

BULLETIN

Corpus Christi Geological Society



and

Coastal Bend Geophysical Society



**October
2016
ISSN 0739 5620**

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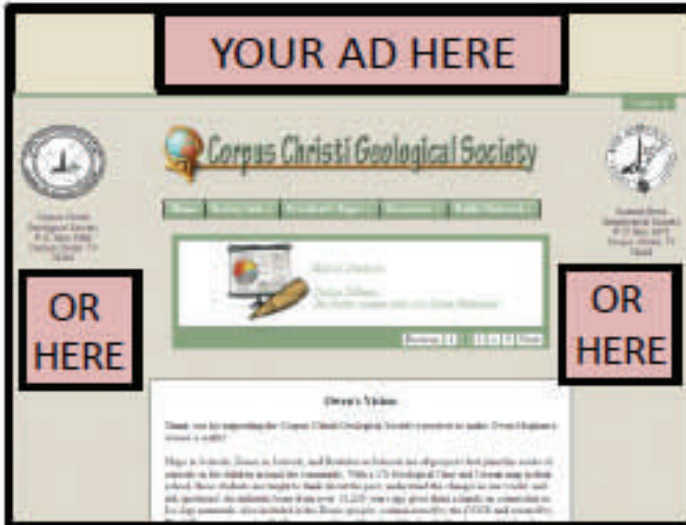
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CORPUS CHRISTI GEOLOGICAL SOCIETY

P.O. BOX 1068* C.C. TX. 78403

2016-2017

www.ccgeo.org

OFFICERS

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AAPG DELEGATE

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P.O. BOX 2741*C.C. TX. 78403
2016-2017

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Scholarship Chairman	Ed Egger	361-947-8400	edegger69@gmail.com
Education	Dr. Robert Schneider		

**Visit the geological
web site at
www.ccgeo.org**

CCGS/CBGS JOINT MEETING SCHEDULE 2016-2017

September 2016							October 2016							November 2016						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
				1	2	3							1			1	2	3	4	5
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30			
							30	31												

GCAGS Convention
"Explore The Future"
 September 18-20, 2016
 Corpus Christi, TX.

GCAGS Post-Convention
 Party & Society Kickoff
 Bar-B-Q
 Thursday, October 13
 5:30 to 8:00 p.m.

11:30am-1:00pm.
 Speaker: Bruce Moriarty,
 Principal Geophysical Advisor,
 Lumina Geophysical
 "Simultaneous Inversion of
 Spectrally-Broadened 3D
 Seismic Data: Case Study for
 the Olmos Unconventional
 Play, South Texas"

December 2016							January 2017							February 2017						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
				1	2	3	1	2	3	4	5	6	7			1	2	3	4	
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	29	30	31					26	27	28				

Combined
 November/December for the
 Holidays.

CCGS/CBGS Joint Meeting Schedule 2016-2017

March 2017							April 2017							May 2017						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
			1	2	3	4							1	1	2	3	4	5	6	
5	6	7	8	9	10	11	2	3	4	5	6	7	8	7	8	9	10	11	12	13
12	13	14	15	16	17	18	9	10	11	12	13	14	15	14	15	16	17	18	19	20
19	20	21	22	23	24	25	16	17	18	19	20	21	22	21	22	23	24	25	26	27
26	27	28	29	30	31		23	24	25	26	27	28	29	28	29	30	31			
							30													

Combined
February/March for Spring
Break

Calendar of Meetings and Events

Calendar of Area Monthly Meetings

Corpus Christi Geological/Geophysical Society.....	Third Wed.—11:30a.m.
SIPES Corpus Christi Luncheons.....	Last Tues.—11:30a.m.
South Texas Geological Society Luncheons.....	Second Wed—noon San Antonio
San Antonio Geophysical Society Meetings.....	Fourth Tuesday
Austin Geological Society.....	First Monday
Austin Chapter of SIPES.....	First Thursday
Houston Geological Society Luncheons.....	Last Wednesday
Central Texas Section of Society of Mining, Metallurgy & Exp.....	2 nd Tues every other month in San Antonio

RENEW...RENEW...RENEW...RENEW...RENEW...RENEW...RENEW...RENEW

Please RENEW for the 2016-17 Membership Period using those handy forms we mailed in August.

Everyone should have received their **2016-2017** Membership Renewal forms in the US Mail.

