

GEOPHYSICAL SERVICE INC.
Box 225621, M.S. 937, Dallas, Texas 75265
Address Correction Requested

*"When I was a lad on my mother's knee,
The Arabian Nights appealed to me,
And I determined when I became a man
To visit that far-off romantic land.*

*So there I journeyed,
And there I stayed
For thrice three hundred
And sixty days..."*



GEOPHYSICAL SERVICE INC.

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THE *Grapevine*

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TI Launches Worldwide Photo Contest

The new TI Worldwide Photo Contest running now through December 1978, in addition to our SSD Photo Contest (specifically covering SSD operations) should really keep you "camera buffs" shooting! The TI Worldwide Contest will require photos of TI Products and Services in use. Anyone interested should write or call *The Grapevine*, c/o Paula Nazzaro (see address and phone above). I will then forward detailed contest information and entry forms.

Cover Story

A Saudi Arabian sunset sets the background for this poem entitled "Baisden's Lament," composed by G. J. "Jack" Kohler almost 40 years ago in Saudi Arabia. A Reunion Dinner was held in Dallas recently — Jack and many other past and present GSIs, Tiers and clients had the opportunity to join together once again, this time in celebration of GSI's "40 Years in Saudi Arabia." See story page 7.

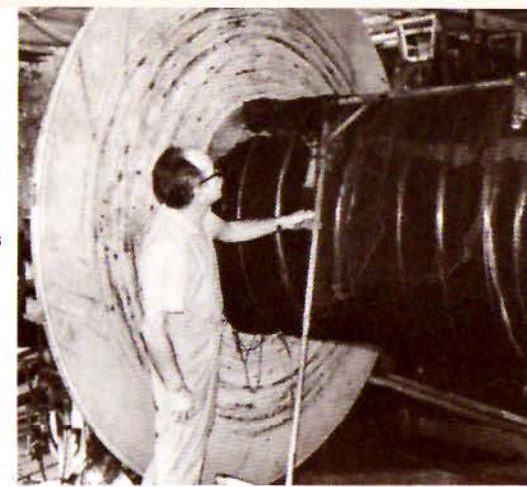
Cover Photo Credit: Steve Thomas

GSI Introduces the M/V TASMAN SEAL

by
Ian Jones

January heralded the addition of another vessel to the GSI fleet. The rigging of the 168-ft M/V *TASMAN SEAL* began in Singapore in early January. After a month of chaotic oriental shipyard work under the leadership of sweet old Bob Hart, the super safe, high technology *TASMAN SEAL* set sail for the Philippines on its shakedown cruise.

After a few teething problems (the most frustrating being getting the guns to fire when we wanted them to) production started on February 15 through the coral reefs of NE Palawan. The excellent sidescan sonar and ACDC birds coupled with a PM who never sleeps, proved invaluable. By the end of the month vast kilometers of



Bill Blakeley inspecting the reel.

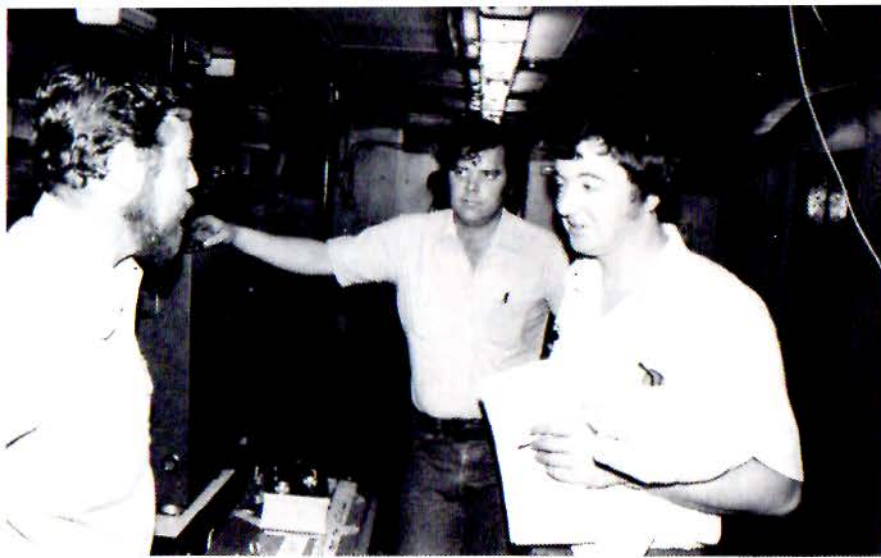
*Trademark of Texas Instruments

data had been collected for clients off North East, South and West Palawan. The first 3D work in the Philippines began March 2 over the newly discovered NIDO field.

The vessel is equipped with DFS* V instruments, a 96-trace cable, MARISAT communication satellite system, and CMS* II configurable marine navigation system.



View of the top deck of the *TASMAN SEAL*.



(L to R) Ian Jones, Jim Acker and Ian Fitzgerald in the TASMAN SEAL instrument room.

Key crew members are Ian Jones, boat manager; Bud Lampkin, administrator; Ian Fitzgerald, party manager; Wes Welcome and Frank Pulaski, lead instrument engineers; and Bill Kennedy and Perti Karhu, lead air-gun mechanics.

Bob Hart served as mobilization manager, with help from Pete

Reichle, Jim Acker and others.

