

Fifty Years
of
Innovation



A GSI LAND OPERATIONS PUBLICATION

PARTY 1745—EVANSTON, WYOMING

by
Mari McNair

Party 1745 was organized from scratch as a short time crew to collect 3D data near Evanston, Wyoming in September 1979.

Using only a few vehicles, a small nucleus of personnel, and an instrument truck consisting of a 120-channel DFS* V system mounted in a Blazer, the crew over a period of time and experimental change developed from a conventional 3D crew into the first fully-portable 3D crew.

The project consisted of over 1000 shotholes drilled on a grid system covering more than 15 square miles. Due to the rugged terrain and the weather, both conventional drill rigs and track mounted drill rigs were used to drill the shot holes.

The basic collection method was a rolling swath consisting of four parallel lines. The shot points were laid out at right angles to the receiver lines.

The first few swaths were recorded using sheer manpower to lay out the cables and geophones. When late fall snow and rain made cross country travel nearly impossible, a helicopter was brought in to aid in moving the cables and phones.

Through trial and error some innovative methods of moving personnel and equipment have been developed and lay-out time



Franz Von Herrin, Survey Support, and Terry Long, 3D Processing manager, laying out first shot points. has been reduced by 2/3 over the methods originally used.

Plagued by radio problems, rugged terrain, occasional heavy snows, and the need to locate shotpoints laid out cross country, a method of effectively using the helicopter to move two shooters in leap-frog fashion between

Cont. on pg. 2

*Trademark of Texas Instruments

Doodlebug
Dispatch



Vol. 2, No. 4
April 1980

PARTY 1805 LEAVES LAMBONANG

On January 19 Party 1805 completed their move from Lambonang to Balikpapan, East Kalimantan, some 100 km to the South. This move began in December when the survey department transferred to new headquarters in town. Since then almost everything has been shifted to Balikpapan, with the camp in Lambonang used as a staging area for support of the recording crew still working nearby.

The recording crew reached Lambonang the afternoon of the 18th. The rest of the day was spent checking and counting equipment (and men) — surprisingly,



1805 staff house — Lambonang, East Kalimantan, Indonesia.

Cont. on pg. 4

†Copyright © 1951. TM Hughes Tool Co.

PARTY 1745 — EVANSTON Cont. from pg. 1

shotpoints has greatly sped up the recording sequence.

With a long-term portable project sold and the hopes of more portable 3D projects later in 1980, the prospects for the crew look good.

Through hard work, trial and error, the crew has developed from "the boat people" to an organized unit pioneering some innovative methods of shooting portable 3D in the Rockies.



Drilling rig within Wyoming prospect.



Chuck Hinman wrapping cable.



Marty Hall, safety director, with PM — close-up of helicopter.



Pete Worsnop, Survey Support manager, and Louis Thompson, permit agent, discussing land permits.



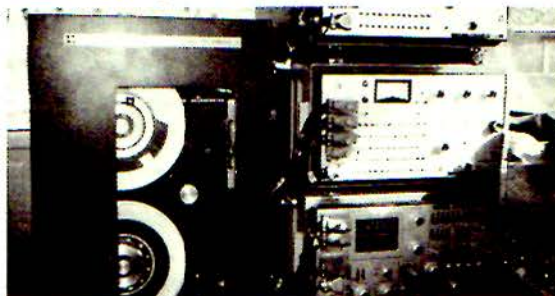
Experimental surface charge.



Track-mounted drill rig.



Blazer housing 120 channel DFS V recording unit.



Interior of Blazer, tape unit on left, 2 amplifier modules and the control module on the bottom.

GEORGE BUZAN: Profile of an Achiever

Even a well-educated man like George Buzan, who speaks three foreign languages (Spanish, Arabic, and Portuguese), holds a BSE in Geological Engineering from Princeton University, has two years graduate work in Geophysics at Texas A&M and the University of Houston, and is presently in the executive MBA program at Pepperdine University at Houston, can occasionally make a mistake.

