SHOTPOINTS

Vol. 3, No. 4 May 1983

Two-boat technique used near rigs on 3D job

By GREG PORTER

"Hell-o, Craig (Griffin)! How ya doing? This is Greg Porter."

"Yeah, hi, Greg. Be in Port Hueneme, California, on Dec. 20. Oh, by the way, how do you like Canadians?"

A leading question if I've ever heard one! So it's off to sunny California and the M/V *Edward O. Vetter*, a boat with a reputation for collecting high quality data. I would be the only American there, except for Jim Shea, the party manager, who was getting off for accumulated time off (ATO).

Well, the taxi pulled up to the boat, and some of the *Vetter's* crew were standing around just staring at me! I could read their lips — that must be the Yankee! Then I saw a familiar face and calmed right down — almost, anyway.

"Hi, Dennis."

"Hi ya, Trash Can" (a nickname I could definitely do without). Dennis Chorneyko and I had worked together on the M/V *Cecil H. Green II* for almost a year, and I was glad to see someone I knew.

Dennis started introducing me to everyone, and I realized it was rather foolish to be as nervous as I was. The men I met and worked with were no different than any of the other crews I've worked with. They all work hard, play hard and are very concerned with collecting quality data.

This past year the *Vetter* collected data farther north than any other seismic vessel in the Chukchi Sea off Alaska. Then it was off to southern California and a sizeable 3D job.

One major problem the *Vetter* encountered in the 3D program off Santa Barbara was that there were six rigs on the prospect. This did not, however, deter our shooting, for we

Continued, next page

John Brockett named ESD manager

John Brockett

John Brockett, formerly Processing Services manager, is now Exploration Systems Division manager, replacing Doss Dunlop who is leaving the company. Bernie Hurwich replaces John as Processing Services manager.

"The Exploration Systems organization develops and disseminates all the new systems that perform in the field. In developing the new systems, integrating GSI's quality concepts into the organization is the first order of business. I am looking forward to the challenge," John said.

John has been involved in software and hardware development and operations since he joined GSI June 9, 1969, in Dallas. His job progression has included being project leader for developing file and catalog management software; ASC* software integration manager in Austin and Amstelveen, Holland; Austin

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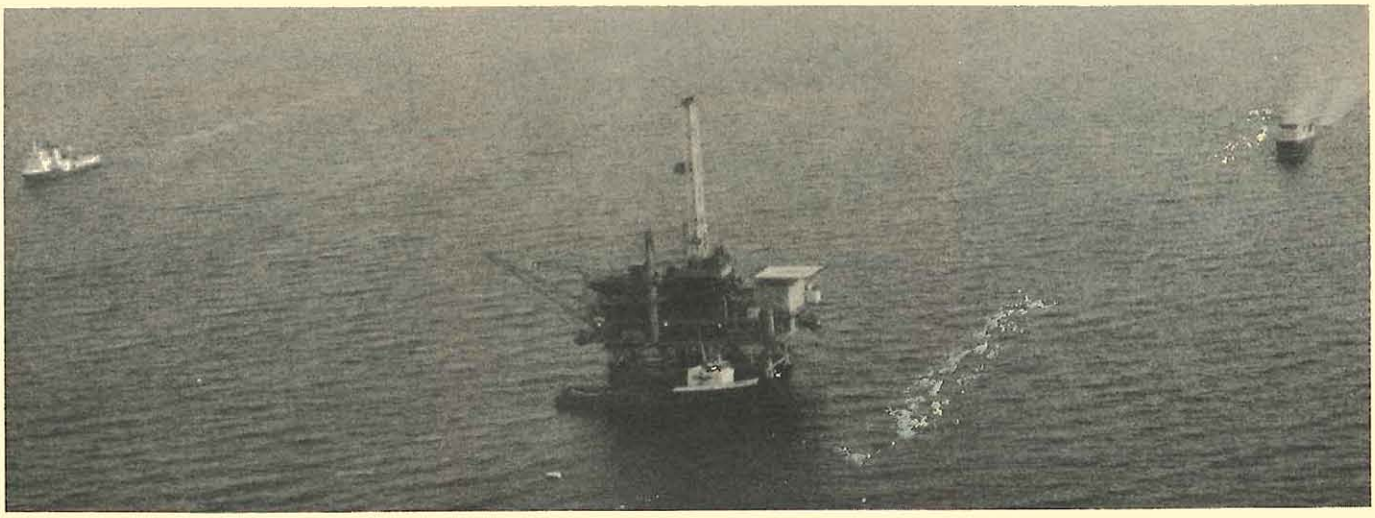
INSIDE

Aerial photo by Craig Griffin shows the M/V Vetter *and the M/V* Green II *in 2-boat undershoot in vicinity of rig during 3D program off Santa Barbara, California.*



Two-boat technique

were to employ GSI's latest shooting technology, the 2-boat undershoot. To do this meant we had to shoot as many lines as we could between the rigs without trying to move them.

We did, however, try to move a rig off point Conception, but our streamer was not strong enough — thus ending that streamer's seismic duty. May it rest in peace.

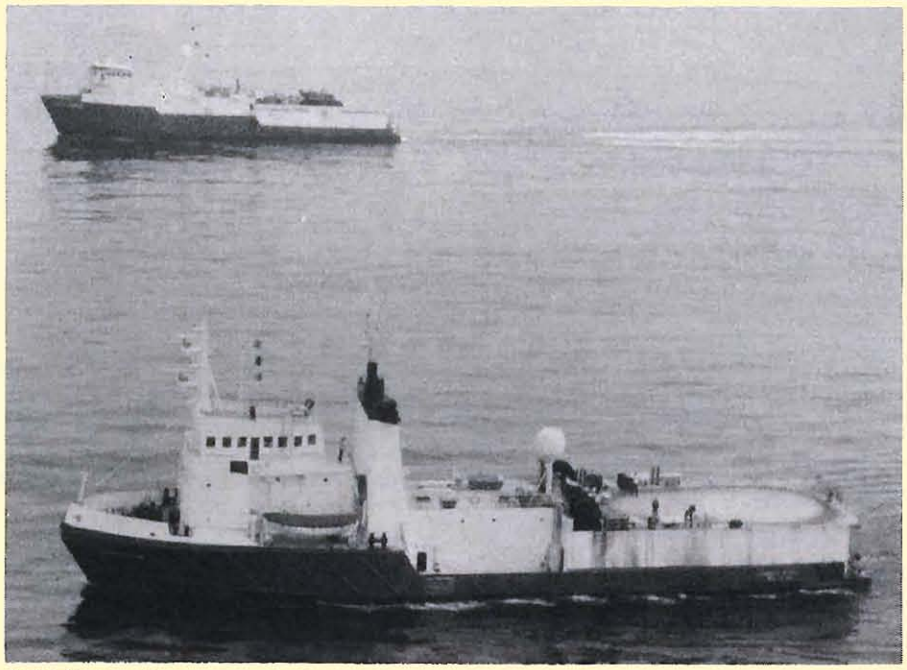
After many trying moments we finally shot as many lines as we dared without putting the cable in too much danger, missing the rigs as much as 40 feet sometimes. But I was told that Canadian crews are used to dodging ice, so it was a piece of cake, eh!

"Eh," by the way, is an expression used by all Canadians for effect. It is almost always used at the end of each sentence, eh, and sounds like you are just saying the letter "A," eh!

Now enter the M/V *Cecil H. Green II,* as it was time to start the 2-boat undershoot. After installation of equipment on both boats several test lines were done, and initially there were lots of problems. Now everything is working smoothly.

On most lines the two boats stay 500 meters apart. A line number for the 2-boat shoot reads like this: 161173167. Translated, this means the *Vetter* is on line 161, the *Green II* is on line 173 and collecting data on line 167.

Basically the 2-boat shoot works like this: A wire blast signal is sent from the recording boat via radio to the TIGER** system on the shooting boat. The TIGER in the shooting boat then returns a field time break via radio to the system coordinator in the recording boat, and so on.