Eric Jones, Marine Exploration manager; Hurshell Scinson, former Processing Services manager (now manager of Information Services); and Bill Blakeley, Marine Operating Services manager, visited the vessel mobilization in January, and Eric and Bill subsequently held a

Buddy Baumgardner and Bill Blakeley inspecting the life rafts on the boat.



Eric Jones (L) and Lorton Trent discussing installation of MARISAT.

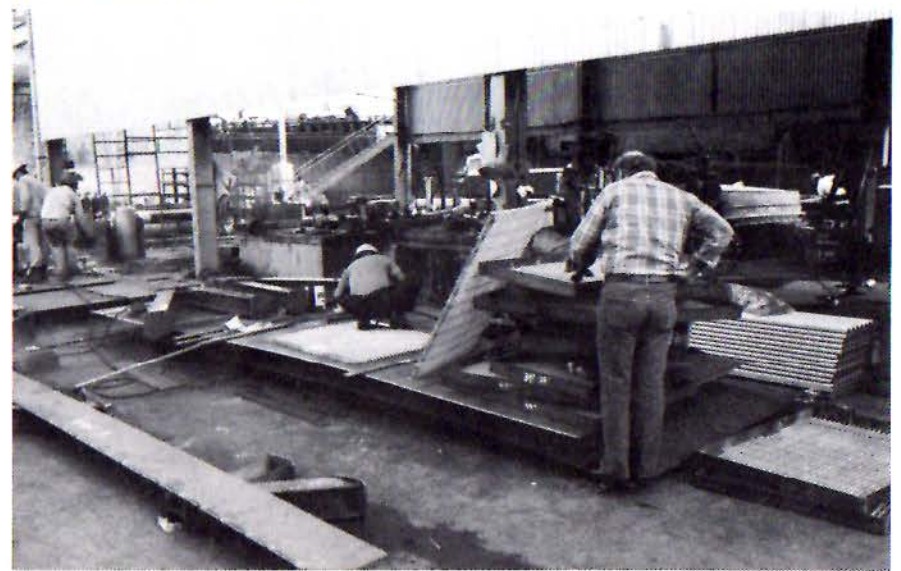
meeting with Ian Jones and Ian Fitzgerald at Singapore's Marco Polo Hotel.

Buddy Baumgardner, TI corporate fire marshal, was on hand during the last half of January to supervise installation of the various firefighting systems. The *TASMAN SEAL* is the first vessel in the GSI fleet with the full complement

of safety equipment to meet the new TI Standard of Safety (TISOS). There were some hectic moments as we tried to get various safety equipment through customs in Singapore, but most of our effort was successful.

The accompanying photos are of the vessel mobilization in January. At present, no photographs of the

Eric Jones inspecting new metal flooring to go around the back deck. Another safety improvement.





That mysterious object is the MARISAT communication system and the body being consumed is Eric Jones.



Two of the ship's crew preparing to install some communication equipment.

First GSlers to Saudi Arabia Reunite in Dallas

by Frank Lord

The Bent Tree Country Club in far North Dallas provided the setting for what was probably the first reunion ever held for the early GSI doodlebuggers to Saudi Arabia. The occasion commemorated more than 40 years of GSI activity for ARAMCO in that exotic land. In addition to the GSlers present, there were several members on hand for the festivities from ARAMCO (known in the '30s as California Arabian Standard Oil Company or CASOC as the company was called in those days). Due to the large number of people present for the occasion, I shall not attempt to name all of them in this brief article. However, the photographs which follow will identify those in attendance.

GSI president Dolan McDaniel, along with a lot of help from various sources, pulled it all together, making all the travel arrangements, hotel accommodations, handling transportation in Dallas, and taking care of all the party arrangements and details at the Bent Tree.

As with most reunions of this nature, there was considerable handshaking, backslapping, and retelling of early-day experiences among this unique group of people. The party opened with what might be referred to as an "ice-breaker" or hospitality hour, and the mixing and mingling was furious as both husbands and wives renewed old acquaintances and verbally relived some of the early events that can now be classified as unusual and exciting in the annals of doodlebugging history in Saudi Arabia.

Following the hospitality hour and dinner, Dolan extended a formal welcome to the ex-GSlers, Tlers, and



Bill Blakeley (L) and Pete Reichle inspecting compressor engines (shipyard foreman in background).



Two air-gun mechanics installing new air guns.



Woodrow Friday (L) and Bill Edwards surround photo display of those 40 years.



Jim Toomey, Bob Phillips.

vessel in its gleaming shipshape state are available in Singapore. I will try to send one for the next

issue, we will have to re-fuel sometime! \$



Grant Dove extending the official greeting for the evening.

GSLers present, their wives and our distinguished ARAMCO visitors here for the occasion. He explained that this meeting commemorated our 40 years of exploration activity in Saudi Arabia and he extended an open invitation to all guests who wished to recap some of their early experiences as doodle-buggers and oil company representatives in that country.

Ed Dickson, the first GSLer to set foot onto Saudi Arabian soil, led off with a welcome to all visitors and friends and recounted a few of his own experiences as well as those of other early pioneers, in particular, John Lewis, Bud Fisher, Bob Phillips, Mac Bills and Jim Gary (PC for Party 332) who followed a few days behind. As he continued to highlight some of the early events, using his theatrical ability from time to time to accentuate the positive, he gave recognition to the second crew, made up of John Babb, W. B. Friday, Audio Harvey, Skinnie Holbert, Jack Kohler, J. B. Siler, Roy Truitt and Rip Shuler, PC for Party 328.

