

TA-1: Today's Research Tomorrow's Missiles

the ROCKET

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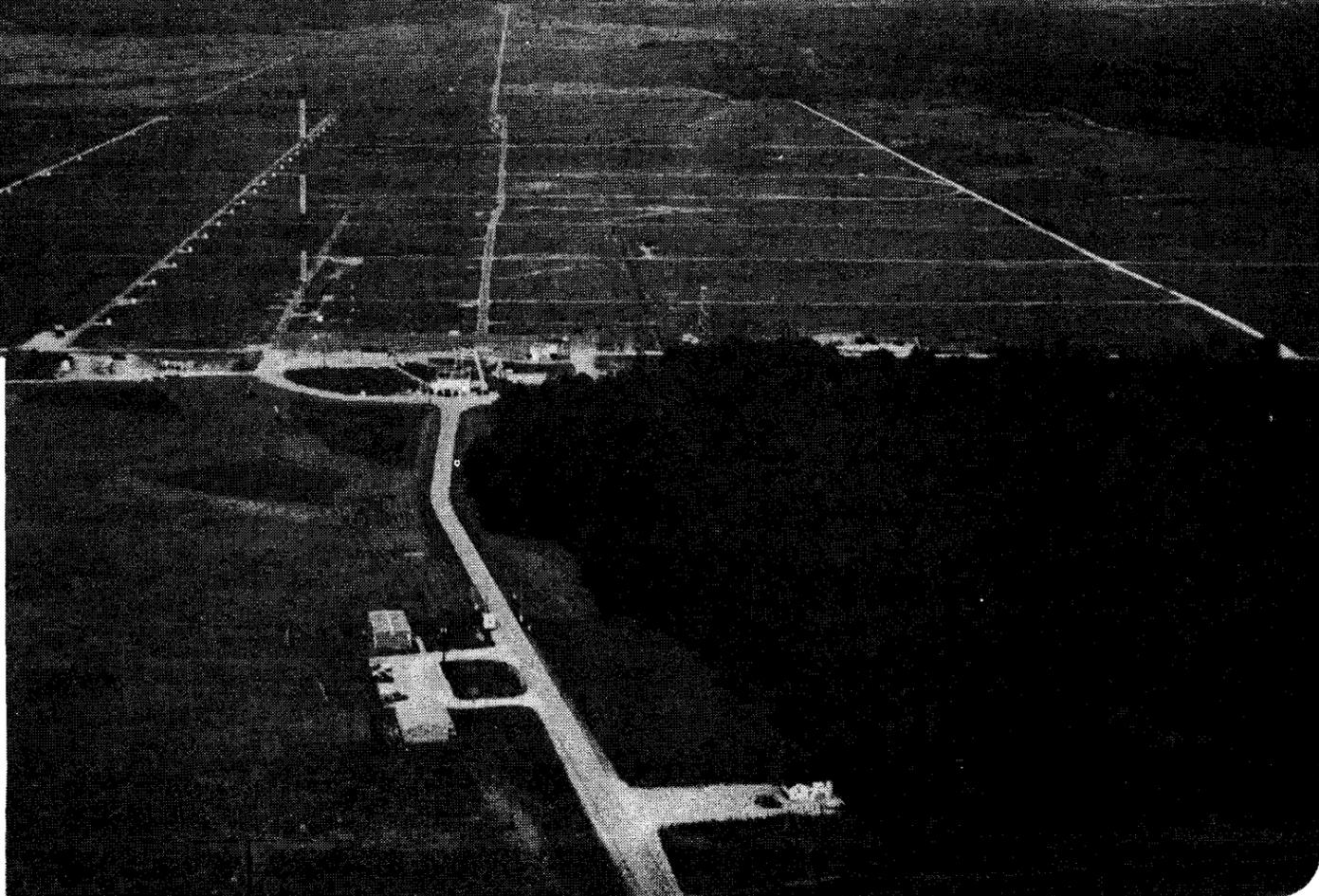
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One Of Best, Busiest Small Missile Ranges

It's no secret that much of what goes on at Redstone Arsenal is secret. For Redstone is the home of the Army Missile Command—where all the Army's missiles and rockets are born.

Behind closed doors, in spotless laboratories and rooms filled with test tubes and electronic paraphernalia, some 8,200 soldiers and civilians keep pushing back the boundaries of the unknown.

Redstone is the soft hum of computers, the slip of a sliderule, the clank of mechanical arms that remotely handle propellant, the stillness of a quiet room where an engineer wrestles with a thorny problem. But most of all, Redstone is the sound of progress.

Although MICOM doesn't manufacture production hardware, it does have facilities for building missile prototypes and labs for testing and evaluation of missiles and equipment. What many people don't know is that MICOM has one of the best-equipped and busiest small missile ranges in the country.

It's called Test Area 1, a flat, restricted area more than 27,000 feet long and encompassing about 10,000

acres. Many of the missiles born in MICOM laboratories are put through their paces there until engineers know they're ready to be put into the hands of soldiers.

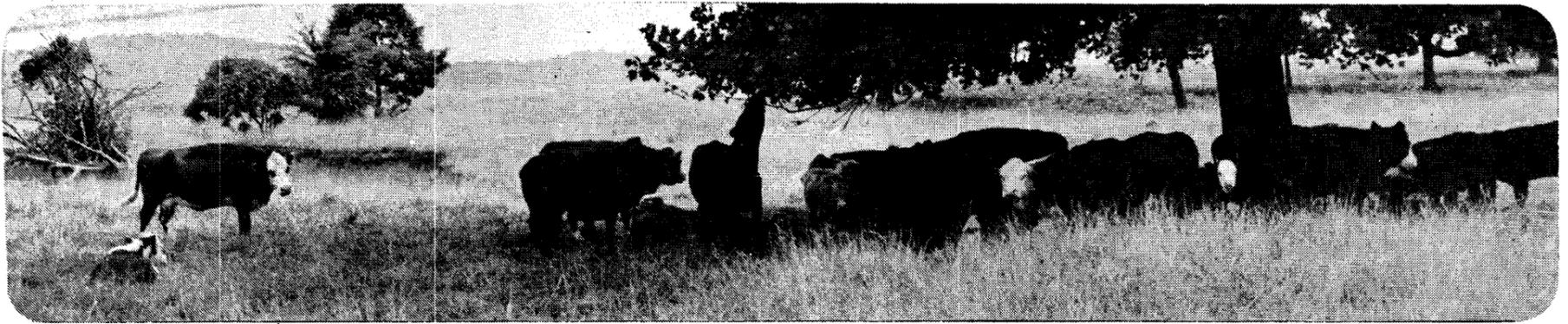
Directing the multi-million dollar complex is Frank Bunn, Chief of the Flight Operations Division, Test and Evaluation Directorate.

"Our primary mission," Bunn said, "is to support in-house research and Project Managers at the Missile Command. But we also support other Army agencies as well as contractors and Department of Defense installations."

To do the job, Bunn has a range crew of 25 engineers and technicians.

More than 1,500 missiles and rockets are fired annually at Redstone most of them at Test Area 1, which is one of six missile test facilities here. Test Areas 1, 3, 4, 6, are flight ranges; Test Area 2 features environmental labs where missiles and equipment are subjected to torture tests prior to being fired; and Test Area 5 which houses static test stands where larger missiles can be fired—without leaving the ground.

(Continued on page 8 & 9)



Cattle On The Arsenal

Meat counters are becoming bereft of beef, but the familiar pastoral scene of beef on the hoof is still in evidence as usual at Redstone.

At present the installation is home to about 4,500.

The emphasis on cows these days warrants reanswering the question, "What are cows doing on Redstone Arsenal anyway?"

Other than the obvious answer — grazing — here's the story:

Seventeen cattlemen are leasing 28 tracts of land here ranging in size from 26 to 2,900 acres. Leases are for five years and are awarded on a competitive bid basis by the Corps of Engineers in Mobile. The Army can recover the land at any time.

The land costs, on an average, about \$4 per acre per year. It is expected to yield close to \$40,000 this fiscal year, but other considerations make the leases far more valuable in Redstone's view.

According to Dave Bryant, post forester, the cattlemen perform services that save a lot of land

management time and money. For example, when a lessee mows, as he must at least twice yearly, he is doing something Redstone might otherwise be paying to have done.

A lessee has to keep a fence around his grazing unit, plant it with an accepted grazing crop and

keep out nuisance grasses, and he has to fertilize when soil tests indicate it is needed, usually once a year. Additionally, if a grazing unit encompasses one of 40-odd cemeteries here, the lessee must maintain the cemetery and keep it fenced.

The cattlemen spend considerable time working their lease units and in the remoter areas are an otherwise-unavailable fire watch.

The 28 lease units average about 300 acres apiece. One of the bigger ones, 1,477 acres, is in the range area but missiles don't seem to bother the cows. The unit, in Bryant's words, "is more or less in what you'd call the safety zone." He said as far as he knows no cows have been hit by missiles.

The horn of plenty isn't necessarily a longhorn. At least with the cow situation as it is. With housewives distressed, meat counters bare and cattle growers sitting tight, a steak dinner is something to dream about.

How long will this dreaming go on? Nobody seems to know, but there are various ideas around on how to beat rising meat prices.

The obvious one is to become a vegetarian. But then there are those folks brought up on the old "meat and potatoes" philosophy who shudder at such a thought.

So how about raising your own cow, taking her to the slaughterhouse and bringing her home neatly wrapped in packages for the freezer? At first glance this may seem like the solution. Take another look.

There is, of course, the time and expense involved in feeding the cow properly. But the major cost arises when the cow is taken to be slaughtered and then cut to specifications. According to some Arsenal employees who have

raised cattle in small numbers and had them butchered for their own use, it is just as cheap to buy beef in the supermarket.

The idea to keep in mind is that profit in the cattle industry depends on volume. A cattle grower with a large herd might get a reduction on prices at a slaughterhouse whereas an individual with only one or two cows might find that the charges would overshadow any real savings.

Just how much useable meat can be obtained from one cow depends of course on the size and weight of cuts requested. Obviously, one could get more 3-4 inch T-bone steaks from a beef than one-inch steaks.

Billy Davis, employed in Management Information Systems Directorate, is having half of a beef butchered and expects about a dozen T-bones. "You must remember, though," says Davis, "that I like extra thick steaks. I'm having them cut an inch and a quarter thick."