It seems...but let's let George tell it:

While I was in Saudi Arabia, I thought I would learn to tell my workers, "Don't worry," in Arabic. So I looked up what I thought was "worry" in my Arabic dictionary. It said, "tenhash," so I went around saying "la tenhash" to people whenever I felt it was appropriate. For six weeks knitted brows and frowns would change to open smiles whenever I said, "la tenhash."

Eventually, while on leave, I used the phrase while speaking to the Arab wife of a friend of mine. You can imagine my embarrassment when I found out that, for six weeks instead of saying "Don't worry," I had been going around saying, "Don't bite!" (It took me two more years before I learned, "Don't worry." But you know, if I



George Buzan

live to be 100 I'll never forget, "Don't bite.")

George, in the true doodlebugger tradition, was only trying to contend with the difficult situation of dealing with people of another culture and language. In addition, he handles other typical difficulties encountered during his GSI career with the same spirit of innovative thinking (rain, snow, deer season, lambing season, and south Texas cotton crops, etc. — which he says, "makes keeping crews out here an interesting scramble"). He finds solutions to make his (or a crew's) life easier. He says, "If you add the personnel function, I'm busier than a one-armed paper-hanger."

Currently a Midland-based geophysical supervisor, George has

been in his present assignment ten months. He came to GSI-Houston in September 1974 as a data processing seismologist. He worked as an APC on a data processing crew in Houston from June 1975 to January 1976 when he joined QCCE, Party 1602 and 1606 in Saudi Arabia from January until August 1976. He was APM on 1610 and 1606 in Saudi Arabia from August 1976 until September 1977, becoming PC of 1663 in October 1977 where he remained until May 1979 when he transferred to his present position in Midland.

This achievement-oriented man lists some important career triumphs — processed and finished a large group shoot in the summer of 1975, ran Party 1610 during the first swath shoot in Saudi Arabia, helped market a 120-channel DFS V, FT 1 crew, conducted a market survey of mineral exploration clients in Saudi Arabia, and currently is involved in increasing field trip participation of data processing crews in Midland.

Travel, reading and studying local history and language keep George busy in his off-time. This year, his brand-new bride, Linda, has been added to his list of priorities.

— Sue Hood —

Plane Survey School



Tom Morris, Dave Dwyer (standing), and Mike Coan and Don Horton (sitting) attended a Plane Survey School held February 25-March 14 at Howard Johnson's in Dallas. Instructors were Gordon Langlie and Dave Dwyer.

GSI-Croydon 50th Anniversary Celebration Plans

GSI-Croydon has hired a local rugby field and a marquee (in case it rains) for May 18, 2:00 p.m., to celebrate GSI's 50th Anniversary.

Our plan is a family afternoon celebration with games and film shows for the children and a barbecue for everyone. The barbecue will end approximately 7 p.m., and then the grown-ups can get down to the serious business of drinking and dancing.

The whole event is scheduled to end at 11:30 p.m.

— Joe Hickman —

PARTY 1805 — LAMBONANG Cont. from pg. 1

very little was missing except a few geophone carriers (after all, there are some crocodiles in the Jambayan River!).

As this was my first experience with a full-scale move, I was curious to see how quickly a very large recording crew and their supplies could be loaded on boats and shipped downstream, there to be transferred to trucks and taken to a new line. I was shocked when everything went off like clockwork; by noon almost everyone had been moved with the exception of a few of us who had to wait for a truck that arrived 3 hours late.

The recording crew was closely followed by the remaining equipment from Lambongan — refrigerators, stoves, Manfred, and

other heavy items which needed moving. Total time for the transfer was about 8 hours, pretty good considering the amount of things to be moved. I've always felt that field operations themselves are good examples of P&AE in action,

and the move was another positive indication of this.

After spending many months in Lambongan, it will be a place none of us will ever forget — no matter how hard we try!

— Jerry Rotz —



Checking geophone spacing on new jungle "areal" array for 1805's new 4-D program (if 3 is good, 4 must be better!).