M/V Vetter *(foreground) is recording boat and M/V* Green *is shooting boat.*

I'm sure processing, among others, are waiting in anticipation for the 2-boat data, as this will open new territories for GSI.

M/V *Vetter* personnel:

On the beach: Frank Locascio, operations supervisor; Craig Griffin, administrator.

Seismic crew: Jim Shea, party manager; Richard Jenkins, systems engineer; Mike Bernard, Dave Johnston, Terry Knox, Greg Porter, Pat LeBlanc, Wade Williams, Jerry Wakimoto, Al Hatchard, R. Morais, John McClosky, M. Duic, systems operators; Les Maier, mechanical supervisor; Bob Tuff, Keith Johnson, Dennis Chorneyko, Don McKerlie, compressor mechanics; Don Roy, Kirk Kean, Doug Whitechurch, airgun mechanics; Paul Hadfield, Rick Burgoyne, survey operators.

Ship's crew: Walter Marlow, captain; Don Creighton, first mate; Merrill Ringer, bosun; David Butler, Paul Mathiesen, seamen; Gabriel Quellett, chief engineer; David Porter, Harry Ferguson, second engineers; George St. Louis, oiler; Steve MacDonnell, chief cook, Gord Henderson, second cook; Daryl Cote, Garth Guttormson, messmen.

3D operational support: Frank Zurek.

Seal on anchor buoy for drilling platform stands guard over tail buoy of Vetter's *cable (which was wrapped around anchor buoy).*

Shotpoints

Dot Adler	Editor in Chief
Kelly Long	Land Editor
Sue Hood	Processing Editor
Dot Adler	Marine Editor
Pat Patterson	Staff Editor

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John Brockett

Continued

seismic center software and hardware support manager and Austin seismic center manager. He has been Processing Services manager since February 1978.

Evolving a management style that is both goal-oriented and concerned with development of his people, has been John's biggest career accomplishment, he feels."Involving people in setting goals for the organization and themselves, and constantly testing and re-evaluating these goals, enhances both the organization and its personnel," John said. "With this kind of involvement there is a steady improvement in quality, productivity, cost-effectiveness and job satisfaction."

John is an Iowa native and has a bachelor of science degree in mathematics and a master of science degree in computer science from Iowa State University.

LAND NEWS

New crew operating in India

By JOHN GUENTHER

GSI Land is now operating a new crew in India. Party 1822, under party manager Rod Gilbert started experimental shooting in mid-April.

The 96-trace, portable crew is operating with a few peculiar wrinkles. The base camp is located in Amalapuram, about 450 kilometers north of Madras along India's east coast. The crew is shooting in the Godavari Basin, a major portion of which is offshore. We get the onshore edge in the river Delta. The area is flat and covered with crops and Indians.

When the monsoon rains run us out (July-Sept.), we will move south of Madras about 200 kilometers into the Cauvery Basin, then back again.

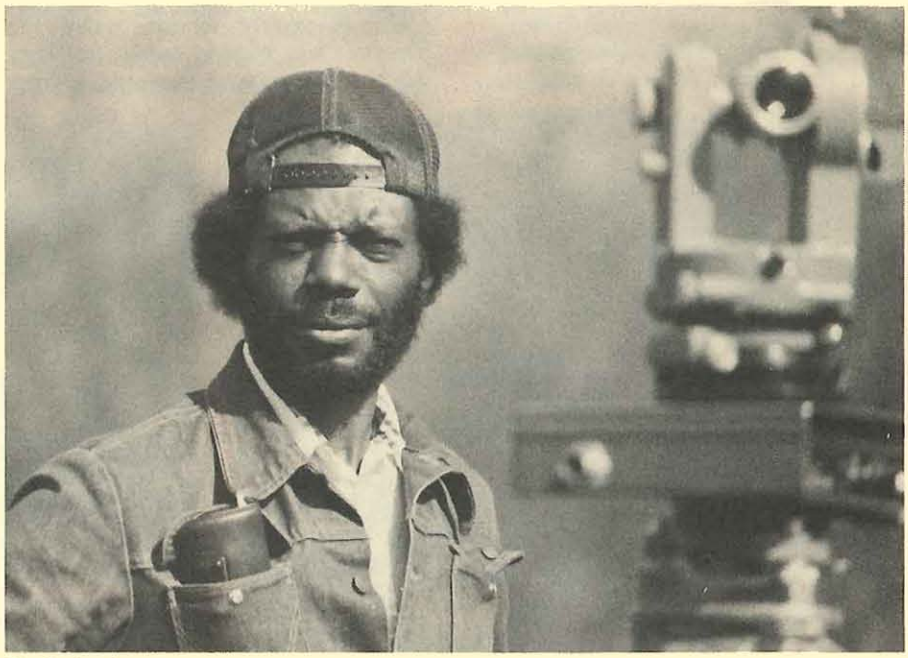
M/V Arctic Seal *is Land vessel*

One of GSI's leased vessels, the M/V *Arctic Seal*, is now a part of the Land Division shallow water operation in the Gulf of Mexico.

Since Dec. 5, 1982, the *Arctic Seal* has been under the supervision of Kit Carson. It is currently shooting some Texas well tie-lines in the Gulf but participated in a two boat shoot with the M/V *Ross Seal* earlier (see this month's Marine section for that story).

Fred Rix, formerly of the M/V *State Falcon* is head instrument engineer. Many crew members from the *State Falcon* now man the *Arctic Seal*, working a 14/28 schedule.

Party 1215



P. J. Jackson

Crew doodlebugs around Southwest

By KELLY LONG

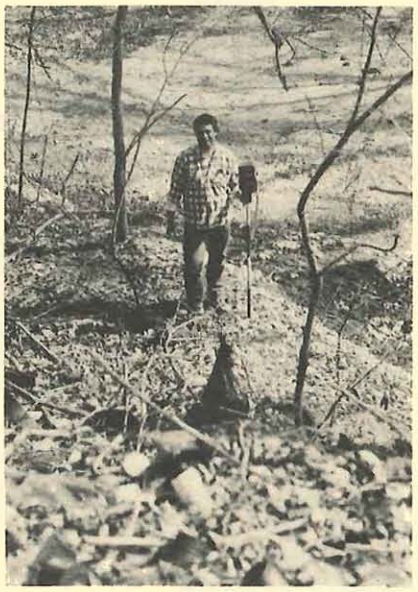
Party 1215 waited a month in Gainesville, Texas for the rain to stop before they could start their current detailed work on several lines just across the Oklahoma border.

This doghouse was just installed with an Automatic Data Logger, (ADL), which will make manual logging a practice of the past. The ADL is currently being tested and debugged by GSI engineers and field service personnel.

Party 1215 is based in Big Spring, Texas and is party managed by Larry Vigar and supervised by Bob Nebel. "All our key personnel have been around a while," Larry said. All have over 15 years with GSI and several are approaching their 25th year. "A highly experienced crew is the number one thing," he said.

The crew has a history of steady work for one client, and not much turnover, even on the jug lines. They work a 10 and 4 schedule when work is that predictable. Most members return to the Big Spring/Pecos area where wives and families are settled.

The crew's main problem, besides weather, has been to keep distance between the vibrators and the catfish ponds.



Gerardo Lopez

Continued, page 4

Party 1215

Continued

Crew members include: Larry Vigar, party manager; Scott Horsburgh, assistant party manager; Louis Daniels, permit man; Harold Young, Ruben Dominguez, instrument engineers; Gregorio Valeriano, head linesman; Angel Bustillos, Reyes Carrasco, Profirio Lopez, Heriberto Quiatana, Jose Garcia, Jesus Medrano, Phillip Blackwelder, Santo Eustacio, Juan Carrasco, Vicente Maldonado, Jesus Chacon, Guadalupe Bustamante, jug line; Felix Mata, mechanic, Aurelio Lopez, Pablo Renteria, Carlos Arenivas, Louie Rodriguez, vibrator operators; Darvin Lane, second mechanic; Tom Jackson, second surveyor; Gerardo Lopez, Pedro Vasques, surveyor helpers.

