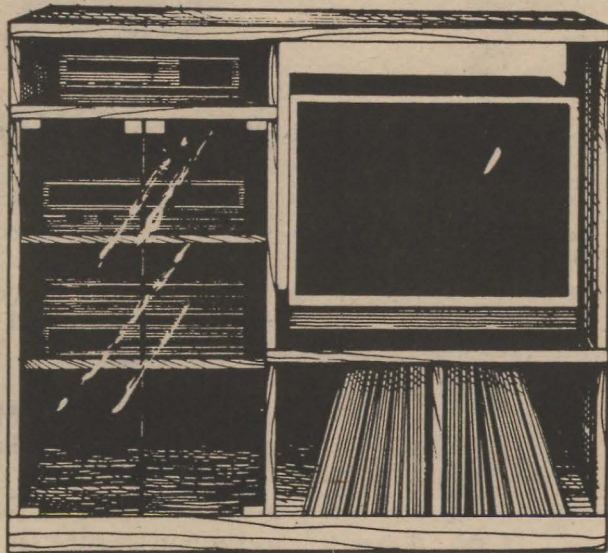
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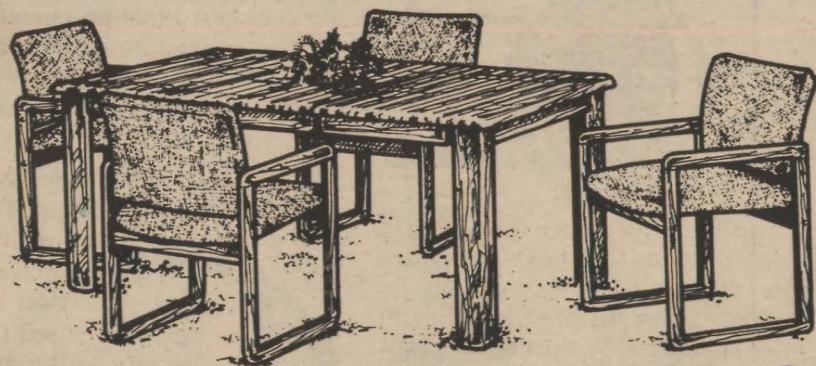
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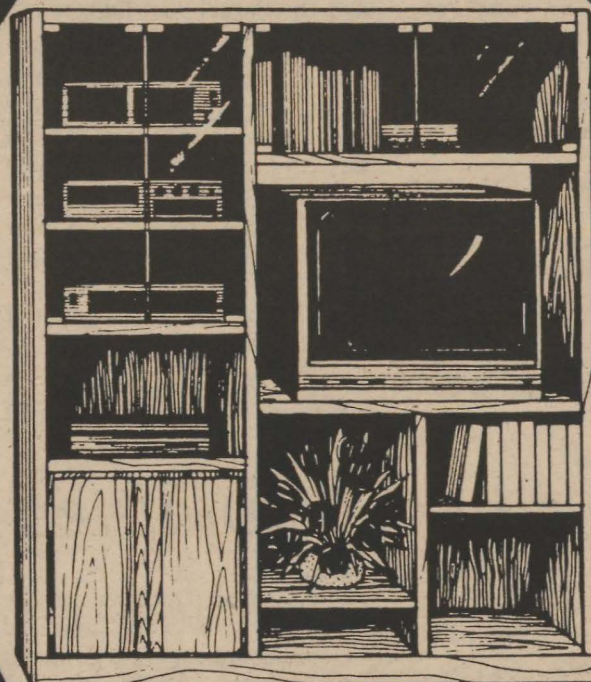


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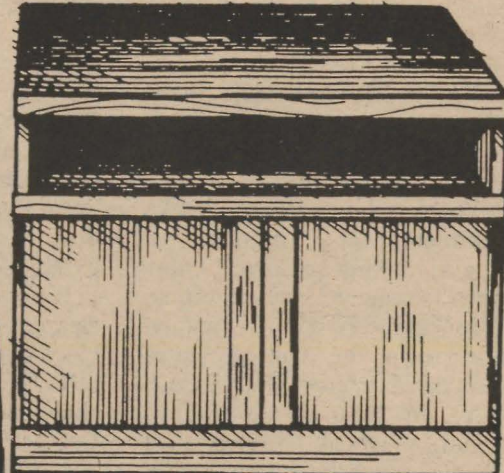
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# SECOND FRONT

## ARMTE Director to retire

Col. Alan F. Jones, ARMTE director, is retiring after 27 years of military service. A retirement luncheon is planned for Jones and his wife, Lola, on July 24 at the Officers Club at 11 a.m.

Tickets are \$4.55 each and can be obtained from Capt. King, 678-1185; Room 203, Bldg. 1678, or SGM Cornell, 678-5390, Room 227, Bldg. 1504. The menu is open face hot roast beef sandwich. Tickets are limited, so get yours early.

Those who wish to make comments, 2-3 minutes in length, let King or Cornell know when making your reservations.

Jones received his commission from the United States Military Academy, West Point, N.Y., in June of 1963. Thus began a most distinguished military career spanning nearly 27 years.

During his career, Jones performed in a variety of key com-

mand and staff positions to include two combat tours in Vietnam. He served as Director of Research, Analysis, and Investigation, U.S. Army Safety Center, Fort Rucker, Ala.; operations officer, 6th Army Flight Detachment; commander, 14th Aviation Battalion; and executive officer, Office of the deputy chief of staff for Operations, Firepower Division, Headquarters, Department of the Army. Prior to assuming his current position, Jones was assigned as the deputy commander of the Army Safety Center.

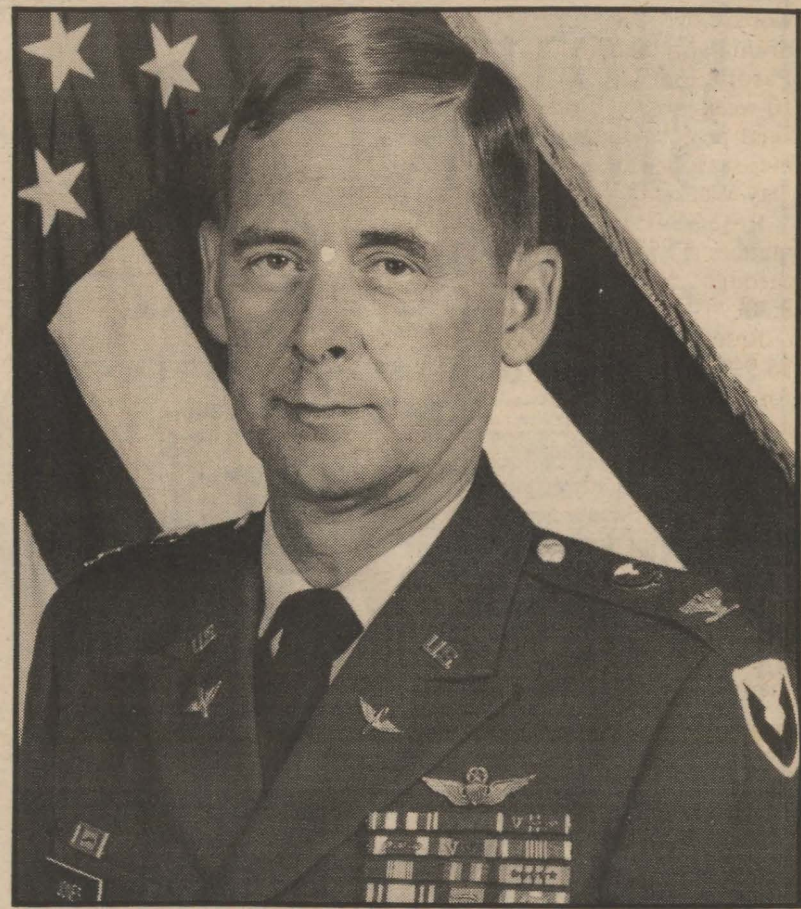
Jones earned a Masters Degree in Physics from the University of Texas at El Paso in 1971. His military schools include attendance at the Air Defense Officer Basic Course, Airborne School, Rotary Wing Aviation School, Air Defense Officer Advanced Course, Command and General Staff Col-

lege, and the National War College.

Jones' awards include the Silver Star, the Bronze Star Medal with two Oak Leaf Clusters, one with "V" Device, the Meritorious Service Medal with three Oak Leaf Clusters, 32 awards of the Air Medal, one with "V" Device, the Army Commendation Medal, the Master Army Aviator Badge and the Parachutist Badge.

Jones is currently the director of the Army Materiel Test and Evaluation Directorate, White Sands Missile Range, N.M. In this capacity, he is responsible for testing and evaluating Army missile and rocket weapon systems, missile and rocket warheads, command and control systems, and other materiel and software.

Upon retirement July 31, Jones and wife will reside in El Paso, Texas.



Col. Alan F. Jones

## WBGT index described, explained

The heat injury potential of summer weather varies with the type of climate. Weather conditions, in addition to air temperature, influence the degree of heat stress experienced by our bodies, including the temperatures of surrounding objects, relative humidity and air movement.

When weather is hot but humidity low, temperatures in the 100° F range may be tolerated well. Dry, moving air improves the efficiency of our internal cooling system by rapidly evaporating perspiration and lowering body temperatures.

In sharp contrast, tropical air, high water vapor with little air movement, produces high

heat stress at much lower temperatures, since the body can't dissipate heat generated by working muscles.

The best guide to heat stress imposed on the body is the WBGT (Wet Bulb Globe Temperature) index, which is described and explained below. A period of 10 days to two weeks of onsite activity is required for acclimatization of personnel.

### Unacclimatized Personnel WBGT Index

78° - Safe for all but extremely intense physical exertion in unacclimatized personnel.

82° - Use discretion in planning heavy exercise (foxhole digging, double time) in unacclimatized

personnel.

85° - Suspend strenuous activity (marching) for unacclimatized personnel during first 3 weeks of training. Avoid outdoor classes in the sun.

88° - Stop all strenuous activity for trainees. No physical activity in the sun.

### Acclimatized Personnel WBGT and Work/Rest (min)

78° 50/10 - No restriction

85° 45/15 - Continue on reduced scale. Avoid classes in the sun.

88° 30/30 - Curtail strenuous exercise. Well-acclimatized personnel may carry on limited activities not to exceed 6 hours per day.

90° 20/40 - Suspend physical training and strenuous activity for all personnel.

### Water Requirements

(Quarts per person, per day)  
Light Activity (desk work)  
-WBGT less than 80° — 5 qts.;  
80° or higher — 6 qts.

Moderate Activity (route march) - WBGT less than 80° — 7 qts.; 80° or higher — 9 qts.

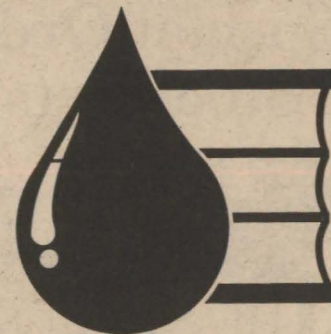
Heavy Activity (forced marches, digging, route marches with heavy loads or in CBR protective clothing) - WBGT less than 80° — 9 qts.; WBGT more than 80° — 13 qts.

Modifying physical activities and drinking plenty of water in the hot weather will help us to stay healthy and avoid unnecessary discomfort.

## Lawn watering restrictions started in family housing

During the period of May 1 through Sept. 30, restriction of lawn watering by MFH occupants to the following hours is required.

•Work Days. Watering of lawns at odd numbered houses shall be during odd numbered days; even numbered houses



during even numbered days. Watering shall be between 6 and 10 p.m. only.

•Saturday, Sunday and Holidays. Watering of lawns shall be between 6 and 10 a.m. and 6 and 10 p.m.

Occupants of Corner Houses. If you live on a corner lot you may water each day, Monday through Friday, between 6 and 10 p.m.

•Restricting lawn watering to these hours will reduce peak electric demand and cost of electricity. These hours provide more time for irrigation than needed to maintain an excellent

lawn.

MFH occupants are required to monitor irrigation carefully to avoid runoff and conserve limited underground water.

Currently, the WSMR community notifies the Contract Inspection Branch when bad watering techniques are noticed.

MFH occupants are encouraged to continue to notify the Contract Inspection Branch at 678-5044 to correct the problem.

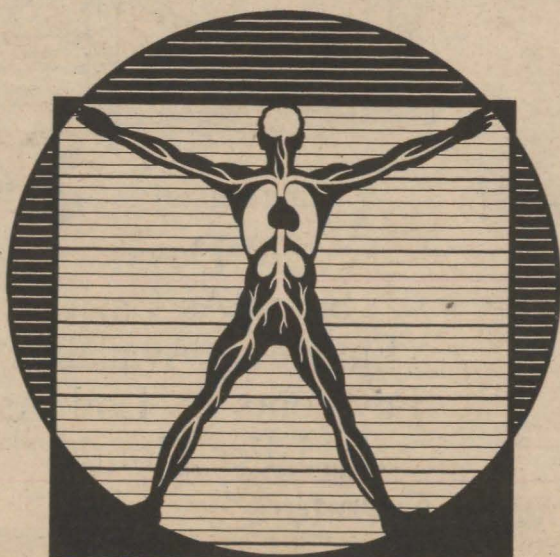
Occupants should water only when winds are low to avoid excessive water loss.

Vacant quarters and guest houses will be watered between 6 a.m. and 1 p.m. by grounds personnel.



Water Conservation Time

YOUR



HEALTH

# 'Viva El Paso' opens 13th season

In the wake of a record-breaking season last summer despite a devastating fire which caused the rebuilding of \$80,000 worth of sets, the outdoor drama-spectacular "Viva El Paso!" opened an expanded 10-week season June 28 with final performances of the summer season scheduled for Labor Day Weekend.

Reserved seating performances are scheduled Thursday through Saturday nights at 8:30.

Reserved tickets range from \$6-9.50 for adults, and \$3-\$6.50 for children. Student, military and senior citizen discounts are also available.

Now in its 13th season outdoors, in El Paso's McKelligon Canyon Amphitheater, Viva El Paso! is a song and dance spectacular outlining the history of the El Paso/Juarez area.

Over 21,000 viewed last summer's performances.

For the first time a western barbecue dinner is also available before the show in the "Viva Cantina," a refurbished pavilion located near the theater.

Viva has grown artistically from a variety show, loosely tied to the four cultures that created modern El Paso—native American, Spanish, Mexican and western American—into a popular outdoor drama that traces, through music, dance and acting, the arrival and inter-

mingling of these four peoples and their adaptation to the harsh and beautiful southwestern environment.

The performance is staged annually in the 1500-seat open-air amphitheater is an easily accessible mountain canyon within the El Paso city limits. The facility is handicap accessible.

For information on Viva El Paso! call 565-6900, or write: Viva El Paso!; 4707 Montana Avenue, Suite 200; El Paso, Texas 79903.

## 45th Anniversary

*Continued from page 1*

to the ground shock and blast effects of a simulated nuclear detonation.

•Field tests on the Sgt. York air defense gun were conducted at WSMR in 1985 prior to the Department of Defense's decision to cancel the system.

•The High Energy Laser System Test Facility became operational in 1985. In September of that year, the first laser lethality test was conducted for the Strategic Defense Initiative Organization (SDIO). The test vehicle was the second stage of a Titan I fuel booster.

•In the fall of 1987, the Mid-Infrared Advanced Chemical Laser (MIRACL) at HELSTF again made national news. In two separate tests, the Miracl engaged and destroyed drone targets in flight. According to a Department of Navy news release, in both tests the laser beam quickly destroyed vital components which caused the target to go into spins and impact with the ground.

•In October 1988, HELSTF's Large Vacuum Chamber, a 50-foot diameter sphere which

allows testing of materials and equipment using laser-power in a space environment, was dedicated.

•In July 1986, SDIO announced work has begun to establish a new laser research project at WSMR. The program would eventually be known as the Ground Based Free Electron Laser Technology Inegration Experiment. The project's ultimate goal will be to determine whether a high energy laser beam can be generated from the ground and propagated through the atmosphere without significant reductions in beam quality and energy levels. Last Monday, the GBFEL Site, with the completed administrative area, was dedicated.

•On September 12, 1986, a Patriot air defense missile successfully intercepted a Lance tactical missile. On Nov. 4, 1987, soldiers fired a Patriot missile and intercepted another Patriot missile. The first test demonstrated software changes to the system while the latter incorporated hardware changes.

## Registration deadline near

There will be some real Monday morning blues for some individuals at WSMR if they haven't registered their vehicles sometime today.

They will be making a trip to that little building just outside the gate to get a visitor's pass.

Why a visitor's pass? The MPs are going to be waiting with very sharp scrapers at the gate and the old registration

stickers are going bite the dust. No tickee no entry.

A person who lives or works on a military installation, or often uses the facility, is required to register his/her vehicles.

It is the individual's responsibility to register the vehicles.

Vehicles may be registered at Bldg. 380 between 8-11:30 a.m. and 12:30-4 p.m.

## POST MOVIES

All movies begin at 7:15 p.m., unless otherwise posted.

**Tonight, July 6**

*The Gods Must Be Crazy II* (PG)

**Saturday, July 7**

*Daddy's Dying Who's Go The Will* (PG-13)

**Sunday, July 8**

*Tales From The Dark Side* (R)

**Wednesday, July 11**

*Glory* (R)

**Friday, July 13**

*Short Time* (PG-13)

**Saturday, July 14**

*I Love You To Death* (R)

**Sunday, July 15**

*Why Me?* (R)

**Wednesday, July 18**

*Impulse* (R)

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near Dillard's in center court

# Military medals now on display

by Bill Gross

The Visitor Center has on display a collection of military medals covering several wars and campaigns.

These are the property of Marshall A. Hunter, USAISC-TWS-OSS, who has been collecting them for almost 20 years.

Hunter's collection will be on display for several weeks in

honor of the 45th anniversary of the end of World War II.

Hunter spent four years in the US Navy and 19 years in the Naval Reserve.

His active duty time was spent aboard the USS Galveston and the USS Little Rock, guided missile cruisers.

Earning a Meritorious Conduct Medal got him started collecting medals. He now has more than 200, including all of those seen on display charts that hang in dayrooms.

Like other collector activities, collecting medals has its idiosyncrasies.

Hunter finds medals at flea markets, antique shows, gun shows and garage sales.

Many can be obtained from the person who earned the medal, but most require a "trade."

