SUNDAY	MONDAY		RIL 20		FRIDAY	SATURDAY
						1
2 Daylight Savings Time Begins	3	4	5	6	7	8
9 Palm Sunday	10	11	12 Technical Breakfast Passover Begins at Sundown	13 GSH Board Multi- Component SIG Newsletter Deadline	14 Good Friday	15
16 Easter Sunday	17	18 Technical Luncheon	19 Rock Physics SIG	20	21	22
23 30	24	25	26	27	28	29

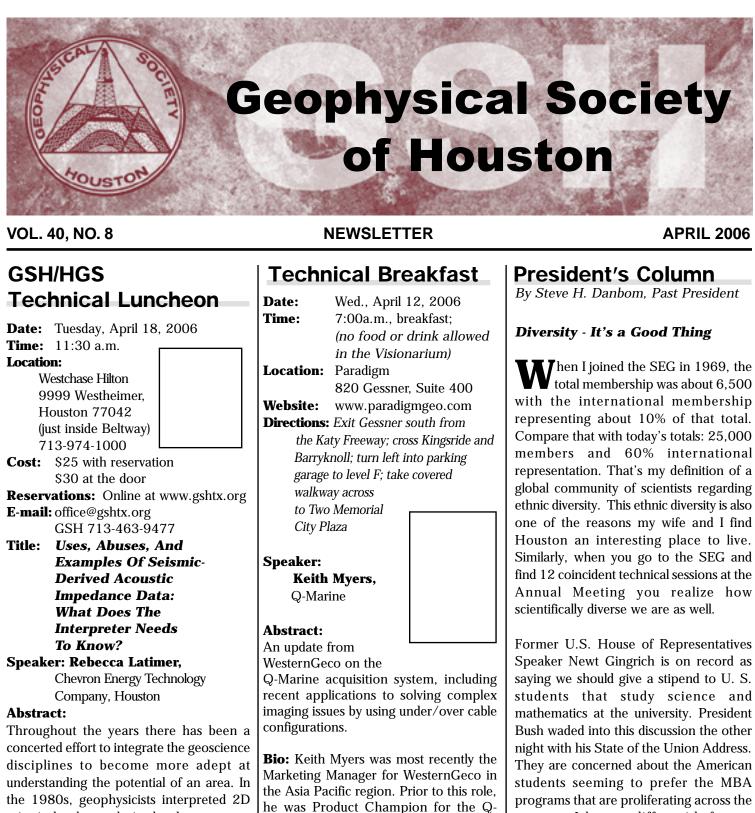
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Technical Luncheon continued on page 15

seismic data by overlaying log data on paper

seismic sections and using generalized depth-

Don't Forget To Vote for 2005 - 2006 Officers

Geophysical Au Museum News Golf Tournamer Rock Physics SI Multi-Compone

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Marine acquisition system. He received a B.Sc Degree in Geology from Curtin University in Western Australia.

When I joined the SEG in 1969, the total membership was about 6,500 with the international membership global community of scientists regarding

Former U.S. House of Representatives programs that are proliferating across the country. I beg to differ with former Speaker Gingrich, who is saying this, I

President's Column continued on page 8.

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GEOPHYSICAL SOCIETY OF HOUSTON

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	Tom Fulton			

Technical Luncheon continued from page 1.

to-time curves to determine which events represented markers on the logs. drawing straight lines between wells to represent their correlations. Because technology advances have changed the process, many people today have become "interpreters" of 2D or 3D data on workstations where the log data, seismic data, and many derivations of the seismic data (attributes, coherence, P impedance, inversions, elastic impedance, lambda rho, etc.) are available to fine-tune the analysis process. The question, however, still remains: Are we integrating the data yet?

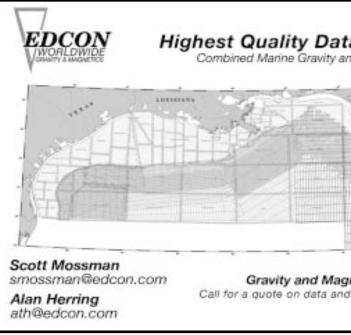
impedance provides a natural tie to the log impedance data and forces the geoscientist, in analyzing seismic data, to extract appropriate wavelets, determine the phase and amplitude of the data, determine whether or not the phase is stable throughout the volume, and very intimately tie the well log impedance data to the seismic data. Utilizing inverted data at the beginning of the interpretation process requires that the geoscientist understand the rock properties in their target area before embarking on an *"attribute"* interpretation. Even when the P impedance data do not clearly distinguish between fluids or lithologies, value is added by using these data as the first interpretation tool. The simplicity in knowing that the change of values represents a change in rock properties