Burt Beverly of ARAMCO recalled many early happenings and occurrences and praised these early GSLers for their hard work and activity in helping to bring that oil-rich country to the forefront. His comments included facts about the harsh living and working conditions of the times and on occasion placed emphasis on some of the more humorous events that made living in that environment a little more



Cecil and Ida Green, Ed Dickson.

bearable.

A poetic account of the times was given by our own poet laureate, Jack Kohler, who kindly consented to put the reunion into rhyme, naming all the early GSLers and ARAMCO folks, and reading his poetic version of the occasion entitled "Ode to a Skylark" or more appropriately "Where Have Those Forty Years Gone." From the comments this writer heard — before, during, and even after the celebration, Jack was always ready to write a poem, and his poems did end up on the walls of even the most obscure places (which I shall not name).

Tom Barger added excitement to the meeting along with Bob Carr as they recalled people like CASOC's Dick Kerr (deceased), and Bug Arnold, Jim Gary (deceased), Audio Harvey, Rip Shuler, and others in the first crews who were unable to attend the festivity at the Bent Tree Country Club.

At this point in the evening the crowd was entertained by John Babb who kindly consented to show a color movie he made in 1938 while giving us a running narration of the conditions and happenings of the times. Several points of interest were highlighted such as the "Grey Goose," a 1936 Ford sedan given to the crews by Dick Kerr, equipment in use then, and living conditions.

Dick Kerr was represented by Mrs. Phyllis Kerr, his widow, and Jack Kohler's poem reflects the kind and

Sybil Edwards, Murriel and Jim Toomey, Tot and Cottie Seager, Bill Edwards.



Cottie Seager, Phyllis Kerr, Tot Seager.



Frank Fuller, Odetta Bucy, Bob Dunlap, Murriel Toomey, Joan Fuller.

Walt and Judy Thomsen, Zel and Bob Bearntb Jack Proffitt, Ina Guttormson.



Dolan McDaniel extending some words of welcome.

John Babb narrating his 1938 movie.



Eddie Dickson recounted some of those early years.





Ed Vetter, Jack Proffitt, Fred Bucy.



Corena Lewis, Esther Dunlap.



Frank and Jean Lord, Ida Green.



John Babb, Tom Garvey, Frances Babb, Vivian Truitt.



Joye Bergstrom, Eric Jones, Ken Howard, Jack Proffitt.



John Lewis, Dick and Evalyne Dulaney, Jack Kobler.



Bob and Zel Bearuth, Bob Graebner, Peg Dove.



Bob Phillips, Roy and Vivian Truitt.



Background — Fred Bucy, Bob Graebner, Ed Vetter. Foreground — Odetta Bucy, Esther Graebner.



Hank Guttormson, Monda Garvey, Ina Guttormson, Walt Thomsen.



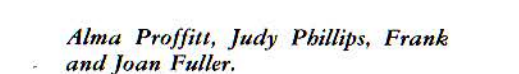
Charlie Moore, Tom Garvey, Ed Dickson.



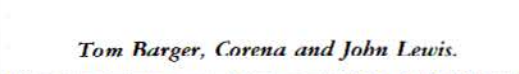
Ethel Connally, Doris Hill.



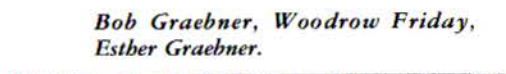
Ida and Cecil Green, Woodrow and Vera Friday.



Alma Proffitt, Judy Phillips, Frank and Joan Fuller.



Tom Rarger, Corena and John Lewis.



Bob Graebner, Woodrow Friday, Esther Graebner.



warm-hearted feelings that these early GSlers had towards him. He was obviously a man of many talents and contributed considerable help to these hardy pioneer doodlebuggers.

Cecil Green, Honorary Chairman of the Board of GSI, was on hand and heaped words of praise upon these "stalwarts" as Kohler called them, for their perseverance, attitudes, ambitions, and their moral strengths. He had carefully selected meaningful slides from his library which he projected and narrated as part of the evening's entertainment.

As customary with Cecil, he never fails to give a huge amount of credit to the doodlebuggers' wives. As he said, "Without their support and willingness to endure the many hardships in adverse areas, it would have been difficult indeed to pull together groups of dedicated people to work on overseas assignments."

Cecil pointed out that in the early days a man usually stayed in such places as Saudi Arabia for two years before the wife could join her husband. Of course, these men being honored were single at the time and this ruling did not concern them. "However," Cecil said, "family separations truly created hardships and made it difficult to get married employees for overseas work."

Cecil also recapped some of the Arabian customs, many of which are still practiced today. One such custom was never to accept coffee from your Arab host with the left hand, and never stop with just one cup. Such action was a slap against his hospitality.

Just prior to Cecil's address, John Babb presented Cecil with an Arab headdress (see photo) which he wore for the remainder of the evening.

Grant Dove, TI group vice president, extended the official greeting to our ex-GSlers and ARAMCO friends, complimenting these early pioneers for the important part they performed in the discovery of oil in Saudi Arabia. He then proceeded to bring us up-to-date



Fred Bucy, Ida Green, Odetta Bucy.