Editor's note: My thanks to Larry and his crew for their hospitality and cooperation. Thanks also to Land engineering personnel Bob Walsh, R. J. Balusek, Amer Soufan, and Marshall Romberg who, without complaint, shared the doghouse with us while they worked on the ADL.

Louie Rodriguez, Felix Mata, Carlos Arenivas, Pablo Renteria.

Some of 1215's personnel: Joe Garcia, Porfirio Lopez, Juan Carrasco, Guadalupe Bustamante, Phillip Blackwelder, Arilio Lopez, Jesus Chacon and Darvin Lane.

Party 1215 PM: Larry Vigar

Larry Vigar is an ex-Marine who had a choice between working for Texas Instruments at the main site or working for GSI way back in 1968.

After a three-year stint in the Marines, five months of which he spent recovering from being in a truck that drove over a land mine in Vietnam, Larry's brother-in-law, an engineer at TI-Sherman, sent him a TI job application.

"I filled it out and sent it in," Larry recalls. "When I went to Dallas to interview, it turned out I had a choice of working for Texas Instruments or for GSI. I chose the job where I would work outside."

That was 15 years ago. Today, Larry is party manager of 1215, and still says he did the right thing. He started as an instrument engineer trainee, but became an instrument engineer in 1970 on Party 1208. He was instrument engineer on two other crews, 1205 and 1222 before becoming party manager of 1215 in August 1980.

Larry Vigar

Larry's crew usually stays in West Texas and New Mexico, close to his wife and three children in Pecos, TX. Larry has two boys, 15 and 12, and a daughter, 6.

He was born in Ohio, but his family moved to Texas when he was a year and a half old, so he considers himself a Texan. "It's where I grew up, so it's the place I know," Larry says.

Jesus Chacon

Harold Young

New X3 vibrator working well on several crews

Several Land crews in the Rocky Mts. and Alaska are reporting success with GSI's newest generation vibrator, the X3. One client described data results as "the best we've ever gotten on the Slope".

The first X3's were made last October when TR3's were refitted with new masses, high response valves and new baseplates. According to Dick Weber of Land Engineering, who helped design and develop the X3, the system is cost efficient to build, allows crews to make fewer sweeps per shotpoints and results in higher resolution data. Current market trends indicate that the larger, higher resolution vibrators are the energy source of the future.

Upgrading existing vibrators to X3 configuration involves bolting parts on; no cutting or welding is necessary. Maintenance and repair on the system is in some ways simpler than on older model vibrators and requires little supplemental training, Dick said.

Hardware for more X3's is on order and should be available within the month.

Some of the men who fitted the first X3 vibrators in Limon, Col.: Mike Houston, Steve Foster, Willie Tullos, Dick Weber, Mike Wallace, Dave Smith.

Ray Hall, Joe Rockefeller, Willie Tullos work on X3's which were converted from TR4s.

Oman TIMAP* IV installation, deployment goes smoothly

Mike Wise, Andy Coyle-Larner, George Sutterley, Terry Denning, Russell Miles, and Phil Andrews with Omani operator.

George Sutterly makes new friend.

By MARTIN HUNT

The first TIMAP IV to be deployed in a client service center is running smoothly in Oman.

Many people made its deployment and installation a success. Accompanying the machine on its flight from Dallas to Oman via Luxembourg were David Chambers and Phil Andrews.

Terry Denning, mobilization manager, ensured a speedy passage through customs so the TIMAP cleared the same day it arrived at Seeb airport.

Oman processing personnel helped uncrate the hardware and despite a small shower, (yes, even in Oman) the TIMAP IV was located on the computer floor that evening.

Phil, David and Steve Evans, of Oman hardware, installed and checked the equipment. Meanwhile a series of training lectures for Omani operators was given by Russel Miles of Dallas. The course extended to users for an overview of the system. TIPEX training was given by Clive Gerrard visiting from Bedford.

Continuing on-the-job training for operators is being conducted by GSI operations personnel, Mike Whitehead, Noel Cox and Billy de Jacimo.

Deployment team members were Dave Halbe and George Sutterly. They were joined some time into the project by Bill Moore. Mike Wise of Dallas gave TIPEX support and Francisco Monteiro from Croydon gave O/S support. The hardware configuration in Oman supports multiple jobs with dot raster display capability.

J.Y. Douglas' career spent 'on-call'

J. Y. Douglas

When J. Y. Douglas graduated from high school in Kemp, Texas, he came to Dallas looking for a job. When he interviewed with GSI, Erik Jonsson told him he'd have a job, if he got a college education. So that's what J. Y. did or tried to do.

The formal education was interrupted by World War II, and J. Y. went into the Army Air Force as a mechanic. That must have been enough education, because when he got out of the service, J. Y. applied again and was hired as second computer on a crew in Troy, Alabama.

J. Y. worked his way around the southwest with GSI and worked his way into the position of observer, what nowadays is called an instrument engineer. Along the way, he worked with such GSI notables as Fred Agnich, Shorty Trostle and Bob Everett.

One cold, cold winter working where South Dakota, Nebraska and Wyoming meet, Bob Larrabee and J. Y. were working on a velocity survey. They were jumping in and out of the truck trying to keep warm when an Indian drove up in his truck.

"What are you doing?" he asked. They launched into a brief description of doodlebugging. The Indian listened, and looked at them a moment when they were through. "I always said the white man was crazy," he said.

In 1955, J. Y. and his wife of nine years, Darlene, decided they needed one place to call home while raising their family, so J. Y. took a job with field service based in Dallas.

"I must have caught every plane going everywhere," he said. "One time, I was away for a month and when I got home, Darlene wanted me to paint the kitchen. Well, I got one half of the door painted when the phone rang." And J. Y. was off to the rescue again. He worked on all continents but Antarctica and was on the field service team that serviced the first crew to work in Alaska. At one point, he and Boyce Taylor were the only two field service personnel for the Marine operations.

J. Y. recalls a time in Peru that made him take notice of the widespread influence of the U.S.

The crew was working between two rivers when they broke down and J. Y. was sent in to bail them out. He flew to Peru and before long, found himself aboard a power boat heading for the Amazon headwaters with one other person, a Peruvian Indian who did not speak much English. Conversation was at a minimum, but one day during the long, hot voyage, the Peruvian turned to J. Y. and said, "Would you like a Coke?" J. Y., somewhat skeptical, said he would. So about a mile up the river, they parked the boat.

They walked through a narrow path in the jungle to a clearing where a small village sat. The village children came to greet them and when told that the visitors were looking for something cold to drink, they pointed to the school. J. Y. and his companion walked into the building, and an old Oriental man looked up. When they asked him for a Coke, he turned to an ancient GE ice box and pulled out two Cokes.

After J. Y. had had enough of being on-call, he moved into Customer Service as a representative, then on to Inventory Control in 1976. In 1978, he became a manufacturing engineer until 1980, when he took the job from which he retired on Jan. 31, 1983, Supply Support Administrator.

J. Y. and Darlene's favorite stop on their travels was Paso Robles, California. They like the climate and were able to find a nice apartment, something they said was not an easy thing to do when you're moving so much.

But, nonetheless, J. Y. liked working on the crews. "That's the most fun you can do," he said.

Now, he and Darlene plan to visit relatives in Washington. J. Y. gets in a fair amount of golfing and both he and his wife are good fishermen.

Jim Kerr (really) gives tip!

Land's SAFE (South America and Far East manager), Jim Kerr, is justifiably notorious for his "thrifty" ways. He was recently cajoled into joining Land Marketing manager, Lin Montgomery, on a one-day sales trip to Houston. Everyone knows that incidental expenses aren't covered on a day trip, so Lin had to promise that air fare would be Jim's only expense.

Upon arriving in Houston, the two men stopped for a breakfast roll and coffee. When the bill came, true to his word, Lin reached for his wallet, only to find he had forgotten it!

Jim magnanimously offered to pick up the tab.

Of course, without a wallet, Lin was unable to pay cab fare to the airport, so Jim "volunteered" to pay the elderly cab driver, who had happily told the men that he was celebrating his birthday that very day!