A drive through the Alabama

countryside might make you wonder how there could possibly be a problem such as a beef shortage. The Alabama Cattlemen's Association with 15,158 members is the largest state cattle organization in the nation.

Beef cattle is Alabama's number one agricultural commodity with an annual income of \$200 million in 1972. More than five million acres of land are devoted to cattle production in the state.

But, nevertheless, there is a problem. Some housewives blame cattlemen, some cattlemen blame middlemen and the circle goes on. Everyone believes he has a legitimate beef.

PX Recall

(ANF) — If you purchased a baby bottle brush called the "Little Angel" at the PX, return it immediately.

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The Redstone Rocket

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Surplus Workers Get Shot At Vacancies

The Missile Command has begun a series of actions to balance civilians now employed with jobs and skills required to perform its mission.

Major General Edwin I. Donley, MICOM Commander, directed the effort to give MICOM civilians now identified as surplus first crack at vacant jobs with no loss in pay in all instances where voluntary reassignments in grade can be worked out.

MICOM elected to take a 360 space cut directed last Spring by attrition, that is by not replacing civilian employees who retired or resigned. A substantial number of

retirements and resignations and job changes occurring in the past few months, have created many vacancies in the organizational structure under which the command will operate during FY74. Preliminary counts indicate that the number of vacancies may exceed 500. Heads of organizational elements are submitting refined figures this week.

They are also providing Civilian Personnel Division with specific information on the individuals who are surplus in their current jobs because of unit strength reduc-

tions, internal realignments or job reclassifications. Estimates fix the number of surplus employees at 400 or more.

Where a direct match can be made between an individual identified as surplus and a vacancy, a three step procedure will be followed:

1. Heads of organizational elements with vacancies and surplus individuals will attempt to arrange voluntary reassignments in grade to place surplus people on solid jobs within the same organizational element. Those actions are scheduled for completion early next month.

2. Civilian Personnel Division will then attempt to place other individuals surplus in their current organizational element in vacancies elsewhere in the command through voluntary in-grade reassignments. Those actions should be completed by late September.

3. Finally, Civilian Personnel Division will process reassignments using adverse action procedures as required with no downgrades to those remaining surplus individuals who qualify for existing vacancies.

The actions involved the Missile Command and the Redstone Ar-

senal Support Activity. Civilians now employed in the Lance and SAM-D Project Offices as well as those now working for other Army commands and agencies in the Huntsville area are not involved.

Further actions that may be required to place remaining surplus employees will be determined later in the Fall after the first phase cross matching process has been evaluated.

The cross matching actions, internal to MICOM, are based on the assumption that MICOM will not be directed to make a further reduction in its overall civilian manning level.

Fimiani Closes Career

Brigadier General Joseph C. Fimiani, SAM-D Project Manager, has announced his decision to retire from the Army later this month after 32 years of military service.

Although his retirement plans aren't yet firm, the general said he and Mrs. Fimiani are heading toward California, somewhere "...around the San Francisco area."

Named to succeed Fimiani is Brigadier General Charles F. Means, who holds a top position on the staff of NORAD, the outfit responsible for air defense of the North American Continent.

Means is scheduled to come to Redstone Arsenal on September 15.

One of the hallmarks of Fimiani's career came just last year when he got the green light to move into full scale development with SAM-D, one of the Army's five biggest programs. Under his leadership, the Army awarded \$558 million to Raytheon Company to fund engineering development, over a five-year period, on the new air defense system.

SAM-D is the only air defense weapon of its kind, and with its capabilities, that is under development.

For Means, who has a broad background in missilery and air defense, this is his second Red-

stone assignment. As SAM-D Project Manager, he'll report directly to the Army Materiel Command in Washington. But SAM-D facilities are based at Redstone and the project office is attached to the Army Missile Command for administrative and logistics support.

During his first tour here, in 1959, Means had staff supervision of research and development tests for Army surface-to-surface missiles. Later he became chief of the development coordination branch for Pershing in R&D operations and, subsequently, Deputy Chief of Engineering in the Pershing Project Office.

Following a tour on Kwajalein as Chief of Nike-X Missile Operations Division and Chief of the Kwajalein Range Operations Division, Means went to the Army Air Defense Command in 1966 as Chief of Advanced Weapons Systems Branch.

Among other assignments, he served in Vietnam as Chief of the Ground Combat Division Army Concept Team and as Commander of the 24th Artillery Group which consists of Nike Hercules units in Connecticut, Rhode Island and Massachusetts.

A native of East Liverpool, Ohio, Means is a 1950 graduate of the U.S. Military Academy and holds a Masters in Aeronautical

Lange Returns As MICOM Staff Chief

Colonel Arthur G. Lange Jr. is the new MICOM chief of staff. He began duty Monday, replacing Colonel Paul A. Pencola who becomes director of procurement

Engineering from the University of Michigan. He also is a graduate of the Artillery Career Course, Command and General Staff College and Army War College.

He was Assistant Deputy Chief of Staff for Plans and Programs at NORAD.

Among medals and decorations, Means holds the Legion of Merit with two oak leaf clusters, Army Commendation Medal with two oak leaf clusters and Vietnamese Armed Forces Honor Medal First Class.

and production next month. Pencola had been acting chief of staff following the June retirement of Colonel James C. Miller Jr.

Lange, a West Allis, Wis. native, began his Army career in 1944 as a private just out of high school. A year later he was commissioned at Ft. Hood, Texas.

The ensuing 27 years have been spent mostly in missilery assignments, notably with the Sergeant land combat system. In 1959, soon after graduating from the University of Maryland with a bachelor's degree in military science, Lange began a two-year assignment at White Sands Missile Range as Sergeant project officer.

Subsequently he attended Babson College in Boston, earned a

master's degree in business administration in 1962.

He was later to become manager of the Sergeant project here at Redstone beginning the assignment in July 1966. Three years later he left for Vietnam wearing a Legion of Merit awarded for his service here.

In Vietnam Lange spent a year as chief of the Inventory Control Center and was awarded an oak leaf cluster to the Legion of Merit, as well as a Bronze Star Medal.

He received a Meritorious Service Medal in his next assignment, as chief of supply and maintenance from March 1972 until last month at Headquarters, U.S. Army Europe, Office of the Deputy Chief of Staff for Logistics.

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In Arab

A Changing Of The Guard

"It used to be a lot of hair cutting and boot shining and it didn't much matter whether you were proficient or not," said a young lieutenant (with close-cut hair and shiny boots), as he supervised his platoon's training in a pasture east of Arab on a hot Saturday morning.

Says one of the highest ranking enlisted men, a 48 year old ex-marine: "It's different now and I like it better now — there's not nearly as much harassment as there used to be. I believe in discipline," he said emphatically, "but you can have discipline and still have a little better harmony."

A THIN LINE

"I try to walk a thin line," says Captain Robert E. Yates, commanding officer of Company D, 279th Signal Battalion at Ft. Wilbur Fowler, the Alabama National Guard unit in Arab.

Yates, a soft spoken officer, is a civilian employee of Redstone's McMorrow Missile Laboratories.

He is a PhD aerospace engineer.

Yates suggests that commanding a Guard unit nowadays is like being on a tightrope. Seven years into his guardsman's career and two years into his first command assignment, Yates seems to

have achieved the delicate balance where freedoms known only to the civilian come together with traditional military discipline, challenge and camaraderie to create a best-of-both-worlds atmosphere for the 100 civilian-soldiers in his outfit.

Part of the atmosphere is cultivated, other parts just seem to fall into place as a result of the individual motivations of the

guardsmen. For Yates "It's a change of pace. The National Guard is a people kind of job," he offered, "mine here (Redstone) is technical."

The most impressive thing about the atmosphere is how it captures the 100 men who one weekend a month lay by everything else to get caught up in it. It seems that everything is suddenly in common.

NEW DIRECTION

Having lost its attraction as an alternative to the draft, the National Guard to sustain membership has, in Yates' words,

turned to "an emphasis on meaningful training," stressing the word meaningful.

But any and all military training is touted as "meaningful," is it not?

Here is what meaningful training is and does at Company D. Among other things it begins near dawn. It is hot in summer, cold in winter. It's hard work for the most part. At the same time it's a major factor in

attracting enough new blood to keep the Company at full strength (at a time when some Guard units are fighting to maintain half strength). Also, it helps account for Company D's reenlistment rate of about 75 percent.

More importantly, meaningful training means more doing and less watching. Company D hasn't retired the instructor who skitters a white wand over diagrams and mock-ups; they've just moved him and his class into the field.



CLEAN EQUIPMENT — is an Army byword. A pasture near Arab furnished the wide-open spaces needed to lay out the quarter-mile reels of telephone wire, dirty from summer camp. Two civilian-soldiers, one with a wet rag, the other with a dry rag, rid the wire of Mississippi mud as a portable winch reels it in.

National Guard Cook

Cooks At Redstone, Too

A Spec 4: "I don't think you'll find a Guard or Reserve unit anywhere with food this good."

A Sergeant: "I think it's about the best you could eat, and there's plenty of it."

The Spec 4 interjects: "It reminds you of your mother's cooking — not your wife's — but your mother's."

They're talking about Army food, more specifically Army National Guard Food, served up by Sergeant First Class Thomas E. Hunt Jr., mess steward of the Guard unit in Arab.

A far cry, isn't it, from responses traditionally evoked by military food, responses colorful and brutally descriptive, if unprintable.

Hunt is an expert in special diets. On the one hand his concern is what it takes to keep Arab guardsmen happy on drill weekends and

at camp; on the other it's meeting special dietary requirements of patients in Redstone's hospital, where he is a shift leader in the dining facility.

In another distinction, Hunt's the man Arab shoppers hate to get behind in the supermarket checkout line. Interviewed at his Redstone job, he told what it's like to shop for a company of guardsmen. "I shop just like the average customer," he said, except he's maneuvering four or five carts through the aisles, by himself usually.

He spends about \$140. "If I have a large number to feed it makes it better on the buying, but I always stay under my authorization," he said.

Hunt's shopping trips began about 10 years ago when monthly weekend drill replaced one-night-

a-week drill. He was allowed \$.52 per meal per man then — with "get by as cheap as you could" guidelines — and served mostly "pork and beans, hamburgers, potato chips and things like that." The allowance has been upped to \$1.15 and "I can buy anything I want now, turkey and dressing, steak, etc." (with careful menu planning of course), Hunt says.