Final packing.



Recording crew moving out — instruments in another boat.

An Antipodian Doodlebugger

Possums!

It's high time you folks outside GSI-Croydon were introduced to our very own "Dame Edna" Lockhart, known to his close friends as Menagerie Mike.

Now, after fourteen years with GSI, his "part time" vocation involves acting as an endearing PC to fifteen members of crew 4604. A job he enters with plenty of Australian vitality — a trait all of us true British are still lacking, I'm sure you'll all agree! His alternative career (please note this was only hearsay) is modeling with all his various pets!

Born in Australia (birth date officially unknown), with Scottish ancestry (this we believe accounts for his taste for liquor), Mike insists his love for pets dates back to his upbringing. There is little doubt though, that his Czechoslo-

vakian wife also has this same taste for animals; for between them, they have amassed several cats, three dogs, a tortoise and an angel fish. Quite a party, you must think. Certainly the old cliché "feeding time at the zoo" must ring true at the average meal.

Maybe, to the innocent observer (I include myself in such a category) the existence of such a collection seems bizarre enough. Yet, the strangest characteristic of all these pets (which, may I add, range dramatically from a Great Dane to the tortoise) are their names.

Mirko, meaning "Lover of Peace," demonstrates the good nature of Mike's guard dog, the Great Dane, while Mischka "little mouse" describes the poodle in an adequately contrasting manner. The affection for the animals can

be undoubted when the moggie, cat of the family is called, Milachko, "darling," and the angel fish, "Jaws." (Rumor has it that Jaws has also been living up to his name after devouring every proposed mate.)

I suggest a fine name for Mike's house would be "Never a dull moment." I guess really though, the question we ought to ask is "what is it us 'pommies' honestly lack" — a partridge in a pear tree!

— Hugh North —



Pussycats galore!



Oh my! What a lovely "throat" you have!



Eastern Extra Shallow Operation — 1322

Party 1322, a shallow water crew specializing in difficult areas, i.e., rivers, very shallow bays, and left overs, began operation in November 1979.

We shoot airguns off of a barge by the name of "Mr. Wade" that can be broken down into five units and transported via land. The recording barge was delivered without a name, however, so it is now called "Doodlebugger I" (mostly for identification purposes). IE Ted "Teddy Bear" Gwyn came up with this handle. The



Gun barge — Mr. Wade.

"Doodlebugger I" can also be transported via land, making Party 1322 highly mobile. Both "Mr. Wade" and "Doodlebugger I" are owned by GSI. In addition to these two units we are backed up by three 32-ft crew boats, one for survey and two for cable; also we use one 20-ft ski barge for troubleshooting.

The crew is presently shooting in Galveston Bay, Texas, and working out of Crystal Beach, Texas. Crystal Beach is on the Bouver Peninsula some ten miles from Galveston, Texas. This is the only place I have ever been where the mosquitoes wear overcoats in winter time, so they can survive to bite you.

The crew is spearheaded by PM Boyd Dobbs and operated by air-

gun specialist Richard Truax with support from Reggie Pace and Louis Strickland. "Teddy Bear" and IE trainee Ted Wilson are the dog house experts. Our survey team, throwing bricks tied to plastic bottles in the water so they can find them again, consists of Marlene Peacock, Joann Bernardy and Judy Roper. ONI's Jerry Scott tells them where to "drown the bricks." The ones that catch heck from both Ted's are Chuck Theyel, Duane Dupuy, Mike Guidry, Bea Nep-



Recording boat.



Cable boat with recording crew.

tune, Ted Furge, John Martin, Richard Thorpe, and Kendal "hondo" Pfeifer. Mechanic Hugh Sexton keeps us running. We were recently joined by Lynn Cooper, operation trainee from Dallas, Texas. We have been doing real well for winter in the water — both kinds, hot and cold.

— Boyd Dobbs —

In Memoriam

Stu Burnett, Party 1222 PM, Pecos, Texas, died March 1 in a train/vehicle collision. Stu went to work for GSI March 27, 1967.