At the airport, the cab stopped in the middle lane of traffic to let the men out. Jim handed the man $20 for a $12.25 fare intending to give a 75¢ tip. The driver, surprisingly enough, didn't have change. As Jim fumbled in his wallet for exactly $13, a policeman came up and asked the driver to move his cab as it was blocking traffic. Just then, Jim fished out the correct change and handed it to the birthday boy. He shut the cab door and stepped back just as the driver yelled "Thanks!" and drove off — with a $20.75 tip!

Current production

Samuel Martin Skidmore, 9 lb., 9 oz., was born to Scott and Melissa Skidmore Jan. 12, 1983. Scott is Land Processing manager in GSI's Perth, Australia office.

Marcus Anthony Gann, 6 lb., 6½ oz., was born to Ed and Debra Gann March 7, 1983. Ed is Land Field Service manager based in Dallas.

PROCESSING NEWS

Production Center of the Month

Bedford takes the honor for February

By JOHN BROCKETT

Bedford was selected as Processing Services production center of the month for February with Calgary and Austin placing second and third respectively.

This is the third time Bedford has won center of the month since Processing Services instituted its production goals measurement concept in August, 1982. During February, Bedford met or exceeded 82.8% of their goals (they are measured on 29 specific production, people-related and financial goals). As one would expect with three wins in nine months, along with many second and third place finishes, the Bedford center continues to show excellent consistency in their day-to-day, and month-to-month operation in all areas. Congratulations Bedford, for your outstanding performance!

Although the year is still young, Processing Services has two annual award categories, center of the year and most improved center, which will be determined based upon 1983 goals performance.

Based upon results through February, the top four contenders for the center of the year award are Austin (78.1%), Bedford (78.0%), Calgary (77.8%) and Sydney (76.8%). As you can see from the above results, it is a very close race, so far, and with ten months to go the competition is sure to increase.

The top two centers for most improved center are Dallas and Perth. This category measures the most improvement in meeting 1983 goals versus that center's performance during the last three months of 1982.

Congratulations to all of the above centers. I encourage all centers to review their actual performance in each of the goal categories and, utilizing quality training concepts, attack indicated areas!

Arie Dielesen selected

MIR contributor for February

By BOB CLARKE

Arie Dielesen, Perth TIMAP* Engineering supervisor, has been selected as Processing Services P&AE contributor of the month for February.

Arie's contribution provides a method for stabilizing the real time clocks/interval timers (RTC/IT) on TIMAP and auxiliary systems, thereby improving the accuracy of running times recorded on job printouts. In the past, the RTC/IT would occasionally change to show a month, day or time which was not correct, making it necessary for the operator on duty to frequently correct the RTC/IT data to ensure reasonably accurate times on the job printout.

Arie's MIR consists of replacing the buffer-driver networks (7404) with an improved version (7414). The new devices are less susceptible to erroneous switching caused by extraneous noise pick up.

February is the second consecutive month that the contributor of the month recognition has gone to a Perth TIMAP engineer, an accomplishment that Arie and his staff can be very proud of.

Happy ending in nabbing of arsonist

Five in Perth awarded $1000 each

Five Perth people who were instrumental in apprehending an arsonist on May 16, 1982, (see *Shotpoints*, July 1982) while working third shift at the Perth computer center, received an award of $1000 each recently.

Jenny Gates, Alan Gower, Tom McDonnell, Toni Evans and Martin Loeffler received the award and a letter of appreciation from the bank where the fire was set.

After the arsonist, a 19-year old woman, was convicted of setting the bank fire and sentenced to three years in prison, the Perth commissioner of police recommended that the computer center personnel who assisted in catching her be rewarded by the bank.

Eileen Watt, "processing news" correspondent for Perth, reported that the awardees "shouted" (bought) liquid refreshment after work at the local pub for the operations people the day the awards were received. In addition, they sent Eileen some flowers for assisting in some letter-writing she had done for them in conjunction with the incident. "Who said amateur reporters don't have perks?" Eileen said.

TIMAP IV operator school participants — *Front: Mike Burkhart, Dallas; Sandra Couser, Midland; Earma Morrison, Midland. Middle: Kelly Newcomb, Dallas PP&C; Carlos Rankin, instructor; George Hakos, Sydney. Back: John Dimock, Midland; Danilo Ambat, Sydney; Al Hernandez, Midland; Roger Bouyer, Dallas. Not shown: Alexander Fong. The school was held at the Dallas Park Central training facilities February 14-March 22.*

Croydon receives second TIMAP* IV system a

By KEVAN FARLEY

A cold wintery day set the scene for the arrival of Croydon's second TIMAP IV system.

After a delay at the airport, the consignment, smaller than the previous T605, arrived just as the snow clouds rolled over. Plenty of volunteers were on hand: Ethan Belgrave, Vince Orlando, Paul Froude, Stuart Panes, Nigel Owen, Charles Russell, and, of course, the engineers, Richard Partridge, Clive Parry and Phil Andrews.

We unloaded, uncrated and trundled the various pieces of equipment in record time in an endeavor to beat the snow.

Preparation for the installations involved moving four offices, replacing the area with an extension to the computer room floor on which we placed the RJE/770 host and Applicon plotter. The TIMAP II system had to be moved into an area next to the Geospace plotter.

Finding the optimum job mix with the type of processing being done in Croydon has been a challenge to us here in England. To help with running the bench marks, we had able assistance both from Dallas and Bedford.

The first production line completed in December required a great deal of dedication from our customers and software support (Francisco Monteiro) and hardware.

The marketplace dictates that we provide faster turnaround of our client's seismic data collection and processing requirements. The new generation of TIMAP IV systems will provide us with the ability to react quickly.

Ethan Belgrave, Vince Orlando, Paul Froude, Stuart Panes, Richard Partridge, Nigel Owen, Charles Russell and Kevan Farley watching Clive Parry at the "uncrating of TIMAP IV system" on a cold winter day.

Powerlifting is perfect sport for Keith Appel

Keith demonstrates his prowess at the deadlift.

Keith Appel considers powerlifting to be the perfect sport for himself. "I like the results I saw after I started lifting, consider it a serious hobby that I can stay interested in and find it a good outlet for frustrations," he said.

Since he started powerlifting 2½ years ago Keith said he feels better, is generally healthier and has put on weight, to the tune of 50 lbs the first year. Unlike most of the rest of us, he considered himself underweight most of his 36 years.

"I plan to continue weight training the rest of my life," Keith said. He is Central PP&C supervisor for Processing Services in Dallas.

"Powerlifting is a sport nobody likes if they don't do it," he said. "It seems to be a self-centered. show-offy sport and besides you can look very unusual doing it. I used to think it was dumb. But, after I saw how much work, self-discipline and pain goes into it I changed my mind."

Keith has entered five competitions so far. He belongs to the U.S. Powerlifting Federation, an organization which encourages competitive lifting, sets rules and guidelines and keeps records. He won a fourth place trophy in a recent competition in Oklahoma City in the powerlifting category (the other two categories are body-building and Olympic lifting).

Keith Appel at recent competition doing squat lift.

Continued, next page

nd here's the people who keep things running

PP&C team — Paul Honeyman, Ayesha Sunni, Paul Froude.

Software support — Francisco Monteiro and Philip Faulkner.

Hardware — Richard Partridge, Clive Parry.

B shift — Charles Lee, Ramesh Sudra, David Potter.

A shift — Terry Almark, shift supervisor; Stewart Panes, David Bragg, Martin Duley, Timothy Pettit.

D shift — Alan Ring, Brian Ruston, Peter Graham, Alan Hill, Boyd Russell, Martin Ecott, operators, with Nigel Owen, shift supervisor.

C shift — Arvind Patel, Nirmal Rekhi, Chris Hounsell, shift supervisor; D. Jacques.