He says some medal recipients actually don't care about the medal after they have received it.

The WSMR Visitor Center display is the first real public showing for Hunter. He has displayed them on patriotic days at the El Paso Naval Reserve, where he is a member.

Hunter was first assigned to WSMR in 1957, where he spent two years at the USS Desert Ship.

Since then he has had assignments with several contractors, including Western Electric and Land-Air. He has been with USAISC since 1983.

Hunter resides in Las Cruces with his wife, Betty Jo, and his son David.



## Computer users to meet July 11

The WSMR Section of the Association for Computing Machinery will have its next meeting at the NCO Club on Wednesday, July 11, at 11:30 a.m.

The speaker will be Frank Wancho, System Manager of SIMTEL20 in TWS-S, USAISC. The title of the presentation is: "Windows 3.0: First Impressions."

Microsoft recently released Windows 3.0 with much hype and fanfare. What will this software actually do for you? What configuration do you need to use it? Wancho has been using Windows 3.0 on the Zenith 248 and will present his brief first impressions of what it will do well and what it will not do.

For more information call Elwood Baas, 678-1011, or Chris McDonald, 678-4176. You need not be a member to attend.

## Lawyer to speak to FEW group

The Three Crosses Chapter of Federally Employed Women will hold its monthly meeting at the WSMR Officers' Club July

12 at 11:30 a.m.

The guest speaker will be Beatrice Ferreira, a Las Cruces attorney.

The topic of the luncheon is "Legal Precedence of Discrimination Complaints By Women."

The menu is baked chicken, ½ baked potato, green beans, and a salad.

Cost of the luncheon is \$4.55 per person.

Reservations must be made by Tuesday with Bill Steele at 678-5683, Dolores Montoya at 678-3626, or Maria Smith at 678-4595.

## Initial meeting set by data group

The Mesilla Valley Data Group is holding its initial meeting at 7 p.m. Wednesday, July 11.

Meetings will be the first Wednesday of every month at the Computer Guys offices in Adams Auto Center at 2001 S. Valley Drive.

This is a dBase dialect language users group and anyone wishing to participate is invited.

Interim officers will be chosen and the initial charter will be read and amended.

For further information contact Bill Adams at 523-7513 during regular office hours or Ted Larsen at 522-7518 after hours.

## Science women card meeting

The Southern Rio Grande Chapter of the New Mexico Network for Women in Science and Engineering will meet on Tuesday, July 10, at K-Bob's Restaurant, 1100 S. Main St., Las Cruces, at 7 p.m.

Dues are \$25 a year. They are \$5 a year for students and the unemployed.

For more information, call Mary Bochmann at 678-1291 or Terry Anaya at 678-4562.

## On line data entry a reality

On-line data entry for accounting documents has become a reality at Finance and Accounting.

Documents previously requiring manual coding and keypunching are now being directly input into the accounting system.

The procedure started with a need to work smarter with less and at the same time increase efficiency and accuracy when entering data into the TEAM-UP automated accounting system.

The project was begun with documents being analyzed to determine required data elements, individual formats

and necessary data fields.

Programing was accomplished by employees of USAISC, which allow data to be interfaced and processed using an IBM 3090 mainframe computer.

As a result, procedural changes are in process to eliminate the submission of documentation from Procurement to the Finance Office.

Procurement documentation will be maintained in their office instead of Finance and Accounting.

It is expected that this procedure will be implemented with 2 to 4 weeks.

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45th Anniversary



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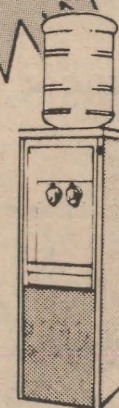
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# Integrated Facilities System QC eyes problems

Recently, Maj. Gen. Thomas J.P. Jones, range commander, attended a management presentation given by the Integrated Facilities System (IFS) Quality Circle (QC), the first ever multi-organization QC at WSMR to implement action, to solve problems impacting the entire missile range.

During the presentation, Jones, Gene Forsythe, Earl Sheppard and Col. Kelly of USAISC-White Sands approved recommendations developed by the QC.

Those decisions are expected to save hundreds of thousands of dollars.

The problem area targeted for resolution by this QC was IFS, an automated system utilized by DEHL to monitor, control and report cost/funds against specific WSMR facilities

and the TEAM-UP financial interface. This TEAM-UP accounting system allows proper accounting of cost and reimbursements.

This problem impacted on WSMR by creating huge error pools which created the need for correction of each line item, which is very labor intensive. The greatest impact was on WSMR as a whole, in that the lost data resulted in lost reimbursements to the installation.

The QC estimated that WSMR is losing data on work orders amounting to \$1.4 million and are losing reimbursements of at least \$225,000 annually.

This QC has evolved into a Process Action Team (PAT) under the Total Quality Management (TQM) concept. The TQM concept fosters team-



**INTEGRATED FACILITIES SYSTEM (IFS) Quality Circle team members are (from left) Jean Lawson, DEHL; Rick Livengood, RM; Jerry Carson, RM; Tony Castro, DEHL; Terry Bloom, RM; Audrey Eckhart, RM; Armando Uranga, RM; Jim Kirkland, SP; Powell Henderson, ISC and Jim Gavaza, RM.**

work, the problems have been identified and solutions are now being worked by a team consisting of diverse expertise and experience from three organizations. DEHL, ISC and RM with

assistance from the Directorate of Contracting.

This attitude of teamwork, good communication and harmonious working relationships between directorates in what

TQM is all about. It is actively pursuing solutions that will make our jobs more meaningful and make WSMR an installation that the test community will want to emulate.

## Federal, military pay

*Continued from page 2*

of this item, but I could not think of any other words to describe the process.

We have reached a plateau where the Administration and the Congress cannot agree on the needed way to approach pay reform.

The differences seem to hinge on the OPM proposal of a two-split pay schedule, and the amount of pay raise control retained by the president, and the desire of the various House and Senate committees to have some forms of locality pay for three categories.

The Senate Governmental Affairs Committee has scheduled and then cancelled two sessions to vote out the Senate version and the House committee seems to be finding the same problems. Then there is the complication that arises from the proposal by Sen. Roth to introduce his early out proposal as an amendment to pay reform.

**High Marks For Supervisors!**  
A recent survey of some 16,000 Federal employees on some significant personnel issues

(pay, benefits, supervisory quality) conducted by the Merit Systems Protection Board, revealed some major findings:

- Seventy percent of those who responded to the survey said they were satisfied with their jobs even though they were highly dissatisfied with their pay, retirement and health benefits programs.

- Employees also reported that their supervisors were generally willing to deal with performance and disciplinary problems, but were deterred from doing so by a lack of remedial options available, to include taking formal action or putting an employee on a performance improvement plan.

There were some other responses that are noteworthy -

- Most agencies are upholding the principle of the "merit system" in what was referred to as "day-to-day" dealings with the entire workforce. However, a reported 33 percent reported a "perceived Buddy System" in job and job reward actions, while 15 percent felt discrimination in personnel decisions.

- The worst marks came in the arena of pay, retirement, and

health benefits. Sixty percent were dissatisfied with pay and retirement, while only 26 percent felt that current federal health benefits provided any reason to remain in government service.

*The Thrift Plan Rates For May Released - The Federal Retirement Thrift Investment Board released the following numbers for returns during May 1990.*

Fund	May	Last 12 Months
C Fund	9.44%	16.26%
F Fund	2.80%	8.49%
G Fund	.76%	8.59%

If anyone has any item of information to be brought to the attention of the civilian workforce, contact Chapter 132, Federal Managers' Association, P.O. Box 87, WSMR, N.M. 88002.

Questions concerning membership in FMA should be referred to Don Larkin by calling 678-5506.

For more information on today's column contact me at 678-5863.



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# Atomic age ushered in at range July 16, 1945

by Jim Eckles

Trinity Site is where the first atomic bomb was tested at 5:29:45 a.m. Mountain War Time on July 16, 1945. The 19 kiloton explosion not only led to a quick end to the war in the Pacific but also ushered the world into the atomic age. All life on Earth has been touched by the event which took place 90 miles north of the range's main post.

The 51,500-acre area was declared a national historic landmark in 1975. The land-

mark includes base camp, where the scientists and support group lived; ground zero, where the bomb was placed for the explosion and the McDonald ranch house, where the plutonium core to the bomb was assembled. Visitors to Trinity Site can now see both ground zero and the McDonald ranch house.

## Manhattan Project

The story of Trinity Site begins with the formation of the Manhattan Project in June 1942. The project was given overall responsibility of designing and building an atomic

bomb. At the time it was a race to beat the Germans who, according to intelligence reports, were building their own atomic bomb.

Under the Manhattan Project three large facilities were constructed. At Oak Ridge, Tenn., a huge gas diffusion plant was built to separate uranium 235 from its more common form, uranium 238. Hanford, Wash. became the home for nuclear reactors which produced a new element called plutonium. Both uranium 235 and plutonium are fissionable and can be used to produce an atomic explosion.

Los Alamos was established in northern New Mexico to design and build the bomb. At Los Alamos many of the greatest scientific minds of the day labored over the theory and actual construction of the device. The group was led by Dr. J. Robert Oppenheimer who is credited with being the driving force behind building a workable bomb by the end of the war.

## Theory

Los Alamos scientists devised two designs for an atomic bomb—one using the uranium and another using the

plutonium. The uranium bomb was a simple design and scientists were confident it would work without testing. The plutonium bomb worked by compressing the plutonium into a critical mass which sustains a chain reaction.

The compression of the plutonium ball was to be accomplished by surrounding it with lense-shaped charges of conventional explosives. They were designed to all explode at the same instant. The force is directed inward, thus smashing the plutonium from all sides.

In an atomic explosion a chain reaction picks up speed as atoms split, releasing neutrons plus great amounts of energy. The escaping neutrons strike and split more atoms, thus releasing still more neutrons and energy. In a nuclear explosion this all occurs in a millionth of a second with billions of atoms being split.

Project leaders decided a test of the plutonium bomb was essential before it could be used as a weapon of war. From a list of eight sites in California, Texas, New Mexico and Colorado, Trinity Site was chosen as the test site.

The area already was controlled by the government because it was part of the Alamogordo Bombing and Gunnery Range which was established in 1942. The secluded Jornada del Muerto was perfect as it provided isolation for secrecy and safety, but was still close to Los Alamos.

## Jumbo

One of the first things visitors see at Trinity Site is the hulk of Jumbo. The bomb design to be used at Trinity Site actually involved two explosions. First there would be a conventional explosion involving the TNT and then, a fraction of a second later, the nuclear explosion, if a chain reaction was maintained.

The scientists were sure the TNT would explode, but were initially unsure of the plutonium. If the chain reaction failed to occur, the TNT would blow the very rare and dangerous plutonium all over the countryside.

Because of this possibility, Jumbo was designed and built in Ohio. Originally it was 25 feet long, 10 feet in diameter and weighed 214 tons. Scientists

*Continued on page 9*



THE GEORGE McDONALD Ranch House, now a National Historic Landmark, is where the plutonium core of the world's first atomic bomb was assembled in 1945.

# SINCERE THANKS

To The Personnel of  
White Sands Missile Range

on Your  
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We want to express our deepest appreciation to each one of you—military and civilian personnel alike—for the fine job you've done.


For the past 45 years you have given us a sense of security and an appreciation for the skill and knowledge with which you provide protection for this community and the nation.

Your scientists, engineers, technicians and all personnel devote their time and skills to the advancement of science,

and we especially applaud their achievements in the field of space.

As members of our community, you have contributed significantly to the growing economy of Las Cruces and the Mesilla Valley. You have proven to be good neighbors, good friends, and good customers.

We wish you happiness as you celebrate your 45th Anniversary. Congratulations!

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# Atomic age ushered

Continued from page 8

They were planning to put the bomb in this huge steel jug because it could contain the TNT explosion if the chain reaction failed to materialize. This would prevent the plutonium from being lost. If the explosion occurred as planned, Jumbo would be vaporized.

Jumbo was brought to Pope, N.M., by rail and unloaded. A specially-built trailer with 64 wheels was used to move the trailer the 25 miles to Trinity Site.

As confidence in the plutonium bomb design grew it was decided not to use Jumbo. Instead, it was placed in a steel tower about 800 yards from ground zero. The blast destroyed the tower, but Jumbo survived intact.

Today it rests at the entrance to ground zero so all can see it. The ends are missing because of tests done later which involved trying to blow up Jumbo using TNT.

Ground zero, itself, is just a short walk to the north of the parking lot. A simple lava monument stands at ground zero and marks the spot where the 100-foot tower which held the bomb stood.

The steel tower was anchored to the ground with concrete pilings. The explosion vaporized the tower but one of the pilings is still visible northwest of the monument.

The bomb was assembled under the tower on July 13. The plutonium core was inserted into the device with some difficulty. On the first try it stuck. After letting the temperatures of the plutonium and casing equalize the core slid smoothly into place.

## Observation Points

Three observation points were established at 10,000 yards from ground zero. These were wooden shelters protected by concrete and earth. The south bunker served as the control center for the test. The automatic firing device was triggered from there as key men such as Dr. Robert Oppenheimer, head of Los Alamos watched. None of the manned bunkers are left.

Many scientists and support personnel, including Gen. Leslie Groves, head of the Manhattan Project, watched the explosion from base camp which was ten miles southwest of ground zero. All the buildings at base camp were removed after the test. Most visiting VIPs watched from Compania Hill, 20 miles northwest of ground zero.

The test was scheduled for 4 a.m. July 16, but rain and lightning early that morning

caused it to be postponed. The device could not be exploded under rainy conditions because rain and winds would increase the danger from radioactive fallout and interfere with observation of the test. At 4:45 a.m. the crucial weather report came through announcing calm to light winds with broken clouds for the following two hours.

## A New Light

At 5:10 the countdown started and at 5:29:45 the device exploded successfully. To most observers the brilliance of the light from the explosion—watched through dark glasses—overshadowed the shock wave and sound that arrived later.

Hans Bethe, one of the contributing scientists, wrote "it looked like a giant magnesium flare which kept on for what seemed a whole minute but was actually one or two seconds. The white ball grew and after a few seconds became clouded with dust whipped up by the explosion from the ground and rose and left behind a black trail of dust particles."

Joe McKibben, another scientist, said, "We had a lot of flood lights on for taking movies of the control panel. When the bomb went off, the lights were drowned out by the big light coming in through the open door in the back."

The explosion did not make much of a crater. Most eyewitnesses describe the area as more of a small depression instead of a crater. The heat of the blast did melt the desert sand and turn it into a green glassy substance.

It was called Trinitite and can still be seen in the area. At one time Trinitite completely covered the depression made by the explosion. Afterwards the depression was filled and much of the Trinitite was taken away by the Nuclear Energy Commission.

To the west of the monument is a low structure which is protecting an original portion of the crater area. Windows are built into the shelter and some Trinitite is visible through them.

## McDonald Ranch House

The George McDonald ranch house site encompasses about three acres and consists of a house and various outbuildings. The house sits with an 85' x 85' low stone wall. The house was built around the turn-of-the-century with an addition constructed on the north side in the 1930's.

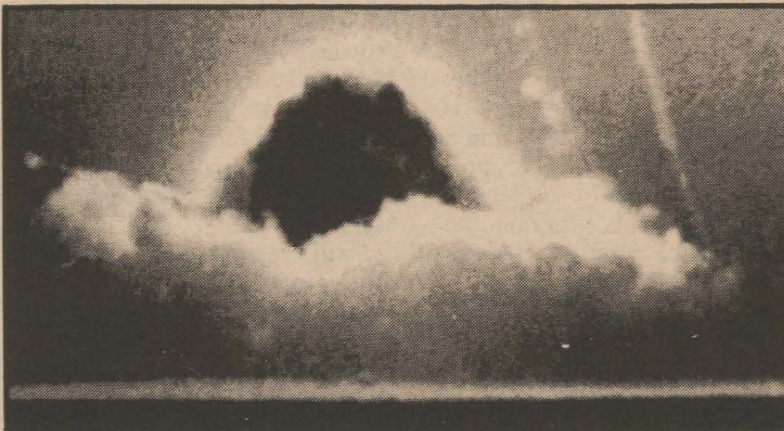
The ranch house is a one-story, 1,750 square-foot building. It is built of adobe which was plastered and painted. An ice house is located on the west side along with an underground cistern which

stored rain water running off the roof. At one time the north addition contained a toilet and bathtub which drained into a septic tank northwest of the house.

The ranch was abandoned in 1942 when the Alamogordo Bombing and Gunnery Range

the roof did much more damage. The barn did not do as well. During the Trinity test the roof was bowed inward and some of the roofing was blown away. The roof has since collapsed.

The house stood empty and deteriorating until 1982 when



First atomic explosion at 2.0 seconds

took over the land to use in training World War II bombing crews. The house stood empty until the Manhattan Project support personnel arrived in early 1945.

The explosion did not significantly damage the house. Most of the windows were blown out, but the main structure was intact. Years of rain water dripping through holes in the U.S. Army stabilized it to prevent any further damage.

Shortly after, the Department of Energy and U.S. Army provided the funds for the National Park Service to completely restore the house. The work was done in 1984. All efforts were directed at making the house appear as it did on July 12, 1945.

## After the Blast

The story of what happened at Trinity Site did not come to light until after the second atomic bomb was exploded over

Hiroshima, Japan, on August 6. President Truman made the announcement that day. Three days later, Aug. 9, the third atomic bomb devastated the city of Nagasaki, and on Aug. 14 the Japanese surrendered.

Trinity Site became part of what was then White Sands Proving Ground. The proving ground was established on July 9, 1945, as a test facility to investigate the new rocket technology emerging from World War II. The land, including Trinity Site and the old Alamogordo Bombing Range, came under the control of the new rocket and missile testing facility.

At first Trinity Site was encircled with a fence and radiation warning signs were posted. The site remained off-limits to military and civilian personnel of the proving ground and closed to the public.

By 1953 much of the radioactivity at Trinity had subsided. In September about 650 people attended the first Trinity Site open house. A few years later a small group from Tularosa visited the site on an anniversary of the explosion to conduct a religious service and prayers for peace.

Today, the site is open to the public on the first Saturdays in April and October. In April of this year, there were close to 3,000 visitors.