Funeral services were lead by Jim Daniels, GSI surveyor and Baptist lay-preacher, at the Pecos Funeral Home on March 4. The service was attended by numerous

GSIers including pallbearers Cap Heath, Bob Nebel, and Ben Gonzales, among others.

Burial was in California.

The DOODLEBUGGER wishes to join GSIers worldwide in extending sympathies to Stu's family.

ALASKAN 50-YEAR ANNIVERSARY CELEBRATION PLANS

GSI Alaska plans an employee outing and picnic on the Alaska Peninsula in June 1980 to celebrate GSI's 50 years.

Letter to the Editor

Dear Paula,

As you may know, Nick Thomas is leaving us shortly to take up script writing in London, U.K.

All of us who have worked with Nick have a high regard for his quick wit and generous personality.

I am not a writer of any talent or history, but thought you might print this little "ode" of mine to Nick in the Doodlebugger Dispatch before he leaves us.

Regards,
Miles Pye

To "Nick" — my friend

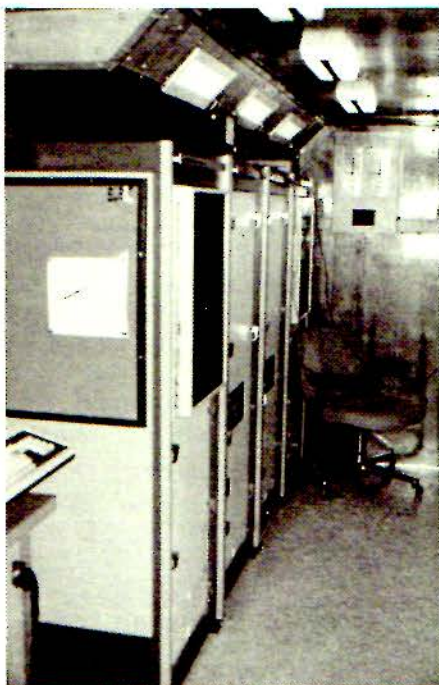
Nicholas the scribe
of literary acclaim
With thoughts to give
in him our trust
Avoid he must
Pits of vice and lust
Ambitions high
and sound resolve
We feel he must
achieve his goal
To gain what's his
through anguish and pain
For him we know
will reach some fame
A wife so beautiful
such poise and grace
Will help and guide
to find his place.
"Good luck"

— M.W.P.π —



Party 1503 — Frontera Mexico

Some of the people and equipment making it work!



TIMAP* system inside the recording truck.



PM Chris Nielsen.



Vibrator.



Some of the crew — surveyor Sergio Soria Rivera and administrators Miguel Angel Rangel and Alejandro Vasquez.



Head Cook Juan A. Ramos R. with assistant Rodolfo S. Fuentes Perez (According to Gordon Langlie, 1503 has a good thing going with these two — the food is great!)



Administrator Miguel Angel Rangel standing outside Party 1503's temporary office in Frontera, Mexico.



FT 1 recording truck.

Videotape Training

Personnel Training has recently produced a new videotape narrated by Nabil Morgan, consisting of lectures for data collection training of field seismologists. The lectures are:

- 850401—Multiple Detector Theory
- 850402—Noise Analysis Test
- 850403—Case History of Noise

Analysis Test

Personnel Training will also produce videotapes for the New Technical Skills Training Project with five major courses of study — Pre-School (pre-requisite for all Dallas classroom training) and DFS*, CMS**, FT 1, and TIMAP* systems.

As new videotapes are pro-

duced, they will be published in the newsletter. If you would like copies of videotapes listed in this column, please contact Pepper Pepperling at MSG terminal STNG, M/S 3910, or X83-4840.

*Trademark of Texas Instruments

**Trademark of Geophysical Service Inc.



doodlepatch...