Weightlifting *Continued*

Powerlifting depends on brute force and mental concentration Keith said. Three types of lifts are required in competition: the squat, the bench press and the deadlift. Keith said he thinks that the deadlift is the most impressive. "It is usually the last lift of the competition so you can put your all into it and if you hurt yourself you have time to heal before the next meet," he said.

Actually, Keith has never hurt himself lifting except for minor injuries. "Generally, people who are into this sport are in good physical health and heal fast." he said. He also takes 12-15 vitamins a day and considers this part of his daily regimen of keeping fit.

A visit to a gym with friends started Keith on his weight-lifting hobby. Friendly competition ensued and soon he found he liked it enough to enter amateur competitions. He still works out at the gym. He likes the camaraderie of being with people who share his interest. Working out at home just isn't the same he said.

He considers his sport to be fairly inexpensive. Some protective body gear is required such as a "super-suit," that he said takes two people to help him put on because it is made of such strong fabric; a broad leather belt to protect internal organs; knee-wraps for squats; high-top tennis shoes for the squat and benchpress; and ballet slippers for dead lifts. Entry fees for meets are low. His biggest expense is travel, food and lodging for out-of-town meets.

Keith has been with TI for 12 years and part of the GSI Processing Services team for the past four. He came over from Semiconductor Group to be a TIMAP* Engineer.

He is a native of Louisville, Kentucky and graduated from high school there. He attended the University of Kentucky, where he was a member of the "Marching 100" band, and North Texas State University. He received electronics training in the Air Force and served a tour of duty in Viet Nam.

Quality
is not expensive...
it's priceless

Statistics

From Croydon — After a whirlwind nine-year romance, Dick 'Power-it-on, power-it-off' Partridge, Croydon engineer, married Betty on Mar. 3. When asked about married life, an emotional Richard replied, "It's the best move I've ever made, but I guess I'll have to sell the Fiat."

Francisco Monteiro has recently become a father. Both baby boy and mother are in great shape.

From Austin — Last year Beckie Beck, Austin course author/instructor for interactive instructional systems, went to court as a state's witness. Trying the case was Stephen L. McCleery, executive assistant Travis County district attorney. On Feb. 24 this year Beckie became Mrs. McCleery in a small private ceremony in Austin presided over by the judge who presided over the case when Stephen and Beckie met. Who says romance can't flourish in the courtroom?

There are some new faces in the Dallas computer center

By BARNEY MILNER

Yes, if you walk through the Dallas computer center today you will see many new faces; however, they are not new to GSI.

If you look closely between pieces of equipment in the TIMAP* IV area you will see Bill Webb, hardware manager. He spent his first year with GSI as a junior observer and instrument engineer on various land and marine crews from Oklahoma to Australia. After taking a leave of absence to attend the University of Texas, Bill rejoined the company to work for TI-Austin as an instrument R&M electronics technician. He spent five years with TI-Austin before rejoining GSI as a computer maintenance technician at the Austin ASC* complex where he worked for over a year prior to transferring to Washington to work on the ASC 7 system. He spent the last three of his six years in Washington as GPOS Software Support for the ASC 7 system. He completed his degree while in Washington, then transferred to Princeton, N.J., as site manager prior to coming to Dallas.

Directing computer operations for all three shifts is Bill Huffman, Operations manager. Bill comes to Dallas with nine years GSI experience. He spent two years in ASC Operations, four years in Austin PP&C and one year in the Austin TIPEX* Support group. Then he transferred to Calgary for two years where he was first PP&C manager and, later, Operations manager.

Howard Evans, Software manager, can be found dividing his time between the IBM and TIMAP IV systems. He brings a vast amount of experience to the Dallas center. He worked as a computer operator, shift supervisor, troubleshooter and programmer back in the TIAC* computer days for seven years in Croydon and Tripoli, Libya. He was in Holland in the TIPEX Support group for a year and when the ASC 2 system moved back to Austin he came with it and continued to work in the TIPEX Support group. After a period of time in the CP Support, OS Support and Hardware Diagnostics groups, he went to work on the Austin IBM system when it first arrived. After working in the Applications and Systems groups, Howard transferred to Sydney to help with the installation of GSI's first remote IBM system. He transferred to Calgary for two years as Software manager before coming to the Dallas center.

New faces in Dallas — Seated: Bill Huffman, Carla Huffman, Mike Ellerbrock. Standing: Howard Evans, Bill Webb.

Working in Customer Support for Dallas is Carla Huffman. Carla spent two years with TI-Austin prior to transferring to the ASC group. She was an operator prior to becoming Operations shift supervisor. After spending five years with the Austin system, Carla transferred to Calgary as shift manager and later, PP&C manager. She spent two years in Calgary before joining the Dallas center.

If you walk back onto the computer floor and look quickly you will spot a shift supervisor moving from one system to another rapidly to ensure all are functioning properly. His name is Mike Ellerbrock. Wait a minute, Mike is not a new face to Dallas. Well, that *is* true; however, for the last two years Mike has been in Sydney where he was first a shift supervisor and, later, Operations manager for the IBM center.

Welcome home, Mike. And welcome to all the new folks.

ASC* 1A shut down permanently

The original software, design and hardware support group for the ASC 1A system who gathered to witness the final shutdown — Front: Milford Blanton and Hurshell Stinson. Behind, seated: Sam Chavez, Donn German and Bernie Hurwich. Standing, front row: Jim Davis, Lanny Dowell, Effie Pace, Tim Mizner, Emory Garth and Larry Rickert. Standing, back row: Bob Brey, Henry Chalmers, Terry Rock, Curtis Hart, Wendell Weatherford, Monroe Thompson and Dick Joy.

By BECKIE McCLEERY

The world's oldest Advanced Scientific Computer, System 1A, was shut down permanently Nov. 15. Bernie Hurwich, Austin Systems & Services manager, hit the EMERGENCY OFF button on the maintenance console for the last time in the presence of GSIers and TIers who had been a vital part of 1A's design, development and operations for the past 12 years.

System 1A was TI's grass roots operation for the ASC project. Designed in 1966 at Dallas, the ASC became one of the most powerful scientific computers of its era. ASC 1A was the prototype for the development of six other ASCs used throughout the world in a variety of scientific applications.

Capital was authorized for the System 1 project in 1967 and production of the hardware components began in 1968 in Dallas. System checkout and testing commenced in 1969 after the test equipment and peripheral processors unique to the ASCs were assembled.

System 1 moved to Austin after initial testing and was used in the checkout of new hardware and applications system development, including seismic processing and Equipment Group scientific processing.

MARINE NEWS

Two *Seals* team up for Gulf of Mexico shoot

By TOM NEUGEBAUER

It all began like most 3D prospects in the Gulf of Mexico for the crew of the M/V *Ross Seal.*

You know what I mean — those daily visits from our dear friends, the shrimpers; occasional cable bounce during the shooting of those shallow water areas; channel buoys, rigs and other obstructions just thrown in to add a little spice. Very typical, one would say of the Gulf.

It was typical with one exception: Two vessels would be used to collect data in and around an on-line obstruction, a wellhead.

After some streamer ballasting corrections, we were off to a smooth start. We continued to shoot the prospect conventionally until everything was set up for the two-boat effort.

The other half of this operation consisted of the M/V *Arctic Seal,* now working for the GSI Land Exploration Division, which was performing a back down and drag job close by. When the time came to begin the two-boat shoot, the *Arctic Seal* would leave their prospect and join the *Ross Seal* in South Pelto.

Prior to beginning this operation, new streamer tracking system software was brought aboard by our navigation support team consisting of Larry Taylor and Ted Autin.

After the *Ross Seal* shot around the wellhead, it was determined that three lines would need to be shot using the two-boat operation. One line was blocked by the wellhead itself, and the two adjacent lines for fear of streamer damage.

Finally, with all the problems worked out of the system and with cooperation of the weather, we were all ready to go. Larry Taylor remained on board the *Ross Seal* and Ted Autin went to the *Arctic Seal* to help personnel there. A radio was set up in each doghouse to ensure, through proper communications between each crew, that everything went as planned.