## Congratulations On Your 45th Anniversary!

*Congratulations to the White Sands Missile Range military and civilian personnel on your 45th anniversary. The many years of service and dedication you have provided to the Armed Services have continued to insure a strong defense of our country.*

*The Alamogordo Chamber of Commerce, businesses and general populace are proud of your contribution and wish you continued happiness during your 45th anniversary celebration.*



# Missile Inn to offer freshly made pizza today

by Jo Jojola

Here are a few points of interest from recent Community Action Council (CAC) meetings.

Results of a recent in-town survey of theater candy/concession prices show that AAFES prices are lower, ounce for ounce. The price of popcorn was reduced by 50 cents within the past few months.

AAFES theater admission prices remain lower than theater admission downtown.

During the summer, in addition to the weekend shows, the Post theater will be showing movies each Wednesday.

A movie schedule is posted on Channel 3 and in the *Missile Ranger*.

CAC recently conducted a survey to determine the need for diesel fuel supply for WSMR residents and employees.

Results will be presented to the manager, AAFES, at the next CAC general meeting to determine whether diesel fuel can be made available at the WSMR service station.

CAC requested that the shopette be run on a 24-hour basis, even for a trial period.

A need for this action may have to be determined first.

CAC will keep you posted on the results of this request.

Beginning July 6, the Missile Inn is offering freshly made pizza, to eat in or take out each Friday. This offer is on a trial basis. Hours of operation are 5:30 to 9:30 p.m. (a good opportunity for pizza before or after the movie).

If the community shows enough interest and supports this program, it will become a regular part of the AAFES program.

Success of this program can also open the possibility for additional food items being offered in the evening, and perhaps extended evening hours during other days of the week as well.

So, why not try a Friday evening out with the family by enjoying freshly made pizza at the Missile Inn?

Those eligible for military medical service are required to have a Green Medical Card for appointments at Beaumont Medical Center.

This change will more efficiently provide patient information through the Health Information System (HIS).

HIS does not determine eligibility like DEERS does. HIS is an electronic system to

record diagnostic information—an ongoing process to keep records updated. The green cards indicate that the patient is enrolled in that system. The white card is still needed for service at McAfee, so when getting card from Beaumont, insist that your white medical card be returned to you for use at McAfee. McAfee is currently working with Beaumont to get green cards for all eligible patients whose records (approximately 2,000) are kept at McAfee.

I will keep you posted on this process. The HIS program will eventually go Army-wide.

Families in need of the Exceptional Family Member Program are requested to hand in their paperwork immediately so it can be processed.

As most CDS customers already know, the CDS payment policy has some changes. A letter on the subject was distributed to all current CDS customers.

As a result of the Child Care Act of 1989, there is a need to hire more child care givers and increase wages. CDS is required, at least, to break even. CDS cannot be subsidized.

Therefore, it will be required for fulltime CDS facility

customers to pay the full monthly fee in advance. There will be no refund for the time the child is not attending day care. Whether for a week, two weeks or a month, the fee must be paid if the space is to be reserved for your child.

This is an Army-wide policy. A proposal was submitted at the

CAC May meeting for reduced rates while the child is away from CDS due to family leave time. The proposal is being reviewed by DPCA.

Col. and Mrs. Marchand will coordinate the skateboard ramp project. An update will be provided at a later date.

## New leave transfer case

The Leave Transfer Program Committee announces one newly approved case for leave transfer donations.

This employee has a family medical emergency causing her to need additional leave.

If you want to help this employee, consider donating a portion of your annual leave.

The newly approved case is as follows:

**Case No. 15-90:** This employee's infant granddaughter was born by caesarean section on April 16 and was diagnosed with paralysis of the vocal cords and abnormalities of the brain.

The infant was transferred to Albuquerque for treatment.

The employee was requested by her daughter's physician to be present to assist in caring for

both her daughter and granddaughter.

The employee returned to work May 7 and currently has a negative annual leave balance.

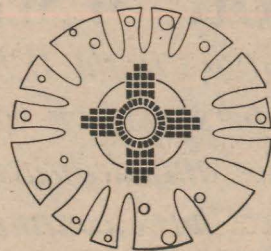
The employee has requested her name be publicized. She is Augustina Chavez, clerk typist in U.S. Information Systems Command.

Donors must use a copy of Leave Transfer Authorization, STEWS-PO Form 168, dated July 1, 1989, and forward the form in a sealed envelope (Privacy Act Information) to the Voluntary Leave Transfer Program, ATTN: PO-E.

Employees having questions regarding this program should contact Christie Martin, Leave Transfer Program Coordinator at 678-5612.

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# Condron Field modern light aircraft ops center

Five years ago, in the 40th anniversary edition of the *Missile Ranger*, we carried the Army Air Operations Directorate story citing two veteran civilian employees with unusual records.

At the time, we said any pilot who has been in the business long enough to get grey hair or bald will remind you that "there are bold pilots and old pilots, but there are no old, bold pilots."

The history of Army pilots and aircraft at WSMR actually precedes the missile range itself. Conventional aircraft need considerable clear and level space in which to take off and land. These attributes are found in an old, dry lakebed about six miles southeast of the headquarters buildings here on post.

Rumored to have been once used by smugglers as an exchange point for contraband goods, the area first was used in

1942 as an emergency landing field by Army aviators towing targets for anti-aircraft training missions of Biggs Field at Fort Bliss.

On Dec. 3, 1942, 2nd Lt. Max H. Condron, flying such a mission, died when his aircraft crashed in an attempted landing at dusk on the dry lakebed. From that time the area was called Condron Field. It was officially named in July 1945, almost simultaneously with the birth of White Sands Proving Grounds.

Condron's first "Operations Office" was nothing more than a field telephone on a pole at one end of the field. As the proving ground developed with missile testing, Condron, too, eventually expanded into a modern Army operations center for light aircraft.

#### Artillery observation

In a tactical situation, the party with the highest vantage point usually has odds in his favor. Mountains, buildings, trees, poles, anything that would improve observation, have been used by the soldier to gain advantage over his enemy. Ballons and then airplanes finally put man in the air. In Louisiana maneuvers in 1940 a Piper Cub was first used by the Army as an observation platform for artillery observers.

#### Recovery

In 1946, when the missile range commenced operations, five L-5's were assigned to Condron Field. Their prime mission was to aid in recovery of missiles and debris impacting on the then very desolate range.

Sometimes it took several days (one took a year) to locate an impact site. Pilots flew dawn-to-dusk search missions, returning to Condron to refuel when necessary. Later, refueling points were located at Holloman, Rhodes Canyon (in the central range) and at Stallion Site, in the 90-mile area.

#### Larger aircraft

Early in 1946, Condron Field had a T-11 aircraft assigned. Later that year, the diminutive air base really went big-time with the addition of C-47. This was the workhorse of the Air Force. Its prime purpose at Condron was to shuttle supplies and ranking military and civilians to and from White Sands Proving Grounds.

At one time in the late forties, two B-26 Marauders were assigned to the WSMR commanding general for range missions. The B-26, a bomber with an enviable war record, did not assist with recoveries -- its missions were more sophisticated.

#### Rotary wing aircraft

In the fifties, helicopters found their way into Army Aviation and its mission at WSMR. The OH-13H (Sioux), the CH-21C (Shawnee), the CH-34C (Choctaw) and the CH-37B (Mojave) all played a major role in recovery operations for several years.

The helicopters did not merely fly over and identify an impacted missile or its parts. In many cases, these items be put aboard or slung underneath and transported back to the base. Sometimes a missile could be lifted from a location inaccessible to a truck and carried back to base dangling from a steel cable.

#### MARS

In the 1960's, Army Aviation at WSMR pioneered the Mid-Air Recovery System (MARS), which the Air Force continued to develop and which is still in use today. The objective was to perfect a system whereby an airborne parachute carrying a sensitive package, such as a drone or instrumentation, could be caught in mid-air and returned to base without damage or compromise. Credit is due Maj. Myron C. (Rusty) Wilson, then Army Aviation commanding officer, for conducting the en-

*Continued on page 21*



2nd Lt. Max H. Condron

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# Range once knew tread of Geronimo, explorers

Within White Sands Missile Range Boundaries may be found a fusion of the old and new in military defense of a nation, from Indian arrowheads to modern missiles and spacecraft.

The desert sands above which supersonic missiles now fly once knew the tread of Geronimo and his Apache warriors. Spanish explorers came this way from Mexico City, almost 140 years before the Pilgrims landed at Plymouth Rock. Billy the Kid and Sheriff Pat Garrett played cat and mouse, traversing dunes and arroyos during the bloody cattle wars which reached their bitterest climax right here in the Tularosa Basin.

Probably the single most significant event to occur here was the detonation of the world's first atomic bomb. At Trinity Site, 80 miles north of the missile range headquarters, scars of the historic blast are still visible on the desert floor. It was there, on July 16, 1945 that an incredible burst of light bathed the basin and a titanic explosion rocked the world into the atomic age.

The site is closed to the public, but the Alamogordo Chamber of Commerce, through the cooperation of

WSMR, sponsors two tours each year to the Trinity site, one tour on the first Saturday in April and the second tour on the first Saturday in October. The circle of Trinitite, the green glass formed when the bomb's blast fused the desert sand, has been crumpled, scattered and bulldozed under. Only a lava rock monument with a bronze plaque marks the spot where the nuclear age was born.

U.S. Highway 85, which follows the Rio Grande, is America's oldest road. It follows the original Spanish Camino Real, connecting Mexico City with Santa Fe, N.M.

Blazed by Friar Rodriguez in 1581, Camino Real was travelled by Espejo the following year, and then in 1598, Don Juan de Onate led his colonists over the route to Santa Fe. Eighty-two years later, descendants of Onate's colonists returned over the route in their tragic flight for their lives when the Pueblos revolted against Spain.

Some historians hold that Cabeza de Vaca, who traveled from Florida to California circa 1536, followed a trail along the Pecos River to just north of Carlsbad, N.M. before entering what is now the missile range.

His path led north to the

Guadalupe Mountains, south of the Sacramentos and then west through Orogrande to where post headquarters is today. Then his route passed over the Organ Mountains at San Augustine Pass and then continued on the west side of the San Andres Mountains into Jornada del Muerto.

The Santa Fe, Butterfield and Chisolm trails wove a new chapter of Southwest history as an expanding nation pushed west and tried to impose a more refined civilization. On the latter trail, which passed Ft. Stanton near Carrizozo, N.M. is today, Colonel Christopher (Kit) Carson, with five companies of volunteers, operated against the Mescaleros.

The campaign was bolstered with this order from higher headquarters: "Kill all Indian men of the Mescalero tribe wherever you find them." Women and children were spared. The 100-mile radius of Carson's operations took in most of the present missile range.

Geronimo, the Mescalero Apache chief, whose home was this area, and Dog Canyon, 20 miles east of the range, are synonymous with the last of the Indian wars. The Chief was a

master of guerilla tactics and cost the United States \$38 million in attempts to thwart his band of fewer than 100 braves.

From peaks surrounding Dog Canyon, Geronimo would



**Geronimo**

observe approaching troops who were hunting him. The troops, tired, and often riding exhausted and shoeless horses, would be lured up the long, narrow and rugged box canyon. Then they were swept to the canyon floor by avalanches of

rocks set in motion by the renegade chief and his warriors.

When not confronted with Indians, U.S. soldiers grappled with their Confederate counterparts. Major Isaac Lynde, Union commander, evacuated Ft. Fillmore, a few miles south of Las Cruces, to reach Union lines at Ft. Stanton and traveled over the San Augustine Pass.

His command, without water and struggling for miles to the rear, was surrounded by Colonel John R. Baylor's Mounted Rifles who picked up stragglers without resistance. Lynde's troops were in such disarray that when the canons were turned to fire on the Confederates, there was nothing to fire because the ammunition was miles ahead in another part of the column.

Outnumbering the aggressor, two-to-one, and holding the high ground, Major Lynde surrendered. While scarcely a shot was fired, the outcome was significant; the Confederacy needed gold to bargain with foreign merchants and now it was assured a large chunk of the mineral-laden Southwest.

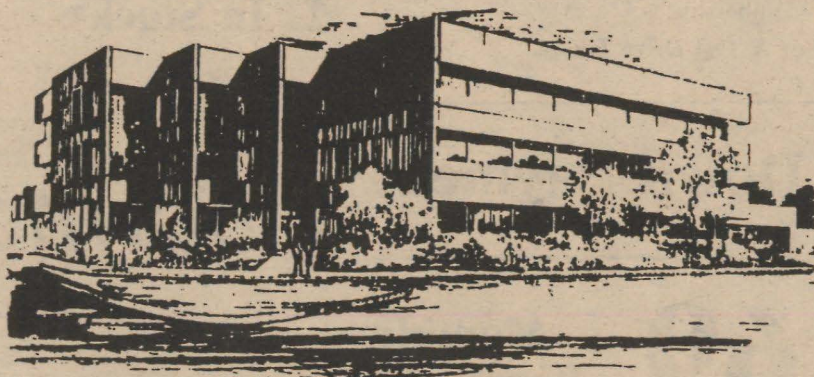
The Lincoln County War, involving Billy the Kid and Sheriff

*Continued on page 13*

## Happy 45th Anniversary!

*It has been our privilege to be of service to many of the men and women working at White Sands Missile Range and in Las Cruces. We thank you for your patronage and assure you that in our years of service to this community that our policy has been to keep abreast with the times and to render the finest service possible.*

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# Range once knew

Continued from page 12

Pat Garrett, became a gory conflict when a New Mexico cattle baron tried to drive one Alexander McSween out of the county.

For about 150 years, a nearby ranch has figured largely in Tularosa Basin history. The San Augustine Ranch has been refuge for pioneers, fort against Indians, inn of both fine and ill repute, haven for outlaws, scene of duels and one of the most successful cattle ranches.

It's three-foot thick walls and protective patios hold many tales of yesteryear, Jim Cox, the present owner, can point to mines, graves and other memorabilia which tell much about the Tularosa's wild and woolly days.

It was the Cox family that moved to the site in 1888 and tamed excesses which drove scores of others away. Later they dealth 90 percent of their land to the government for White Sands Missile Range.

Robert Goddard, the Father of Modern Rocketry, set off the first liquid fuel rocket near Worcester, Mass., in 1926. He set off others and their impact sometimes ignited fires. The Northeast's reatively cramped populace was apprehensive.

Charles Lindbergh convinced Goddard to move to the wide open spaces out West where his rockets would be less dangerous. Goddard came to

Roswell, east of the range and spent more than a decade establishing record after record for altitude.

His rockets of the early 30's were largely copied by German scientists in their V-1 and V-2 vehicles for World War II. Though his work was often scoffed, Goddard trailblazed rocketry, especially gyro stabilization, deflector vanes for guidance, principles of thrust, landing evices, multi-stage luanches and the mathematical theory for propulsion; his most advanced work occurred in proximity to today's missile range.

White Sands Missile Range opened July 9, 1945 and the first firing took place Sept. 26, 1945. The first intensive rocket program undertaken by this



country commenced the following spring and continued until 1951. Sixty-seven captured V-2 rockets were fired, then we developed our own vehicles and the gates to modern missilery, defense and space opened.

HAPPY 45TH ANNIVERSARY



We Extend Our Sincere Thanks And Gratitude To All The Personnel At White Sands Missile Range For Their Tremendous Value To Our Community!

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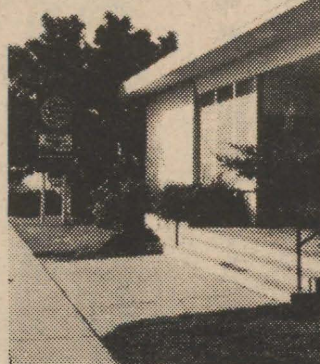
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# First National Salutes White Sands Missile Range On Its 45th Anniversary



It's no secret how important White Sands Missile Range is to our community, and to our country. First National salutes the efforts and achievements of the men and

women, past and present, who made contributions to the preservation of our nation's defense, welfare and freedom.

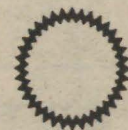
Since 1959, First National's White Sands branch has provided the consistent and progressive banking services that have made First National the leading financial institution in Southern New Mexico.

Whether it's staying open late on end-of-month payday, or the convenience of the OléCard Automated Teller Machine located at the Missile Inn, White Sands customers know they can count on First National for the service they expect, and deserve.

We're pleased to honor White Sands Missile Range on its 45th anniversary. And we're equally pleased to recognize our White Sands branch manager, Iris L. Meyers, and her staff for their continual dedication and support to the people who work and live in one of our nation's most vital regions.

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Drive-In Hours: Mon.-Fri.: 8:30am-2pm,  
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# Arrows to missiles to spacecraft is range story

White Sands Missile Range covers a 40 X 100 square mile area of New Mexico desert. Within its boundaries may be found a fusion of the old and the new in the military defense of the nation—from Indian arrowheads and ancient cannons to modern missiles and spacecraft. The entire area is interesting and historically important.

## White Sands National Monument

White Sands National Monument is the world's largest inland outcropping of pure gypsum. The area stretches along the eastern portion of the missile range some 30 miles northeast of WSMR headquarters.

It lies just off U.S. Highway 70 about 15 miles west of Alamogordo, N.M., 54 miles east of Las Cruces, N.M., and slightly less than 100 miles by way of U.S. Highways 54 and 70 from El Paso, Texas.

The monument consists of approximately 176,000 acres of pure white gypsum "sand" that shifts continually from one high dune to make another. The glaring white area is almost bare of vegetation.

However, many species of plants have adapted to this unusual habitat, and through

the gradual extension of roots and stalks, have avoided being buried by the drifting sand. A variety of plants fringe the edge of the park where they grow in weird shapes and forms.

Found also in the approximately 35-mile long and 15-mile wide snow-looking tract are several species of reptiles and rodents that have adapted to their strange environment by developing a bleached white protective coloration.

As the years pass the moving sand bares relics of the past. Among items brought to the surface in recent years was an ancient two-wheel cart believed to be an early Spanish carreta.

This isolated area was made a national park in the late 1930s and named White Sands National Monument. It was from this national monument that White Sands Missile Range took its name in 1945.

