

OYO GEOSPACE @ WORK

PRODUCTS AND SERVICES **AT WORK** IN THE WORLD

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Pacific Rubiales Energy validates and approves GS-One for Colombian projects



GS-One single element geophone reduces costs, improves crew efficiency, and increases signal-to-noise ratio.

Pacific Rubiales Energy, a Canadian operator with projects in Colombia, Peru and Guatemala, recently conducted a side-by-side 2D field test comparing the single element GS-One geophone to a conventional 6x1 geophone string. The results? The GS-One again proved its superiority in terms of efficiency, cost and risk management – with no compromise in data quality.

The 10-day test, located in the eastern plains of Columbia in the Llanos Basin, was supervised by seismic contractor SAE on behalf of Pacific. Two 9.5km lines were deployed in parallel, one using GS-One geophones and the other using conventional six-string elements.

OYO loaned Pacific 500 GS-Ones to conduct this test – but no OYO personnel were involved. It was truly an objective, third-party validation of the value of the GS-One – and the results were very impressive.

Pacific reported a wide range of cost and operational advantages of the GS-One geophone based on the field test:

Smaller crews: The GS-One required less than half the crew of a conventional line, an estimated 21-person crew vs. 58 for laydown.

Safer operations: Fewer people working a survey and exposed to risks, less weight for crews to carry, and fewer vehicle trips will reduce the potential for injury on future Pacific projects.

Reduced transport costs: Pacific estimated that without the heavy cabling and extra weight of the conventional system, fewer vehicles and delivery trips would be needed, thereby reducing costs and risk – especially in dense terrain or remote regions where helicopters or barges would be utilized.



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GSR in Colombia *continued from page 1*

Improved survey parameters and quality

The GS-One system allowed for improved bin size and coverage by enabling flexibility of distribution between source and receiver.

Equivalent data quality

Pacific's results showed that constant amplification for the GS-One is 85.8 V/m/s vs. 125 V/m/s for a conventional string, a relationship that makes making it possible to replace conventional strings with a single GS-One element without affecting the quality of the seismic data. In addition, Pacific found that the preliminary and final seismic sections PSTM (pre-stack time migration) for both types of receptors was effectively equivalent.

Lower repair and troubleshooting costs

Pacific's analysis indicated that with less cabling material to be damaged or malfunction, the GS-One would reduce repair costs and potential delays.

GS-One gets the okay

Based on its findings, Pacific Rubiales Energy has now approved the GS-One geophone for its Colombian seismic projects for the rest of the year. Bidding contractors can now incorporate GS-One technology into their proposals, enabling more competitive job costs for everything from feeding crews to fueling vehicles.

"Based on this test, we feel very comfortable that the GS-One will provide us with the data quality we want and allow us to reduce survey costs – especially in challenging terrain," says Rober Yibirin, Geophysical Operations Manager at Pacific Rubiales Energy. "Comparing these technologies head-to-head was a very valuable exercise for our future Colombian operations." ■