without the complexity of wavelet * how to spot pitfalls in the overuse of variability is a distinct advantage to the impedance data. Geologists interpreted cross-sections by interpreter. This initial process is critical to undertaking any interpretation of seismic **About the speaker**: data. Seismic data, being an interface Rebecca Buxton Latimer is team leader property, contain tuning, side lobe effects, for Chevron's Energy Technology and phase and frequency variability, making deep water stratigraphy team in it difficult to directly determine the geology. Houston, Texas. She received an M.S. Inverted data, a layer property, are a more in Geology/Geophysics from Boston intuitive geologic tool that allows College in 1980 and has been in the interpreters to utilize their natural ability to oil industry for 26 years. *"see"* the geology in the seismic data.

Latimer started her career with Amoco Today, advanced impedance tools use angle in New Orleans in 1980. In 1986, she stack data and shear log components that moved to Houston with Amoco and can aid in distinguishing between lithologies worked as an interpreter and sequence Inversion of seismic data into acoustic and hydrocarbon properties. These data stratigrapher in a series of basin combine the benefits of angle data, AVO, modeling groups. In 1989 she moved and rock properties which—when analyzed to Stavanger, Norway, where she together with the understanding of the worked as a sequence stratigrapher for depositional environments, stratigraphic Enterprise Oil. After leaving Amoco in concepts and the myriad of seismic 1992, she worked for 5 years as an attributes-can greatly increase the inversion/geostatistics specialist and interpretative ability of the geoscientist. Chief Geoscientist with Jason Geosystems in Houston.

> This presentation will demonstrate the necessity for inversion and explain why it is beneficial in an interpretation workflow. It will examine both the strengths and drawbacks of using inverted data as original rock data. It will also show

types can effect the results, * how the interpreter analyzes the rock properties and utilizes these with inverted data and



April 2006

April 2006

Rebecca Latimer joined Texaco's Upstream Technology Group in 2000, doing in seismic inversion and geostatistics. After the merger of compared with the seismic data and the Chevron and Texaco, she became a team leader in ChevronTexaco's * how scale differences between various data Energy Technology Company, supporting the business units, worldwide. She is also an editor for the SEG "Leading Edge" magazine.

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9	\$700	\$1120	\$2240	\$4200
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It is the adherence to these three basic tenets that created the KINGDOM software and that guarantees SMT users outstanding functionality - and value - for their money.

SMT was the first upstream software provider to offer integrated geoscience interpretation tools on the PC, the first on Windows®, and presently KINGDOM is considered the leader in Windows® -based interpretation technology.

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SMT provides software tools for a complete upstream workflow on the Windows⁸ platform from seismic through simulation Geoscientists and engineers rely upon KINGDOM Software for geological and geophysical interpretation; (RC)² Software for 3D reservoir geostatistical modeling; and SURE Software for advanced reservoir simulation.

Contact SMT for a free evaluation of KINGDOM, (RC)2, and SURE



Editor's Note

To ensure your information reaches the GSH society members in a timely manner it must appear in the appropriate newsletter issue. Please note the following deadlines and plan your function's publicity strategy accordingly. Items must be received on or before the corresponding deadline date. Please send any obituary or memorial articles of recently deceased members to the Editor for inclusion in the newsletter. Materials can be emailed to John Sumner at sumnergeo@earthlink.com with a copy sent to Fernada Araujo at fernanda.v.araujo@conocophillips.com, and Glenn Bear at glenn.w.bear@ exxonmobil.com. If you have any questions please call John Sumner at 713/666-7655, Fernanda Araujo at 832/486-2564, or Glenn Bear at 713/431-6583.