Jack Kobler reciting "Ode to a Skylark."

by discussing briefly the splendid relationship which GSI has enjoyed with ARAMCO through the years as the search for oil in that country continues and the many ways that Saudi Arabian oil has impacted today's economy and industry.

Grant praised these men for helping to "create the pioneering spirit which pervades Texas Instruments today" and revealed the importance of electronics to our life style, particularly the very large scale integrated circuit (VLSI) which is the key to further gains in the pervasiveness of electronic technology.

In closing, Grant said, "To all of you who had the courage and adventurous spirit to go to Saudi Arabia in the early years, we owe a great deal — for the pioneering tradition you helped create within TI and for the oil discoveries

Ode to a Skylark or Where Have Those Forty Years Gone

*Forty years have passed as you can see,
Since these stalwarts journeyed to Araby.*

*All were determined to work and toil,
Some cast their lot with Standard Oil.*

*Others, chasing that pie in the sky, said,
"Let's Do or Die for GSI."*

*Tho some of this group have gone too soon,
Let's salute the remnants in this room.*

*A few of these fellows attained fortune and fame,
So the least we can do is mention their name.*

*The first is Arnold — a man called "Boog,"
He was tough and mean as a hunter should,
He ranged Arabia's burning sands,
And caught a wildcat with his two bare hands.*

*You all remember Johnnie Babb,
A technician supreme with his own portable lab.*

*Thomas Barger — a real bedu,
A fine geologist and gentleman too.
Later on his career really got hot,
He turned into a truly big shot.*

*And Richard Kerr — what can we say,
We miss that guy to this very day.*

*Burt Beverly, bird dog supreme,
He was an integral part of the team.*

*A man always to the fates defiant,
Some folks called him the "Little Giant."
There was Carr, Dulancy, and Audio,
Fisher and Friday — there's more to go.*

*Skinnie Holbert was more than a pal,
Just hearing him laugh raised your morale.*

*Johnnie Lewis never counted sheep,
Just prop him up and he'd fall asleep.*

*Ole Eddie Dickson — a perennial bit,
At the drop of a hat he'd put on a skit.*

*Pinkey Truitt never sat on his tail,
He walked the floor waiting for mail.*

*Robert R. Phillips never told a lie,
But it's known the truth he did amplify.*

*Jack Kobler didn't fit with fellows like these,
For he had no idiosyncracies.*

*And topping the heap of the GSI throng,
Was Cecil Green — still going strong.
If you needed a speech he was prepared to be heard,
With a few thousand carefully chosen words.*

*So if you'll pardon this doggerel about years of yore,
I hope you all make about 40 more.*

Jack Kohler



Cecil Green, Burt and Barbara Beverly, Bob Dunlap.



Pat McDaniel, Jim Toomey, Tot and Cottie Seager, Dolan McDaniel.



Burt Beverly offering some words of praise for those early GSIers.



Cottie Seager, Pat Moore, Reba Kobler.



Tom Barger mentioning some of those early pioneers.



John Babb placing Arab beaddress on Cecil Green.

which have changed the world and which will continue to impact our lives for many years to come."

Skinnie Holbert finished off the program, telling a few of the experiences he recalled in those early days in Saudi Arabia and by expressing his appreciation for the opportunity to join together once again with old friends in the celebration of "40 Years in Saudi Arabia."

Immediately following Skinnie's comments and just prior to the conclusion of this important reunion, Dolan presented a specially prepared booklet to our ex-GSIers and ARAMCO friends that highlighted in photographs and words many of the happenings in Saudi Arabia in the late '30s and in subsequent years. The bulk of the photos used and historical accounts given came through interviews conducted by this writer with most of the ex-GSI people already named in this article. We give special thanks to them for allowing us their time and the use of their treasured possessions in helping to make our "40 Years in Saudi Arabia" program a memorable occasion. §

Skinnie Holbert topping off the program with his words of appreciation for this reunion.

Les Cerny Marks 25th Year as KSKY Disc Jockey



Twenty-five years ago, Leslie Cerny, Engineering Drafting, began broadcasting "The American-Czech Melody Hour" on Dallas radio station KSKY. The program is heard each Sunday at 3 p.m.

Although he was born in Texas, his parents were born in Czechoslovakia; and from them he learned to love the music of their native land.

The program, which he does as a hobby, was started for Czechs, but people of many nationalities have enjoyed hearing the Czech music. So in addition to his regular Czech recordings, he also uses recordings of leading artists of Germany, Poland and other European countries.

Originally, Les' commentary was in the Czechoslovakian language only, but because of requests from the younger generation of Czechs and people of other extractions, he now gives the commentary both in Czech and English.

Many of the recordings used on the program are imported, and he believes they have no duplicates in the United States. These include Ultraphon and Esta labels which Les has collected for a long period of years from scattered parts of the United States and Czechoslovakia. Most of these records have not been on sale in the U.S. record shops for years.

In addition, he receives records which are being played on current Hit Parade lists throughout Czechoslovakia. These are on the Supraphon label.



Les doing his thing.

The polka has a variety of tempos, enough to please every type of audience, and these are used on "Melody Hour" which includes polkas, waltzes, schottisches, tangos, marches, mazurkas and others.

The program also presents excerpts from operas, performed by Czechoslovakia's leading artists, and full symphonic orchestral recordings.