"I'm not boasting," he continued, "but the meals I put out would cost \$3-4 in a restaurant." Apparently they're worth going out of your way to get: "Some in our battalion who drill in Huntsville come to Arab to eat, and at camp other units come eat with me."

"I get a lot of compliments," he said with modest pride, quickly adding, "Of course I don't do it for compliments, I do it to do my duty."

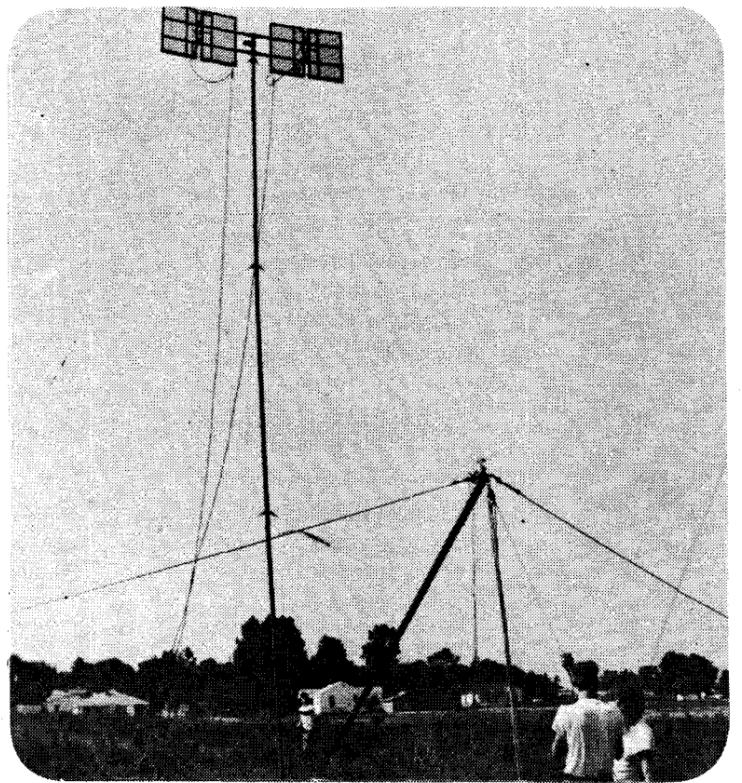
National Guard gastronomy has been his line for 18 years. Now he's looking to retirement, from the Guard in two years, from his regular job in four. From the former, he said he will get at age 60 a pension, as well as the same benefits as a regular military retiree.

The Guard of today scarcely resembles the Guard he joined in 1954, food-wise or otherwise, he said.

In the final analysis, a guardsman, like any military man, has elected to be more concerned with the interests of others than with self-interest. And in a situation like that it sure helps to like what you're doing: "The way I look at it," Hunt said, "you've got to enjoy what you're doing to be a success at it. I enjoy doing this type of work, and it's the same there (Arab Guard) as here (Redstone).



HUNT



A LITTLE HELP — The gin pole in foreground and a maze of cables and pulleys provide the mechanical advantage necessary when a three-man team has to erect a 500 pound communications antenna.

Weekend's Work

One Saturday a month a cross-section of North Alabama converges on Ft. Wilbur Fowler, the National Guard unit in Arab. It is drill weekend for the men of Company D, 279th Signal Battalion.

Family men in family sedans, sports in sports cars, farmers in farm trucks quickly fill the parking lot before 7 a.m. and the overflow spills onto Huntsville Road, filling the better part of a block.

Maintenance men headed for the shops, clerks to the offices, cooks to the kitchen and communications men to the field.

While the August morning's "autumn" fog was still holding in low places, mini-convoys of signal equipment rumbled away from the Fort, one to a sericea-choked field off Arab parkway, another went north to the top of the mountain outside Huntsville, a third to the old Huntsville airport, Communication between these points was their aim, a training exercise in what they would do either in a civil emergency or if called to active duty in wartime.

In the meantime the cable and wire platoon headed for a pasture near Arab. Their yearly summer training just behind them, the platoon's most pressing concern was cleaning what had been the communications conduit for 10,000

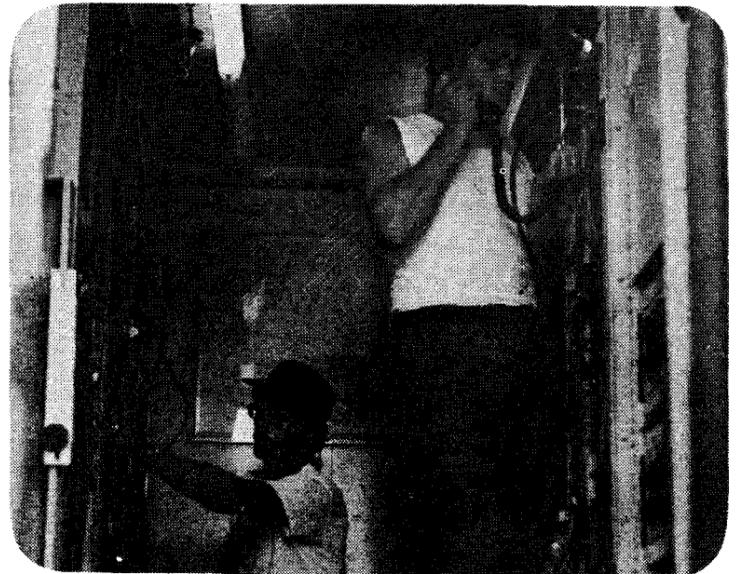
Guardsmen training at Camp Shelby, Miss. Now it was 40 miles of dirty wire when camp broke had been hurriedly wound in quarter-mile lengths on 106 disarrayed reels.

Meanwhile back at the Fort, other guardsmen were training in other jobs. Two Redstone workers, Larry Black and Roger Farris, were among them. They have a lot in common. Black is a sergeant and a radio relay operator, Farris is a supply specialist. His rank is specialist fourth class. Both are electronic engineers in the Guidance and Control Directorate of Redstone's McMorrow Missile Laboratories. They work in the same directorate as their commanding officer, Captain Robert E. Yates, an aerospace engineer.

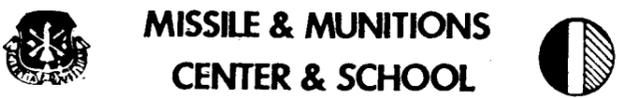
Black and Farris, lifelong Arab residents, joined Company D while seniors in college, Black at the University of Alabama, Farris at Auburn. Both are 26 years old. Black, single, has four years in the Guard. Farris, married has three years.

At Company D Black is a radio relay team chief, in charge of two radio carriers (vans) and four subordinates. Right now he is becoming acquainted with new carriers the company is getting. The new units will transmit 96 voice messages at a time, while the

(Continued on p. 13)



90 MINUTES LATER — The guardsmen enter the radio carrier van to establish communication with another team that has simultaneously been setting up a carrier about 30 miles to the north. Three man teams can set up the field communication equipment anywhere, anytime usually in about one and a half hours.



**MISSILE & MUNITIONS
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NAMES IN THE NEWS

By SP4 Larry Marsh

Master Sergeant Harold L. Jackson reenlisted for five years recently, Jackson, assigned to Company C, is a Hawk maintenance supervisor and served previously with the 30th Ordnance Company in Korea. He earned a B.S. degree in 1951 from South Carolina A & M. Jackson said that

he and his four brothers plan to serve more than 100 total years in the Armed Forces. Jackson has 22 years himself and the total right now for the Jackson Five is about 90.

CW2 Reynaldo Caceres received his regular Army appointment last week. He is a native of Corpus



MARTIN



BRIGGS

Christi, Tex., where he graduated from W.B. Ray High School in 1958. Caceres works as chief of the materiel management branch.

Leading off the recent arrivals department is an old Redstone veteran, SFC Grady L. Dorrrough, who served here previously from '61 to '63 and again from '66 to '70. Assigned to Company B, Dorrrough is the curriculum NCO in the Pershing division. A native of Houston, Tex., he graduated from high school there in 1951.

SFC George T. Martin, assigned to Company A, is working in the Hawk maintenance branch. A 1946 graduate of Western High School in Washington, D.C., Martin attended Kent State University before entering the Army.

Specialist Five Stephen R. Songer is another new MMCS arrival. A member of Company B, he is an instructor in basic electronics. Songer graduated from Oxnard (Calif.) High School in 1966 and served previously in Okinawa.

Private DeWayne J. Briggs, of Company C, comes to MMCS from Germany. A clerk-typist, Briggs is a native of Novato, Calif., where he graduated from San Marin High School in 1971.



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Young Soldier In A Hurry

When he arrived at the Missile and Munitions Center and School some months ago, Private Dewey Odhner did so well on placement tests in basic electronics that he began studying the Vulcan and Chapparral air dense systems at once. That was in March.

He just graduated from the 29-week course tops in his class with an academic average of 95.71. The soft-spoken 20-year-old Pennsylvanian expects to be assigned to Ft. Carson, Colo., as a light air defense electronics repairman.

Odhner (or "O.D." as he's called by his buddies) had never received any formal electronics training before he entered the service, but his whimsical hobby of putting with electronic components and circuits apparently stood him in good stead.

Before entering the Army, Dewey Odhner was a student at the

Academy of the New Church in Bryn Athyn, Pa. He graduated from the A.N.C. high school in 1971. He entered the Army in December, 1972.

"Odhner's been a real fine troop here," said Captain Robert R. Arnold, commander of the 8th Enlisted Training Company.

"His military bearing and courtesy have been on a par with his academic accomplishments — far above average. Odhner was always there, doing his job," Arnold said.

While at MMCS, Odhner's job was learning — learning to troubleshoot, maintain and repair the weapons systems.

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Several Tickets Later Arsenal Drivers Slow Down

Drivers have slowed down, and the post accident rate is going down. Briefly this is the way things stand at Redstone after a month of lowered speed limits and two months of radar-vascar enforcement.

MPs have also cracked down on running stop signs over the past few months. In June, for example, 121 drivers were ticketed for failure to obey a traffic control device, and the number of intersection collisions went down from the previous month.

There have also been fewer accidents at Arsenal gates since reduced, enforced speed limits went into effect, according to First Lieutenant Richard Bird, a traffic officer here. This runs counter to alarmist predictions of chain reaction collisions spanning

Redstone from gate to gate during evening rush. Under the enforcement program gates, as well as main roads, are patrolled with radar or vascar twice a month as a matter of routine.