2006 GSH Newsletter **Deadlines**

Issue	May 2006
Deadline	April 13, 2006
Issue	. September 2006
Deadline	August 8, 2006

Announcements **Technical Breakfast** April 12, 2006 **Multi-Component Seismic SIG** April 13, 2006 **Technical** Luncheon April 18, 2006

Rock Physics SIG April 19, 2006

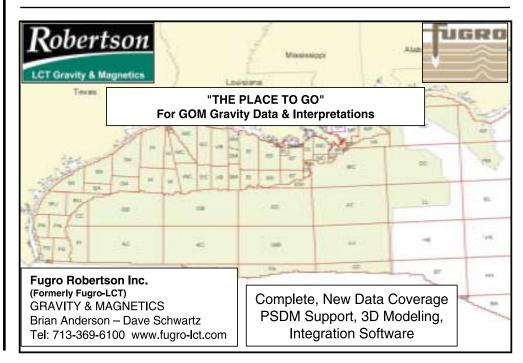
Auxiliary

On Sunday March 19th the Geophysical Auxiliary joined with our spouses and friends at the scenic Lakeside Country Club for our annual Spring Brunch. We were treated to an elegant buffet and some very special entertainment provided by the Country Playhouse Theatre Company. As always this was a wonderful opportunity to reconnect with our friends and take in the lovely surroundings of Lakeside. Many thanks to our Chairperson and her wonderful committee for hosting such a special event.

On Thursday April 20th the Auxiliary will be hosting a special Spring Event Wine Tasting. Auxiliary members will meet at Circle S Vineyard in Sugarland to enjoy a tour of this wine making facility, a wine tasting and lovely made-to-order pasta buffet in an intimate home-style setting. This wine shop/winemaker has a lovely selection of wine related gift items as well as on-site wine sales. Seating will be limited to 25 people at this event and attendees must be able to walk up a flight of stairs as there is no alternate access available. Contact Chairperson, Luann Cefola at 281-759-7338 for more details.

We will round out our year on May 17th with our Annual Business Meeting and luncheon at the ever popular Houston Racquet Club. Along with this annual business meeting there will be a special program on fashion accessorizing presented by Steinmart. Please plan on joining us so that you can finally find out "What should I wear with this outfit?".

The Geophysical Auxiliary of Houston invites the wife of any present or past member of the GSH or SEG, the widows of former members of the GSH and SEG, and women members of these organizations to join us and become a member of the GAH for 2005-2006. Our Membership Chairperson, Kathi Hilterman, wants to hear from you! We are busy planning many wonderful events for your enjoyment and yearly dues are only \$15.00. Call now and don't miss out! Call Kathi at 713-467-2599 or GSH Liaison, Luann Cefola at 281-759-7338 for a membership application and information on how to join.



Geophysical Society of Houston

The Geophysical Auxiliary of Houston News and Events!

Museum News

by Tom Fulton

display and the sight of interested viewers. Bill used verifies that the air wave was used to Swart and I as having the longest recent time measure distance. The recorders data sheets also on the committee are pleased with the indicate temperature as well as wind direction enthusiasm of Gene Womack, Haynie Stringer, and speed were recorded. The subsurface Bill Gafford, and Benegene Kring. We have charges ranged up to about 300 pounds with started the process of tabulation/ inventory little info on charge depth (with that size charge verification of pieces on hand (over 450 out of not likely needed). Distances were measured in perhaps 900), on display (over 200), recording meters, depths in feet, and map distances in pictures of each (perhaps 320), and moving Varas. Some artifacts defy identification such as display quality artifacts from S. Rice to the a black metal 9" cube with at least one knob and Bureau of Economic Geology. There may be a slit—but no other opening. as many as 450 still at S. Rice including TBs, instruments, geophones, Landmark, and A preprinted observers form from 1926 shows Keypunch. We are moving them a pickup load at a time. Homes for both the Landmark B. Weatherby, and Observer, F. F. Campbell. I Workstation and keypunch are needed.

The experience gained during SEG75 allows available of this era when refractions were used us to better identify and appreciate the artifacts. and conclude the box contains much information For example finding a "blast phone" (of a of value to historians. It provided much of the different type than from Petty) integrated with source material for the significant '32 report and the Bureau of Economic Geology.

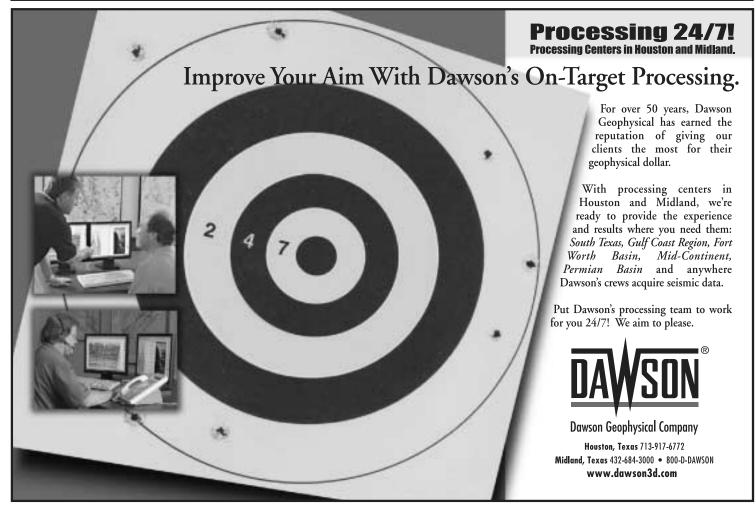
he GSH Museum Committee was it's amplifier in a box plus the refraction reports L invigorated by the successful SEG75 indicating that 17 pound surface charges were