Also popular on the program are local polka bands who play in person along with polka bands from Nebraska and Minnesota touring in this area.

Over the years Les has received fan mail from all over Texas, Oklahoma and Louisiana, and is still going strong. §

Les and KSKY control engineer Pat Cunningham.



GSIers posed for this shot on the road to camp. (L to R) Jr. IE Tony Stratton, IEs John Pritchett, and Jerry Gaddis.



Portion of crew gathered outside the jug truck. (L to R) mechanic Bill Underwood, Tony Stratton, mechanic John Barker, and Jr. IE Rodger Dowdney.

Flagmen guarding explosion area (bats, jumpsuit and flag are all red).



Local pictured with mules carrying explosives.

Party 1676 Shaking It Up in Iran

by
Robert Wilson

Party 1676, with trucks, equipment, dynamite, mules, expatriates, and local workers, moved into an area around Bandar Abbas, Iran (one of Iran's larger ports), and began shaking the earth with large amounts of dynamite on the surface. And I do mean "shaking!" They set off such a large explosion that an Iranian Air Force helicopter was scrambled from a nearby airbase to investigate the first shot.

Safety, strongly stressed, was in full swing with shooters wearing red jumpsuits and red hats for high visibility and protection. Four flagmen surround the shotpoint to view the entire area and prevent unauthorized personnel from entering the shot area.



Shooting crew laying out the explosive cord with the dynamite set on top.

The crew used DFS* V recording instruments, and due to the rugged terrain, a portable doghouse. The doghouse, looking more like a space capsule, is designed to be transported by helicopter.

Until the expatriates learned more Persian, instructions had to be given through the few Iranians that spoke English. When all else failed, sign language and phrase books filled the gap. "Doodle-bugger" language was the common one, with words like "dynamite," "shooterman," and "doghouse" familiar to the Iranians because of previous seismic experience.

As if the normal problems and hazards of a seismic crew are not enough, Party 1676 is working in an area that has had two major earthquakes within a year. That's a lot of "shaking" going around! **\$**

*Trademark of Texas Instruments



Assistant PM Steve Dalton.





(L to R) Rodger Dowdney, Jerry Gaddis and PM Gerry Devaux outside the doghouse.

News & Notes from Here & There

NSBD Celebrates!

Vern Jackson, Airborne Geophysical Services, celebrated 25 years at TI on February 27 in the South Building Cafeteria. He received a collection of books on historical aircraft and early aviation pioneers as his gift from NSBD.

Bill Lancaster, Ecological Services, received a banjo as a gift from NSBD for completing 20 years at TI as of February 10. Everyone celebrated with a party held in the South Building Cafeteria.



Shooters setting off dynamite charge.

First day of shooting Jerry Gaddis gives instructions on equipment and layout.



Vern (L) displaying gift as Ray Toole, NSBD manager, looks on.



Ray (R) presenting the gift to Bill.

The Mark of a Winner!



Many of you saw a photo of Payson Willard, Engineering systems manager, with his first prize 58 in., 38 lb 3 oz king mackerel in the February DallaSite recently.

Well, as a result of that "prize catch," he now holds a citation (L) from the State of North Carolina and a trophy (R) from the National Industrial Recreational Association.

Two Receive 15-Year Badges



Left to right: Vern, Bill Norvell, and Frank.

Frank Lord, Documentations manager, and Vern Heisler, mechanical technician, both celebrated 15-year anniversaries May 2 in the South Building Cafeteria.

Bill Norvell, manager of Engineering, made the awards presentation.

It's a Girl!



It's a girl, and Gary Myers, NSBD information coordinator, and his wife Diane are proud of it! Gary's co-workers decided to highlight that fact with a special cake for the occasion.

Carissa Lynn was born March 6 at Medical City in Dallas, weighing in at 5 lb 2 oz.

Marion Hill Honored as First NSBD Retiree



Marion Hill, NSBD Aquatic Processing, celebrated 17 years of service at a retirement party held March 31 in the South Building Cafeteria. Her husband Earl and many co-workers and friends were on hand for the festivities. Left to right: Earl, Marion, and Ernie Vigil, manager of Aquatic Processing.

John Gurke Celebrates 20!

John Gurke, Research technical staff, celebrated his 20-year anniversary at a party held March 31 in the SSD Conference Room.

Dolan McDaniel, SSD manager, presented John with his 20-year badge and a gift certificate for a new Winchester 94 deer rifle. Several co-workers were on hand for the cake and festivities.

John (L) and Dolan exchanging handshakes.



FFA Show Winner — Jamie Barton

Sandra Wyatt, Airborne Geophysics, and husband Don have an FFA Show Winner in the family. Their son, Jamie Barton, was top winner in the McKinney Future Farmers of America show held on March 25. Jamie's prize Charolais cattle took three Grand Champion awards. The Grand Champion of the Novelty show was Jamie's twin Charolais calves. In the Exotic Breeds division his 13-month-old Charolais took Grand Champion. This year the show awarded a Grand and Reserve Champion for the complete show. The Grand Champion award was also won by Jamie with his Charolais heifer. Jamie is a senior at McKinney High School.

Tiers Named as Senior MTS Honorees

Eighty TI engineers and scientists were named March 23 for recognition as "Senior Members of the Technical Staff" of Texas Instruments Incorporated, a position newly established this year on the company's technical ladder of advancement. Three SSD employees were named among the eighty — John Bedenbender, Michael J. Cox, and Jerry Saxton.