The enforcement program, Bird said, is augmented by stepped up campaigns as needed.

The enforcement program, although some drivers find it irritating, even costly, won't likely be discontinued anytime soon. Here's one example of what happens without it:

Goss Road has a 35 miles per hour speed limit, is the artery through the housing area and has an unusually high accident rate.

Last September a speed survey on Goss indicated that average speed was well above the limit. (To make a speed survey an MP in a

radar-equipped unmarked car measures the speed of 100 cars and computes an average). So Goss was saturated with radar-vascar, discontinued in December when average speed was down to 32 mph.

Along about May Goss' accident rate started up again. Another survey, average speed 44. Up 12 mph in six months! "Some of them had to really be hauling to get a 44 average," Bird commented.

Several weeks and a lot of tickets later, Goss' average speed and accident rate both started back down. Bird used speed measuring equipment there for four consecutive nights a month ago. He didn't catch anyone.

Redstone used radar-vascar continued altogether and the following pattern emerged: two injuries in January, five in February, none in March, five in April, fifteen in May.

Radar-vascar enforcement began anew in June; that month injuries dropped to eight, also the July figure, the latter significant in view of the fact that July is historically Redstone's worst month for vehicle accidents.

In July 1973 there were 23 accidents, compared with 42 in July the year before. Why the big reduction this July? Possibly because MPs blanketed the post with radar-vascar and wrote about 280 tickets. Bird said July's eight injuries were significantly less severe than June's. This suggests strongly that Redstone drivers have slowed down, he added, because of the correlation between speed and severity of injuries in a wreck.

Here is Redstone's accident pattern since January:

In the quarter ending March 31, there were 75 vehicle accidents (53 roadway) here. Last quarter (April-June) the count dropped to 66 total, 43 roadway. Of July's 23 accidents, only 10 were roadway.

Most non-roadway accidents are in parking lots.

Seventh Best In State

Three games over a six hour period proved the undoing as the MICOM girls independent softball team settled for seventh place in the recent Alabama State Women's tournament in Montgomery.

By splitting four contests at the state meet, the MICOM girls concluded a highly successful season that saw them win 41 of 51 games and three tournament championships.

It was the first season of play as an independent following four consecutive years as champions of the Huntsville Industrial Women's league. The team is sponsored by the Civilian Welfare Fund Council. They qualified for the state meet by winning the First District tournament that was held in Sheffield.

At Montgomery MICOM dropped a hard fought 7-6 decision to a team from Phenix City in an opening

round game. Relegated to the loser's bracket, MICOM was forced to play three games in a row, winning twice before being eliminated by the same Sheffield team they had beaten in district play.

Throughout the season the MICOM girls posted an accumulated batting average of .365 with 25 home runs. Individually Cena Taber was the top average hitter at .478 and Sherry Gray hit .434.

Barbara Roberson was the top home run producer with five, one more than Taber, Pat Bryant and Kathie Leeth.

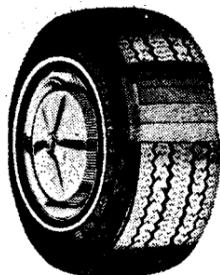
Gladys Hill handled all of the pitching during the season and was named to the all-star team following the District tournament along with Glenda Kidd, Pat Shipp, Donna Hudson and Kathie Leeth.

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MICOM Thwarts MP Challenge In Final



READY AND WAITING — MICOM II catcher Al Ashton has the ball waiting and braces for a collision with Gary Morgan of the MPs. Ashton was the defensive standout of the post playoffs.

When you're Number One in sports, it isn't easy to stay there, because everyone wants to knock you off. Joe Frazier was kayoed by George Foreman. The once-invincible Yankee dynasty crumbled. Onion beat Secretariat.

But MICOM II reigns today as the undisputed king of Redstone Arsenal softball after beating the 291st MP Company, 10-4, for the championship of the unit-level softball league playoffs.

MICOM II mixed a perfect blend of offense and defense as they rolled to a 25-0 season record. And they had the strong right arm of pitcher Ron Lockwood, who was the driving force on the team after he led UTC to a disappointing second-place finish in last year's playoffs behind Safeguard.

The team showed its strength by overcoming two major setbacks. First, centerfielder Danny Wyrick was sent to Germany after only six games, taking his six homeruns and .640 batting average with him. Then, a freak swimming pool injury aggravated an old shoulder problem for rightfielder Rick Newman, who was lost to the team for two weeks.

MICOM opened the scoring against the MPs in the title game with a run in the first. Jerry Thomas and Newman both walked, and Thomas scored on Al Ashton's grounder. The winners added four more in the third, when Rollin Shelton and Newman walked and an error allowed a run to score. Then Mississippi Max Lawson crashed a long double to leftcenter to drive in two runs and Don Watson followed with an RBI single.

The MPs came back with a run of their own in the third on a single by Clarence Stiffler and a sacrifice fly by Rod Perry. But MICOM got three more in the



POST CHAMPS — Ron Lockwood, coach and pitcher for MICOM II, accepts championship trophy from Colonel George Gregg, RASA Director.

fifth to ice the contest. The MPs made it 8-2 in the fifth on a walk to Steve Rudzinski and a single by Tom Curran. MICOM got two more in the sixth on Lawson's RBI single and a wild pitch.

Lenny Smith hit a towering homerun off Lockwood in the sixth, and a double by Perry and triple by Curran produced another MP run in the seventh, but the 25th straight win for MICOM II was already a foregone conclusion by then.

Following the game, trophies were presented by Colonel George F. Gregg, RASA Director. Team and individual trophies went to Company A, National League champions and to MICOM II as American League Champions and Post Champions. Other individual trophies went to Mike Spry of MICOM II as the

league batting champion and to Max Lawson of MICOM II as the league's homerun champion.

The umpires selected Gene Howey, MICOM I centerfielder, as the league's homerun champion.

MICOM II (10)		ab	r	h	bi
Thomas, cf	3	1	0	0	0
Newman, rf	3	1	0	1	0
Ashton, c	3	2	1	0	1
Spry, 3b	2	3	0	0	0
Lawson, 1b	3	2	2	3	3
Watson, 2b	4	0	0	2	2
Ash, ss	2	0	0	0	0
Lockwood, p	4	0	0	0	0
Shelton, lf	2	1	0	0	0
		26	10	5	6
MPs (4)		ab	r	h	bi
Rudzinski, 3b	3	1	0	1	0
Perry, p-3b	3	1	1	2	2
Curran, lf	4	0	0	0	0
Williams, ss-p	4	0	0	0	0
Morgan, 1b	2	0	1	0	1
Smith, cf	2	1	2	1	1
Semple, 2b	3	0	0	0	0
H. Thomas, c	3	0	1	0	0
Stiffler, rf	3	1	1	0	0
		27	4	7	4

Worley, Payne

Score OWC Wins

Among the 9-hole golfers in the Officers Wives Golf Group competing for the best poker hand, Norma Worley was the winner with Nancy Hecker second and Ivy Pencola third.

At the same time last week, a dog fight was held among those playing 18 holes. Bev Payne was the winner. Liz Fraggie was second and June Young in the third place.

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Army's All-Stars

The Army's entry in next week's slo-pitch all-star contest will be almost exclusively players presently performing in the CWF-MARS championship tournament.

Only one of the CWF stars played for a team in the lower half of the regular season standings while the two top teams have eight a piece on the 22-man roster.

The All-Star game is set for Thursday evening (Aug. 23) at the Tennessee River Recreation Area.

Doug McKee who directed Materiel Management to the league title, will manage the CWF team and will have the pitcher, catcher, three infielders and a pair of fly chasers off his own team.

Representing the title holders in addition to McKee will be Lindon Calvert, Paige Stagner, Dave Bryant, Dan Chepkaukas, Dewey Wilson, Dave Blackwood and Jerry Williams.

MISD has much the same lineup on the team with one more outfielder. Seconders placers named were Doug Peavey, Jody Winkles, Jack Harris, Buddy Lewis, Russ Ward, Randy Sumner, Jerry Arszman and Bruce Coker.

Charles Lovejoy, a hard-hitting and smooth fielding third sacker, is the lone player not in the tournament. He played during the season for the fifth place Missile Systems team.

Finance and Accounting is represented by shortstop Hal Jacobs and outfielder Mike Reid. GEM placed three outfielders on the squad, Dean Reese, Wayne Dahlke and Lynn Stuckey.

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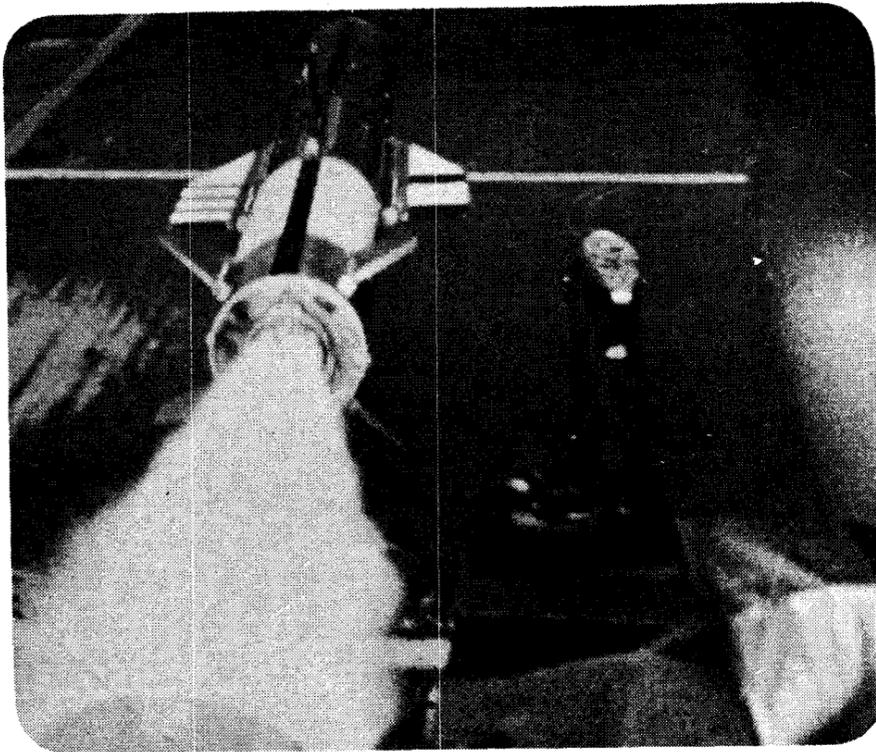
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Missile Away

(Continued from page 1)

Most of the firings conducted at Redstone are short to medium range missiles such as anti-tank and helicopter armaments, like TOW, DRAGON and HELLFIRE. But engineers and technicians, with contractors, have fired everything from the 25-foot-long Honest John to the Law Trainer, about nine inches long.