Overheard in a Doodlebugger's bar: "Some men say, 'When my son grows up he's going to be president or a famous football player.'" "Well, when mine grows up he's going to be a CLIENT!" (ain't it the truth?)... Bill Renfrow transferred from Houston Data Processing to Personnel as manager and training coordinator, New Orleans, in November... An Administrators' School in New Orleans February 13-14 was attended by Bradley Winn, 1334; John Pane, 1332; Pam Thomas, 1325; Bruce Hukins, 1325; Ronald Gunter, 1331; Ronald Saxon, 1365; Derik Vintor, 1332; Suzan Sullens, 1388; and Daniel Winn, 1386. The school was given by the ever-capable Lillie Yeager and Drake Cameron... Heard, as usual, that Mardi Gras was a kick for our New Orleans doodlebuggers... Visitors to Calgary recently — Wes Marshall, Gil Kelly, Carl Brown, Jeff Hammer... John Clink had a whopping two weeks in Hawaii recently from cold Calgary... Ernest Kublick, Calgary Land Processing, and wife Joan welcomed Rae-Ann Christine on February 15. Arrival weight was 8 lb. 4 oz.... Spotted on a bumper sticker not too long ago — "Honk, if I'm an Aggie"... Dale Ezelle has returned home after a short hospital stay... An Arctic Operations review was held recently and a worldwide Land Operations review was held in New Orleans on February 19... Recent Dallas visitors — Emir Tavella, Art Mills, Dick Maxwell, Howard Viger, Cap Heath, Ron Weaver, Eric Firmin, Jim Richardson, Ed Lara... Robert

Wilson, Dallas Engineering, married Karen Carruth at Conroe, Texas, on February 23... P&AE call reports — call reports are being typed on IMS terminals checked on 914 VSUs and IMSd to recipients around the world — saving in communication time and secretarial copying time... P&AE — Communication of good ideas — Should each area set up its best P&AE ideas (or those that would be useful to others) on a TIOLR report under various headings (e.g., Field, Processing, Processing Services, Maintenance, etc.)? These could then be accessed at will by interested parties. Even remote operations have people visiting town occasionally who could pull the required report... Croydon has a bridge team in the Surrey Business Houses Bridge League Team of Four competition. Regular players are: Box Nash, Mike Lockhart, Nigel Richardson, Steve Ridgeway, Steve Simson, and Terry Davies... They also have a team in the Surrey Squash League, the "squashers" being Nigel Richardson, Ken Minty, Bob Riddy, Mike Lockhart, Adrian Bennetton, Terry Davies... Croydon teams for squash, golf, cricket, lawn tennis, darts, 5-a-side football, snooker and maybe even bridge and table tennis will enter the Croydon and District Commercial Clubs Association Club of the Year competition. Last year they came in third in golf and cricket and tennis players did reasonably well, so we can wish them the best of luck in this years games...

Casselman's Top Dog!

Gail Casselman, Alaskan site manager, took his first North Slope field trip this January to Umiat. He arrived and everything went great — until it was time to leave. He couldn't! The temperature was -65° and the planes were grounded. He kept himself busy for awhile but soon began getting "itchy." A while later he heard an Electra was flying in and figured he could get out on that. So they radioed the ground controller and conversed with the pilot. It seems the pilot didn't know who the heck Casselman was and said so (Casselman, meanwhile, was listening to the whole conversation)! To make a long story short, someone identified Casselman as "Top Dog in Alaska." Everyone got a kick out of it and soon after presented him with his very own "Top Dog Award."



Margaret Casselman, Gery and Nancy Lane, Gail Casselman (with "Top Dog Award"), and Lorne Morris.

Energy Source Anyone?

Peoples National Oil Co.
Attn: The Manager

Dear Sir:

Due to your tight budget, problems in importing/exporting equipment in and out of your country, local purchases being strongly encouraged, and in view of your statement that any surface energy source will do, we will be able to provide a crew well-suited to your needs.

Respectfully submitted,
Resourceful Geophysical Co.

P.S.