This Senior MTS title is intended to provide corporate-level recognition of highly productive members of TI's technical community, whose contributions are strongly associated with their personal scientific and technical competence and creativity.

Meet the Judges



Our recent photo contest was a great success, with many entries for the competition. (L to R) contest judges Frank Lord, Ray Newby, Bill Prather, Keith Nichols, and Frank Fuller had their work cut out for them as they chose the winners.

Vital Statistics

Malcolm Lansley, area geophysicist, and his wife Lynda are new parents of a 7 lb 13 oz baby girl. Katherine Alison was born March 13 at Medical City, Dallas.

Greg Gow, Marine party manager, and his wife Marcia (formerly with the Marine dept.) are new parents of a 7 lb ½ oz baby girl. Tara Corenne was born March 26 at Presbyterian, Dallas.

Lynn Heitman, Engineering instrumentation manager, and his wife Debbie are new parents of a 7 lb 9½ oz baby girl. Shannon Elise was born May 12 at Medical City, Dallas.


Art Carpenter, NSBD processing, and his wife Marilyn are new parents of a 7 lb 4 oz baby girl. Laura Marlene was born April 5 at Plano General, Plano.

Marriages

Ken Roberts, NSBD Aquatic Processing, married Marilee Liseac at a ceremony held January 22.

Suzanne Cottrell, NSBD Aquatic Processing, married Carl Smith at a ceremony held April 15.

Carl Hopfinger, Geological Services, married Linda Lorenson at a ceremony held May 6.

Payson Willard, Engineering systems manager, married Linda Bussey at a ceremony held April 29. 

DENVER FIELD OPERATIONS GOING STRONG!

by
Gary Patton



*Party 1742 performing noise analysis
in Dubois, Wyoming.*

The Rocky Mountain area has developed into one of the hottest exploration areas in the world. An average of 70 seismic crews are operating in Montana, Idaho, Wyoming, North Dakota, Utah and Colorado.

Much of the activity is concerned with new plays such as the Overthrust Belt, but old basins such as Williston, Powder River, Big Horn, Green River and Paradox are being reshot with modern techniques.

GSI's Denver office re-entered this market last summer with a high frequency vibrator crew in the Williston Basin. A second vibrator crew was on line in November. In October we entered the portable market with a dynamite crew capable of operating in remote areas utilizing helicopter support. Demand still outweighs supply and the crews are moving full force.

Party 1740, with PM Jim Unfried, has vibrators with high frequency electronics. They are using DFS* V instruments with 120 trace capability. To date this crew has worked in Wyoming, North Dakota and Utah.

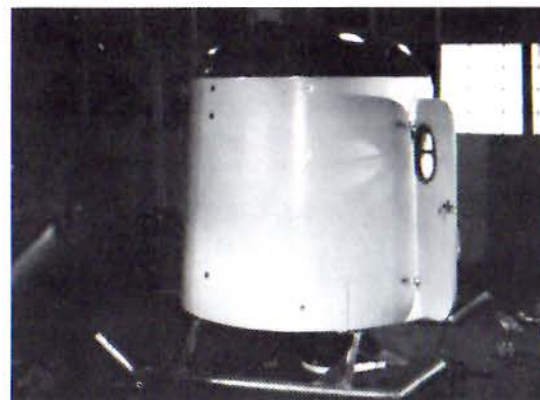
Party 1741, with PM John Moran, has similar capabilities to 1740, but uses DFS* IV, CFS** I, and is 96 trace. This crew was the first on line and has shot in North Dakota, Wyoming, Utah, Colorado, Montana, Kansas, and Nevada.

Party 1742, with PM Norm Jetland, also uses DFS V vibrators and has a 96-trace configuration. The instruments can be located in a panel truck or a portable doghouse for helicopter support. This crew has worked in remote areas of Colorado, Wyoming and Utah.

The crews are supervised by Larry Parker and are supported for both data processing and operations by Gary Patton and Mike Boling in Denver. §



Party 1741 near Gillette, Wyoming.



*Party 1742's portable
doghouse, "R2D2."*

*Trademark of Texas Instruments

**GSI Service Mark



Party 1742 digging shot holes.



Party 1740, with PM Jim Unfried outside recording truck.



Party 1742 in Craig, Colorado. Jerry Culver, field support, outside recording truck.

A SPACE AGE GEODESY

This is the story of the seismic starship S/S C. E. McAclap Explorer and her crew who boldly go where wise men prefer not to bother.

by KIM STARMIRTH The Bionic Q.C.

Star Date 288-77-2912

Our story opens in the spacious, human-factored systems operations module.

Interstella navigation operator Magnus Drabwash gazed in disbelief at his orbital scanner: Almost two significant bits off line! For two bits the MOODI (Martian Oil & Ore Development Institute) could demand a re-scan.

"Four hundred kilometers to end of line" flashed on the screen in front of him. "What does the helmsman think he's doing?" he thought.

"Keep to the center of the screen!" bellowed Drabwash into his communicator.

Instantly Q.C. Kim Starmirth glanced up at his VDU. His Q.A. 59 bionic eye scanned the data panel.

"Crosstrack 1.8 m, altitude 160 km," the message flashed from the bioengineered retina and assembled itself in his consciousness.