With bigger missiles, like Honest John and Little John, test engineers placed self-destruct devices aboard to blow them before they got off range or else

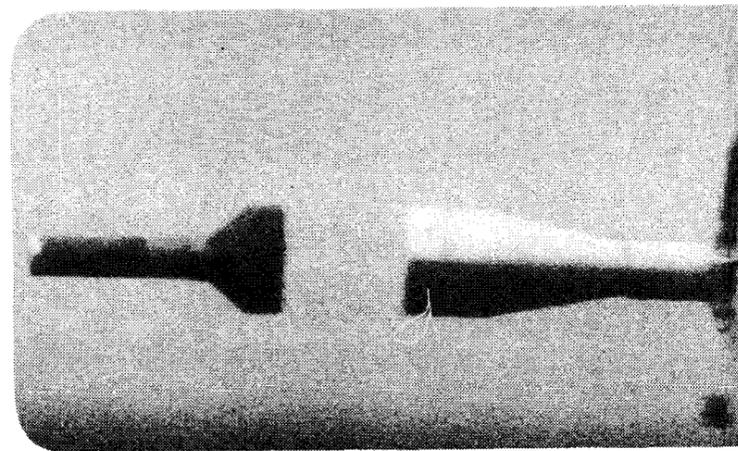
fired them at extremely low elevations.

Of prime importance in every test is the collection of flight data—so that missilemen know what happened, and why. No matter what data are needed, Test Area 1 has the instrumentation to get it, both optical and electronic. There are radars and telemetry equipment that tell graphically how the missile is performing and there are some 200 high speed cameras that show what is happening from launch

to impact.

Cameras can record at more than 8,000 frames a second to as little as 24 frames a second. In addition, there are five long-range Contracts precision tracking cine theodolites—cameras which are located at a distance from the flight area and used to manually track missiles. These cameras can show precise missile position in space, to plus or minus half a foot.

If something goes wrong, test engineers can find out what hap-



Something

One Of Best, Busiest

pened before they fire again — thanks to five high-speed data tape recorders that have instant playback capability.

Nerve center for TA-1 is the blockhouse, jammed with communications and electronic equipment behind walls of reinforced concrete two-feet thick.

One of the many specialized pieces of equipment is the firing console, and the heart of the system is the timer-programmer, which makes sure everything happens when it's supposed to. The console is programmed to turn on cameras downrange, automatically fire missiles, operate the radars, and record launch dynamics and telemetry. Also built into it are safety devices which may be used if a hold is necessary.

For further safety, the blockhouse has TV monitors on the launch pad. And before every test, the range is combed for unauthorized personnel. Gates are locked, flags raised and warning lights begin flashing.

"We've never had anyone hurt as a result of a missile firing," Bunn said.

One of the most conspicuous landmarks looming over the landscape is a 400-foot tower. From the top, cameras can look down on the missile in flight to obtain yaw data.

And not far away are sled

tracks that can propel missiles fired at high velocities.

Test Area 1 even has its own weather station that shows real time weather such as temperature, humidity, wind direction and velocity.

"We can watch an approaching thunderstorm and work until it's right on top of us," Bunn said.

From MICOM technology and know-how have come familiar names such as Pershing, Lance, Honest John, LAW, Little John, Sergeant and, of course, Redstone, the granddaddy of them all, just to name a few.

Studies begun at MICOM in the 50s resulted in the M-22, the first operational guided missile adapted to the helicopter in the 60s. Then came TOW, developed and tested at Redstone on two Army helicopters during 1967 and 1968. TOW, and those same two choppers, were committed to combat in Vietnam in 1972, making TOW the first Army guided missile to be fired in combat by American soldiers.

Today, one of the major thrusts in missilery involves laser guidance. That technology, too, started at Redstone.

Back in the early 60s, MICOM began to explore a new method of putting a missile on target. They called it semi-active laser guidance.

To test the new guidance



Missiles Fired Here

Joe Smith and James Dempster check out the firing console which is one of the electronic marvels in the blockhouse at Test Area 1. About 1,500 missiles and rockets are fired every year at Redstone.

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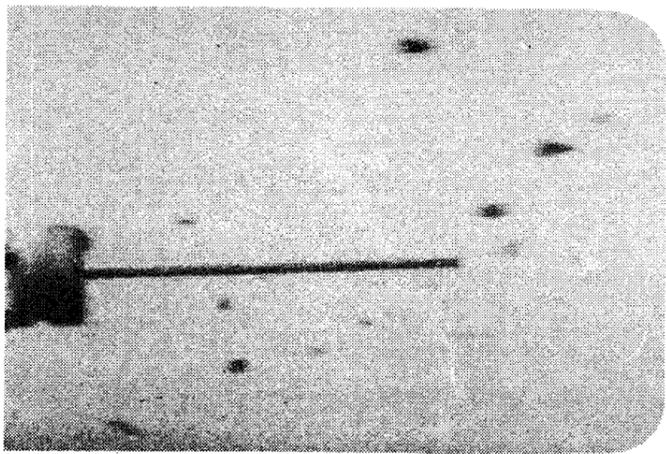
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Small Missile Ranges

scheme, Redstone missilemen sent a rocket-propelled sled hurtling down a railroad track at better than 400 miles per hour. By illuminating a target on the sled — a 38-inch diameter nose-cone — test engineers could determine the seeker's ability to lock on and track the reflected radiation.

The seeker was mounted on top of a test van that looked down a 400-foot railroad track. Once the sled passed the seeker, retro rockets were fired to stop the sled.

Since that time, MICOM during the 70s has hit targets with pinpoint accuracy firing laser-guided missiles from the ground and from helicopters.

Other research is continuing at Redstone, much of it behind closed gates.

Redstone is the sound of a

tank rumbling across an open field, the churning of helicopter rotors skimming the treetops, the sharp crack of a missile, a booming explosion as a missile finds its target.

New names are taking their place with the old—names like Dragon, Hellfire, Stinger, SAM-D. Some research programs are so new they don't have names. They're identified as suppression missiles, hypervelocity rockets, rockets with plastic airframes—infra red, radio frequency, or laser guided missiles.

One technology program is even called SMAWT for Shoot Ranger, Man Portable, Anti-Tank Weapon Technology.

They're all part of MICOM's promise to the soldier:

Give him a good weapon today — a better one tomorrow.

Lee Roy (Doc) Reagon gets shot at nearly every day at Redstone Arsenal.

His friends jokingly say that he came to the Missile Command right after the water went down. And they don't mean the flood of '73.

Reagon says he's been here only since 1951 — which still makes him one of the oldest hands at Test Area 1.

He has 30 years of Civil service, yet he's only 47.

A native of Huntsville and Madison County, Reagon is an engineering technician with the Flight Operations Division of the Test and Evaluation Directorate.

Asked about his job, "...I do a little bit of everything..." that has to do with testing missiles at Redstone. That includes driving a tank at which gunners fire missiles, driving trucks loaded with missiles and equipment to simulate handling in the field, to setting up and running cameras on the range.

He shrugged his shoulders about getting shot at.

"There's nothing to it," Reagon said explaining that the missiles don't carry live warheads. "It just makes a little thud. The tank's

armor plates are so thick that it's not much worse than hitting the tank with a hammer."

Only once did something happen.

"Test engineers were using a marking device to show where the missile hit the tank," Reagon recalled. "A kind of colored powder, like a dense fog, came through the hatch and got all over me."

When Reagon first came to Redstone, Test Area 1 was nothing but woods and a swamp.

There was a time during the early 50s, he said, when "...about all we did was maintenance work — keeping the place clean." But then missiles and rockets began to come into the Army's arsenal.

"We fired a lot of 2.75-inch rockets and something that was called the T-131 which was a 37mm gun boosted rocket."

Reagon said he went for a time to Fort Benning where he underwent training on anti-tank weapons like the SS-10, SS-11 and Entac and came back to fire them at Redstone.

Early firings were crude judged by today's standards.

"We had a portable trailer, with instrumentation, that we pulled around from place to place. At that

time we had only four or five cameras to cover a firing.

"To fire in those days, we just put battery leads together."

Reagon said the blockhouse was "...a little one-room shack with a desk and couple of chairs" where the foreman stayed and "...we checked in and out."

One of the toughest jobs he ever had was a test that dealt with detonating mines.

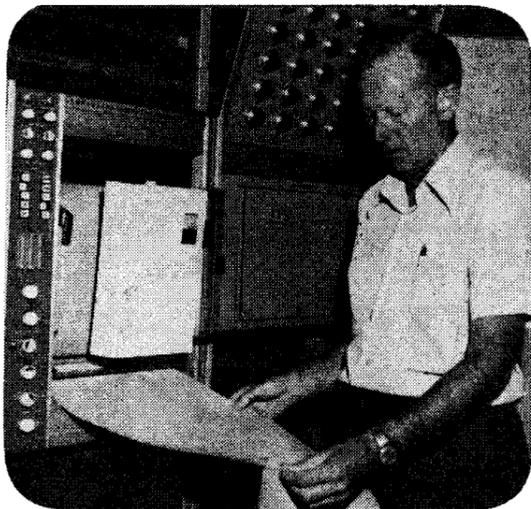
"We fired a motor out of a box about fifteen feet long," Reagon said. "As it came out of the box it pulled out ropes that were coiled inside and laid them over a wide area. The ropes, which carried charges, were supposed to set off any land mines that were present."

Reagon said the ropes were about two inches in diameter and "...it was a backbreaking job picking them up and stuffing them back into the box."

What weapon impresses him most among those he's helped test?

"I guess TOW is about the best, and most accurate weapon, up to now," Reagon said. "It's so mobile — it can be fired off almost anything."

"I sure wouldn't want to be in a tank and have a TOW missile carrying a warhead hit me," he said.



Gets Firing Data

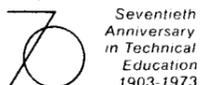
Dudley Winfrey checks one of the many pieces of telemetry equipment that monitors each firing test at the Missile Command.