PRESIDENT'S PAGE



Gary Owens

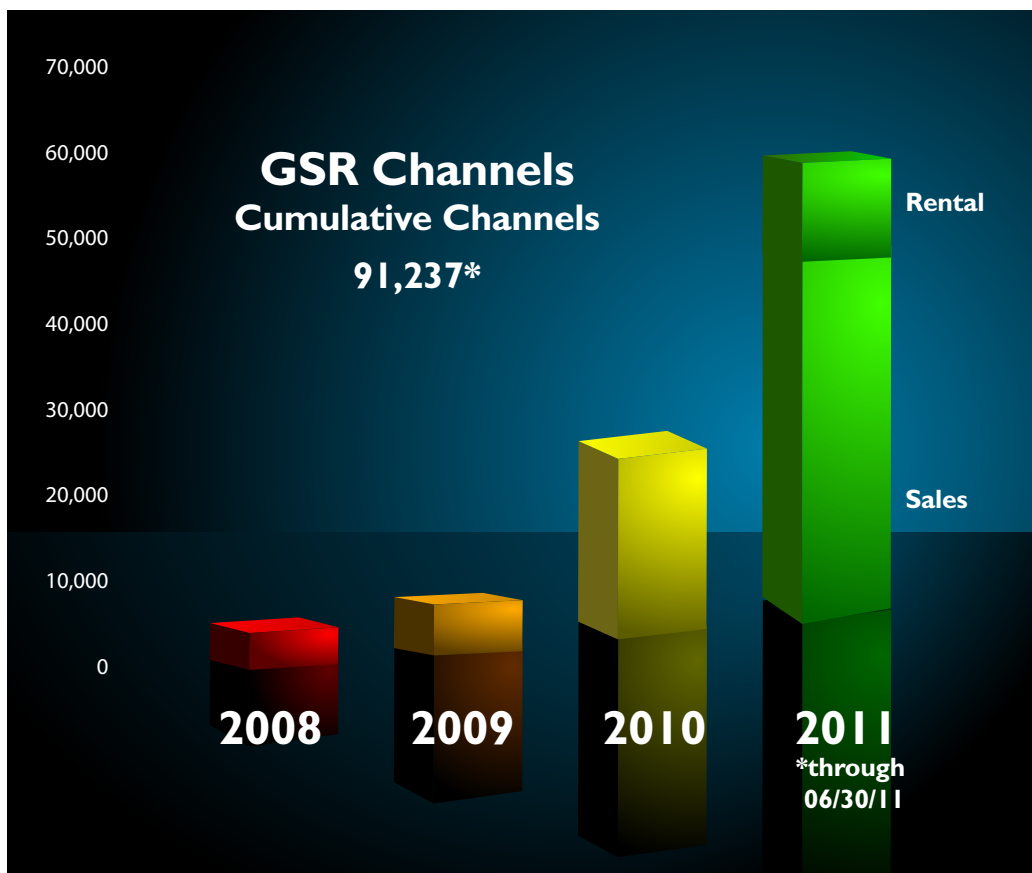
Doing What We Say We Will

Most of us have been in the seismic industry long enough to have seen enumerable systems come and go. Some have been no more than a gleam in their inventor's eye when they've been touted as a functional solution to the unique challenges of acquiring seismic data. At OYO Geospace, our engineering team has decades of experience building seismic data acquisition systems that work.

We know what it takes to operate in the field and we know that each seismic survey has its own challenges. When you're acquiring seismic data every area is a "frontier" area with new challenges, even if it's in older more heavily explored areas. You just don't know what form those challenges will take until you get out there.

That's why we engineer our acquisition systems to work reliably under extreme conditions. We test, test, and test again to ensure that our systems are ready to go. We also have an exceptional field service team that stands ready to provide answers, make tweaks or assist in any manner our customer needs - 24 hours a day, every day - so our customers aren't left alone with unanswered questions and pressing deadlines to meet.

From engineering to manufacturing to field service we have one goal: to ensure that our customer is well-served. Looking at our recent statistics for sales and rentals of the GSR, our newest cableless seismic data acquisition system, I'd say our actions are aligning with our goal. As of June 30th, we've supplied 91,237 GSR channels to customers - more than all our competitors combined. Our equipment is exceptional, and is backed by a team of people deeply committed to doing what we say we will. ■



Presley Left Speechless by American Cancer Society Award



Left to right, Gary Owens, CEO OYO Geospace; Daryl Hayes, Regional Director of Corporate Relations, Gulf Coast Region, American Cancer Society; Shirley Presley; Betti Guzman, Vice President, Gulf Coast Region, American Cancer Society.

For the past three years, OYO Geospace has been the top fundraising team for the American Cancer Society's Making Strides Against Breast Cancer Houston walk. And there's no doubt that Shirley Presley is the secret to our success.

That's one reason Shirley was given a special service award by the American Cancer Society this summer.

Shirley doesn't see herself as award-worthy. She instead lauds the researchers who are making the breakthroughs; co-captain Bobby Hoeflich; OYO leadership who provides matching funds; and the employees who make that walk each fall – sometimes coming off a nightshift to go straight out and put in 5km. Most important, she credits the true warriors in the fight. Her own father, good friends, and the many colleagues at OYO who have faced the nightmare of cancer – they give her the energy to galvanize so much support.

"This event has gotten bigger each year, and I love that it's now such a family occasion," says Shirley about the Making Strides walk. "Not that I'm competitive, but there's no way I'm going to let another team outdo us on fundraising!"

Shirley's role goes deeper than organizing and evangelizing the walk. She has become a one-woman cancer awareness resource for employees. She's successfully convinced colleagues into getting that long-overdue first mammogram. She's connected employees with help from the American Cancer Society. And she's always ready to lend support to families with a child facing cancer. And when a colleague at OYO succumbs to cancer, as happened in 2011, she is inspired to work even harder.

Congratulations to Shirley on this well-deserved award. ■



The American Cancer Society is the largest non-governmental funder of cancer research in the United States, spending approximately \$130 million each year to work to find cures. It funds both external research projects through grants and scholarships, as well as conducts research into cancer epidemiology, surveillance, and health policy. It funds beginning researchers with cutting-edge ideas early in their careers – 44 of whom have gone on to win the Nobel Prize, the highest accolade in scientific achievement. www.cancer.org

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