## Roads and Trails

U.S. Highway 85 which follows the Rio Grande from El Paso through neighboring Las Cruces and on to Santa Fe, is America's oldest road. It follows, in part, the original Spanish camino Real—Royal Road—connecting Mexico City, the capital of New Spain, with Santa Fe, the capital of N.M.,

which was settled in 1610 and is believed to be the oldest capital in the United States. The road ran north from Chihuahua City, Mexico, through the "Pass of the North," which is now the city of Juarez, Mexico and El Paso.

Opened by Friar Rodriguez in 1581, Camino Real was travelled by Espejo the following year and then in 1598 Onate led his colonists over the route to Santa Fe. Eighty-two years later descendants of Onate's colonists returned over the route in their tragic flight for their lives when the Pueblos revolted against Spain in 1680.

It is believed that Cabeza de Vaca, who walked from Florida to California circa 1536, passed through Mesilla, which is located three miles south of Las Cruces. Later Mesilla became a stop on Camino Real for east-west travellers.

Some Southwest historians hold that Cabeza de Vaca's route brought him northwest from San Angelo, Texas, along the pecos River to a point north of Carlsbad, N.M. Then his path led north of the Guadalupe Mountains, south of the Sacramento Mountains which form the visible east boundary of WSMR, and then west through Fort Bliss' Orogrande

Missile Range to the site that is now WSMR headquarters building. From there, the path crossed the Organ Mountains into Jornada del Muerto.

From Jornada del Muerto, so the historians theorize, Cabeza de Vaca crossed the Rio Grande above Socorro, N.M., and crossed the Continental Divide to what was later called "Pie Town," near the Arizona border.

The early Spanish explorers and settlers apparently preferred the area around Santa Fe. For many years, the Dona Ana area remained only a stagestop on Camino Real between Mexico City and Santa Fe.

Access to this southwestern region from the United States was by way of the Santa Fe Road which was surveyed from Fort Osagem Missouri, to Santa Fe in 1827 with funds provided by Congress. Traders and adventures then followed Camino Real south to Chihuahua City.

In 1846, General Kearny led Federal troops to Santa Fe over the Santa Fe Trail and annexed New Mexico bloodlessly as a territory of the United States. After the annexation, he proceeded west to California leading his main body over the Gila Trail from Santa Fe.

Lieutenant Colonel Cook, in

command of General Kearny's wagon train, chose the route crossing Jornada del Muerto to Rincon, New Mexico, and on to Deming, thus pioneering what became the first wagon road to the West Coast. This is the general route followed today by U.S. Highways 70-80-84.

Twelve years later, in 1859, the Butterfield Trail reached Las Cruces from the east by way of El Paso and continued west. Then in 1869 the Chisholm Trail was extended from the northeast. Mesilla, then, was truly a transportation center and a veritable crossroad of the Old West, with all routes except the Santa Fe Road passing through it.

It was in Mesilla that the Gadsden Purchase treaty was signed with a flag-raising ceremony in 1854; there a Civil War skirmish was fought; there the capital of the Territory of Arizona and New Mexico was established; and through there passed confederate soldiers on their return to San Antonio, Texas.

The original inn at Mesilla, called La Posta, which was the stage-stop on Camino Real, is still operating today. However, now La Posta is a restaurant-Duncan-Hines rated—and host to travellers from all over the world.



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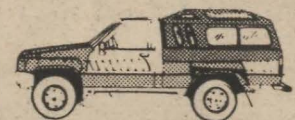
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# COUNTDOWN RECREATION CENTER

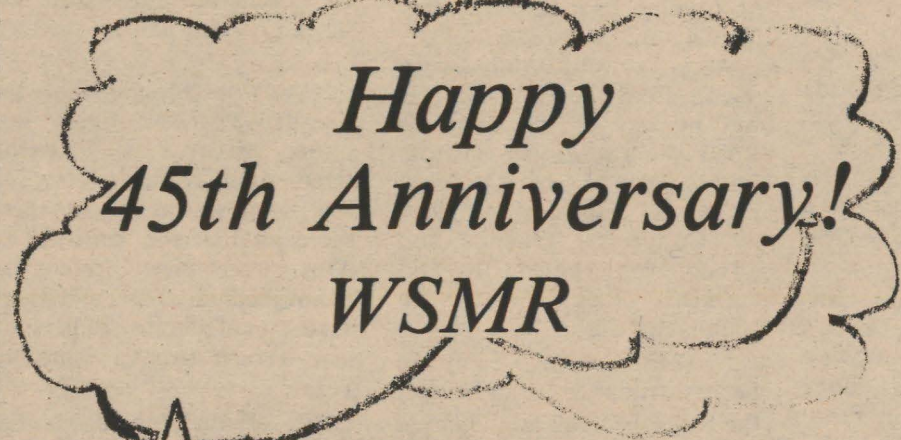
**Recurring events and services.**  
**PINOCHLE TOURNAMENT.** Every Sunday at 2:30 p.m.  
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 There is no charge for the tournaments. Prize dollars are awarded and can be used for video rentals, or to buy something out of our prize cabinet.  
**SEWING REPAIR FOR SINGLE & UNACCOMPANIED MILITARY PERSONNEL.** This service is offered free on second and fourth Wednesday for each month from 6-9 p.m. Limit to one or two items per person.  
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**LETTER AND PACKAGE MAILING SERVICE.** Available Monday through Friday (except holidays) 9 a.m. to 3:30 p.m. Charges based on weight plus \$3 transaction fee (per transaction not package). The Recreation Center uses United Parcel Service (UPS).

**LUAU IN JULY.** Countdown Recreation Center is sponsoring a luau on July 29, at the WSMR Officers' Club. The event will include a meal of Kalua pig (pig smoked in an underground pit called an imu), Chicken Long Rice, Pork Chop Suey (Hawaiian style), Haupia (Hawaiian type jello with coconut), poi (crushed taro root), fruit salad, pineapple and fruit punch  
 Along with the meal there will be a traditional Hawaiian program with hula and Tahitian dancers, a Polynesian band and slide show on Hawaii. Ticket prices are: Adults \$6; children (5-11) \$4; under 5, free. Tickets may be purchased

from Countdown Recreation Center, Officers' Club, or organizational representatives. For more information contact the Recreation Center at 678-4134.  
**TOUR ESCORT TRAINING.** Active duty military and/or spouses interested in training as a tour guide/escort for the Countdown Recreation Center excursions, contact George Coffey at 678-4134/4690 or come by the Countdown Recreation Center, Bldg. 250.  
**TICKETMASTER (Cash Only).** Ticketmaster is located in the Countdown Recreation Center, Bldg. 250. Open Monday through Friday, 9 a.m. to 5

p.m. Community Recreation Division has a service fee of fifty cents per transaction. Have the correct change.  
**The Rainbow Ticketmaster outlet at the Countdown Recreation Center no longer carries tickets for NMSU events or concerts at Pan Am Center. All those events will be available through the Pan Am Ticket Office.**  
**BODY BUILDING.** Civic Center Theatre, El Paso, July 21, 7 p.m.; \$13.50, \$11.50, \$9.50.  
**WWF WRESTLING.** Convention Center Hall, El Paso, July 30, 7:30 p.m.; \$16.50, \$13.50, \$10.50.  
**VIVA EL PASO.** McKelligon Canyon Amphitheater, June 28 through September 1 (each Thursday, Friday and Saturday), 8:30 p.m.; \$9.50, \$7.50, \$6. Meal tickets can also be purchased, to be served at 7 p.m.; \$8.50 combination plate, \$7.50 fajita dinner, \$6.50 Chicken dinner.  
**SINGIN' IN THE RAIN.** Performing Arts Theatre, El Paso July 13-14 at 8 p.m., July 15 at 3 p.m.; \$9.50 adults, \$7.50 children 2-12 and seniors.  
**Other tickets available through ITT at the Countdown Recreation Center:**  
 Allen Theatres, Las Cruces \$3 ea.; General Cinema, El Paso \$3.25 ea.; Red Lobster, \$4.25 for a \$5 gift certificate.



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- I. Kick-Off Planning Elements
    - A. Entertainment
    - B. Agency Fair
    - C. Publicity
    - D. Mall Merchant Involvement
    - E. Kick-Off Ceremony
    - F. Pacesetter Award Presentation
  - II. Entertainment Ideas
    - A. Showtime USA
    - B. VIVA! El Paso
    - C. Ballet Folklorico
    - D. Mariachi Group
    - E. Springfire Group
    - F. Diablo Baseball Team/Cheerleaders
    - G. Clowns w/UW Balloons
    - H. Food Stands
    - I. Finger Printing
    - J. School Bands
  - III. Agency Fair
    - A. Booth Set Up
    - B. Agency Activity
    - C. Information/Brochures
    - D. Stage Decoration
  - IV. Publicity
    - A. Radio Remotes
    - B. Newspaper—Times/Post
    - C. Community Newspapers
    - D. PSA's, Marquees
    - E. T.V.—Talkshows, PSA's
    - F. Newsletters—Update July Issue
  - V. Kick-Off Ceremony
    - A. Welcome
    - B. Recognition Pacesetters
    - C. Special Event Activity

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# Post owes Dr. Robert Goddard debt of gratitude

White Sands Missile Range owes a debt of gratitude to one man more than any other for its existence. For without the work of that man we probably wouldn't be here today.

That man, Dr. Robert H. Goddard, made most of the significant advances in the development of rocketry before the American people or the U.S. government, for that matter, even considered rocketry and the resultant space exploration seriously.

Rocketry really began in the 11th century, but early rockets were widely known in many parts of Europe, and several types of rockets were mentioned in a German military report dated in 1405.

In 1855 the first two-stage rocket was devised and used to project life-lines in sea rescue. Little was accomplished during the ensuing years until Dr. Goddard began his studies in the late 1800's.

Known as the father of modern rocketry, Dr. Goddard was born in Worcester, Mass., Oct. 5, 1882. At the age of 17, he had a dream of man's flying to the moon and to Mars.

Despite being sickly he finished high school, obtained a bachelor's and master's degree

and pursued the science of space. He wrote numerous papers but for the most part was laughed at. After all, here was a man talking about rockets before most scientists even believed man could travel by airplane.

But Dr. Goddard was determined. He began his experiments with rockets in the basement of the Worcester Polytechnic Institute in 1908. He became an instructor of physics there while continuing graduate study at Clark University, where he received his MA degree. In 1911 he completed his PhD also at Clark. During the next two years the doctor served as a research fellow at Princeton University.

Dr. Goddard's thinking was far too advanced for his time, and scientific periodicals to which he submitted his manuscripts, promptly returned them.

For instance, in 1907 a paper he prepared discussed the means of furnishing jet propulsion sufficient to permit navigation in interplanetary space. Two years later he conceived the idea of using hydrogen and oxygen as fuels for interplanetary rockets.

In 1914 he intensified his research into solid as well as

liquid-fuel rockets. Using his own funds he constructed rockets of various types to use in his experiments.

When his resources were depleted in 1916, he submitted papers on his work to several foundations seeking financial backing for his research activities. The Smithsonian Institute supplied an \$11,000 grant, the investment which launched modern rocketry.

When the U.S. entered World War I in 1917, Dr. Goddard volunteered his services and was assigned the task of investigating the military possibilities of rockets.

At the close of the war, Dr. Goddard returned to his work on the development of high-altitude rockets, and on March 16, 1926, the world's first liquid propelled rocket took flight at Auburn, Mass. This rocket was the true precursor of the German V-missiles of the granddad of the space age.

Goddard's achievement predated the use of liquid fuel in the German V-2 by nearly 18 years.

It wasn't easy to experiment with noisy rockets in densely populated Massachusetts. In 1929 Goddard's fourth liquid-

propelled rocket brought problems.

The rocket flew 184 feet in 2.5 seconds. The roar of the fiery rocket startled citizens who thought a plane had crashed. The wire services picked up the story of the rocket, saying Goddard's rocket to the moon had exploded some 230,000 miles short of its target. The Massachusetts fire marshal forbade Goddard to fire his rockets within the borders of the state again.

Completely overlooked in the uproar was the fact that the rocket had carried an instrument package containing an aneroid barometer, thermometer and a camera triggered to operate when the parachute opened. All were recovered completely intact.

Through the assistance of Dr. Charles Abbott, secretary of the Smithsonian Institute, the War Department granted Goddard permission to use part of the artillery range at Camp Devens, now Fort Devens, Mass. However, he could only test after rains or when snow was on the ground.

As a result of his 1929 flight, Dr. Goddard's work attracted the attention of Col. Charles A.

Lindbergh, first person to fly the Atlantic solo. He in turn called it to the attention of Harry Guggenheim and his father, Daniel Guggenheim.

The Guggenheim Foundation granted Goddard \$25,000 per year for at least four years. For the first time he had adequate financing, and he moved his work to Roswell, N.M., for comparative freedom in testing on the New Mexico desert.

At Roswell he established himself at Mescalero Ranch, just 100 miles from the site to be chosen later for the establishment of the White Sands Proving Ground, now White Sands Missile Range.

At Mescalero Ranch he fired the first gyro-stabilized missile in 1932. On July 28, 1937, he launched the first rocket to use a pivoted motor for steering.

In 1941, Dr. Goddard accepted an invitation to join the Naval Experimental Station at Annapolis, Md., and continued his research there.

He had planned to return to Roswell at the conclusion of World War II, but he died unexpectedly Aug. 10, 1945. He had lived long enough, however, to see the U.S. recognize the importance of his gigantic contribution to that science.

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# Texans first to nudge Europeans from the West

**WSMR: The Texans**  
by Tom Starkweather

Texas would be the initial domino to fall to land hungry pioneers from the east.

Texas had been the first of the American west to be claimed by Spain and it would be the first to be lost to both Spain and Mexico.

The birth of the United States had sounded the death knell of Spain's empire in the west, although the Spaniards wouldn't be present for the showdown because revolution would have ousted them from Mexico.

When the Comanches had beaten the Spaniards at the Battle on Red River in 1759 they became the real masters of the Texas interior.

Mexico City discovered it was next to impossible to increase

the province's population. There were only three categories of people who volunteered to go to Texas.

Missionary priests who wanted to spread the faith and were willing to die a martyr's death.

Young army officers who felt a quick reputation would advance their career.

And ranchers who recognized the value of Texas to raise stock and wanted to escape Mexico's bureaucratic controls. Never during the 18th Century did Texas contain more than a few thousand Spanish settlers, and most of them were located near San Antonio and La Bahin (later named Goliad).

With the Iturbide Revolt of 1821 the gates to Santa Fe were also opened and soon a strong trade with Americans flourished with traders from Missouri,

which was much closer than Mexico City. And in 1832 New Mexico was in revolt because of new and direct tax dictated by Mexico City.

In June of 1821 Mexico ousted Spain from the country and the door to Texas was opened in April of 1823.

In the next 12 years almost 28,000 Americans were to cross the threshold. These ambitious colonists demanded American-style services like roads, post offices and schools. Mexico didn't provide these in its own home states and the strife-torn and corrupt government in Mexico City regarded Texans as ungrateful citizens. In short time it even succeeded to offend those Texans loyal to Mexico.

In 1833 Santa Ana had managed to make himself president of Mexico but by then revolution in Texas was irrever-

sible.

When it came Santa Ana proved to be both a poor leader and a victim of bad judgment. Texas won independence in 1836 and then brazenly decreed that the Rio Grande was the Texas-Mexico border, thereby claiming parts of four Mexican states. Texans did things in a big way right from the beginning, I guess. They created Santa Fe County that consisted of west Texas, most of New Mexico, and portions of Colorado, Kansas and Oklahoma.

As an aside, I was sitting in my motel room in Austin, Texas, on election night a number of years ago when the local television station announced they had the first returns coming in from west Texas which turned out to be San Antonio and Fort Worth.

If you are surprised, remember that Nueces River boundary for Tejas before Texas independence in 1836. East Texans have never mentally adjusted to the Rio Grande border, even after 150 plus years.

With all the turmoil and the persistent invasion of its territory, Mexico would have declared war with the United States in March of 1845 except it had another revolution on its hands.

Their new leader, Paredes, had to install his presidency by force in 1846. By then the United States had provided the ultimate provocation, crossing the Nueces River and marching toward the Rio Grande.

With 30,000 men under arms

- four times more than Americans - and geography in their favor, everything seemed to benefit Mexico.

But events were to prove otherwise. In their desperation in the coming months Mexico would turn once again to Santa Ana, who was in exile in Cuba. Perhaps this sealed her fate.

The Americans captured Mexico City and on February 2, 1848, a peace treaty was signed concluding 17 months of combat and 25,000 Mexican and 5,000 American deaths.

Mexico recognized the Rio Grande as its borders with Texas and ceded one-third of its territory - California and New Mexico - to the United States.

As a result many Mexican -now Mexican-Americans - suffered prejudice as American settlers crowded in on what had been their land.

Some removed to Mexico because they could not abide the culture shock of American institutions. But a great many stuck it out.

They were prepared for a change in government because of their isolation from Mexico and many admitted that the Americans' frontier democracy came closer to the principles on which it was based than did the cynical despotisms of their own generals and aristocrats in the name of their republican constitution.

Incidentally, when Texas joined the Union in return for this nation paying off the Texan's "national debt" they ceded

*Continued on page 19*



## WHITE SANDS PIONEER GROUP

PROUDLY PRESENTS

### the 45th ANNIVERSARY LIMITED EDITION

INDIVIDUALLY SERIAL NUMBERED

On the back of your commemorative is a plaque showing the total quantity of the limited edition along with the individual serial number.



**CERTIFICATE OF AUTHENTICITY**

The Certificate of Authenticity enclosed with your commemorative guarantees the limited edition quantity and the individual serial number along with protecting the value. A separate card enables you to register your buckle in our Archives for proper identification.

**THREE DIMENSIONAL WORK OF ART**

A great deal of time and care has gone into the designing and sculpting of this limited edition belt buckle. The three-dimensional detailing makes this piece one of the finest works of art to be found today.

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White Sands Missile Range - where the atomic age was ushered in and America's missile and space program began in 1945.

White Sands Missile Range - the Department of Defense's flagship test facility; for 45 years, the leader in weapons and space systems testing, instrumentation development, real-time data processing, flight safety, data collection, vulnerability assessment, atmospheric research, laser experiments and a myriad of other activities.

White Sands Missile Range - where Billy the Kid and Geronimo once rode - where Werner von Braun and Robert Oppenheimer trod - where astronauts train - where Oryx, Barbary sheep, antelope, deer, coyotes and mountain lions play - where history is made and records are broken.