Free Educational Conferences

Mr. Owen Cherry, Assistant Director of Admissions, Milwaukee School of Engineering, will be at the Sheraton Inn, West University Drive, Huntsville, Alabama, from 6:00 to 10:00 p.m., Friday, August 24, and from 12:00 noon to 10:00 p.m., Saturday, August 25, for free educational conferences with male and female military personnel from Redstone Arsenal.

The Milwaukee School of Engineering offers residence programs of study in engineering technology, engineering, and industrial management leading to Associate and Baccalaureate degrees. Senior college programs in engineering technology and industrial management for students who have two-year Associate degrees. Courses approved for veteran study. Financial aid available for student assistance. Nationwide placement for graduates.

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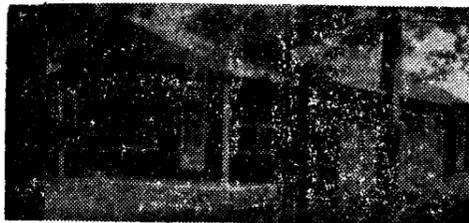
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McKinley Range Site Of EOD Training

Near the south end of Redstone Arsenal, Buxton Road winds its way through the Tennessee River bottomland, from Gate 2 westward just past the post Finance and Accounting Center, where it swings northward and is re-named Dodd Road.

On the north side of Buxton Road, less than a half-mile east of the F&A Center, stands the range building for the Missile and Munitions Center and School's McKinley Range. Its approach road is framed by a pair of 10-foot missiles pointing skyward.

But McKinley Range is not for firing missiles. Rather, it serves as a training area for Army Explosive Ordnance Disposal (EOD) units receiving their Operational Readiness Training Tests through the EOD Division at MMCS.

"The testing for each unit is usually on an annual basis, and includes conventional, chemical and unclear ordnance disposal techniques, technical intelligence and general subjects," according to Sergeant Major Clair R. Stairrett, ranking NCO of the EOD Division. The division chief is Lieutenant Colonel Gerald C. Pack, an EOD officer himself.

ASSIGNED TO MMCS

The range is named for Specialist 6 Paul B. McKinley, an EOD specialist killed in Vietnam by a command-detonated mine in 1967. McKinley originally from Cynthiana, Kentucky, was assigned to MMCS prior to his Vietnam tour. While here, he served at the range as an evaluator

and instructor.

In May of 1969, the one square mile range was dedicated in his memory.

Dispersed among the woods and meadows of the range stands a wide range of training aids for EOD field problems. Salvaged aircraft, military vehicles and equipment lend realism to the exercises. Occasionally, special training aids, sometimes operational equipment, is brought in to McKinley to provide a special challenge.

The range is maintained by four soldiers, with Sergeant First Class John R. Wolters in charge. Their work includes maintenance of roads, replicas of munitions and material storage areas, even keeping up a simulated airfield complete with crashed aircraft. The variety of terrain, vegetation and equipment combine to offer a wide range of environments for EOD training.

"We train and evaluate more than 40 classes a year," said Stairrett. "We operate on McKinley Range year 'round, except when it's flooded."

It was flooded when the Tennessee River crested at record levels this spring.

When an EOD unit goes to the range for training, a team of four or five men from the testing branch go along to keep score and evaluate performance. The whole test may include an overnight stay. Individual problems may last for several hours, and seldom include a dull moment.

On one recent exercise, an EOD team returned to the unit bivouac

area after spending the morning searching for an ordnance item carefully hidden somewhere on a Pershing missile and launcher. They had to check the whole system, including the portable power generators.

ON TIME

They found the item and rendered it safe within the allotted time, and returned to the bivouac area hot and sweaty.

Within minutes, the testing branch livened things up in the camp.

A few harmless tear gas and smoke grenades carefully lobbed just upwind of the unit simulated an enemy gas attack. The main body of the unit donned masks and dispersed with weapons. A few others masked and remained in the area to run tests and identify the agents used in the "attack," then sent reports to "higher headquarters."

Later in the day, a team was out again, working on another problem. When there are no units home, home on the range, the testing branch is still active, working on field problems for future use.

"Sometimes we set units up to run two or three missions simultaneously," said Stairrett. "We try to be creative and present new situations."

Master Sergeant Horace Coltraine and the other men of the testing branch may seem to be sticklers for detail and precision performance. They have to be. It's the little details that can make the difference between a sharp unit and a weak one. They can make the difference between an intact EOD specialist and one who has gone through what is euphemistically called, "the ultimate experience."

Open Air Classroom

Range F, formerly a testing site for EOD personnel, is now the outdoor campus for a portion of all the ammunition classes at the Missile and Munitions Center and School.

According to SFC Danny E. West, NCOIC of the range, "Our mission here is to teach the proper and safe way to set up charges for demolition work. In explosive disposal, there is no safe short cut, each step must be taken with caution and complete concentration."

His point is further emphasized by a mock grave near the range entrance which grimly underscores the need for caution in handling explosives. Students passing the macabre display are highly motivated to pay close attention to the instructors.

Sergeant West and his three assistants conduct three classes a week, with each class normally consisting of 11 men. He feels that this is the maximum amount of students who can effectively be taught at one time with the available personnel. The brief course lasts about five hours.

The opening introduction to the course is a "wake-up" blast prearranged down-range. This blast also motivates the students to pay close attention to the instructors.

In the introductory phase the students are cautioned on the dangers of the items they will be handling. A dummy charge,

usually wooden blocks, is used in this phase. Using the block of wood, students are shown how to place the cap on the fuse and how to insert the cap into the explosive. Once this has been accomplished the students are then shown how to set up the explosive for electrical and non-electrical firing.

Further instructions are given on how to set off a simultaneous explosion by using a ring main. This consists of a long explosive cord with branch lines leading to other explosives.

Once the students have mastered all phases of setting up the dummy charges, they then set up and detonate an actual charge.

During the course of instruction all phases of safety are strictly adhered to with an ambulance always standing by.

Sergeant West explained that the course of instruction did not make the students demolition experts, but was only to familiarize them with the procedures for emergency destruction of supplies.

Girls Scouts

Girls, ages 7 through 17 interested in joining Redstone Arsenal Girl Scouts, should call Mrs. David Russell at 837-5451, or Mrs. James Hall at 837-0417. Adult volunteers are needed to assist with the Girl Scout program.



AUCTION

INVENTORY REDUCTION

SALE

SAT., AUG. 18 — STARTS 10 A.M.

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INVENTORY REDUCTION SALE —

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- 1971 50 HP Evinrude S/N 01818
- 3 HP Johnson
- 1958 7 1/2 HP Evinrude w/gas tank
- 1963 40 HP Gale
- 1970 115 HP Mercury
- 1960 40 HP Evinrude
- 1958 35 HP Evinrude
- 1961 12 HP West Bend
- 1967 40 HP Evinrude
- 40 HP Scott
- 1959 70 HP Mark 78 Mercury
- 1972 55 HP Chrysler
- 1973 50 HP Evinrude w/power tilt
- 1969 55 HP Johnson
- 1962 70 HP Mercury
- 1969 20 HP Mercury

BOATS

- 1965 14' Sea King Fiberglass
- 1967 DUO w/ 160 HP Mercury
- 1970 Glasspar Seafair Sedan
- 1971 Larson 186
- 1971 Silverline 15' 10-90 OMC
- 1969 DUO
- 1960 16' Crestliner
- 1965 15' Sears 16' Yellow Jacket
- 1959 Whitehouse
- 1969 15' Cobia
- 1960 15' Sea King
- 1973 14' Arrowglass
- 1972 Glasspar 15 TW
- 1969 14' Colombia 16' Lyman
- 1972 14' Owachita
- 1973 Sea King 14' Jon Boat

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ISA Advances MICOM Engineer

Robert B. Smock, Chief of the Physical Standards Branch, Army Metrology and Calibration Center, has been advanced to the grade of Society Fellow in the Instruments Society of America (ISA).

He was officially notified of the honor recently by the president of ISA and has been invited to attend the Honors and Awards Luncheon Oct. 16, in Houston, Texas during the Society's International Conference and Exhibit.



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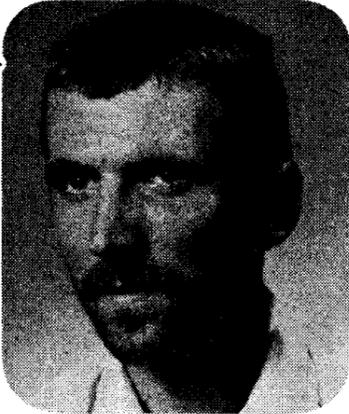
Chuckwagon Stew And All

"Where the deer and the antelope play."

Frank Parks was there. He has returned with a backpack of memorable experiences from his 11-day home on the range.

Equipped with four eager boy scouts and a station wagon full of camping gear, Parks took off from his job in the supply publications division of the Directorate for Maintenance and headed for the vast mountain country of the Philmont Boy Scout Ranch in northeastern New Mexico.

His involvement with scouting began with his membership in Elks Lodge 1648. He is presently serving as chaplain. The lodge sponsors Boy Scout Troop 112 and before he knew it, Parks was the assistant scoutmaster.



FRANK PARKS

When he heard that an adult supervisor was needed to accompany four scouts from Troop 7 to the Philmont Ranch, 27-year old Parks stepped forward. And the group headed west.

The ranch land covers an area of 147,000 acres and was donated to the Boy Scouts of America. The 35th anniversary of the ranch was celebrated this year.

From 10,000 to 15,000 boy scouts and advisors visit the ranch each year. The scouts pay their own expenses.

Upon their arrival, the group was processed in and given an orientation to the programs available. Each group is given a planned itinerary to follow during their stay.

James N. Weldon

James N. Weldon, the Missile Command's realty specialist, died Aug. 9 in the Athens-Limestone Hospital following a short illness.

He would have been 63 years old on Aug. 20.

Mr. Weldon came to Redstone Arsenal from the Department of Agriculture 17 years ago. He had 37 years of federal service.

Services were held at the First Methodist Church in Athens. Burial was at Dadeville, Alabama.