> GRC Karcher troop 3 had a Chief of Party, B. think this was also referred to as Pure Party 2. I've reviewed a couple of perhaps 30 reports



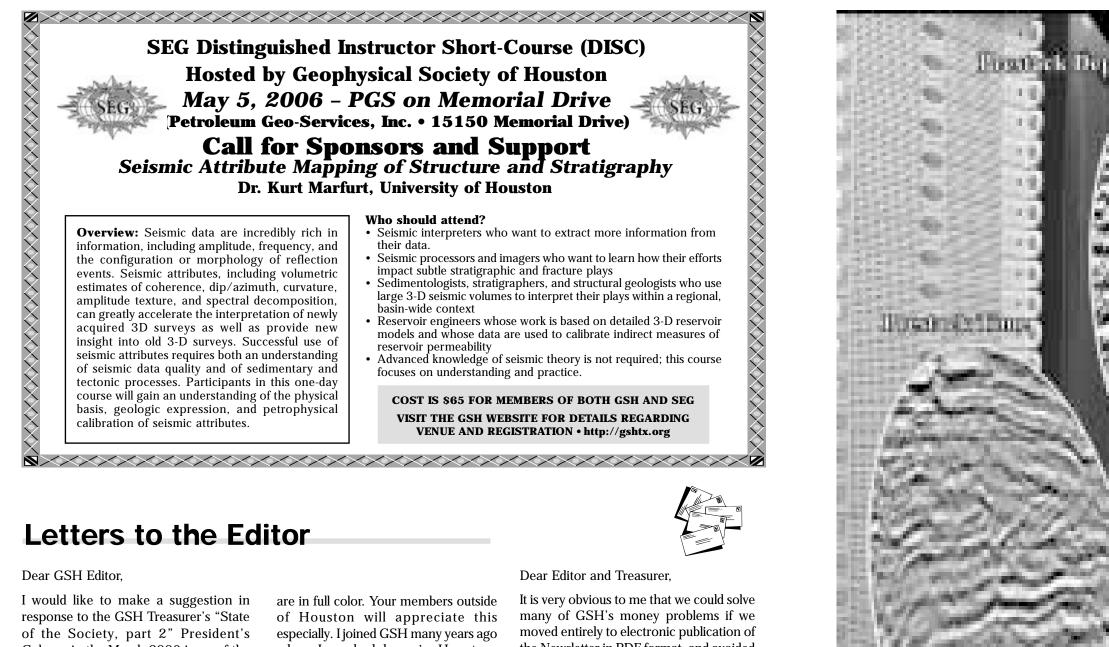
combining TB and refraction data which Gary Servos has had scanned (I need to get it back to pull a display for Wichita and also need the Prakla report from the first seismic work in Colorado). This box of reports, a collection of prospect reports from the '50s and '60s and our collection of old seismic records are courtesy Unocal, having been saved from the landfill.

Needless to say, we continue to find things we wish we had displayed but remain pleased with our relationship with folk at both Iron Mountain





April 2006



Column in the March 2006 issue of the GSH Newsletter. The Society can drastically reduce newsletter printing and postage costs by moving to an enewsletter format. You will need approval from your advertisers. Some issues will still need to be printed and mailed to members who do not have internet access or prefer the printed format. The Southeastern Geophysical Society (SGS) in New Orleans made this change a couple of years ago. I am a former officer. The newsletter is posted in PDF format on the society's website and an email notice with a direct link to the newsletter is sent to members when it is available. Most members like this format because it arrives on a timely basis, can be printed and the photographs and advertisements when I worked here in Houston, maintained my membership while working in New Orleans for the past 11 years and now have returned to Houston. While in New Orleans, my GSH newsletter always arrived late, usually after any events I might have wanted to attend and went directly in the trash can. I relied heavily upon the GSH email event notices and enjoyed reading the abstracts from talks I was not able to attend. So in a way, the GSH has been using an e-format for several years. This suggestion may not be enough to balance the budget but it will have a huge impact. Contact the current SGS board for more information.