The game plan called for the *Ross Seal,* the recording vessel, to head down a line on one side of the wellhead and that the *Arctic Seal,* the source vessel, to head down the opposite side. The *Ross Seal* collected data from points under the wellhead. Identical spacing between the two vessels was used when shooting the lines adjacent to the wellhead.

M/V Ross Seal *was recording boat and M/V* Arctic Seal *was shooting boat for shooting lines near wellheads in Gulf of Mexico.*

Everything was going as planned until one night when another vessel ran over our cable. Moments before, Fred Rix, party manager of the *Arctic Seal,* had just boarded the *Ross Seal* to check out our operations. It was thought that Fred angered the seismic god by boarding a marine vessel by way of a shrimp boat (which was used as a chase boat to aid in keeping our streamer safe from being run over).

After we completed the two-boat operations and they were labeled successful, Larry and Ted packed up their equipment and headed for home — happy, I might add. The *Arctic Seal* went back to their prospect and we stayed behind and finished the remainder of the job for our client.

At the time of this writing, the *Ross Seal* is working in the Bahamas and will be going to Trinidad soon. Meanwhile, we hope Larry and Ted don't get too comfortable on land, as the *Ross Seal* is scheduled to come back to the Gulf and do another two-boat operation in the near future.

M/V *Ross Seal crew* — Larry Rezek, party manager; Jerry Miller, systems engineer; Tom Snowden, Doug Reinhart, Steve Muller, Jim Germer, Mike Rihm, Mike Johnson, Tom Neugebauer, systems operators; Tim Craney, Randy Stonestreet, systems operator trainees; Eric Fye, Walter Ewing, Gene Chapman, John Hattendorf, Scott Roberts, mechanics; Edwin Johnson, cook.

M/V *Arctic Seal crew* — Fred Rix, party manager; Don Siebert, Wick Westmoreland, Raymond Byrum, Clarence Moore, Dan Schultz, Mike Shoulders, Dave Farmer, Al Zieb, Alex Zielinski, Don Hightower, Stanley Gross, Clay Bailey.

M/V GSI Alaskan *to join Marine seismic fleet*

The M/V *GSI Alaskan*, an 188-ft conventional seismic ship with shallow water capabilities, will go to work for the Marine Exploration Division in the Chukchi Sea after mobilization at Rysco Shipyard, Rockport, TX.

The new company-owned vessel, formerly the shallow water transport ship *Inagua Beaver*, has 38-ft beam and 5-ft draft and will be able to operate in as little as 10 ft of water in calm seas.

The *GSI Alaskan* will be equipped with the latest technology including instrumentation for 3D surveys. The ship has accommodations for a full seismic and ship's crew.

Bill Blakeley, manager of Marine Operating Services, said current plans call for the *GSI Alaskan* to sail from Rockport in May for Alaska.

The former Inagua Beaver *will become the M/V* GSI Alaskan.

Trace Sequential Recorder gets sea tested

By GEORGE NELSON

When the M/V *Cecil H. Green II* put in at Long Beach harbor in early March, she took on the Trace Sequential Recorder (TSR) for the system's first taste of real-life operation off California.

Already on hand for the sea trials were Greg Glanville, John Hobert, Charlie Hinton and Dan McGee. Meanwhile, back in Dallas David Allen, Mark Corl, Tom Gohl, Bill Krueger, Chris Taylor and I were scrambling to get everything together and catch a flight to the scene.

Actually, the TSR story begins much earlier. When the multiplex streamer development program was nearing completion late in 1981, plans to utilize the DFS* VI system to record the massive amounts of data from the new 240-channel streamer looked shaky because of schedule differences.

The idea came up to consider developing a recording system tailored to the streamer requirements, and I was given the assignment in Marine Engineering to check into this. Specifications, a technical approach, budgets, and schedules were developed and presented to management. Finally, the decision was made to go for it.

The TSR's basic function would be to acquire and record seismic data from a marine streamer for subsequent processing and interpretation. To do this requires a complex hardware/software system which performs many diverse functions. The TSR would also provide several operational advantages over the systems then in use. Principal of these are:

1. *Improved tape-use efficiency afforded by high-density recording at 6250 bytes per inch (BPI).* The approximately four-to-one reduction in tape use relative to 1600-BPI recorders would result in large savings in operational costs.

2. *In-the-field demultiplexing of the seismic data and recording it in the trace sequential SEG-D format.* It was hoped this will ultimately provide a significant reduction in data processing costs.

A late input to the system specs was that the TSR should function with a conventional type streamer as well as with the new multiplexed version.

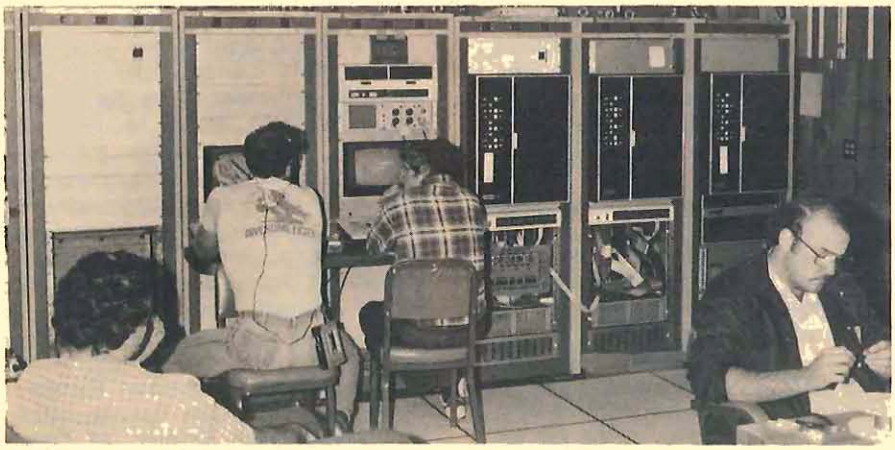
Another challenge faced by the new project was staffing because at that time everyone was buried in other development work. In addition to those previously named, Vandy Chang and Hal Keithly would contribute to the software system and Alan Cockle, Joel Dorenfeld, Dan Kenefake and Howard Needham would join the hardware design effort.

In short, it took many man months of design effort to get us to the point of sea tests and the start of this story.

By the time we arrived, the ship's crew and advanced test crew had removed the DFS V system from the *Green II's* doghouse and welded the seven racks of TSR equipment to the deck in its place. The installation effort continued into the night and resumed the next morning.

Around 10 a.m. the power was finally turned on, and the system promptly crashed. By 4:30 p.m., after lots of troubleshooting, we seemed to be up and running. By 11, everything had been checked, and we sailed around midnight. Thursday morning we were at the test site off Port Hueneme.

Continued next month



Bill Krueger, Mark Corl, Chris Taylor and Dan McGee with seven racks of TSR equipment in doghouse.

Family album

Dick and Angie Miles are lullabying a son, Anthony Richard, born March 14 in Plano, TX. The proud father is based in Dallas with Central Marine.

Binning tests involve shooting 3D mini-job

Part 2 of a series
By MARILYN McCORD and SCOTT BUFKIN

The onboard binning sea trials conducted on the M/V *Cecil H. Green II* off California involved shooting a 3D seismic mini-prospect.

The online portions of the test went very smoothly. Data was collected for the verification of the various algorithms used in binning as well as for use in future lab simulations.

The *Green* crew, who were an integral part of the test, did a fantastic job. Not only did they learn about onboard binning, but their skill and experience enabled the tests to go so well we finished significantly ahead of schedule.

In general, the hardware performed better than in the lab (though we probably did not get above a sea state 3). The systems engineers, Joe Woodruff and Bill Roche, could sit at the console in the doghouse and look up at four monitors featuring 990 nav, Streamer Tracking System, and TIGER** II airgun controller outputs and a control screen. The track plotter and Q.C. were on the left, and a four-switch video display unit with keyboard was at the right to access any of the four monitors.

One 810 line printer was for the data log. A second 810 had a special graphics board which allowed commands from TIGER II and STS III to generate graphics output. Nearby was the best attention-getter of all the new "toys," the HP7220 8-pen plotter. Whenever the plotter started "doing its thing," people gathered round.