- **PRINTED BULLETINS** are available to any member for \$25/year. We must have a valid mailing address. Please confirm your mailing address on the renewal form.
- **Emails!** Please legibly re-write your preferred email address at the bottom of the form. We are striving to maintain **100%** of the Society reachable by email. Your email is vital if you've chosen not to receive the printed Bulletin.
- Please return the form promptly...yes, before (or at) the Kickoff party. Return of your form is *vital* to keeping our records in order, that's why we enclose a return envelope.
- **IMPORTANT:** Even if you plan to pay at the Kickoff, please bring your renewal form and payment in the envelope! Honorary and student members, please return your forms, too! Students need to update emails, employment, and contact info.
- **Pictures.** We're continuing to add pictures to our database, still not quite enough to justify a new photo directory. Send us a photo (email it to dorothyj@headington.com) – if we get enough pictures this renewal period, we'll plan on a photo directory in June.
- **PAY ONLINE** at www.ccgeo.org and follow the simple steps. We ask that you still return corrected member information via the enclosed envelope...or email it to membership@ccgeo.org...or fax it to us at 361-885-0120.



We mailed **400 renewals** this year and it is very expensive for our Societies. Your prompt return of your renewal form is *your* part of this process. Please make this effort worthwhile for our Society.

RENEW...RENEW...RENEW...RENEW...RENEW...RENEW...RENEW...RENEW

For new members, active or student. Email randyb@headington.com to get a membership form. Just print it, fill it out and send it along with your check (no fee for students) to: CCGS Membership, 500 North Shoreline Blvd., Ste. 902N, Corpus Christi, Texas 78401-0343. Contact Randy Bissell at randyb@headington.com or (361) 885-0110 with any questions. Thanks for your quick response – earlier makes it much easier! And remember:

RENEW...RENEW...RENEW...RENEW...RENEW...RENEW...RENEW...RENEW

Corpus Christi Geological Society/Coastal Bend Geophysical Society

2016-2017 Membership Form

Please mail your completed form to:
 Randy Bissell, CCGS/CBGS Membership
 % Headington Energy Partners LLC
 500 N. Shoreline, Ste 902 N. Twr.
 Corpus Christi, Texas 78401

FIRST NAME

MI

LAST NAME

DATE

COMPANY INFORMATION:

Mail Correspondence Here _____

Company Name _____
 Title/Position _____
 Address _____
 Address 2 _____
 City _____
 State _____
 Zip _____
 Phone _____
 Fax _____
 E-Mail Address _____

PERSONAL INFORMATION:

Mail Correspondence Here _____

Spouse's Name _____
 Address _____
 Address 2 _____
 City _____
 State _____
 Zip _____
 Phone _____
 Fax _____
 E-Mail Address _____

PROFESSIONAL INFORMATION

College _____
 Major _____
 Degree _____
 Year _____
 College _____
 Major _____
 Degree _____
 Year _____
 College _____
 Major _____
 Degree _____
 Year _____

MEMBERSHIPS

**CCGS CBGS AAPG HGS
 SIPES SEG GCGS STGS
 OTHER: _____**

MEMBERSHIP INFORMATION

ACTIVE MEMBERSHIP- In order to be eligible for active membership a person must (1) have a degree in geology or one of the earth sciences and be directly engaged in the application of Geology, or (2) presently engaged in or have been engaged in the application of geology or one of the earth sciences for the preceding five years. Any retired person qualified for active membership before retirement shall also qualify for active membership.

ASSOCIATE MEMBERSHIP- In order to be eligible for associate membership a person must be actively engaged in the geological or earth science work. An associate member shall not be eligible to vote or to hold selective office, but shall have all other rights and privileges enjoyed by active members. Associate members who attain eligibility for active membership may apply for transfer to active membership.

STUDENT MEMBERSHIP- Student membership shall be limited to those students who have completed two years of college and who are enrolled in geology or a related earth science in a recognized college or university granting degrees in earth sciences. A student member shall not be eligible to vote or to hold office, but shall have all other rights and privileges enjoyed by active members. Students have access to electronic bulletins only.