Lisa Buckner

the Newsletter in PDF format, and avoided the Newsletter printing and mailing costs. We could send out an email saying "the latest newsletter is available to be downloaded!" every month. Many organizations are going this route, two that I personally belong to.

We could accommodate the few without Internet by faxing the Newsletter to a telephone distribution list from a computer. But if they don't have Internet or fax, or if they don't have a friend that can help them out with Internet or fax, I'd have to say... sorry, it's 2006, and you're too expensive to have as a member if the only way we can get a document to you is by U.S. Mail, because the GSH is bleeding out cash, and we must change with the times.

Sincerely, Peter Wang

April 2006

Geophysical Society of Houston

Deep Plays Require Prestack Depth

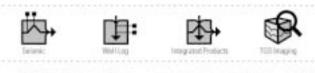
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6th ANNUAL GSH SALTWATER TOURNAMENT

Saturday, June 24, 2006

Teakwood Marina, Village of Tiki Island, Galveston, Texas

Galveston Bay Complex and Offshore

This year's Saltwater Fishing Tournament will include an Offshore Division to be held on Saturday, June 24 at the Teakwood Marina, Village of Tiki Island, Galveston, Texas. We are looking forward to a big event this summer and we encourage full family participation.

Galveston Bay Complex Division

Trophies will be awarded for the heaviest individual Redfish (Non-Tagged), Speckled Trout, and Flounder. Trophies will also be awarded for the heaviest individual Stringer - 1 Redfish, 3 Speckled Trout, and 1 Flounder.

Galveston Offshore Division

Trophies will be awarded for the heaviest individual Red Snapper, King Mackerel, and Dolphin.

Registration Fee (\$60.00) includes:

Launch Fee, GSH Fishing Cap, Fish Fry Meal after weigh-in, Refreshments, Trophies and DOOR PRIZES. Greg Doll, Strand Energy, will be our Weigh Master • SEEKING SPONSORSHIP FOR THIS EVENT

For more information, please contact:

Bobby Perez (HGS & GSH) 281-240-1234 ext. 219 Office 281-240-4997 Fax • 281-787-2106 Cell • 281-495-8695 Home E-mail: rdphtx@aol.com or r_perez@seismicventures.com

The Geophysical Society of Houston is a non-profit organization serving the Geophysical Industry. Corporate and individual contributions are appreciated and will be acknowledged on several sponsor boards and banners at the Weigh-In Station and Marina. All contributors will be recognized in the GSH newsletter following the tournament. This is a great way to entertain friends, family, business associates, and clients. So spread the word!



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Golf Tournament and Dinner Geophysical Society of Houston

DATE: Monday, May 15, 2006 **PLACE:** Kingwood Country Club TIME: 9:30 AM Registration 11:30 AM Tee off (Shotgun) FORMAT: Four Man Florida Scramble COST: \$125 per person DEADLINE: April 15, 2006

MAIL ENTRIES TO: Fairfield Industries 14100 Southwest Freeway Sugar Land, TX 77478 Attn: George Lauhoff

Expiration Date:

OR

Signature: ___

GOLFERS READ CAREFULLY

Suite 600

281-275-7623

No entry will be accepted until the entry form and fees are received in full. **NO EXCEPTIONS!!!**

MULLIGANS \$5.00 EACH (MAX. 2/PERSON) AVAILABLE AT CHECK-IN

If you are not playing golf, but want to join your friends attending the dinner following the tournament, please send in \$15.00 per person to cover the cost of the dinner. Make a note at the bottom of the check "Dinner Only". These checks should also be made payable to the Geophysical Society of Houston.

GOLF TOURN You may select your own foursome, it The first name listed will be conside	f not you will be assigned to a group.
Name:	Name:
Company:	Company:
Phone: HDCP:	// Phone: HDCP:
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Course Preference: ISLAND LAKE MARSI (Circle One)	H DEERWOOD
pril 2006 Geophysical S	Society of Houston

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SPECIAL INTEREST GROUPS

ROCK PHYSICS SIG

Date: Wednesday, April 19, 2006 Time: 5:30 p.m. **Location:** Visualization Center Veritas DGC, Inc. 10300 Town Park Dr. Houston, TX 77072 Title: **Rock Physics and AVO Modeling** Lev Vernik, Noble Energy **Speaker:**

Abstract:

Tremendous complexity of geological sequences and petrographic variability within them makes one wonder how is it at all possible to utilize AVO attributes in exploration and reservoir characterization. A significant insight is gained when these complexities are cast in terms of seismic rock properties and their distributions that can be linked to geological and petrographic features of the rock formations.