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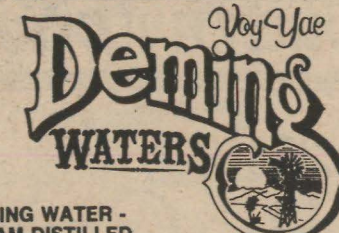
Designed and produced by BOSTOCK BUCKLE



**HAPPY 45TH ANNIVERSARY**



*You are doing much for this history making area. You are making astonishing progress in the conquering of the vast realms of the universe. We sincerely congratulate you and wish only continued success for the future.*

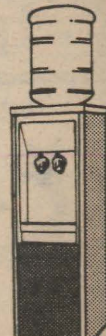


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## Two roll initial 600 series

by Brenda Myers

During the month of June, Vern Noland and Sam MacLaughlin both rolled their very first 600 series while Robert Jeskey rolled the high series of 688 and Dave Sment rolled a 277 game. The high scores for each league turning in publicity are as follows:

**WSMR Classic:** Robert Jeskey, 688; Roland Lewis, 649; Simon Grijalva, 638; Dave Buening, 611; Jim Withers Sr., 610. High games were by Jeskey, 256; Lewis, 242; Withers Sr., 234; Rodger Jones, 229; Grijalva, 228; and Paul Medeiros, 228.

**Thursday Night Mixed:** Dave Testa, 624; Tommy Tompkins, 585; Simon Grijalva, 583; Jim Withers Sr., 570; Daren Woolum, 570; and Don Hall, 570. High games were by Grijalva, 254; Withers Sr., 235; Testa, 231; Pat Lopez, 228; and Hall, 222.

For the women Kay Woolum, 563; Lee Michels, 559; Debby Klansnic, 538; Tammy King, 536; Brenda Myers, 531. High games were by Woolum, 202; King, 199; Myers, 197; Michels, 197; and Joyce Guerrero, 192.

**Men's Progressive:** Dave Sment, 680; Joe Barreras, 654;

Bob Gibson, 633; Pat Lopez, 612; Mel Holguin, 600. High games were by Sment, 277; Steve Ellison, 244; Barreras, 242; Garry Hall, 243; and Den-



nis Johnson, 237. Sunday Mixed: Vern Noland, 667; Sam MacLaughlin, 600. Diana Scell, 484; Laura Blanchard, 418; and Kathy Door, 407.

High games were by Noland, 237; MacLaughlin, 213; David Melendez, 213; Caroline Tharp, 181; and Blanchard, 161.

**Friday Mixed:** Joe Sanborn, 622; Darwin Norgard, 598; Victor Quijano, 522; Frank Silva, 500. High games were by Sanborn, 234; Norgard, 216; Silva, 194; Quijano, 192; John Trujillo, 191. High for the women was Cathy Miller, 487, Rita Norgard, 428; Marion Tarietta, 425; Josie Marquez, 422; Fade Salem, 414.

High games were by Miller, 185; Wanda Contreras, 180; Tarietta, 169; Marquez, 166; and Eloisa Bowin, 165.

## WAS bulletin board has pool info

A special bulletin board has been established on the WAS for the exchange of carpool/vanpool information.

Those WSMR employees interested in forming new or joining already existing car-

pools/vanpools to commute to/from WSMR may advertise on this bulletin board.

To read the carpool/vanpool bulletin board, at your system prompt, type \$vanpool.

To post an entry to the car-

pool/vanpool bulletin board, send email to: vanpool.

Make sure you include the name of the POC for the vanpool, as well as their telephone number or email address, in your bulletin items.

## Texans first to

*Continued from page 18*

much of their claimed territory to the United States.

El Paso had a choice to become part of New Mexico or remain in Texas. El Pasoans elected to stay in Texas.

In retrospect this was unfortunate as the rest of Texas doesn't know or care there is a west Texas most of the time, while an El Paso, New Mexico, would have been the largest city in the southern half of the state and an El Paso-Las Cruces alliance would have provided balance to the Albuquerque-Santa Fe axis that exists today. (And, there would have never been a big law suit over water).

Returning to the Tularosa country the gringo was on his way.

In 1874 several of these newcomers settled in Tularosa and bought land. The best remembered is Patrick Coghlan, an Irish immigrant

who served in the Army, lived for a short term in Texas, and then moved to Tularosa where he established the first permanent store, a wagon yard and a famous saloon.

These first, so-called Anglo-Americans were followed by the Texas cattlemen and then prospectors from across the nation. The Tularosa Basin was changed forever.

Texas had, of course, joined the Confederacy. After the war had ended times were extremely hard in Texas.

Eventually, some Texans started drifting west in search of new starts. Many ended up in New Mexico.

It was the Texans who were to make the Tularosa country the last of the Frontier West.

Their way of life would clash head on with those already established in the valley.

The law the Texans observed was not the law of the Indian,

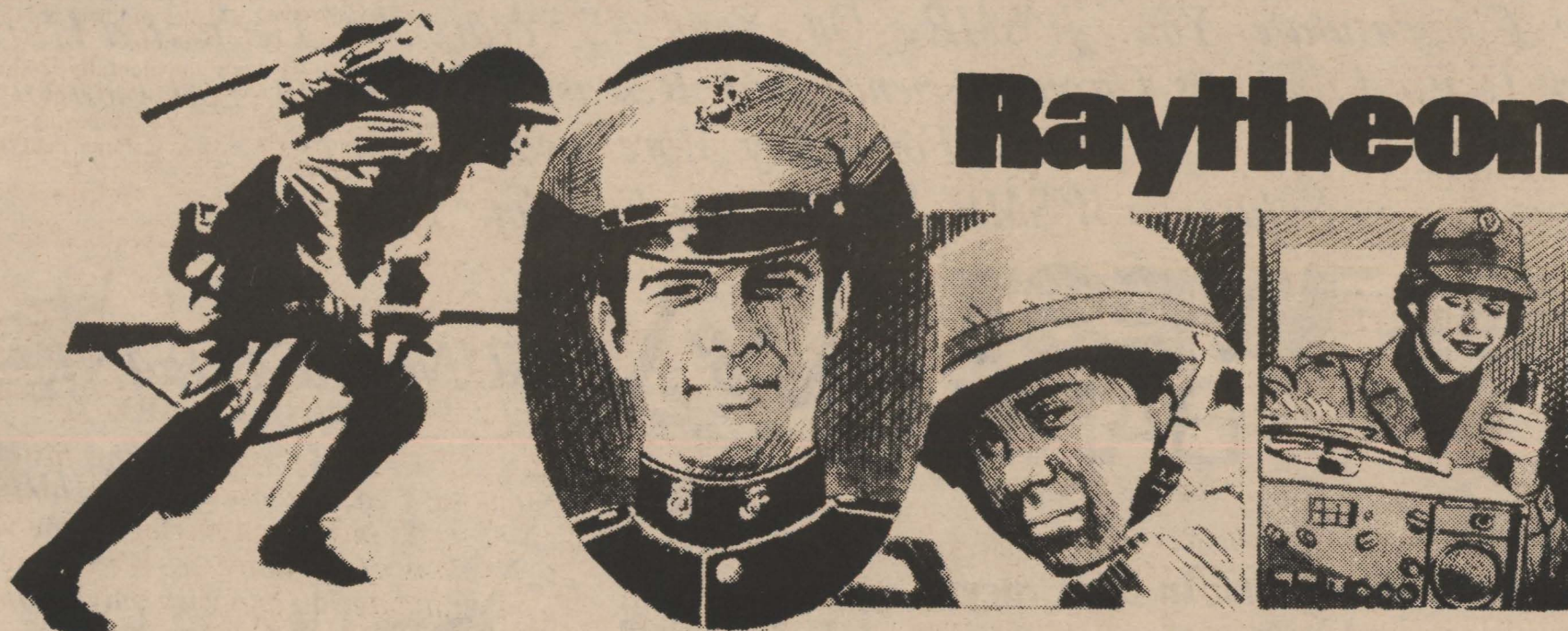
or of Spain, or of Mexico or even of the Yankees who arrived during and after the Civil War.

The feuds and the killings by Texans left a legacy that lasts to the present day.

Both La Luz and Tularosa, heretofore sleepy little farming communities, would soon acquire reputations of tough towns with frequent shootings.

The history of the Tularosa Basin was no longer being written by the Indian or the Mexican-American but rather by men with names like Good, Coe, Hilton, Nation, Killan, Kellam, Altman, McDonald, Cooper, Graham, Billups, Vick, Earhart, McNew, Gilliland, Cox and Lee.

These are names well known in southern New Mexico and west Texas and rarely does a week go by that you can't find mention of their descendants in local newspapers today.



# Raytheon

*Congratulates The Military And Civilian Personnel  
At White Sands Missile Range  
For Their Dedication And Service.*

# Raytheon

**White Sands Missile Range, N.M.**

# Range once prime part of San Augustin Ranch

Variouly rendered as San Augustin, San Augustine and San Agustin, the land on which much of White Sands now stands was a prime part of the San Augustin Ranch, which was owned and operated by Mr. and Mrs. James W. (Jim) Cox, whose son and family now live in the old ranch house just two miles outside of the missile range boundary.

Named for the landmark peak and pass of the Organ Mountains through which today's U.S. Highway 70 passes, the ranch has been an intricate part of history and development of the west for more than 150 years.

While daily activities at WSMR write new pages in history, Jim Cox's San Augustin Ranch sits in retirement though not in total disuse. The house and grounds abound in history, a reflection of the old contrasted with new, a part of the past overshadowed by the present, the space age with missile testing on its doorstep.

Livestock still graze on the reduced acreage but Cox's herds are today a far cry from the thousands that ranged the original spread. Mr. Cox sold about 90 per cent of his 105,000

acres of land to the Army. It is now a prime part of White Sands Missile Range.

The design of the Cox ranch house has changed little in the past half-century. Its three-foot thick walls and protective patios are evidence of the mood of the land in the days it was built.

The site of the house was once the only water hole between El Paso and Tularosa. A hillside of lush cacti and grass marks the location of the five San Augustin springs which flow from the edge of the mountain.

Seven or eight small areas are identified as graves whose histories are buried along with the people. Although two headstones remain, only one story is known—that of a girl who was buried in what is now the Cox corral.

## Rancher Cox

Rancher Cox, the man of the San Augustin Ranch since 1895, knows much of the story of the house and area. There are tales of the San Augustin Inn, San Augustin Hotel and scraps of history about the girl buried in the ranch corral. The stories form a cross-section of Southwest history and bring to

life happenings of the past 125 years.

In the late 1840s a tall personable young man, Thomas J. Bull of Indiana, returned to the Mesilla Valley to make his fortune. He had previously marched through the area enroute to Mexico City as a Quartermaster Clerk with the American Army in 1846.

Bull settled at San Augustin springs on the Old Salt Trail. In 1851, he obtained a contract to provide lumber constructing Fort Fillmore. Much of the lumber was obtained from mountain slopes near the springs and in the immediate vicinity of today's White Sands Missile Range.

Affluent and ambitious, Bull decided to move on, so he sold his San Augustin holdings on the Old Salt Trail to Warren T. Shedd.

Shedd was a well set-up man financially who had ridden out of St. Louis, Missouri well before the Mexican War with a party of young men headed for Paso del Norte. Prior to the purchase of the San Augustin spread, Shedd had accompanied an outfit of pack-animals and oxcarts over the Old Salt Trail to the salt flats and soda beds

between Carlsbad and El Paso. The San Augustin layout caught his eye and led to its purchase.

Soon after acquiring the San Augustin property, Shedd opened a small inn and commissary which indicated his modest beginning. But water, forage and fuel were available, and the Old Salt Trail was a main path to the west side of the mountains. Prospectors, Army troops, cattlemen and travellers stopped at the San Augustine Inn for food, water and forage. Shedd prospered.

Mining booms in the nearby mountains brought men of all classes along with pack animals. The mushroom gold camp at Brice, three miles west of Orogrande on the eastern slope of the Jarilla Mountains, brought many guests and many killings.

The San Augustin Ranch, back of WSMR and now the home of Mr. and Mrs. Robert Cox, was in the main erected by Warren Shedd. The house is solidly built around three sides of a patio. A second high-walled patio with gateway faces the Organ Mountains. All rooms of the house open onto the patios, a precaution against roving Apaches and outlaws.

## Mining Booms

A geological study of Dona Ana County by the New Mexico School of Mines at Socorro in the mid-1930s described the Organ mining district as including both the east and west sides of the southern end of the San Andres Mountains and all of the Organ Mountains down to Baylor's Gap.

There were many mines being worked along the canyons and slopes at that time and the remains of some old shafts are still discernible today from U.S. Highway 70 which passes between the two mountain ranges at San Augustin Pass.

Several million dollars worth of copper, silver and gold were taken from the Torpedo Mine, just above the village of Organ. Tailings and rock leaching tanks are still visible there. Flooding and the high cost of mining finally forced the closure of this and most of the other mines which were worked until the early years of World War II.

On the east side of the Organ Mountains is the Gold Camp which can be seen among rocky outcroppings. The Gold Camp is located within the missile range and is off limits to prospectors and visitors.

*We Congratulate You, WSMR, On Your 45 Years Of Dedicated Hard Work To Find Answers Through Science And Research. We Wish You Continued Success For Many More Years.*

*Salute To WSMR And Thanks For Your Support!*

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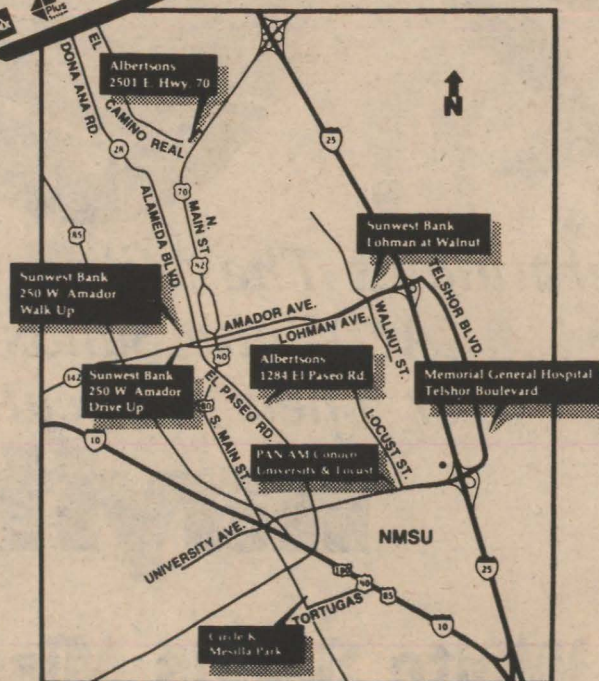
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## Condron Field modern

Continued from page 11

tire series of recovery tests without accident.

Two Army aircraft figured prominently in these experiments, the CH-37B (Mojave) helicopter and the L-19. The big H-37 was the retrieval aircraft while the L-19 stood off a few hundred feet to monitor the action for safety purposes and to provide a camera chase plane.

### Pilots change

Through the years, Army Aviation at WSMR has been staffed with a variety of pilots. The first five pilots assigned on Sept. 6, 1946, were non-commissioned officers, four master sergeants and a staff sergeant. In 1949 they were replaced by officer pilots. In 1957, Civil Service provided some pilots and in the mid-sixties, a large part of the recovery operation was let out to civilian contractors who furnished both pilots and aircraft to augment the military operations.

### Outstanding record

In 1976 the Army Aviation Accident Prevention Award of Honor was presented to the AAOD for 20,000 accident-free flying hours. Officials said that

the feat was exceptionally noteworthy because of the climatic conditions at WSMR. The lower density of high altitude lessens an aircraft's power and increases flight hazards. As of June 1985, AAOD extended its record to 65,000 accident-free hours.

### AAOD today

The original Army Air operation spawned at Condron Field in 1942 is alive and well today, having survived oscillating changes in command responsibility, personnel, aircraft, location and workload. Only the mission remains the same.

The AAOD, commanded by Lt. Col. Van T. Drake, is located in the north area at Holloman. The organization has 17 aircraft and 17 pilots. The times have changed as 15 of these aircraft are rotary wing or helicopters.

There are five Bell UH-1's crew or Hueys, each of which carry two crew members and 11 passengers. Ten OH-58's, small Bell helicopters, perform most of the missile search missions.

Two fixed-wing aircraft include a Beechcraft U-21 Kingair (UTE) and a Beechcraft Queenair U-8. These are similar in configuration with the exception that the U-21 is slightly

larger and has twin turbine engines. The U-8 is an older model with twin reciprocal engines.

The UTE U-21A was designed to provide support to ground troops in or out of the combat zone. It is capable of performing aerial photography, geodetic survey and electronic warfare. It may also be used to deploy paratroops, conduct aero-medical evacuations and support special Army Security Agency missions. At WSMR the UTE is used mainly to transport personnel and cargo.

While the mission of search and recovery is still the same, with the advent of navigational equipment in the aircraft a new capability has been added: tracking. Missiles in flight can be tracked by Army aircraft and the information relayed to stations on the ground.

Pappy Hedrick holds the longest tenure as an Army Aviation pilot at WSMR. Hedrick sums up the work history of Army Air Operations at WSMR when he says, "Most of the time it's not the same two days in a row." As an example of the variety of the daily workload, he described a mission when Army pilots airlifted scabies-ridden bighorn mountain sheep

off the range for the State Game and Fish Department.

### Condron field changed, too

Meanwhile, under the direct supervision of AAOD Chief Capt. Bruce W. Fox, Condron Field has only one full-time employee -- civilian Roy C. Overton. Overton operates the entire field by himself and is physically responsible for all the activities of an operating airport. Overton answers the phone, communicates with flying aircraft in the area, coordinates incoming and outgoing flights, gives takeoff and landing instructions and meteorological information.

Condron Field's solitary inhabitant communicates on four radio frequencies, two of which are for emergency use.

There are no aircraft based at Condron other than those belonging to the WSMR Flying Club. Permission must be obtained to use the field. Overton also coordinates this function, briefing the pilots on how to approach the field in one of four authorized corridors. The field's normal operating hours are from 8 a.m. to 4 p.m. In the event of aircraft landing at

night, Overton sets a timing device to turn the field lights on and off automatically.