"1.8 close to the limit," he muttered to himself. "Navigation's not worth a ---!"

The quiet complacency was rudely interrupted by a penetrating mental alert. The MK IV Dynamic Fusion Scintillator was indicating a heavy metallic ore deposit situation. Automatically a surface-tracking spectroanalyzer probe (STS) flashed silently from the gleaming hull. Within a minute the elemental data analysis of scan point 54263 flickered across the screen: "Oxygen, ...; silicon, ...; magnesium, ..."

"Check the plasma source controller!" urged Q.C. Starmirth.

Drabwash nimbly ran his fingers over the tactile pressure gates.

"Cationized Hydro-plasmatic Exponential Energy Assimilator (CHEETA*) Q.A. check normal," indicated the computer.

At that moment the voice of the commander, Willzed Deeply, rang out over the communication system: "Interplanetary container vessel just crossed the plasma stream!"

"Oh not again!" exclaimed I.E. Rice Lockwick. "This should cure the trouble," said he, slipping a strip of black adhesive tape under the automatic STS fire control relay.

"Autofire," logged the observer as all personnel units returned to their ergonomically optimized positions.

"That's torn it!" interjected Drabwash, breaking the short-lived silence. "Space Station 4 off the air again."

"Will we ever get this survey finished before the northern Martian dust storms obscure the planet's surface," thought Starmirth as he noted in his log: "Star date 288, pneumatic Air Controlled Kinetic Engineering Robot (ACKER*) due to arrive at Space Station 4 tomorrow."

If that couldn't cure the problem, nothing could!

"Terminate," cried Starmirth.

"Terminated," bleeped the computer. §

*Terrestrial Instruments Service Mark



S/S C. E. McAclap Explorer in action over the red planet.

WHO ARE THEY?

I dare you to identify this group! They go way back as you can tell from their outfits.

I have identified one person, but that is as far as I got. Can you help? I'm sure many of our readers would like to know. How about writing *The Grapevine* with your answers and I'll publish your name and the information in our next issue.



How the 42-Gallon Barrel Came Into Being

In early, frenzied days of the oil business, customers bought petroleum in barrels, which they furnished and transported themselves. Prices were set by the barrel — and just about any size and kind of barrel qualified, as long as it was ample enough to suit the buyer yet not too commodious in the eyes of the seller.

Such an arrangement was bound to cause not only confusion, but friction. Tempers quickened as prices rose and fell, and before long it was apparent to everyone that a realistic measure would have to be established and held to.

So in August of 1866, a group of producers got together in the U.S. and issued a proclamation which read, in part: "We mutually agree that we will sell no crude oil by the barrel or package but by the gallon only. An allowance of two gallons will be made on the gauge of each and every forty gallons in favor of the buyer." While they specified the gallon as the measure, it was the forty-two-gallon barrel that gradually emerged, through years of usage, as the common unit. Today it is the measure that keeps track of each and every new drop of oil from the ground, but it is a measure that exists only in statistics. An actual barrel (or drum) of oil nowadays contains fifty gallons.

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SSD "Shutterbugs" PHOTO CONTEST UPDATE

Just a reminder that the Science Services Division 1978 Photo Contest deadlines are June 30 and December 31.

All GSI, NSBD and TI personnel are eligible. \$500 is awarded each contest period — \$250 First Prize, \$150 Second Prize, \$75 Third Prize, and \$25 Fourth Prize.

Photos will be used by SSD Marketing for advertising, brochures, displays, newsletters, and *The Grapevine*.

Subject matter should be of SSD personnel performing field, office and laboratory operations:

- Field — field equipment and operations against a panoramic scenic background.
- Office — computing centers and equipment, mapping, data input, etc.
- Laboratory — microscopic work, analysis, etc.

Photos will be judged on the basis of how they illustrate our operations, photo composition and subject material. Requirements are: color only (prints, negatives or slides), no limit to quantity per person, identification of photo (when, where, names of people in photo, and description of subject).

Include your name, address and mail station. All slides, negs, or prints will be returned. Entry of photos automatically gives TI and subsidiaries the express right to reproduce and use photos as they see fit.

DFS School Held in Dallas

A DFS* V school was held for marine operators February 20, followed by a DFS* IV school. Most of the marine personnel attending were navigators for the purpose of cross-training. Graduation was March 31.

*Trademark of Texas Instruments Incorporated



Seated L to R: Louis Thompson, Frank Locoscio, Bill Lee, Chuck Campbell.

Standing L to R: William Lloyd, Mike Boxall, Brett Fucha, Sixto Ognilla, Mayo LaCour, Kenneth Hubbard.

In Memoriam

George Rheame died of liver failure May 22, 1978. He was assigned to field operations in Sweetwater, Texas. George had been a GSler since August 1968.

Elmer McManus died of cancer May 18, 1978. He was assigned to field staff based out of Midland, Texas. Elmer had been a GSler since January 1973.

The Grapevine extends its deepest sympathies to the families and friends of these two men.