ACTIVE or ASSOCIATE

(Circle One)

CCGS Membership Dues	\$25.00
CBGS Membership Dues	\$20.00
Student Membership Dues	FREE
Printed copy of Bulletin (Yearly Mailing fee for bulletin)	\$25.00
Business Card Ad	\$30.00

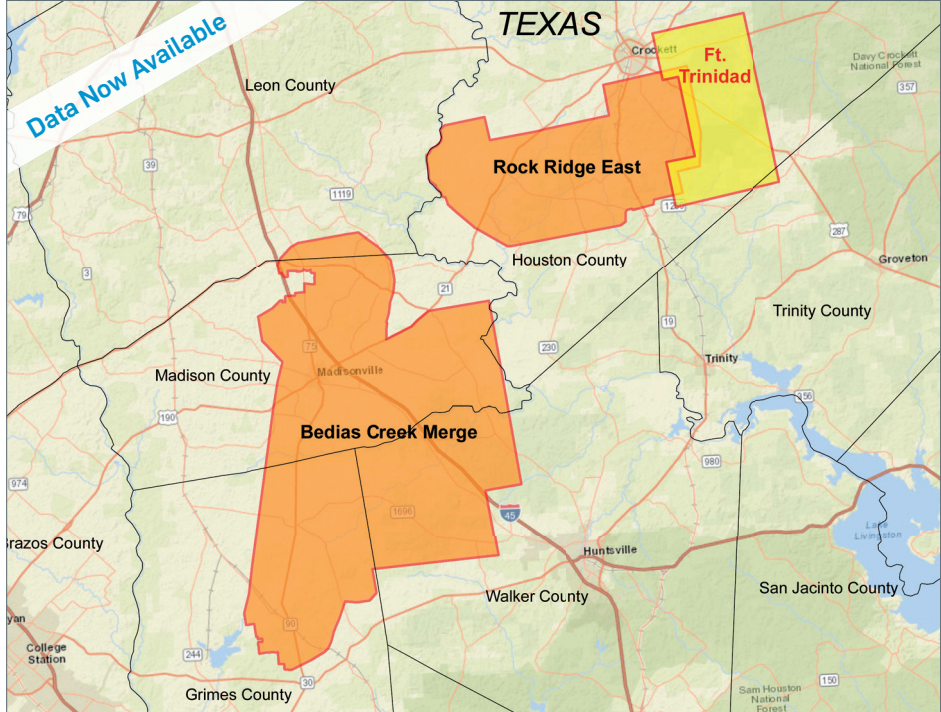
DONATIONS

CCGS Historical Fund	\$ _____
CCGS Scholarship Donation	\$ _____
Don Boyd Endowment Fund	\$ _____
Maps and Bones in Schools (Owen's Projects)	\$ _____



New Ft. Trinidad 3D Survey Houston and Trinity Counties, TX

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OCTOBER - 2016



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www.coastalbendbloodcenter.com

When you give blood: They have us listed as C.C. Geological Society. Our number with them is 4254 & it would be helpful if you can please give them that number also.

There is a nationwide shortage of blood – and we appeal to our members to give the gift of life. Please tell the Blood Center that you are giving on behalf of the **C.C. Geological Society**. For info. their ph. no. is **855-4943**.

This message approved by Mike Lucente....



PRESIDENT'S PAGE

I am writing this letter the week before the GCAGS Convention here in Corpus Christi. By the time you read these words, that convention will be history.

Corpus Christi has hosted GCAGS many times over the years, and each time a few members did the hard work of chairing and managing the entire meeting. A huge THANK YOU to Dawn Bissell for chairing this 2016 version to what should be a success. Even though the oil patch economy is in hard times, the technical sessions look to be outstanding.

Leighton Devine reported that the Fishing Tournament netted some impressive profits, and raised \$5,000 for the CCGS Scholarship Fund. Thank you, Leighton!

CCGS remains in need of two more volunteers for the new year:

- **President-Elect:** This officer serves on the Executive Board this year and becomes the new President at the end of the current President's term. This year, it's the learning curve.... next year you get to manage the Society.
- **Technical Editor for the *Bulletin*:** The past Editor, Sebastian Wiedmann, no longer wishes to serve as Editor.

If you are interested in serving in either of these positions, please contact any officer of the CCGS.

Please remember that the Annual Kick-off Barbeque will be on Thursday, October 13, at Hoegemeyer's at 711 Concrete Street. Time is 5:30 to 8:30 and cost is only \$15/person!