Using acoustic-shear impedance, or so-called AI-SI, space it's possible to relate rock properties to the familiar AVO classification schemes. In many instances, the single interface AVO signatures can be gleaned immediately from the AI-SI crossplot; however, in more complex situations synthetic

AVO modeling must be done to properly interpret seismic gathers in terms of fluid and lithology effects.

We'll look at some schematic examples of shale/sand interfacies with varying seismic rock properties and see how these translate into synthetic AVO gathers. Some peculiarities of the resulting AVO signatures will be discussed and easily related to shale/sand properties and net/gross ratio.

Bio:

Lev Vernik is a petrophysicist at Noble Energy. He has held similar positions at ARCO, Vastar and BP. Before that he did research on rock physics and rock mechanics at Stanford.

President's Column continued from page 1.

believe, because he is worried about the potential "brain drain" in this country - specifically the foreign national students who are learning at American universities only to return home to practice their new skills. What I suggest for this situation is not to mimic the financial tariff we often use to regulate goods and services flowing to and from our country, but rather to let the marketplace be the deciding factor and allow the immigration laws to give these often excellent students a more realistic choice to either stay in the U.S. or return home.

At Rice University, I have a teaching assistant for one of the two classes I teach, because this class has a lab for processing seismic reflection data. Rice international students have held this teaching assistant post for three of the past four years, with the countries of Nigeria, Italy and Korea represented. From my personal experience, each of the students has been delightful, possessing the right combination of organization and diligence in the classroom.

I have heard it said that two items within the American community that are often coveted by the world are our agribusiness and our university systems. So, let the world come and purchase our abundant food and take advantage of our universities. I am not saying that universities should necessarily seek these students to the exclusion of American students. Neither quotas nor preset admission standards are entirely equitable. Let's just make sure that the playing field is level for admissions and let those that choose to study science and engineering benefit from such rules of fair play.

Multi-component Seismic SIG

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Date:	Thursday, April 13, 2006		
Time:	5:30 pm - 6:30 pm		
Location:	PGS		
	15150 Memorial Drive, Houston, Texas 7707		
Title:	Using 9C shear wave data to delinea		
	sand in Morrow channels		
Speaker:	Jasha Cultreri*, Consulting Geophysicist,		
	Allen Gilmer, Vecta Technology,		
	Bob Hardage, University of Texas, Bureau of *speaker		

Abstract:

Incorporating the shear component of multicomponent data has long held the promise of delineating sands from shales. Following the processing methodology outlined by Simmons (SEG 1999), 3D 9C shear wave data is sensitive to the difference in rigidity between sands, shales, and limestones. Two 3D 9 component seismic surveys were acquired to delineate Morrowan drill sites; one in SE Colorado, one in SW Kansas. Two 3D interpretations are presented which show a better than 80% match between 25 wells in eight square miles of 3D 9C seismic data. Twelve to eighteen foot thick sands can be detected. Sands less than six feet thick cannot be detected in these surveys. Shear wave data in both surveys show character anomalies not seen in the P wave data over the sands. An exploratory well was drilled in one of the surveys finding 30% more sand than any of the wells drilled pre-survey. 3D 9C data appears to be very robust in locating and delineating sands incised within a shale sequence.

Biography

Jasha Cultreri is an independent consulting geophysicist with 32 years experience. In 1974 after graduating from New Mexico Tech with a B.S. in Geophysics and a B.S. in Physics, he worked 19 years at ARCO Oil and Gas in Exploration and Exploitation. He started his career on a seismic field crew, and then progressed to processing, interpretation, and management. His 3D career began in 1978 with ARCO working on 3D design research. After ARCO, Jasha ran a successful consulting business for eight years prior to helping form Vecta Exploration to explore for oil and gas reserves in stratigraphic traps using 9C-3D data. Jasha has served as president of the Permian Basin Chapter of the Society of Exploration Geophysicists. His current research interest is lithology determination from 3D-9C seismic data.

Society Affiliations: SEG, AAPG, PBGS, WTGS, DGS

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April 2006

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Economic Geology



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