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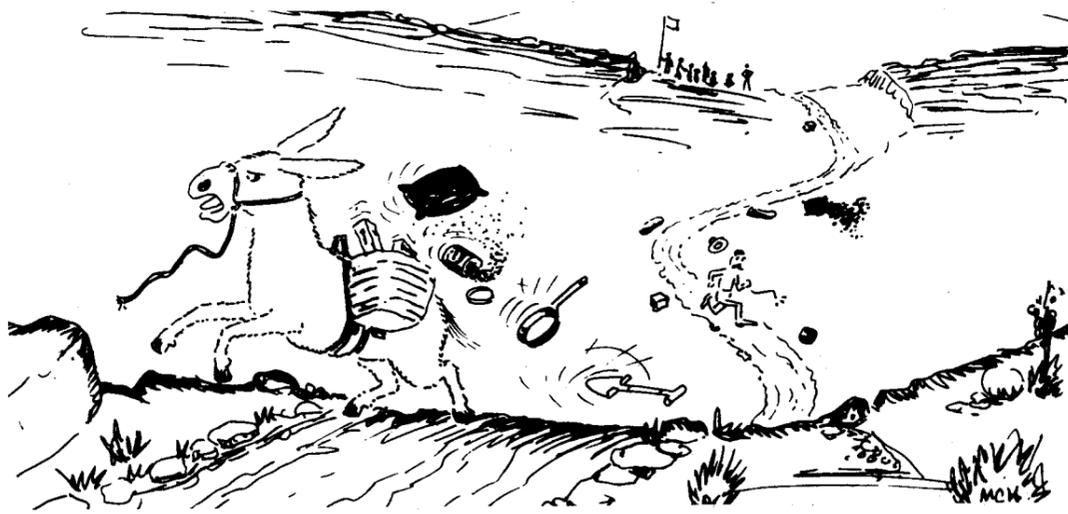
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Parks and his scouts backpacked, hiked and camped during their 11 days on the range and covered a trail 80 miles long. Along the trail, they stopped to visit camps set up to provide experiences in a variety of subjects.

There are 22 staffed camps and 70 non-staffed camps on the ranch.

Some of the programs offered were burro packing, horseback riding and rifle shooting.

"The boys got to load and fire the old muzzle loader rifles," commented Parks, "but their favorite stop was at the old gold mines.

Until 1938, gold mines were in full operation on the ranch and we

toured the old mines. The boys actually panned for gold in the mountain streams and talked with staff members who were dressed like the old-timers who worked the mines."

The group was introduced to Indian lore and the making of totem poles which was taught by

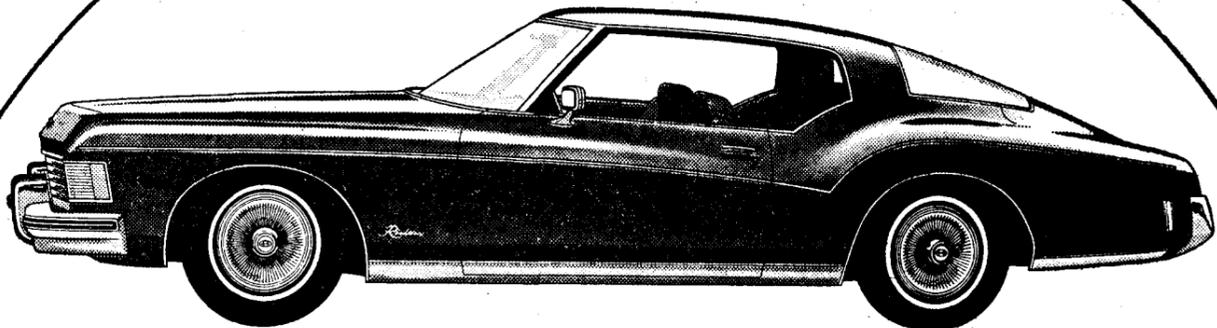
two West Africans. They also experienced the art of chuckwagon cooking and ate "chuckwagon stew."

There were few moments of excitement during the trip that the crew hadn't counted on. It seems that a burro named Clyde was obtained for two days to carry supplies. All was going well until Clyde decided that he wanted to take a different trail and ran off with his pack including all of the food. The members tracked the burro by following a trail strewn with their tents, food and cooking utensils. Clyde was grazing in a field of sweet clover.

According to Parks the trip was a big success. "We had to purify our water with iodine tablets and we ate freeze dried and dehydrated foods. The boys gained a lot of insight into life in the great outdoors."

On the last day at Philmont, Parks and each of the scouts received the Philmont Patch, awarded for completion of the trail. They also carried home a plaque they cherish. It reads, "We All Made It."

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Reserve Training Eased For Women

The Army recently announced a new program for women, between the ages of 18 and 34, who are eligible to join the Army Reserve.

Previously a woman had to attend eight weeks of basic training and several weeks of advanced training in order to become a member of the Reserve. The new program allows a qualified woman to join a local unit and attend two weeks of training at Ft. McClellan and then complete the necessary training at the local Reserve Center.

There are many excellent

benefits available to members of the Army Reserves. These include \$15,000 life insurance, excellent pay, post exchange benefits during training, educational opportunities, and a retirement program separate from any other government retirement.

Civil Service employees get 15 days paid military leave per year in addition to their accrued annual leave.

Women interested in the Army Reserve may call 876-2715 or 881-3102, Monday thru Friday, or come by the USAR Center at 3506 South Memorial Parkway.

Nomination Deadline Near

Nominations of Army civilian employees for the University of Oklahoma advanced programs and the bachelor of liberal studies program should be forwarded to the Training and Development branch of the MICOM Civilian Personnel division by August 24, according to an announcement distributed recently.

The bachelor of liberal studies

program offers employees an opportunity to pursue a college education leading to a degree, and the advanced studies program is designed for students to complete requirements for a masters degree.

Individuals should contact their supervisors for more information about the programs.

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1973 CHRYSLER NEW YORKER 4 DOOR SEDAN



6 way power bench seat (vinyl), torqueflite transmission, 440 CID V-8 engine, tinted glass, air conditioned, AM radio, vinyl roof, body side paint stripes, whitewall tires, deluxe wheel covers, power steering, power disc brakes.

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ON BOB WALLACE JUST OFF THE PARKWAY

Weekend

(Continued from p. 4)

units being phased out transmit only 12. The radio carriers also handle teletype communications. Black interrupted his college work to join. He says:

"I saw it as a chance to fulfil my military obligation and go the college at the same time, a chance to do one without sacrificing the other. I regret not joining earlier, say out of high school, then I would have been 24 and had it all behind me."

The men from Arab, Company D, know how to get the job done, Black continued. "Since I've been going to camp — four times — our unit has been the only one in the battalion with the ability to get the job done — at least we feel like we are. It's funny how every year we seem to get the mission (setting up the camp's communication network) and the other guys just sit on their can."

Farris had just married when he joined and delayed his basic training until he finished college. At Company D he works in the supply room.

Of the National Guard, Farris offered: "I think Larry (Black) and I both can say we feel we're fulfilling a real need. There have been instances where units were called up, and if this happened to us (Company D) I think we could function as a well-qualified unit in the area of communication."

"I think everyone in Arab can appreciate our unit because it represents the area and its backgrounds and occupations," he continued, concluding, "I think it's good that we have a representative group."

NATIONAL GUARD

Soldiers' Pay

"Soldiers' Pay" some may remember as the title of a Falkner novel published between the World Wars when soldiers' pay wasn't much of a living.

The story's changed of course, even for civilian-soldiers in the National Guard. Here's what some Arab Guard members mentioned elsewhere in the Rocket have to say on the subject.

Hunt, asked if the money comes in handy, replied: "It does, I mean it does. Right now I'm buying property with it — I've bought two pieces and use the Guard checks to make the payments." His Guard pay is about \$1700 a year.

Black gets a check for \$61 every month. He puts it away "for a rainy day."

Farris makes \$55 a month. He's "saving to buy a house real soon."

Yates, who realizes about \$2500 a year as a Guard member, sees better pay and benefits as a key recruiting factor, especially in view of the draft's being eliminated. "Prior servicemen are joining," he said, "and a lot of Guard members who get out are staying out six months or a year and then coming back in."

In a new development, PX privileges have been given to guardsmen in a drill status. Arab members may buy gasoline and some other items locally, or may shop a much wider offering at the Redstone PX.

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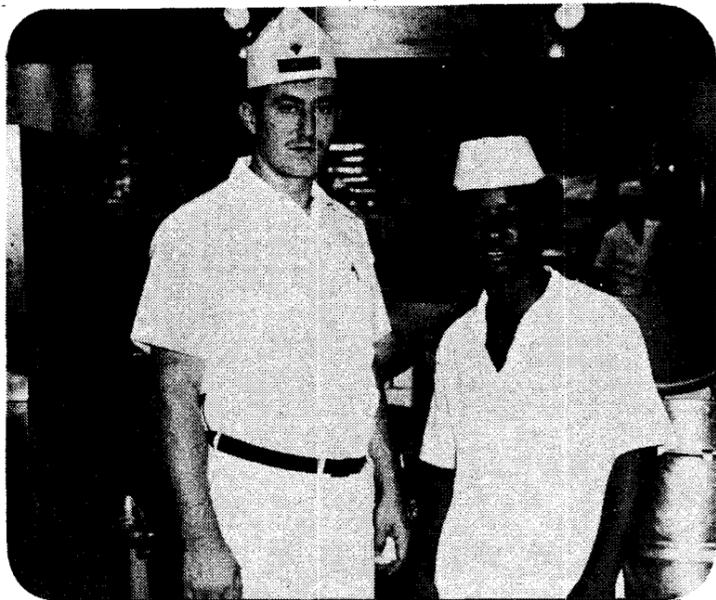
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COOL OUTFITS — Specialist Six Kenneth Lambert, left, shift leader, and Kitchen Police Horace Drake, compare the old and new white uniforms. Lambert is wearing the new lightweight wash and wear uniforms and Drake is wearing the older heavier whites. Use of the new uniform is saving the Army \$5,000 per year at Redstone.

Cooler, Neater — Cost Less Too

They look better and cost less — that's the best description of the new wash and wear white uniforms now being worn by the cooks in the Army Missile Command Consolidated Dining Hall.

According to Chief Warrant Three R.L. Roote, Post Food Advisor, "The old Army issue whites were heavy and uncomfortable for the cooks to wear. Many times the cooks would get hot and take their jackets off and this crated some uniform problems. Since Redstone has no post laundry service and we had to contract the whites out at the rate of 75 cents per set, we decided to run a survey on the cost of lighter weight wash and wear uniforms.