Hidden behind the panels of the 990/12 computer for TIGER II and STS were a trio of 33-megabyte Priam disk drives. In addition, an optical tow fixture had been installed.

As expected, we encountered a few software problems, but with the plots generated and the data collected, we will be able to make comparisons with the results produced by nav and seismic processing and achieve the necessary verification or corrections. We produced some realistic and usable plots, an online display for a wide-tow array and introduced the optical tow fixture data into STS for the first time.

Use of the DX10 operating system and the necessity to include a system console VDU have combined to allow some bonuses for the crew. Selected DX10 text editing commands will be made available for such purposes as writing reports and letters through a special edit floppy diskette. Other capabilities may be added in the future (so let the folks in Dallas know what would be most helpful!)

Rex Porter as console commander of the new system.

After a successful 3D calibration, the cable was reconfigured substituting 120-trace kits (sections constructed exactly as standard 96-trace sections but wired in the 120-trace configuration) for actual 120-trace sections. The purpose of this was to collect data for direct, side-by-side comparisons of the noise characteristics between the 96-trace and 120-trace streamers.

Quick analysis of the noise data in Dallas has yielded some interesting preliminary results. In sea state 3, with 7-ft swells, the 120-trace streamer sections appear to be about one microbar quieter than the 96-trace streamer sections. This is a significant reduction in the noise level and should enable us to shoot in rougher weather as well as produce a generally higher quality product for our clients.

Seismic crew: Bob Elliott, party manager; Joe Woodruff, Bill Roche, systems engineers; Marty Otten, Rex Porter, Dave Boone, Hank Woodward, systems operators; John Salkowski, Chris McGrath, systems operator trainees; Tiny Ewing, mechanical supervisor; Chuck Langlinais, Frank Griffith, Jim Williams, airgun mechanics; Willie Karhu, Dallas mechanical engineer.

Ship's crew: Doug Grover, captain; Tony Canepa, chief mate; Don MacNeil, 2nd mate; Jon Host, chief engineer; Larry Smith, 2nd engineer; Harley Miller, Berry Jumper, able-bodied seamen; Sam Davis, chief cook; Ben Brooks, 2nd cook; P. Allen, Butch Kennedy, messmen.

February Marine performance

By DAVEY EINARSSON

Congratulations to the crew and support staff of the M/V *R. W. Olson, Java Seal* and *J. E. Jonsson,* who literally tied for February top honors with essentially identical recording percentages.

Considering the time of the year and the locations of these vessels (North Sea and east Canada), these were really good performances. This is the first time we have had three Vessel of the Month awards. The fleet made its production forecast for the month, so there was a lot of hard work done.

Houston won data processing center of the month honors, and Calgary was runner-up.

Thanks for a good month. Keep safe, think quality and good luck!

Automated system tests SEMs for GSI's multiplex streamer

By ROD BURKE

How would you like to hire an electronic technician that would do a complete performance test on a complex analog/digital device without ever taking any coffee breaks?

This technician would set up the test equipment, make adjustments, measure voltages, analyze frequency response curves, draw plots, make value judgements and make 1,764 switch settings per device.

Jerry Catha's manufacturing unit test group recently acquired such a technician, which is actually a Texas Instruments computer. The SEM automated tester is a DX10-based 990 that performs 15 in-depth performance tests on GSI's streamer electronic module (SEM) — (the highly sophisticated in-water electronics part of the multiplexed streamer).

In the 1980s a new branch of engineering is emerging called automated test engineering. ATE is the robotics of the electrical engineering world.

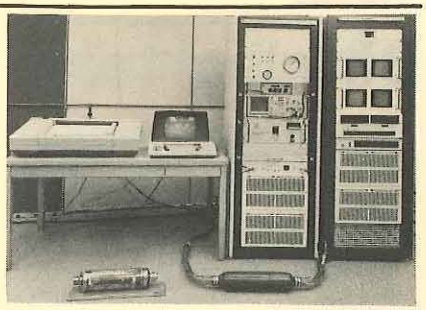
Today, most traditional test equipment like meters, oscillators, power supplies, and scopes are controllable via computers. The computer can now set up the test equipment, change settings, read values, and make decisions the same way a technician would. Therefore, a computer can run tests on circuit boards and whole assemblies without human intervention.

These automated test systems have the advantage of freeing the technicians from repetitious tasks, shortening testing time, and being repeatably consistent. Consequently ATE has been a real boon to manufacturing.

The SEM tester was designed in the Marine Engineering test systems group. Bill Kikendall and Rod Burke spent nearly two years designing and building the system.

The new tester will test either a phase I or a phase II SEM completely hands off in 17 minutes. The tester will test a SEM for power supply problems, digital communication link, compass and depth simulations, and amplifier response characteristics. The amplifier response tests include frequency response, dynamic range, dynamic distortion, noise, and crosstalk.

Before the computer it took upwards of two hours to test a SEM manually. This leading edge technology is helping to handle the load that Tom Wyke, Paul Brooks, Keith Blocker, Ron Mathews, and Chuck Campbell of unit test have testing and troubleshooting SEMs.



Automated test system for streamer electronics modules used in multiplex streamer.

The EFR Reporter: Help for streamer leakage

By BOB SOLTYSIK

The M/V *Ross Seal* crew recently sent in some examples of corroded pipe plugs from 96/120-trace streamer sections. These plugs were so badly deteriorated that some of them actually had holes completely through them.

I've also heard that the O-ring sometimes causes leaks due to riding up out of the well upon tightening, and there have been reports of deterioration.

To reduce this leakage problem, all pipe plugs are now being made of Nitronic 50 stainless instead of the former 17-4 stainless. This new material should not deteriorate as rapidly in salt water. In addition, all new sections are using orange-colored polyurethane O-rings in place of the black rubber.

You can order spares from Dallas of both the new plugs and new O-rings. The part number for the pipe plugs has not changed; it is still 145380-1. The polyurethane O-rings are available under part number 125621-27. We hope that these little changes will help reduce your downtime on the boats.

Many thanks to the *Ross Seal* crew for letting us know about this problem. It's by your communicating that we in Dallas get to hear about your problems in the field. I'm always glad to hear from any of the field crews. Send your comments to Bob Soltysik, MS 3967, Dallas, MSG terminal MANU.

It's *Green II* on cover

The M/V *Cecil H. Green II* made the cover of the April 1983 issue of *Geophysics: The Leading Edge of Exploration,* published by the Society of Exploration Geophysicists.

An aerial photo shows the *Green II* shooting in the Santa Barbara Channel, and an article by Robert Dean Clark, associate editor of the *Leading Edge,* focuses on shipboard life.

The author, during a brief visit to the *Green II*, interviewed Frank Locascio, Doug Chapman, Les States, Hank Woodward, Ed Norris, Otto Binder, and others. Photos by Rudy de Bruin show Les, Ed, David Gsoell, Robert Brown, Bob Moore, James Williams, and John Hansen on the job.

The *Green II* article is part of the *Leading Edge's* special marine issue, "Seismic at Sea." To obtain a photo copy of the article, contact the *Shotpoints* editor at MS 3937 or IMS terminal DGMC.

Field service bulletins

83-1 Change in wording of Operators Reference Handbook, Section 26, Utility Programs, page 26-2.

83-2 Maintenance of uninterruptible power supply batteries.

83-3 Correction to FSB 82-31 re proper connections of EPC to DFS V system.

83-4 120-trace stretch sections.

83-5 Solenoid valves for Mod II airguns.

83-6 Streamer coupler corrosion/contamination prevention.

83-7 Malt reel safety regulator systems.

Anyone missing these or any previous Marine FSBs should write to Marine Engineering, MS 3971, MSG terminal DNGR.

McDermott makes news

The M/V *Eugene McDermott II* made news in the *Port Lincoln Times* when the GSI ship made a port call to load a multiplex streamer before beginning a survey off South Australia.

A reporter from the newspaper came on board, and Chris Toner, the party manager, gave him a brief account of the vessel's work.