Course Completions

Course 1R: Introduction to Seismic Exploration

A. J. DeKoning Chevron Oil Co. The Netherlands
David P. Lawrence Party 4729 Bedford

Course VR: Basic Theory of Seismic Instrumentation

Randall Bertsch Party 1195 Denver

Profit Sharing Investments

Investments of the TI Employees Profit Sharing Trust are evaluated at the end of each month. The evaluations shown below for the Diversified Fund and the Income Fund represent performance of each \$100 in each fund at the beginning of the year and do not include dividends, interest, or forfeitures. The TI stock price is an average of high and low prices as reported in the Wall Street Journal for the last trading day of the month.

Month Ending	Diversified Fund	Income Fund	TI Stock
Jan. 31	\$95.93	\$100.00	\$73.69
Feb. 28	92.15	100.00	62.19
March 31	94.63	100.00	64.13
April 28	(Not Available)		77.00



TI STOCK.—The chart shows high, low, and closing prices of TI stock on the New York Stock Exchange from March 1, 1978, through June 9, 1978. The left-hand scale is in dollars, vertical lines connect high and low prices for each trading day, and the curve follows closing prices.

Service Anniversaries

30 Years

John R. Leathers
Lloyd Johnson

25 Years

Ottie R. Leathers
Edward J. Grutter
James H. Funk

20 Years

John L. Gurke
Lawrence R. Parker
James L. Callander
Millard McDonnell

15 Years

John T. Matthews
Barney R. Milner
Eloy F. Perez
Eric J. Hooke
Robert A. Marchio
Russell A. Lajaunie
John Wardell
Lynn E. Sanders
Lonnie D. Brooks
Ronald D. Bauer
Robert G. Faulkner
Charles Keenan
Justo E. Bulla
Charles W. Fisher
Edward J. Froeba
Sue B. Moore
Joseph C. Pizzarello
Lavern J. Heisler
Carroll O. Jolly
Kenneth J. McGuire
Claude F. Lord, Jr.
Raul Mera
Bedros A. Bongoukian
Walter S. Nance, Jr.
Earline W. Kennedy
Buddy J. Crand

10 Years

Lipcio A. Vallejo
Thomas A. May
Lindsey Horn
Peter A. Cromer
Jesus C. Zamora
Ernesto C. Suero
Blanche N. Cahill
Charley J. Blalock
Francis J. Buckmeier
Jerry W. Corbin
Betty M. Kappelman
Angel Kostiszer
Carmen R. King
Jessie F. Wagley
Chim-Huon Lim

Tommy L. McDonald
Frank R. Howson
Pedro C. Gonzalez
Wesley J. Stevens
Charles G. Forster
William R. Brazel
Ian T. McMahon
Anne M. Ibbetson
Calvin E. Martin
Mary C. Dusek
Frank X. Viso
Timothy D. Bishop
Gerald M. Gilbert
Rita K. Akins
Joel R. Recoro
Douglas S. Neil
Jorge A. Quiroga

5 Years

Victor M. McDonald
Duane H. Boy
William F. Lively
Geoffrey K. Marston
Eric W. Botka
Michael A. Locke
J. C. Parker
Janice M. Fleming
Murray E. Laidley
Larry G. Bowles
Charles W. Durrett
Richard E. Moos
Philip G. Wendt
Diana O. Wiley
Carlos T. Arenivas
Judson E. Whichard, Jr.
George A. Roth
Emil G. Ekman
Jack M. Isaacs
Lavaughn F. Watts, Jr.
Emilio R. Martinez
George W. Nickerson
Phillip G. Hontz
Luis C. Juarez
John M. McDermott
Richard J. Stewart
Robert J. Dowe
Stanley F. Purvey
Terry W. Long
Edwin L. Jones
Steven A. Svatek
Richard G. Schafale
Juan C. Carreon
Audrey M. James
William L. Kelley
Robert E. Mitchell
Willie J. Prather, Jr.
Kendall K. Brown
Phillip J. Butler
Antoinette Eldredge
Photos Photiades
Bruce D. Craig
Joe Boler
William L. Scott

Richard V. Helgason
Margaret Hillyard
Terrence G. Pritchard
Robert M. Boling
James S. Schuelke
James B. Casey
James M. Marischen
John J. Sallas
Artie R. Lee
Beatrice Swartzenduber
Jose Kostadinoff
William G. Peck
Roy D. Smith, Jr.
Sandra D. Jeffus
Arthur P. Ricciardi
Susan P. Olson
Robert D. Wynne
Souhail A. Nowaihed
Melvin R. Rump
Robert D. Frisbee
Ralph M. Shapot
Elmer R. Onucki
John P. Gay
Roy Fisher
Robert M. Guebara
Johannes Slijderink
Martin P. Otter
Matias Garcia
James H. Goodman
Evan G. Morrison
Vera J. Reid
Joseph J. Kmeck
Robert L. Pina
Vickie L. Dryk
Kenneth W. Fuell
Daniel E. Hardy
Marsha A. Russell
Tildon P. Roberts
Jose R. Padilla, Jr.
Hugh T. Logue
John A. Duizend
Charles H. Lewis
Thomas R. Orvosh
Peter G. Fairbanks
Bruce A. Johnson
David T. Palochko
Henry M. Woodward
George E. Herd
Alexander C. Pena
Michael S. Williams
Barry J. Ashton
Myrtle S. Coles
Robert G. Mood III
George M. McLellan
Wayne A. Sims
Geoffrey Collins
Joseph R. Love
Robert E. Lange
Thomas R. Hanna
Jose L. Gomez
Joel W. Shorey
David M. Lowell
Norma P. Henson