Luncheon meetings will continue at the Ortiz Center during November, January, February, April, and May. The Executive Committee decided that December had a small showing because of Christmas and March because of Spring Break. The price will remain at \$25/person with reservations.

The Executive Committee decided that we need to revise the Bylaws of the CCGS. The last time they were amended was in 1986. Watch for more announcements through the year regarding the progress. Voting on ratification will take place next spring.

Respectfully,

Barbara Beynon



The Corpus Christi Geological Society
The Coastal Bend Geophysical Society
and
The 2016 GCAGS Convention



Invite you to the
**GCAGS Post-Convention Party &
Society Kickoff Bar-B-Q**

Thursday, October 13, 2016

5:30 to 8:00 p.m.

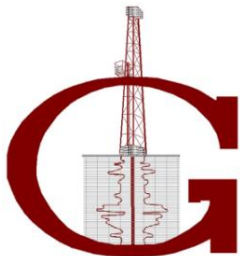
Hoegemeyer's Barbeque Barn

711 Concrete Street (Located across from Concrete Street Amphitheater).

From downtown, take Chaparral St. north, then left on Belden St.

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West Texas Operations

P.O. BOX 1759 STANTON, TEXAS 79782
Office : (432) 270-7730 Cell: 361-676-1369

RSVP (required) by Monday, October 10

Wes Gisler, wes@gislerbrotherslogging.com, 1-830-239-4651

Dorothy Jordan, Dorothy@headingtonenergy.com, 361-885-0113

*Special thanks to the GCAGS Leadership for sponsoring meal costs and reducing the price for everyone!



CBGS PRESIDENT'S LETTER

News -

GCAGS Convention is behind us. Back to business as usual.

CBGS Business -

CBGS golf tournament is scheduled for Oct 7th at Northshore Country Club. Contact Fermin Munoz about interest in playing or sponsoring. All sponsorship funds are used for geophysical scholarships. Scholarship applicants solicited.

Education/Events -

- GSH

"Everything you always wanted to know about microseismic", Houston, Nov 9-10
Numerous technical luncheons if you happen to be in Houston. Check following link.

[Geophysical Society of Houston Calendar](#)

CBGS has a revenue sharing agreement with GSH. Mention CBGS if you register for GSH events.

- SEG

SEG Convention, 16-21 October, Dallas

SEG has 450+ eLearning courses online from \$0.99 to \$150.00(most expensive I saw)

<http://www.seg.org/professional-development/seg-on-demand>

- HGS

Making Money with Mature Fields, Houston, Oct 5-6, 2016

Carbonate Depositional Systems, Houston, Oct 3-4, 2016

Petroleum Geochemistry, Houston, Oct 3-4, 2016

Petrological and Geochemical screening methods, Houston, Dec 9, 2016

Thought for the month - Innovation

"There are not more than five musical notes, yet the combinations of these five give rise to more melodies than can ever be heard.

There are not more than five primary colours, yet in combination they produce more hues than can ever been seen.

There are not more than five cardinal tastes, yet combinations of them yield more flavors than can ever be tasted."

— [Sun Tzu, The Art of War](#)

Monthly O&G Statistics

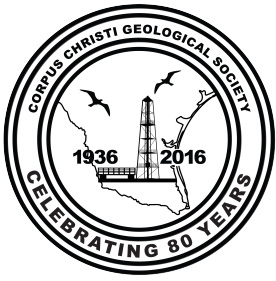
Texas Oil and Gas Info	Current Month	Last Month	Difference	
Texas Production	MMBO/BCF	MMBO/BCF	MMBO/BCF	
Oil	72.9	79.6	-6.7	June
Condensate	9.2	10.7	-1.5	
Gas	604	656	-52	June
	Current Month	Yr to date - 2016	Yr to date - 2015	
Texas Drilling Permits	660	4,830	7,407	August
Oil wells	203	1,412	1,828	
Oil and Gas	392	2,848	4,598	
Gas wells	24	250	546	
Other	15	88	104	
Total Completions	822	8,107	14,665	August
Oil Completions	545	6,166	11,723	
Gas Completions	223	1,527	2,006	
New Field Discoveries	2	16	50	
Other	55	414	936	

Thought for the month:

A vision without a task is but a dream, a task without a vision is drudgery, a vision with a task is the hope of the world