Asked about the ship's 24-hours-a-day operation, Chris described life on the *McDermott* as "hard but interesting."

STAFF NEWS

Testpoints

Static electricity, don't let it get to you

By BERNIE HUBER

Question: *I've been reading about the damage that static electricity can do to my instruments. Can this be why some of my spare boards seem to go bad without cause and active ones become marginal or fail?*

Answer: It might well be. Electro-Static Discharge, or ESD as it is commonly referred to in the electronic industry, is known to cause far more failures than are generally attributed to it. I believe ESD has been and continues to be a very costly problem for GSI and worthy of careful attention by every person using or handling electronic equipment.

Dave Holder, Geoservice manager at TI Houston, has recently authored and distributed a DFS* V Field Service Bulletin No. 60-8104, *Static Electricity — Effects and Precautions.* I consider this bulletin so important to our performance goals that I am presenting Dave's key points here for everyone's information.

STATIC ELECTRICITY EFFECTS AND PRECAUTIONS NECESSARY ON ELECTRONIC ASSEMBLIES

Technological advances in recent years are resulting in miniaturization of electronic functions. Higher density integrated circuit geometries with smaller semiconductor junctions are now more prone to damaging effects and failure from static electrical discharges than larger, less dense devices of earlier vintage. Failure may occur instantaneously or may occur after the device has been degraded by an accumulation of discharges occurring over a period of time.

Most circuits are protected while in their chassis. Grounding and conductive paths are adequate to ensure safe operation. Anti-static precautions should be taken when a board is out of this chassis. A technician should not work on the system with ungrounded soldering irons and should be careful with test equipment probes.

Coupled with the new advances in electronic technology is also a higher usage of plastics and other synthetic materials. Movement of conductors across plastic materials or carpets can generate thousands of volts of electrical energy. If this potential difference is allowed to couple between two or more circuit leads, damaging currents can occur. Some newer seismic system installations, with carpeted cabins and usage of large quantity of plastics, have great potential for static discharge problems.

Certain precautions will help eliminate static electricity related failures. The DFS* V Operators and Maintenance Manuals have numerous cautions highlighted throughout the text. These warnings are primarily directed to the handling of logic boards. These boards are mainly complementary metal oxide semiconductor (CMOS) logic networks, and these networks are most susceptible to static damage. Recent study and experimentation has shown that even bipolar devices such as small signal transistors and diodes are prone to failure due to static discharge.

When handling boards out of card racks:

- Turn power off before removing or replacing circuit boards.
- Touch a portion of the chassis with your hand to ensure you are at the same potential as the boards and chassis.
- Remove boards carefully. Do not touch any exposed leads or connector tabs. It is best to handle a board by its edges, keeping fingers off any circuit.
- Storage and shipment of boards to, or from, a crew or in the recording cab should be in conductive plastic bags or in wooden containers, with shorting bars in place.
- Ground test equipment and soldering tools. Be sure you are at the same potential as the chassis. Even the slightest movement on a carpeted floor can generate thousands of volts of static electricity. Arid climates are worse than wet, humid areas.
- Remember that static charges can build up on surfaces, clothing and other devices. You become the conductor of electricity to another device if a potential difference exists. By grounding yourself to the chassis or surface on which the component is set before touching the component, you discharge the built up static, making it safer to handle electronic parts.

The above are just a few safeguards that can make your electronic system last longer. There are other techniques that may be used, but these mentioned here will cost nothing extra. Simply remember them and practice caution.

Ca$h for photo$

It's time again to say "thank you" to all the industrious GSIers who sent in photos for the April newsletter.

Contributors were: Land — Malcolm Lansley (cover), Pat Trainor, Ross Beattie; Processing — Lee White, Frank Aguilar; Marine — Scott Bufkin (cover), Marilyn McCord, Eric Pickstone, Dave Ridyard.

Keep up the extraordinary work. We love it!

Quality:
Do it right the first time.

Jakarta completes training courses

Participants in supervisory course were: First row — Warnidi Wasar, Finny Yunita, Swantiningsih, Luthfi Ridzal; second row — Armia Ibrahim, Andrew Wolski, T. Nazaruddin, J. P. Rajendran, Nasya Aditya, Ross Beattie, Mark Bunyan, Yance Cumentas, Linus Lim (instructor), Gustaf, Chen Su Kiowng, Montes Sinaga.

Participants in work simplification workshop #1 were: First row — Nurbaiti, Tuti S, Roslina Sitompol, Finny Yunita, Linus Lim (instructor); second row — Ellyn Aryono, Tumpal Sitorus, Fauzil Fanani, Rachman Arnas; third row — Ross Beattie, Chen Su Kiowng, Budi Setiawan, Gustaf, Firdaus Bustaman, Armia Ibrahim, John Thornton, Yance Cumentas, Andrew Wolski, Luthfi Ridzal.

Participants in work simplification workshop #2 were: First row — Rukminie Soekarta, Handriani, Arvy Indra, Swantiningsih, Francisca Muryati, Linus Lim (instructor); second row — Bambang, Anton Winato, Nasya Aditya, Antonius Sulisto, Willy Enoch, third row — Warnidi Wasar, J. P. Rajendran, Irwan Jubardi, Mark Bunyan, Ian Hawkshaw, T. Nazaruddin, Montes Sinaga.

TRAINING COORDINATORS

SITE	NAME	MSG	M/S
DALLAS			
Land	Vince Amiot	TRID	3900
Marine	George Ott	NSUP	3977
	Jeff Goodman	NSUP	3977
	Pat Greenlee	NSUP	3977
Land 3D	Terry Wheeler	TRID	3900
	Wendy Stresau	TRID	3900
Software	Bo Bowman	DICO	3969
Phase II	Tony Rebec	DGMC	3947
EAME			
Bedford	Andy McPherson	EAMP	4223
Croydon	Ric Connolly	EUCH	4258
Assen	Ken McGuire	HMNT	4201
Oman	Vaughan Hewett	RUWI	4255
Cairo	Andy Jackson	CYRO	4099
	Ahmed Rashed	CYRO	4099
Saudi Arabia	Ron Harbison	SA	4262
	Soumen Kar	SA	4262
SEA			
Singapore	Linus Lim	SLDP	4263
Jakarta	Linus Lim	SLDP	4263
Lutong	Linus Lim	SLDP	4263
AUSTRALIA			
Sydney	Annelle Howard	PAUS	50
	Amanda Webb	ROO	4264
Perth	Peter Morris	SWAN	4265
Adelaide	Patricia Cora	OZZI	4234
COLOMBIA			
Bogota	Alfredo Gomez	BGTA	4252
	Oscar Garcia	BGTA	4252
MEXICO			
Mexico City	Efren Murillo	GMEX	4251
ARGENTINA			
Buenos Aires	Leandro Nicanoff	ARGN	4203
BRAZIL			
Rio de Janiero	Peter Pfau	RIO	4256
CANADA			
Calgary	Peter Jeffrey	IGLU	4011
	Ed Williams	FOGG	4011
	Lois Burke-Gaffney	IGLU	4011
NEW ORLEANS LAND			
New Orleans	Rob Senn	NOLA	4075
ROCKIES			
Denver	Sally McCraven	SKIR	4016
	Ron Donison	ROKY	4016
ALASKA			
Anchorage	Jasper Hart	ASKA	4250
US/LA MARINE			
Houston	David Diekmann	AAH	6601
HOUSTON LAND			
Houston	David Diekmann	AAH	6601
WESTERN U.S.			
Midland	Mark Wagaman	MIDX	4089
	Rick Eisenmann	MIDX	4089
Oklahoma City	Joe Boler	OKC	4046
VENEZUELA			
Caracas	Dick Batina	VEN	None
PERU			
Lima	Roberto Esparza	PERU	4254

NOTE: We suspect that some training coordinators have been missed, or have been changed since this listing was compiled. Please send additions and corrections to: Judi Mikulas, Dallas Personnel Training, Education and Development, M/S 3910, MSG: STNG.