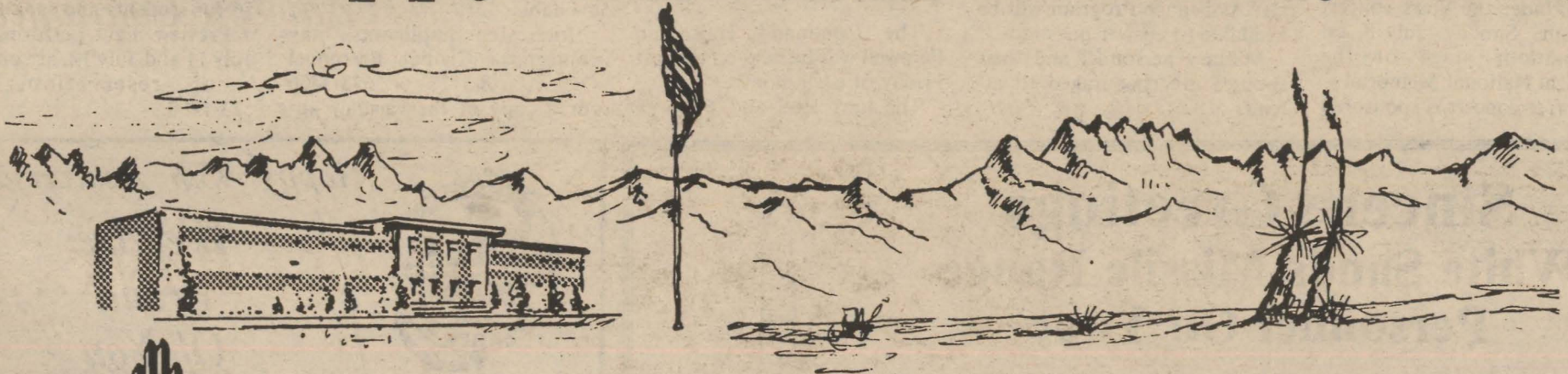
Condron Field once logged 16,000 operations a year. A landing or a takeoff is each a single operation. Condron is now logging 250 to 300 operations monthly. The field is often used as a base of operations or an "objective" for airborne or cavalry maneuvers. This is possible because Condron now boasts a 6,125 foot runway which can accommodate some of the largest convention aircraft and medium-sized jets.

In the past, for example, forces of the 18th Airborne Corps from Fort Bragg, N.C. airdropped troops south of Condron, later maneuvering north to "take" the field. All troops were evacuated in C-130 aircraft from Condron.

Condron Field's main mission is to support the movement of VIPs and cargo coming to and going from WSMR. Corporate aircraft of contractors using WSMR may also use Condron as a base of operations.

Even with no aircraft and a single airport operator, indications are that Condron Field will be active as long as there is something going on at White Sands Missile Range.

# Happy 45th Anniversary



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El Paso  
4545 Hondo Pass  
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## Briefly

### Youth Services to participate

The following is a schedule of events that will be put on by Youth Services as part of Organization Day:

9 a.m. - Face Painting

10 a.m. - Body Casting

11 a.m. - Parachute Fun

Noon - Water Fights and USDA Summer Food Program. Free lunch from noon to 1 p.m. for youth 18 years and younger at Youth Services.

1 p.m. - Basketball Fun "Free throw contest and 3 on 3 mini basketball tourney" sign-up by 12:45 p.m.

2:30 p.m. - Slow Bike Races.

### Closed today

Financial Management Service Division, Bldg. 100, Room 115, 108 and the DPCA Aluminum Recycling Center, Bldg. 1871, will be closed today, organization day.

### Open the Sky plays in EP

Nancee Kahler and Open the Sky defies stereotype. Their music is a mixture of styles; the music is the finest of the New Age, yet it is jazz, rock, folk and classical influences merging.

Nancee Kahler and Open the Sky will perform at the next Music Under the Stars concert at 8 p.m., Sunday, July 8, on the outdoor stage of the Chamizal National Memorial.

The free concert is sponsored

by the City of El Paso Arts Resources Department.

The band features Kahler on piano and synthesizer, Greg Juchem on bass, Steve McGraw on drums and percussion, and Cooper Tisdale on guitars.

### Chamizal show slates Sotavento

The wind blows in a united direction, which is the essential breath of Sotavento, a six-piece Latin American ensemble that synthesizes as many as two dozen indigenous instruments into one idea.

They will be featured at 8 p.m., Sunday, July 22, on the outdoor stage of the Chamizal National Memorial.

The free concert is sponsored by the City of El Paso Arts Resources Department.

### Workshop aids in soothing PCS

Family Services will present a workshop to help make your PCS move smoother on Wednesday, July 11, beginning at 7:30 a.m. in Room 3 at the Education Center.

Representatives from the Staff Judge Advocate, Health Clinic, Personnel Administration Center, Security, Finance and Accounting, Transportation, Housing, Exceptional Family Member Program, and Consumer Affairs and Financial Assistance Program will be available to answer questions.

Military personnel and their spouses are encouraged to attend.

For more information, call ACS Family Services at 678-5156, or stop by Bldg. 250.

### Calling old cars

The WSMR Shoppette/Service Station is sponsoring another Mustang Roundup on July 10 and 11 from 10 a.m. to 4 p.m. on both days.

Cars of vintage 1973 and older will be judged on July 10 and all Mustangs will be judged on July 11.

Michelin representatives Ray Johns will be there to answer questions about Michelin tires.

Prizes will be awarded courtesy Michelin tires.

For further details, contact Carol White at 678-4877.

### Rec Center slates tours

The following tours by the Countdown Recreation Center are scheduled for July and August: Western Playland Amusement Park on July 14, \$9; an exciting evening at the Mesilla Raceway on Aug. 4, \$2 plus entrance fee; splash at Wet 'N Wild on Aug. 11, \$11; the Deming Duck Races on Aug. 25, \$3.

Signup in advance by the Wednesday before the event is required.

For more information, call 678-4134.

### Hail, farewell due

The Command Hail and Farewell will be held on the last Friday of each month.

The next Hail and Farewell

will be held on Friday, July 27, at 4:30 p.m. at the Officers' Club.

The purpose of the Command Hail and Farewell is to welcome all officers and civilian employees who have arrived at this installation since March 30 and bid farewell to those who will depart before May 25.

For more information, contact the Protocol Office at 678-1028.

### YS releases events schedule

Organization Day today, at Volunteer Park.

Deadline for signing up for California trip is today.

Anything can happen day will be the event tomorrow.

This Sunday, Youth Services will be closed.

Open Activities will be the event on July 9 from 1 to 5 p.m.

Story Telling will be the event on July 10.

Youth Services will have slow bike races on July 11.

On July 12, we will have a trip to Las Cruces Community Theater for a performance of the "Wizard of Oz." Deadline for sign up is July 10.

### Naval Ordnance vacancies listed

The WSMR Naval Ordnance Missile Test Station currently has the following vacancies available.

Interested applicants may contact the Civilian Personnel Office, 678-3727 or 678-3406 for a copy of the vacancy an-

nouncement.

General Engineer, GM-801-13/14. Are of consideration: DoD employees nationwide. Closing Date: July 20, 1990.

Mail and File Clerk. Area of consideration: DoD employees in the commuting area. Closing date: July 9, 1990.

### Don't drive into route of parade

The following roads should be avoided this morning between the hours of 8 to 9:15.

These roads lead into the parade route for the Organization Day Parade: Thor St., Zuni Dr., Zuni-Aerobee Ave., Hercules St., Vanguard Dr., Vanguard at Viking St., Atlas St., Red River Ave., Twin Cities Ave., Lake City Ave., Letterkenny Ave., Rossford Ave., Anniston Ave., and Tooele Ave.

### 'Wizard of Oz' Comes to Cruces

Las Cruces Community Theater presents "The Wizard of Oz" July 11 through July 22 at the old State Theater at the Downtown Mall.

Performances are at 7:30 p.m. Wednesday through Saturday, and at 2 p.m. Sunday.

Note that the evening performances are a half hour earlier than the usual time.

Tickets are \$7 for adults and \$6 for students and seniors.

Preview night performances, July 11 and July 12, are only \$4.

For reservations call 523-1200.

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White Sands Missile Range  
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Free Taco Bar Every Friday  
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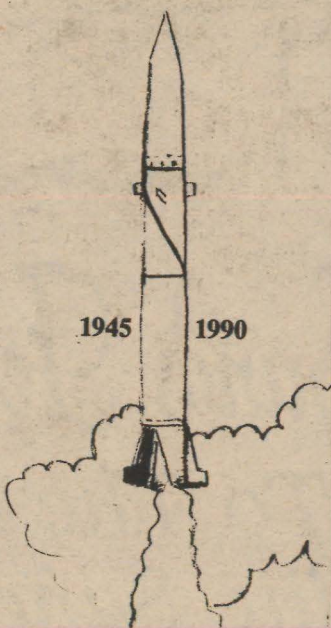
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522-5512

# Mysterious monoliths guard range headquarters

A silent cluster of objects stands watch over Headquarters at the range. Mysterious monoliths seemingly frozen in time and space, which together form the nation's first outdoor "missile museum."

The park, a triangular shaped area at the intersection of Headquarters and Nike Avenues, was established in 1955. It contains actual examples and models of many of the missiles and rockets tested at the range.

The collection of Army, Navy and Air Force missile and rocket systems is displayed in typical firing attitude and is the focal point of interest of visitors to the range. It is the only place on post where visitors are allowed to take pictures.

The different rockets and missiles exhibited in this unique outdoor museum represent extensive test programs conducted at the desert installation since its establishment some 35 years ago.

The first three missiles that started the park were the German V-2, the American version of the German V-1 (known as the Loon), and the U.S. Army's Nike I, later known as the Nike-Ajax.

Holding center stage in Missile Park is a German V-2, one assembled from carloads of parts brought to the New Mexico missile range from Europe at the end of World War II. The V-2 was built by the Germans from findings of Dr. Robert Goddard, who did pioneer testing during the early 1930's near Roswell, N.M.

The V-2 experimental program during the early years of WSMR provided the basic research for America's array of modern missiles and rockets and for placing men on the moon less than 25 years later. America's missile program began in earnest on April 16, 1946 when the roar of the first V-2 shattered the desert stillness as it lurched from its make-do launch pad and careened across the sky.

Between then and June 28, 1951, a total of 65 reassembled V-2s were launched on White Sands range and two from ships at sea. During the program, the V-2 was used for hundreds of

experiments and set numerous records, chiefly because it was the vehicle for the nation's first missile program.

A V-2 with a WAC Corporal mounted on its nose was the world's first two-stage missile. One of these two stage rockets, on Feb. 24, 1949, set an altitude record of 244 miles. That was America's first step towards the moon.

Nike Ajax was America's first guided anti-aircraft missile. It was first tested at WSMR in October 1951 and became fully operational May 30, 1954. It was the world's first supersonic guided missile to become operational and 10 years later, in November 1964, the pen-shaped Ajax which had a "one shot kill" potential was withdrawn from active duty.

Other members of the Nike family in the park are Nike Zeus and Hercules.

Nike Zeus was the U.S.' original anti-ICBM missile system to reach advanced development. It was designed for defense against ICBM's and intermediate range ballistic missiles that could be launched against heavily populated areas, industrial centers and strategic military points.

The Nike Hercules was the U.S.' primary high altitude air defense weapon. The weapon was used successfully against high performance aircraft at a variety of altitudes.

Within a couple of years, a dozen or more missiles had been installed in Missile Park, each donated by the contractor who built and owned it.

Although the V-2, Loon and Nike Ajax were charter members of Missile Park, they were not the first missiles flown on the White Sands range. That honor belongs to a war-time Tiny Tim, modified to simulate a WAC Corporal and developed to probe the upper atmosphere. The Tiny Tim was launched Sept. 26, 1945.

Soon to join the ranks of weapons in the outdoor showcase was the Navy's Aerobee Hi sounding rocket used for upper atmosphere studies. Still a vital support vehicle today, Aerobee was first flown in 1947 and broke its own

altitude record for a single-stage boosted rocket 110 years later, on April 10, 1957, when it zoomed to 190 miles.

Through the years, Aerobee has kept pace with science and today supports numerous programs including several for the national Aeronautics and Space Administration.

Another making an early debut in the park was the Army Corporal, the tall, slim ballistic missile which preceded the Sergeant. Standing 45 feet tall, Corporal had a range of approximately 75 miles compared to some 400 miles for the Pershing. Corporal followed a ballistic trajectory and had a propulsion system that utilized a liquid propellant rocket motor.

In addition to missile history, the WSMR Park-museum serves as a monument to missile progress. During late 1966 and early 1967, four of the United States' newest missile systems were added to the collection. These were the Army's long range Pershing, the Air Force Athena and Navy's Tartar and Terrier fleet-air-defense missile.

The two-stage Pershing was first tested at WSMR in August 1963. Today operational in the Western World, the highly mobile Pershing is test fired from sites in southeastern Utah and impacts on the White Sands range some 400 miles away.

The Air Force Athena is one of the most dramatic missiles in the park. Named for the Greek goddess, Athena is a research vehicle to study atmospheric reentry phenomena and not a weapon.

During the 1960s the 50 foot tall Athenas were launched in Green River, Utah, and impacted on the WSMR range. On reentry to earth's atmosphere over White Sands after its 400 mile flight, Athena puts on a spectacular show that is visible hundreds of miles. The first Athena was launched in 1964.

The Navy Tartar and Terrier took their places with the Talos in the southwest corner of the park in February 1967. Developed at WSMR by the Naval Ordnance Missile Test Facility (NOMTF), the sister missiles have been combined to form the Navy's long and

medium range Standard missiles. Terrier, a two-stage system weighs approximately 3,000 pounds and has a 15-mile range. The single-stage Tartar has a 10-mile range.

Claiming the title of the largest missile in the museum is the Army's Redstone which towers above all its cohorts. The 30-ton, 69-foot Redstone was replaced by the Sergeant and Pershing which are more mobile and adaptable as tactical weapons.

However, Redstone is still fired in Australia. The liquid-fueled missile is a sister model of the propulsion vehicle that carried Commander Sheppard, U.S. Astronaut, on America's first manned space flight.

The Missile Park's smallest missile, although not the smallest in existence, is the Loki which is still used for research,

usually in combination with other missiles. The Loki frame measures 103 inches long and three inches in diameter and it weighs approximately 24 pounds.

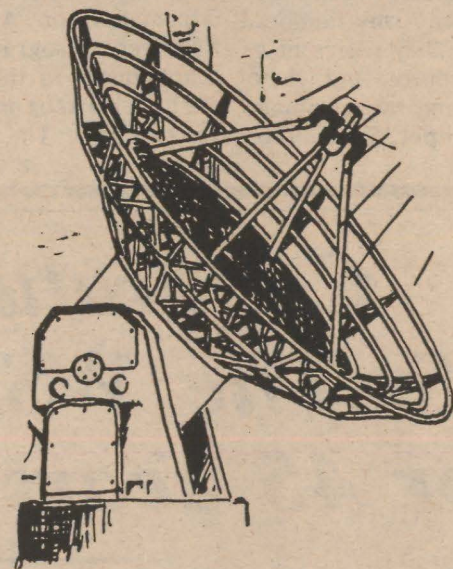
Also displayed in Missile Park is a bronze memorial plaque commemorating the visit of the late President John F. Kennedy to the National missile range in June 1963.

The missile museum is open daily with limited parking allowed around the perimeter of the park, except on Headquarters Avenue. Restrooms and drinking fountains are located in the Headquarters building directly across Headquarters Avenue from the park. Plans are now under way to expand the park northward toward the Las Cruces gate.

## Congratulations

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On Your 45th Anniversary!

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# Volunteers vital to the Armed Forces community

*Editor's Note: This is one article in a series of articles highlighting specific Army Community Service programs as a part of the organization's overall 25th Anniversary celebration.*

\*\*\*

The Army Community Service (ACS) volunteer corps has been providing support to the soldiers and families for over 25 years.

Bob Ray, Volunteer Program manager with the Community and Family Support Center, said that, "Volunteerism is a tradition within the military community. Our volunteers play a particularly important role within the armed forces community because of the unique difficulties military families experience, such as those related to the absence of a military spouse or parent because of military duties or the feeling of isolation due to overseas assignments or assignments far from home."

"Many of ACS's family support programs and services would be impossible to provide at the current level of quality and quantity of services without the dedicated support of volunteers," Ray added.

"These men and women have willingly given millions of hours over the years to enhance the morale and welfare of soldiers and family members around the world, wherever Army families are stationed. They represent a significant resource and they improve planning by providing program user input, capacity to

mobilize community support for new programs ideas, expand the efforts of military and civilian staff, and extend capabilities in delivering family support services."

While the spirit of volunteerism is alive today, Ray says it is competing with a host of other interests of the potential volunteer -- the desire for paid employment, the desire to pursue educational or recreational interests, family responsibilities, etc. He said all of these competing needs must be addressed to ensure that the Army's volunteer spirit remains vibrant and as significant a force in military communities as it has been.

Ray said that the 1987 Research Report 1456, The Origins of Volunteer Support for Army Family Programs, stated, "Whether The Army Community Service will continue to manifest the Army's tradition of 'taking care of its own' -- first seen on the American frontier -- depends, in large part, upon whether the Army can continue to recruit, train and inspire volunteers." This, according to Ray, highlights the importance of the volunteer to the ACS family support programs.

"All research highlights that people volunteer for many different reasons," Ray said. He observed that a recent release of information on Army Family Research Program, Spouse Employment in the Army, included information on volunteering. The report was

developed from information gathered in the 1987 Annual Survey of Army Families. Ray said the survey validated that military spouses, like their civilian counterparts, volunteer for a variety of reasons. These reasons included: to contribute to the community; to meet people; to support activities used by their children, to have a sense of achievement; to gain experience for future jobs; and to get out of the house.

"Volunteering also meets some important needs for new Army spouses," Ray said. "It provides them an opportunity to learn about Army life, to become a part of the Army community and to have others to share and do things with. Additionally, their volunteer experience can later be used to help qualify them for paid employment or increases in volunteer responsibility. Office of Personnel Management (OPM) guidelines direct that all volunteer experience be evaluated the same way paid experience is evaluated when qualifying an individual for federal employment."