"We found we could rent the newer wash and wear uniforms at a rate that resulted in savings of \$5,000 per year and also provide a neater and more comfortable uniform for our cooks."

The new lighter weight short sleeve shirts and matching pants provide greater comfort and freedom of movement for the cooks who spend most of their time over the hot stoves and ovens preparing the meals.

Sergeant First Class J.B. Deason, Mess Steward, added this comment: "We aren't discarding the old uniforms, the Kitchen Police are using them now and as they wear out we are going to replace them with the newer uniforms."

Whatever the reasons, the cooks are keeping cooler, looking neater and at less cost to the Army.

Soldiers Thank

Amid the bustle of activity at Redstone there sometimes crops up a word, an expression or a feeling that reminds us we are still human beings and can be proud of it.

One group of soldiers wished to express their feelings and did so by means of a letter they wanted to run in the Rocket as an ad. It costs too much.

The letter was a public thank you to Jan Osthus, Director of the Multicrafts Center who has won a special place in the hearts of each of these young men.

A home away from home is still something to be treasured and the soldiers wanted the crafts center director to know of their appreciation for her hospitality and caring attitude.

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THURSDAY-FRIDAY

"Fists of Fury" (R)

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FRIDAY (Late Show)

"Dirty Dingus Magre" (PG)

Showing at 11:00 p.m.

SATURDAY

"Molly and Lawless John" (PG)

SUNDAY-MONDAY

"Soylent Green" (PG)

INCREASED ADMISSION: adults 75c, children 35c

TUESDAY

"A Reflection of Fear" (PG)

Two shows nightly at 6:00 and 8:30 p.m.

Sunday matinee at 2:30 p.m.

Bond Buying In Decline

The Redstone Arsenal Savings Bond participation rate has dropped several points in 1973 in comparison to the percentage posted in 1972.

This savings bond program covers personnel assigned to the Army Missile Command, Safeguard, the Missile Munitions Center and School and the U.S. Military Hospital.

Last year's overall participation rate was 89.4 percent as opposed to the 87.6 percent posted as of August 7, 1973.

According to Harold Jacobs, Bond Drive Coordinator, "The decline was due to a change in the reporting system rather than a drop in bond sales. In the past we relied on the military units to

report an estimate of their bond sales participation — this meant that some of the personnel who planned to get bonds shipped out before the paperwork was concluded and such actions resulted in an inaccurate estimate.

"Effective this year, I am getting a machine printout from the Army Finance Center listing all military personnel who have actually signed up for bonds. We get a printout on civilians participating in the program from our computers here at Redstone," Jacobs continued.

"Figures received earlier this month indicate that of the 10,190 civilian employees covered by the Redstone Bond Program, 8,492 have allotments for bonds. Of the

3,604 military personnel covered by the program, 2,297 have bond allotments," Jacobs concluded.

Lieutenant Colonel Herbert M. Wagenheim, Finance and Accounting Officer, made this appeal: "We want to keep our savings bond program active and healthy. Personnel who are not buying bonds at the present time can enter the program by contacting their immediate supervisor or commanding officer. Bond allotments can be processed right away and it is a good way to save money. We have personnel ready to help anyone interested in the bond program," Wagenheim said.

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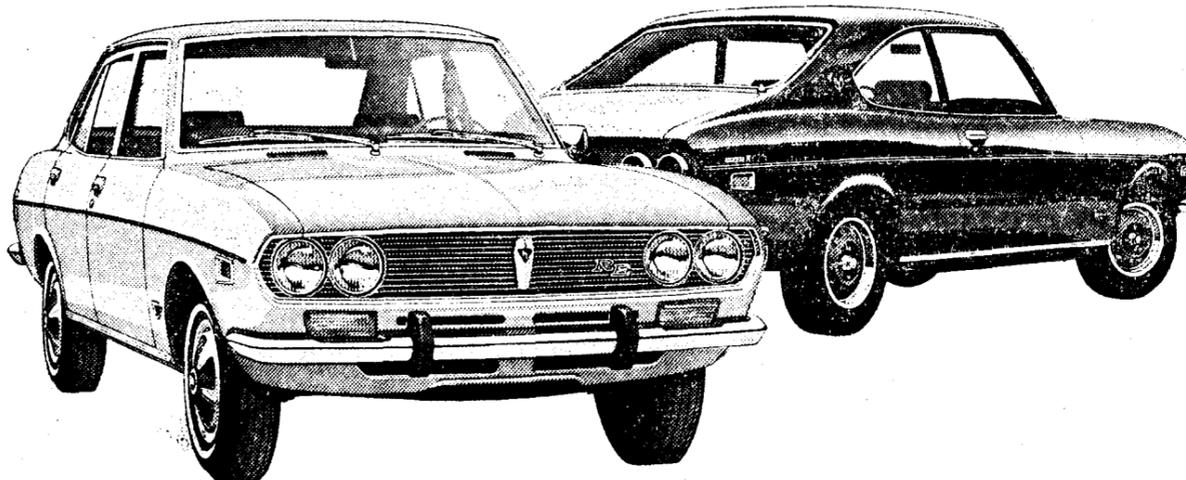
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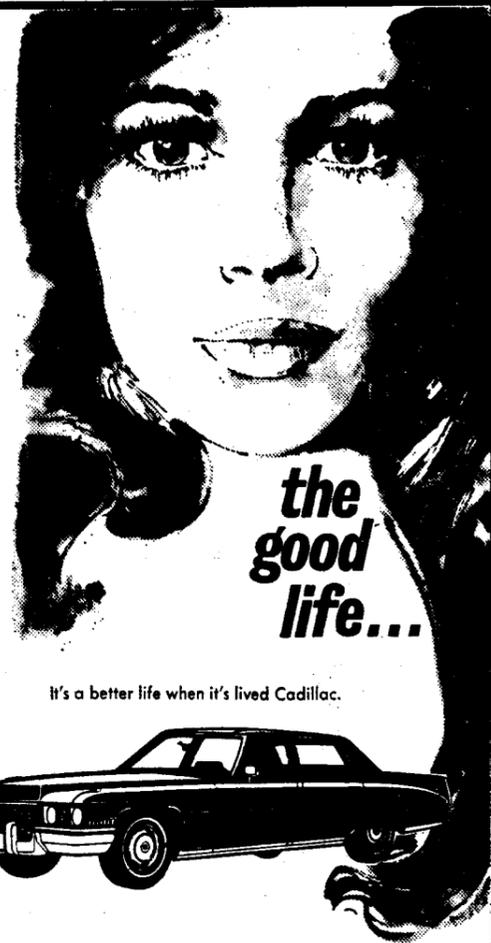
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| 1970 ELECTRA 225 COUPE
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Jet black. 6 cyl., 3 speed. Radio, rally wheels, air conditioned. 12,000 miles. Gas saver. No. 852A | \$2,295 |
| 1972 CHEV. NOVA WAGON
Bronze with brown leather interior. 6 passenger. Power steering and brakes, factory air. No. 929B | \$2,695 | 1973 MAZDA RX2
Alexandra gold with orange interior. Factory air, AM/FM radio, automatic, luggage rack | \$3,695 |
| 1971 CADILLAC CALAIS COUPE
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Station Wagon, 9 Passenger | 1971 CORVETTE
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| 1973 GRAND PRIX
(By Pontiac), 2 door hardtop | 1971 TORINO (BY FORD)
2 door hardtop |
| 1973 BUICK ELECTRA 225 CUSTOM LIMITED
4 door hardtop | 1971 CHEVROLET ½ TON
Pickup truck |
| 1973 VEGA HATCHBACK
3,000 miles | 1970 CADILLAC SEDAN DeVILLE
4 door hardtop |
| 1973 DATSUN
2 door | 1970 DODGE CORONET
2 door hardtop |
| 1972 CHEVROLET KINGSWOOD ESTATE
9 passenger station wagon | 1970 MERCURY MONTEREY
4 door |
| 1972 PINTO (BY FORD)
2 door | 1970 BUICK ELECTRA 225
Custom Limited, 4 door hardtop |
| 1972 GRAND PRIX (BY PONTIAC)
2 door hardtop | 1970 GRAND PRIX
2 door hardtop |
| 1972 CHEVY II NOVA
2200 miles | 1970 MAVERICK
2 door |
| 1972 MARK IV CONTINENTAL
(BY LINCOLN) | 1970 LeMANS (BY PONTIAC)
2 door hardtop |
| 1972 BUICK LeSABRE
4 door hardtop | 1970 BUICK ELECTRA CUSTOM
2 door hardtop |
| 1972 LeMANS (BY PONTIAC)
2 door hardtop | 1969 EL CAMINO
Truck |
| 1972 DODGE DART SWINGER
2 door hardtop | 1969 GRAND PRIX
2 door hardtop |
| 1972 FIREBIRD (BY PONTIAC)
2 door hardtop | 1969 COUGAR (BY MERCURY)
2 door hardtop |
| 1972 CHEVROLET CAPRICE
4 door hardtop | 1969 BUICK WILDCAT
4 door hardtop |
| 1972 DATSUN 240Z | 1969 CHEVROLET IMPALA
4 door hardtop |
| 1971 MERCURY COLONY PARK
Station Wagon, 10 passenger | 1969 CHEVY CAPRICE
2 door hardtop |
| 1971 BUICK ELECTRA 225 CUSTOM
4 door hardtop | 1968 MUSTANG
Convertible |
| 1971 CHEVROLET IMPALA
4 door hardtop | 1968 BUICK ELECTRA 225 CUSTOM
2 door hardtop |
| 1971 FORD COUNTRY SQUIRE
LTD station wagon, 10 passenger | 1968 OLDSMOBILE CUTLASS
4 door |
| 1971 GRAND PRIX (BY PONTIAC)
2 door hardtop | 1968 BUICK LeSABRE
4 door hardtop |
| 1971 CHEVROLET KINGSWOOD ESTATE
Station Wagon, 9 passenger | 1968 FORD COUNTRY SEDAN
Station Wagon, 10 passenger |
| 1971 COMET
2 door | 1968 CADILLAC SEDAN DeVILLE
4 door hardtop |
| 1971 COUGAR XR7
2 door hardtop | 1968 BUICK ELECTRA 225
4 door hardtop |
| 1971 CHEVELLE MALIBU
2 door hardtop | 1968 CADILLAC COUPE DeVILLE
2 door hardtop |

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