A picture of our proposed energy source in operation is enclosed.

Cont. on pg. 8

Western U.S. Safety Crew of the Month

FEBRUARY 1980 WINNER — PARTY 1205. Congratulations to Arnold Martin and crew who are operating out of Big Spring, Texas.

Western U.S. Production Crew of the Month

FEBRUARY 1980 WINNER — PARTY 1218. Congratulations to PM Bob Record and crew, who are operating out of Bakersfield, California.



Land P&AE Projects

Western U.S.

Party 1206

- Furnished all trucks with air gauges and tire pressure has been monitored regularly reducing tire wear and improving gas mileage.
- Initiated a preventive maintenance program on crew vehicles.
- The crew IE built new similarity cables reducing time spent running daily tests.
- Realized considerable savings on new columns by a machine shop repairing the broken bottom end of lift columns off their Y-600 vibrators and reinstalling them back in the vibrator with the welded end now at the top where there is less stress. (Engineering note: This kind of repair should only be attempted on older lift columns as the alloys being used on the newer columns make welding very difficult. Also care should be taken that the welded end does not pass through the bushing box during operation.)

Party 1207

- To save time and damage to seis cables, the lead vibrator is carrying a rubber cable protector to put on the cable when they have to cross it to change

sides of the line.

- To protect the diesel engines on the recording truck from bad fuel, they have installed a fuel filter on the pump on the bulk tank to clean the fuel.

Party 1209

- Replaced dry write camera with electrostatic camera with long-run savings on paper and improved record quality.

Party 1225

- After experiencing bad weather conditions which prevented normal operations with conventional trucks on farm and pasture land, the crew purchased 4 Honda 185 three-wheeled balloon-tired bikes outfitted with small two-wheel trailers which enabled them to move freely about the lease without causing damage. In addition to reducing damage, the bikes have proved to be quicker, even in dry areas, in chasing shorts, replacing bad cables, and laying out where long drive arounds are encountered. Reduced maintenance costs on trucks and fuel bills and a satisfied client have been included in the benefits.

Rocky Mountains

Party 1740

- Suggested putting a gasoline tank in the mechanic's pickup. Since this has been carried out, the crew has saved on gasoline costs and reduced the wear on other vehicles.

Party 1742

- Solved the problem of excessive wear-and-tear on preloader vehicle (supplying primacord to cat) due to extremely rough terrain by installing an old sling

basket in cat bucket for field supply of primacord. Cord is transported to cat by helicopter.

Party 1741

- Installed a mobile radio-phone in the recorder. The use of the mobile unit has a two-fold purpose: 1) safety — contact with town in case of emergencies and 2) saving on equipment down-time.

P&AE...It Works!

Energy Source
Cont. from pg. 7



DOODLEBUGGER DISPATCH

Paula Nazzaro — Editor
Harry Lake — Dallas Coordinator
Bob Erickson — Graphic Artist

Local Coordinators

Paul Davis	Engineering
Marty Hall	Safety
Clark Adkins	Personnel
Tim Rigsby	P&AE/Training
Gary Bennett	Canada
Jasper Hart	Alaska
Dorothy Roy	Rocky Mts.
Sam Haskett	Houston
Mladen Zlatar	New Orleans
Cap Heath	U.S. Support
Max Watts	Singapore
Dick Batina	Colombia
Dick Matthews	Mexico
Charlie Cook	Argentina
Bill Keaton	Western U.S.
Bil Smith/	
Marvin Campbell	Saudi Arabia
Barry Gammon	Croydon
Ed Kemp	Bedford
Shafik Zaynoun	Cairo
Phil Hunnisett	Oman
Pete Nolan	Assen
Terry Smith	Madrid

Published by the Science Services Division
of Texas Instruments Incorporated
For reprints or submission of information
contact the editor, P.O. Box 225621,
M.S. 3937, Dallas, Texas 75265,
Tel. (214) 238-5393
Printed in U.S.A.

Copyright © 1980 Texas Instruments
Incorporated