Ray added that volunteers are a viable part of family support program or activity staffing. Family support programs are designed with the philosophy of integrating both paid and non-paid staff. In addition to being an "extra pair of hands" for work, a volunteer brings much to the agency including:

- An extra degree of credibility which comes from client perceptions of sincerity when

non-paid staff provides services;

- Freedom to critique or evaluate programs without the real or perceived constraints on paid staff;

- Direct access to the community as a two-way channel of communication;

- A needs assessment vehicle bringing information from the community to ACS;

- A source of public relations taking information back into the community;

- Diversity of knowledge and skills which can keep "new blood" flowing through the programs.

ACS is celebrating its 25th Anniversary of support to commanders, soldiers and families. The organization was established in 1965 to assist commanders in reducing conflict between a soldier's family responsibilities and duty requirements.

The initial support was in the

## Cub Scouts, leaders attend day camp

Nine Cub Scouts and four adult leaders from WSMR Pack 79 had a great time at Cub Scout Daycamp in Las Cruces during June 18-22.

Chris Williams, Leonard Calix, Austin Busbey, Vincent Faggioli, Garrett Harlan, Jonathan Kowalczyk, Alex Reyes, Jonathan DeArmond and Michael Pena were not deterred by record temperatures from fun and lots of achievements.

They earned several awards in safety, story telling, carving, woodworking, knot tying,

areas of Information and Referral and Relocation Services. Over the years, the program has evolved and developed into the social service network Army-wide to implement soldier and family support system. Today, services are available at 166 ACS centers Army-wide.

"Volunteers have been and remain a major resource in our programs. When we nurture, develop, and support them we receive very tangible benefits from their voluntary efforts."

This has been and hopefully will continue to be a major support program for Army Programs. They are, indeed, a priceless resource for Army Community Service programs," Ray concluded.

For more information about this and other ACS programs and services, contact your Army Community Service Center, Bldg. 250, 678-5156.

boating, swimming, fitness, science, drama and citizenship.

Each day was a full day starting at the Youth Center at 7:30 a.m. for the van ride into town and returning at 4:30 p.m. As with all Cubscout activities it was fun with a purpose.

Charles Busbey, Frances Busbey, Karen Faggioli, and Liz Williams deserve special recognition as adult leaders who made this event possible.

They attended training prior to the week of activities and assisted in training the boys while in camp.

## Congratulations To The WSMR Staff For 45 Years of Service



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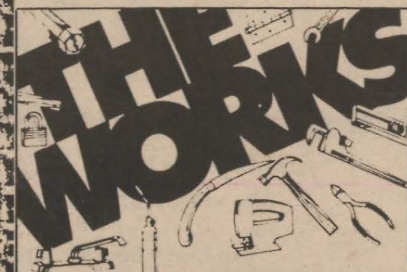
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White Sands  
Missile Range  
On Their  
45th Anniversary



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**HARDWARE**  
MON SAT 7:30 TO 6:00

"Try Johnston's First!"  
"Serving the Mesilla Valley since 1936"



## Military teams in shotgun event

A military clay target competition has started with one five man team each from WSMR, Fort Bliss and Holloman.

Each shooter is required to shoot 100 regular targets and 25 pair of doubles.

This is a 12 gauge shotgun event.

The teams will be competing for a travel trophy and individual team trophies.

The next scheduled shoot will be on July 14 at 8:30 a.m. at the WSMR Skeet and Trap Range.

For further information, call Outdoor Recreation at 678-1713.

## Saturday night laser shows set

Every Saturday night at 8:45 during July the Clyde W. Tombaugh Space Theater will rock out to the sounds of Billy Idol at the weekly Rock Laser Concert.

Songs featured will include "White Wedding," "Mony, Mony," "Hot in the City," "Dancing with Myself," "Flesh for Fantasy," "To Be a Lover," "Love Calling," and "Catch My Fall" throughout the month.

A special pizza party will be held before the concert on Saturday, July 7 beginning at 8:15 p.m. courtesy of Pizza Hut and Pepsi-Cola Bottling Company.

The Rock Laser concert is held every Saturday at 8:45 p.m. and features the sounds of a different rock artist or group every month.

Admission to the concert is \$3.50 per person.

The Space Center is a division of the New Mexico Office of Cultural Affairs.

For more information call in-state 437-2840 or 1-800-634-6438.



HEADQUARTERS  
U. S. ARMY TEST AND EVALUATION COMMAND  
OFFICE OF THE COMMANDING GENERAL

7 June 1990

Dear General Jones:

It is with a great deal of pleasure that I wish you and the members of your command a very happy birthday on 9 July 1990.

For 45 years, the White Sands Missile Range has been an essential element of the Army's test and evaluation program. Its accomplishments are recognized throughout the world.

Your work force, military and civilian, can be very proud of its many achievements. On behalf of the men and women of the U.S. Army Test and Evaluation Command, please extend my best wishes to the WSMR family as they enter their 46th year.

Sincerely,

George H. Akin  
Major General, U.S. Army

Major General Thomas J.P. Jones  
Commander  
U.S. Army White Sands Missile Range  
White Sands Missile Range, New Mexico 88002-5031

### Non-appropriated fund vacancies listed

The following listings include announcements for current NAF (non-appropriated fund) vacancies, open continuous announcements which are used to fill future vacancies, and current vacancies for NAF positions located overseas or in other areas of the US.

Information and applications on current local vacancies as well as open-continuous announcements may be obtained at Room 218, Building 124, on Tuesday and Friday between the hours of 7:45 a.m. to 4 p.m. and on Wednesday, from 7:45 to 11:45 a.m.

Information on overseas or US vacancies can be found on the Bulletin Board at the West entrance to Building 124.

TITLE OF POSITION (ANNO #)	GRADE	SALARY	LOCATION	TOUR OF DUTY OR CLOSING DATE
OPEN CONTINUOUS ANNOUNCEMENTS				
EDUC AID (CHILD DEV) (90-1 OC)	CC-2,3,4	\$5.70-6.94 ph	CDS	Usually IOC
BARTENDER (2-89 OC)	NA-3	\$4.28 ph	Clubs	1-Sch
FOOD SERV WKR (3-89 OC)	NA-3	\$4.28 ph	Bowling Cent	IOC
CUSTODIAL WKR (Trainee-4-89 OC)	NA-1	\$3.80 ph	Billeting	IOC
WAITER/FOOD SERV WKR (Trne-5-89 OC)	NA-1	\$3.80 ph	Clubs	IOC

NOTE: SHORT OF APPLICANTS FOR WAITER/FOOD SERVICE WORKER (Trainee), NA-1. EXPERIENCED WAITERS WILL BE CONSIDERED FOR NA-2, \$3.99 PH.

Tour of Duty Notes: IOC = Intermittent On Call - Work may be partially scheduled and typically includes 16 to 19 hours per week. 1-SCH = Intermittent Scheduled - Work is scheduled, up to 19 hours per week. Some appointments may be Part or Full Time - depends on vacancy being filled. PT = 20 to 34 hours per week. FT = 40 hours per week.

CURRENT WSMR VACANCIES				
ADMIN SERVICES CLERK	AS-4	\$4.93 PH	Billeting (FT)	July 11
OVERSEAS VACANCIES				
MARKETING SPEC	UA-7	\$20,195 pa	Heilbrun, Ger	July 13
MGT ASST (MANPOWER)	UA-7	\$20,195 pa	Neu Ulm, Ger	July 27
HOUSING MANAGER	UA-9	\$24,705 pa	Mons, Belgium	July 27

These jobs may be enticing to CSC retirees since a NAF appointment has no effect on CSC retirement. All applicants for overseas positions must be U.S. Citizens. Applications must be received by O/S addressee on or before closing date.

# CLASSIFIED

## Legal Notice

## Legal Notice

### LEGAL NOTICE

#### NOTICE TO ALL NEW MEXICO BRAND OWNERS:

Under the authority of the statutes of the State of New Mexico and by resolution of the New Mexico Livestock Board, all brands of cattle, horses, sheep and goats on record in the offices of the New Mexico Livestock Board must be renewed prior to October 1, 1990. Re-recording will begin July 1, 1990.

The brand renewal notices will be mailed to all current brand owners. The renewal fee of \$40.00 per brand must accompany the renewal form and be returned in the pre-addressed envelope provided for your convenience.

The Livestock Board must be notified of any change of address since the last re-recording or recording of brands. Be sure to keep your address current.

If you do not receive your renewal notice by July 15, 1990, please notify this office. Phone: 505-841-4000.

JOHN F. WORTMAN, JR., DIRECTOR  
New Mexico Livestock Board  
7013 Central, NE  
Albuquerque, NM 87108-2049  
(4tb27)

## Carpools

## Carpools



Commuters needed for vanpool, N/S, A/C, regular tour 7:45 a.m. to 4:15 p.m. Montgomery Wards area and Albertson's North main. Call Art Ortiz, 526-4303.

Need 5 riders; Eastside, compressed week vanpool, N/S, A/C. Call Ruben Hernandez, 678-1147/49.

Driver/rider needed for NS/AC carpool from LC Elks Club area to Bldg. 124. 7:15 to 4:45. Call Tom at 678-5417.

Carpool members needed. LC Elk's Club area to WSMR. 7:45-4:15 shift. Erick 678-1683/4709.

Need 1 person for N/S, A/C carpool. Compressed schedule from K-Mart to vicinity of Bldg. 100. Dennis 678-4609.

Compressed schedule carpool has opening for rider/driver. From Las Cruces to vicinity of Bldg. 100. Call Lester, 678-1550.

## Wanted

Slot machines-I pay top dollar for Antique Slot Machines and other antique gambling equipment. Call Doug, 505/345-2521. You'll be surprised at what I pay. (1tp)

## Help Wanted

ATTENTION: POSTAL JOBS! Start \$11.41/hour! For application info call (1) 602-838-8885, Ext. M-4773, 6 a.m.-10 p.m., 7 days. (3tp29)

Earn \$340 weekly doing easy work at home. Send self-addressed stamped envelope to Practical Concepts, P.O. Box 3952, Albuquerque, NM, 87190. (4tp30)

How to make \$500 a week typing at home. Amazing recorded message reveals details. Call today 764-0656. (1tp)

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## Help Wanted

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ATTENTION: GOVERNMENT JOBS—YOUR AREA! \$17,840-\$69,485. Call (1) 602-838-8885, Ext. R-4773. (3tp29)

ATTENTION: POSTAL JOBS! Start \$11.41/hour! For application info call (1) 602-838-8885, Ext. M-4773, 6 a.m.-10 p.m., 7 days. (3tp28)

ATTENTION—HIRING! Government jobs-your area. Many immediate openings without waiting list or test. \$17,840-\$69,485. Call 1-602-838-8885. EXT R4773. (3tp27)

Truck drivers shape your own future. At J.B. Hunt, hard work and self satisfaction can result in top pay and benefits. The future is yours, call 1-800/643-3331. JB Hunt EOE/Drug Screen. (1tp)

POSTAL JOBS \$18,392-\$67,125/yr. Now hiring. Call (1) 805-687-6000 EXT. P-4778 for current list. (4tp28)

## Notices

Adventure at home! Host a foreign high school student. Fully insured/own spending money. Share your America, make a friend for life! Call EF Foundation, 1-800/447-4273. (1tp)

A wonderful family experience. Australian, European, Scandinavian, Yugoslavian high school exchange students arriving in August. Become a host family. American Intercultural Student Exchange. Call 1-800/SIBLING. (1tp)

For names and numbers of quality singles, call the National Singles Club, the most exclusive singles organization in America 1-900/820-3111, 24 hours. \$3/min. (1tp)

## Business Opportunity

WOLFF tanning beds, commercial home units from \$199 Lamps, lotions, accessories. Monthly payments low as \$18. Call today. FREE color catalog 1-800/228-6292. (1tp)

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**POWER OF THE MIND**  
Let the new Age Therapy help you make changes in your life: weight loss, stop smoking, stress, pain, study habits and more.  
(Ask about our different classes.)  
Call Mike & Donna Furry  
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522-0400 522-7300  
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No Contracts!!! Pay by class or monthly.

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Dino Villani, Attorney  
Office visits \$15  
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Open Saturdays, 1/2 down to begin.  
Phone inquiries welcome.  
(10tp32)

I am a licensed FCC Provider who would like to give your child a "Home away from Home." Loving, non-smoking environment, hot meals snacks, fenced in yard, ABC's, good music, games. Ages 4 weeks to Kindergarten. Call Elsbeth, 678-8095. (1tp)

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Las Cruces (ufn)

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"Call the experienced experts"  
1025 S. Solano 526-8161

Major Appliance Repair Service for WSMR Residents:  
• Discount Prices.  
• Same day Service.  
• 30-day guarantee on parts and service.  
Service calls are made evenings, weekends, holidays.  
Call Jeff, 678-4944. (ufnb)

## Services

**CONSUMER LOANS**—Sunwest Bank of Las Cruces makes loans for any good reason to qualified applicants with good credit. Call Russ, 526-4481 for info. Member, FDIC. (ufnb)

**NEW SERVICE**  
Ship UPS packages at:  
Las Cruces Safe & Lock Co.  
1906 S. Espina  
526-3771  
(Hrs. 10 a.m.-6 p.m., M-F) (ufn)

## Vehicles

ATTENTION  
For repossessed vehicles and mobile homes call Mary Sedillo, White Sands Federal Credit Union, 524-3663. 100% financing on approved credit.

**VEHICLE FINANCING**—Sunwest Bank of Las Cruces finances new and used cars and trucks. Reasonable rates, flexible terms. Call Russ at 526-4481. Member, FDIC. (ufnb)

1982 Corvette, auto, air, loaded. 60,000 miles. Call 522-6380 or 524-0080. Leave message. (1tp)

FOR SALE—1987 Oldsmobile Delta 88 Royal Braugham. Loaded. \$10,400. Ph. 382-5465. (3tp29)

## Yard Sales

**BIGGEST YARD SALE IN TOWN**  
NMSU Family Housing Annual Park Sale. Saturday, July 7 from 7 to 11 a.m. at Preciado Park, located on NMSU Campus. See the Clowns and much More! (2tp27)

## Books

**DAVE'S PAPERBACK BOOK EXCHANGE**  
Large Selection Of Paperbacks  
75,000 comics in stock  
New—Used—Collector's  
We also carry  
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1105 N. Main Mon-Sat 10-6  
525-0277 Sun 1-5 (ufn)

## Flea Market

**BIG DADDY'S MARKET PLACE**  
Largest Flea Market in Southern N.M. and West Texas  
OPEN SAT. & SUN.  
7320 N. Main (Hwy 70 E.)  
526-3073  
382-9404 (4tp30)

To Advertise In The 'Ranger Call 526-4851

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If you are adding a room to your home this summer, I have four 4x4, 12 pane windows for sale. Make me an offer. Call 526-8408 or see at 2410 S. Espina, LC. (2tp28)

**THE PEPPERMINT BARN**  
New and Used Furniture  
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Best Prices  
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(505) 526-5405 (ufn)

**Baseball Card Show**  
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Coins, comics, football cards, basketball cards, sports memorabilia.  
9 a.m.-6 p.m.  
Admission: .50 cents  
Kids FREE (under 12)  
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Info call 523-4860 (1tp)

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(ufn)

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**NEW & USED NECESSITIES**  
We buy & sell clean used furniture, appliances, household & baby items.  
1012 W. Picacho  
523-7331  
Las Cruces (ufnb)

**MUST SELL!** Loveseat and couch like new, \$500; beautiful dinnette (4 chairs), \$250; desk, \$50; entertainment center, \$250; misc items. Call 772-4911/678-6745. (1tp)

**APPLE IIGS** computer, 1.768K RAM, 3.5" and 5.25" disk drives, RGB monitor, Image Writer II printer, joystick, modem, manuals, \$1000 of software, \$1,700 OBO. Call 678-1579, after 5 p.m. (1tp)

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PARK-LIKE ATMOSPHERE  
• 1, 2 & 3 Bedrooms  
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• Large efficiency  
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1755 Telshor • 522-0804 (ufnb)

# CLASSIFIED

Classified ad rates for WSMR military and civilian personnel and retired military are \$3.00 for the first 25 words (or less), .10 cents for each additional words or fraction thereof. There is no charge for carpool ads of 10 words or less. Add \$1.00 for boxed ads. Bold print (optional) is an additional \$1.00.

Ads may be submitted on the form below to the drop box located in the Public Affairs Office (Bldg. 122) or mailed to the Missile Ranger Newspaper, P.O. Box 51, Las Cruces, NM 88004. Additional forms are available at the PA Office.

**NEW DEADLINE—3:30 p.m. Monday**

--Payment must be received in order for publication to occur--  
Classification: \_\_\_\_\_ Total Number of Words: \_\_\_\_\_

Ads are classified under one of the following: Vehicles, Motorcycles, Carpools, Pets, Real Estate, For Rent, For Sale, Wanted, Help Wanted, Personal, Birthdays, Notices, Legal Notices, Business Opportunities and Miscellaneous. Please do not include items falling into more than one of these classifications in the same ad.

In using this service, the advertiser certifies that he or she is a WSMR employee or retired military person and he or she is not acting as a representative of another individual or a commercial business.

Regular commercial rates are \$3.50 for the first 25 words, .10 cents per word thereafter. Boxed ads, add \$1.00. Bold Print (optional) add \$1.00. Deadline and prepayment requirement remains the same as above.

Display advertising rates available upon request.

## Apartments For Rent

## Apartments For Rent

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- Also enjoy...
- Sand Volleyball Court • Outdoor Pool
  - Sundeck • Gas BBQ's
  - Recreation Lounge • Laundry Facilities
  - Onsite Security
  - Excellent Outdoor Lighting
  - Model Available • Walk to NMSU
  - Close to Shopping

**REduced DEPOSIT!**  
Three-Month Summer Special Starting  
**MAY 15 THROUGH AUGUST 15.**  
**\$333 PER MONTH, ALL UTILITIES PAID.**

One bedroom apartments, month to month leases available.

**OPEN WEEKENDS**      **OPEN 9-6 MONDAY-FRIDAY**

2049 Triviz Dr. **522-OMNI** Las Cruces, NM (ufnb)

**T.D.Y. Alamogordo**  
Give Us A Try  
Nueces Apts 1-2 BR furnished, maids, linens, dishes, TV, phone, daily rates. Sorry no pets. 437-2132/437-7565. Diner's Club Card Welcome! (ufnb)

**MADRID APARTMENTS**  
1500 East Madrid  
523-7123  
All units 2 bedroom, 1 bath  
\$300 month  
Unfurnished, water paid.  
\$355 month  
Unfurnished, utilities paid.  
\$345 month  
Furnished, water paid. (ufn)

**COLONY GARDEN APARTMENTS**  
Attractive & affordable  
Large 1, 2 & 3 bedrooms w/storage  
Gas heat paid  
**ASK ABOUT WSMR DISCOUNT!**  
2250 East Missouri, Las Cruces  
PHONE: 522-0888  
(ufnb)

## Mobile Homes

**MOVING NEED TO SELL**, 1985 Remington 14x70, 2 bedroom, 2 bath, cathedral ceiling, central heating and cooling, ceiling fan, on 1/4 acre rented lot w/fenced yard. Can be moved. \$1,500 down and take over payments. Call anytime, 525-8411. (1tp)

FHA foreclosure liquidation 2, 3, 4 bedrooms, 0 down to qualified buyers. Delivery and set up included. Call for details-Hurry 1-800/752-0586. DL469 Nationwide. (1tp)

**FOR RENT IN ORGAN**  
Two & 3 bedroom mobile homes for rent, furnished or unfurnished. \$200 to \$350 per month plus deposit. Located near WSMR & NASA. Please call 382-5423 or 382-5442. (ufnb)

New doublewide starting at \$18,800. 5 bedroom, 3 bath also available under \$400/month. Lowest prices in the state! Rex's Factory Outlet 1-800/333-7397, DL# 00513. (1tp)

FHA foreclosures-repo: Singlewides under \$150/m, doublewides under \$225/m. Call 1-800/227-7636 DL516. (1tp)

## For Rent

Double wide, 2 bdrm, 2 baths, cooler, carpeted, many extras, near WSMR and Johnson's Space Center, \$420/mo., 382-9418. (2tp27)

Three bdrm, 1 1/4 baths, cooler, carpeted, very nice, near WSMR and Johnson's Space Center, \$480/mo., 382-9418. (2tp27)

## House For Sale

## House For Sale

**IN PICACHO HILLS**  
For sale by owner. Built 2 years ago in Santa Fe style, 3 bedrooms, 2 full baths, vaulted ceilings, fireplace, magnificent view of valley, very low maintenance landscape, 1930 sq. ft. plus 2-car garage, borders 9th fairway. Call for appointment, 524-2966, office, 527-2333 evenings. (3tp29)

**It PAYS to advertise in the Missile Ranger!**  
**526-4851 — Las Cruces**



**Two For The Money**  
Comfortable 3 bedroom, 2 1/2 bath, hardwood floors throughout. Detached studio apartment ready for mother-in-law or small business, workshop or game room. Priced below appraisal. Owners moving to Philippines. Motivated to sell. \$69,000. North Alameda area of Las Cruces. Call Paul Douville 523-4754. (ufn)

**APARTMENT RENTERS!** Homes from \$1 (U-Repair). Gov't. giveaways, bank repos, foreclosures, tax delinquent properties. Call today. 1-918-622-5652, Ext. R1343, including Sat. and Sun. (2tp27)

**FOR SALE BY OWNER**-New home, 1045 Camino Del Rex. \$79,900 well below appraisal, 1650 sq. ft. 3 bedroom, 2 full baths, 2x6 frame with slump block construction. Extra insulation for lower utility bills. Easy access to Highway 70, close to shopping and medical center. HOW 10-Year Warranty. Open 2-4 p.m., Sunday or call for appointment 524-3832. (2tp27)

## Land For Sale

- |                      |              |
|----------------------|--------------|
| ORGAN MTS.           | 78-490 AC    |
| NORTH VALLEY LOTS    | 2 AC         |
| WEST MESA LOTS       | 3/4 AC       |
| PICACHO INDUSTRY     | 5-10 AC      |
| FAIRACRES FARM       | 12.9 AC      |
| WEST MESA NORTH      | 30 AC        |
| HWY 70 COMMERCIAL    | 5.8 AC       |
| A-MOUNTAIN HOME LOTS |              |
| EASTERN HILLS LOTS   | 1.3-2.7 AC   |
| FAIRACRE MOBILE LOTS | 2 AC         |
| RADIUM SPRINGS       | 15-95 AC     |
| ANTHONY MESA         | 1-10 AC      |
| HATCH                | 80 AC        |
| OWNER                | KEN 525-2322 |
| LAS CRUCES           | (4tb30)      |

## 6854 Moongate Ranchstyle Farmette

2.4 acres, 1620 sq. foot home, 2 sheds, workshop plus much more. \$59,990. 2 miles North on Moongate to Water Co-op sign, turn right to entrance.  
**Call: Jaqui Blake**  
**ERA Advantage Associates**  
**525-2121 or Res. 521-3298**  
(1tp)

**Keep In Step with a Missile Ranger classified ad**



## Real Estate

**Carrizozo:** Only 16 miles from Oscura gate on U.S. Highway 54. Land and homes for sale. Usually, price and terms are reasonable and negotiable. Call Woody Schlegel, Broker. Plains Realty, Carrizozo, N.M., Ph. 505-648-2472. (8tp30)

**MINI-ESTATE.** Huge lot, house, two 300+ SF bldgs w/electric (one w/water), 1250+ SF fenced garden, lots of lawn left for those lazy summer evenings on the patio. House has 3BR, 2Bths, study/den, solid oak cabinets w/Coriam counters, brick veneer/aluminum siding, wrought-iron security. All major appliances stay. HAA warranty. \$54,900.

**ENTERTAINING OR LEISURE.** This house has it. Three BR, 1.75Bths, huge live-in room w/wet bar and fireplace, formal dining or living room. Two-car finished garage w/beautiful stained woodcabinets galore. Large covered patio-perfect for entertaining, lovely back lawn, storage shed, Flagstone front landscaped, extra-long RV pad. All this and brick veneer/aluminum siding, water softener. \$72,500.

**COME HOME TO THE PEACE OF THE MOUNTAIN.** This 2-story, 2030SF mountain retreat has 4BR (including master suite), 2.75Bths, 2 fireplaces, large laundry room, RV pad w/electric and water, extra parking, and a lovely view of El Paso from its deck. HAA warranty. **BEST BUY IN MOUNTAIN PARK.**  
**CALL SALLIE STOUT**  
Century 21, Haggerty

Office: 757-3445

## Real Estate

**GREAT HOME FOR FIRST TIME HOME BUYER:** 3 BR, 1 1/4 baths with large living room, country kit., lots of cabinets. Nice carpeting, separate utility room, large backyard. \$54,000.

**HOLMAN ROAD ACREAGE:** frontage on road with elec. and water at boundary on west 4.8530 acres. ETZ ZONED 1 acre minimum for mobile homes or site built. \$33,485.70.

**ROOM FOR KIDS, PETS, HORSES** or other livestock. 5.97 acres with 5 stall barn and tackroom, several fenced corrals, 6 rock and pipe stalls, irrigation rights. Large 3 BR, 2 bath mobile home. Assumable financing. Priced reduced to \$59,900.

**HANDYMAN SPECIAL:** Over 1100 sq. ft. 3 BR, 1 bath home on .39 acres in valley just outside of Las Cruces. Carport, storage room, separate metal stge bldg. Fenced back and front yards, fruit trees and roses. \$44,000.

**PRICE REDUCED ON THIS LOVELY** 3 Br, 2 bath townhome with double garage. There's owner financing. Beautiful retirement home. Has large interior courtyard, plus backyard. Now \$76,500.

**SMALL BUT NICE AND ROOM** for expansion on the extra large lot. 2 Br, 1 bath with single garage. Home is immaculate. Quiet dead end street and lots of privacy. \$45,500.

**VALLEY ACREAGE** north of Las Cruces with gorgeous views. 2 acre tract, would consider subdividing. Irrigation rights. \$29,000.

**ALL ADOBE HOME** on .50 acre north on Elks Rd. 3 BR, 1 1/4 baths, large country kit., formal dining, sunken living room with fireplace. Double garage, separate large workshop, property all fenced with rock fencing. \$78,500.

**INVESTMENT LAND ON MOR-MAN DRIVE:** owner financing on this 1.25 acre tract zoned R-3. \$160,000.

**MONARCH REAL ESTATE CORP.**  
522-8222  
Eve/Weekends Gerry Sells 522-1856. (2tb27)

Live Where YOU Want To Live...We have the very home for YOU with a price that makes it even more appealing. Put YOUR VA benefits to work now. For more information call Paul or Suzanne Hassing, ERA AADVANTAGE ASSOCIATES.  
OFFICE-525-2121 HOME-522-2455 (2tp28)

**MINI-ESTATE.** Huge lot, house, two 300+ SF bldgs w/electric (one w/water), 1250+ SF fenced garden, lots of lawn left for those lazy summer evenings on the patio. House has 3BR, 2Bths, study/den, solid oak cabinets w/Coriam counters, brick veneer/aluminum siding, wrought-iron security. All major appliances stay. HAA warranty. \$54,900.

**ENTERTAINING OR LEISURE.** This house has it. Three BR, 1.75Bths, huge live-in room w/wet bar and fireplace, formal dining or living room. Two-car finished garage w/beautiful stained woodcabinets galore. Large covered patio-perfect for entertaining, lovely back lawn, storage shed, Flagstone front landscaped, extra-long RV pad. All this and brick veneer/aluminum siding, water softener. \$72,500.

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**CALL SALLIE STOUT**  
Century 21, Haggerty

Office: 757-3445

Home: 751-5683 (4tp30)

WAYNE MARTIN'S

# VISION

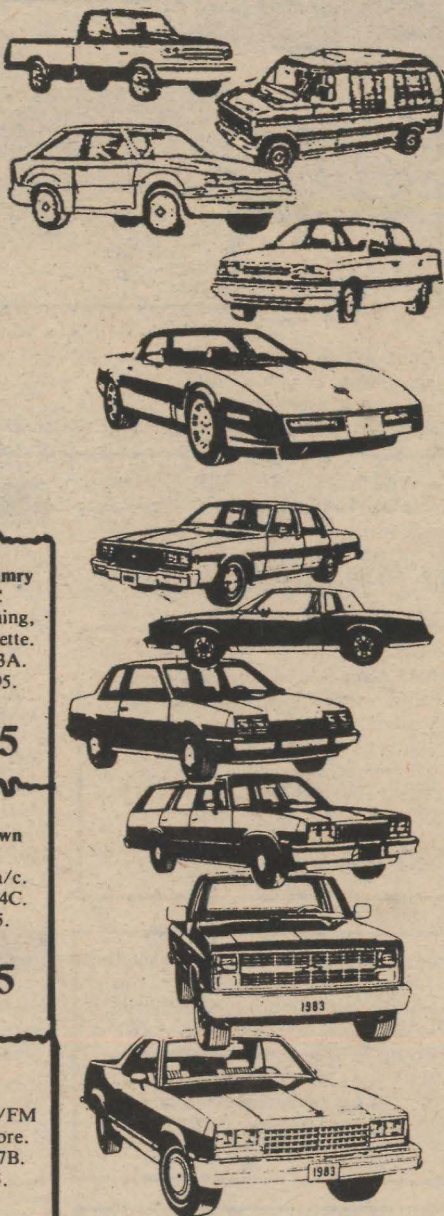
FORD • LINCOLN • MERCURY

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(505)434-4800

**Hurry  
In!**

## Happy 45th Anniversary!

*Vision Ford Is Pleased  
To Be A Part Of Your  
45th Anniversary  
Celebration At WSMR  
And We Wish You  
Many More!*



**YES  
WE  
CAN!**

'89 Nissan Stanza  
6XE  
Fully loaded!  
Stock# 30070A.  
End Of Month  
Special

**\$9,495**

'89 GMC C1500  
4X4  
Z71 off road  
package, a/c.  
Stock# 60145A.  
Was \$14,895  
Now

**\$13,995**

'89 Mercury Topaz  
GL  
Automatic, a/c,  
AM/FM cassette.  
Stock# 70007B.  
Was \$8,995.  
Now

**\$7,495**

'88 Toyota Camry  
AU-TRAC  
Air conditioning,  
AM/FM cassette.  
Stock# 60023A.  
Was \$10,595.  
Now

**\$9,495**

'87 Honda Civic  
Wagon  
Air conditioning,  
AM/FM cassette.  
Nice Car!  
Stock # 60085A.  
Was \$6,495.  
Now

**\$4,995**

'86 Subaru GL  
Sedan  
Air conditioning,  
AM/FM.  
Stock # 60138C.  
Was \$4,995.  
Now

**\$3,495**

'86 GMC C1500  
Automatic, air  
conditioning,  
AM/FM cassette.  
Stock # 30084.  
Was \$7,895.  
Now

**\$6,995**

'86 Ford Crown  
Victoria  
Automatic, a/c.  
Stock # 61004C.  
Was \$8,495.  
Now

**\$7,495**

'88 Plymouth  
Voyager Stretch  
Version  
Air conditioning,  
automatic,  
Stock # 30078.  
Was \$12,395.  
Now

**\$10,495**

'88 Dodge D150  
Power Ram  
4X4, custom  
wheels, AM/FM.  
Stock # 60148A.  
Was \$11,995.  
Now

**\$8,995**

'88 Ford Escort  
Automatic, air  
conditioning,  
AM/FM cassette.  
Stock # 60094B.  
Was \$5,495.  
Now

**\$3,995**

'87 Nissan  
Hard Body  
4X4, a/c, AM/FM  
cassette, & more.  
Stock # 70087B.  
Was \$8,995.  
Now

**\$7,995**

'87 Mercury  
Cougar LS  
Fully loaded.  
LOW MILES!  
Was \$9,995.  
Now

**\$8,995**

'84 Ford Mustang  
Convertible  
Red and white,  
automatic, a/c.  
Stock # 70142A.  
Was \$5,495.  
Now

**\$4,495**

'85 Ford Econoline  
Conversion Van  
Dual, a/c,  
automatic,  
AM/FM cassette,  
captain chairs.  
Stock # 30092.  
Was \$10,995.  
Now

**\$9,995**

'81 Chevy C10  
Six cylinder,  
3 speed, a/c,  
AM/FM cassette.  
48,000 MILES!  
Stock # 300835.  
Was \$4,995  
Now

**\$3,495**

1500 S. White Sands Blvd. • Alamogordo, NM

**(505) 434-4800**

## Before 1945 Las Cruces was sleepy desert hamlet

At one time Dona Ana County, which contains Las Cruces as the county seat and Old Mesilla, extended from the Colorado River to include most of the Arizona Territory and eastward to include most of what is today Otero County.

Today, Dona Ana County's only river is the Rio Grande which is quite tame due to water control by the Caballo and Elephant Butte Reservoirs. Dams across the Rio Grande hold the water in reserve for irrigation of farms along the Mesilla Valley and past El Paso and for use by Mexico. Very little water from this area ever reaches the Gulf of Mexico.

In the past, before the dam was built, the mighty Rio Grande in places was as much as a mile and a half wide. The site of the historical river today is a disappointing sight to most tourists.

WSMR headquarters is in Dona Ana County. Prior to the establishment of the missile range in 1945, Las Cruces was little more than a sleepy desert hamlet. Today it is a bustling city of more than 100,000 population, a farming and transportation center.

Situated in the heart of the fertile Mesilla Valley, Las Cruces is a blend of Indian, Spanish and Anglo traditions, history and culture which lends a sophistication to its historical background.

Otero County, carved chiefly from the original Dona Ana County, lies some 10 miles east of WSMR headquarters with its boundary line running north-south and enclosing much of the Tularosa Valley.

The Tularosa Valley and Jornada del Muerto which have a mean altitude of 4,000 feet above sea level are separated by the Organ and San Andres Ranges.

The verdant Mesilla Valley in the Las Cruces-Mesilla area is several hundred feet lower in

elevation and, with the aid of irrigation, is noted for its cotton which compares favorably with Egyptian cotton.

Cotton ginning is one of the major industries of the area. Also in the Mesilla Valley south of Las Cruces is one of the world's largest pecan groves, Stahmann Farms, Inc. The modern Stahmann Farms raises geese to protect the pecan orchard from weeds and insects.

At the same time, the feathers are sold for bedding while the pecans are marketed in the shells or shelled with the shells marketed for commercial use. The Mesilla Valley is known for its chile, sugar beet, tomato and other truck farming.

The United States Department of Agriculture maintains an experimental range station in the Jornada del Muerto with headquarters about 23 miles from Las Cruces. The Department of Interior maintains the San Andres Wildlife Refuge in the San Andres north of the historical old mining town of Organ on the west slopes of the Organ Mountains.

As part of the Department of Game and Fish program, an exotic game experiment is underway in which non-native animals are transplanted to the refuge. The most recent transplant was Oryx (gemsbok), African antelope. Some two dozen of these animals were put in the refuge in 1969.

In 1849, five years before the Gadsden Purchase extended the U.S. boundary across the Rio Grande to include the Mesilla Valley, Capt. R.B. Marcy, U.S. Army led an expedition from San Antonio, Texas, to Santa Fe. He returned to San Antonio by way of the Jornada del Muerto to Dona Ana, over the San Augustin Pass to Tularosa. In his reports he described Las Cruces as a "settlement of 300 inhabitants, mostly Mexican, dedicated to agriculture, who are obliged to irrigate."

## YS food program menu

Youth Services' free U.S. Department of Agriculture food program is from 7 to 8 a.m. and noon to 1 p.m.

The menu for the week of today through July 12 follows:

**Today, July 6**

**Breakfast:** Milk, apple juice and cereal. **Lunch:** Pizza, apple and milk.

**Monday, July 9**

**Breakfast:** Milk, apple juice and a doughnut. **Lunch:** Egg salad sandwich, fruit cocktail, col- eslaw and milk.

**Tuesday, July 10**

**Breakfast:** Milk, grapefruit, or

orange juice and cereal. **Lunch:** Chef salad, pears and milk.

**Wednesday, July 11**

**Breakfast:** Milk, fruit cocktail and corn muffins. **Lunch:** Cheeseburger, pork and beans, watermelon and milk.

**Thursday, July 12**

**Breakfast:** Milk, orange juice and cereal. **Lunch:** Peanut butter and jelly sandwich, celery sticks, apple sauce and milk.

Meals are subject to change.

This program is for youth 18 years and under. This USDA Program is a non-discriminatory program.