- Inscription on a wall in Sussex England, circa 1730

Lonnie Blake—CBGS President



Corpus Christi Geological Society Scholarship Application Guidelines Spring 2017 Semester

1. Applicant must be majoring in Earth Sciences and enrolled for the award semester (i.e. Spring 2017) at a college in the local area. Applicant must be a member of the Corpus Christi Geological Society.
2. Fill out the application form clearly, completely, and sign it.
3. Short essay clearly explaining how this scholarship will assist you in achieving your geologic career goals and the reasons your application should be considered by the Committee.
4. Two (2) letters of recommendation - one must be from a geoscience faculty member or from a supervisor with whom applicant has worked with in a geoscience undertaking.
5. Applicant must provide a school transcript, please make sure it has your name on it. A web printout is acceptable.
6. **Applications must be postmarked by: October 24, 2016**
Application packet may be emailed in a shareable format (i.e. pdf, docx, etc) to **bissells@swbell.net**.

Mail completed application to: Dawn Bissell, CCGS Scholarship Committee
Chairman, 253 Circle Drive, Corpus Christi, TX 78411

Send an email to **bissells@swbell.net** once you've mailed your application. We need **YOUR** email address. *Award notifications will be sent via email!!!*

Please read requirements carefully and submit only complete applications. Applicants who have received a CCGS scholarship in the past are eligible to apply again.

Scholarships will be awarded based on merit and need. The award amounts may vary with the minimum individual award being \$500.

Award recipients will be recognized at the monthly **luncheon November 16, 2016** and are encouraged to attend.

Board Members:

Dawn Bissell

Brent Hopkins

Barbara Beynon - CCGS President

Beth Priday

JR Jones

BJ Thompson



Corpus Christi Geological Society
Scholarship Application Form
Spring 2017
(Must be postmarked by October 24, 2016)

Last Name: _____ First Name: _____

Mailing address: _____
(where award may be mailed if applicant is unable to attend award presentation)

City: _____ State: _____ Zip Code: _____

Active Email: _____

*Award notifications will be sent via email!!! Email bissells@swbell.net once you've submitted your application. I need **YOUR** email address.*

Daytime Phone: _____ Alternate Phone: _____

University Attending in Spring 2017: _____

Department: _____ Major: _____

Scholarship is for class level (circle one):

Freshman Sophomore Junior Senior Graduate Student

Total Hours Completed: _____ Overall GPA (Minimum 2.5): _____

Total Hours - Geology: _____ Geology GPA (Minimum 3.0) _____

Hours Planned for Scholarship Semester: _____ Geology Hours: _____

Will this scholarship be used toward field camp? Yes No

Prior recipient of CCGS Scholarship? Yes No

Are you a student member of CCGS? Yes No
(If no, membership application is included. Must be a member of CCGS.)

Applicant Signature _____ Date _____

Mail application, along with essay, two letters of recommendation, and transcript to Dawn Bissell, CCGS Scholarship Committee Chairman
253 Circle Drive, Corpus Christi, TX 78411 **must be postmarked by October 24, 2016.**
Email bissells@swbell.net once you've mailed your application. **Award notifications will be made via email!!!**



**CORPUS CHRISTI GEOLOGICAL SOCIETY
COASTAL BEND GEOPHYSICAL SOCIETY**



LUNCHEON MEETING ANNOUNCEMENT

WEDNESDAY, NOVEMBER 16, 2016

-
- Location:** Congressman Solomon P. Ortiz International Center, 402 Harbor Drive, Corpus Christi, TX 78401 <http://ortizcenter.com>
- Bar Sponsor:** To be announced (*sponsors needed!*)
- Student Sponsor:** Core Laboratories and Corpus Christi Geological Society
- Time:** 11:30 am Bar, Lunch follows at 11:45 am, Speaker at 12:00 pm
- Cost:** \$25.00 (additional \$10.00 surcharge without reservation; No-shows may be billed and non-RSVP attendees cannot be guaranteed a lunch); **FREE** for students with reservation (discounted by our generous sponsors)!
- Reservations:** Please **RSVP** by 4PM on the FRIDAY before the meeting!
E-Mail: wes@gislerbrotherslogging.com

Please note that luncheon RSVPs are a commitment to the Ortiz Center and must be paid even if you can't attend the luncheon.



<http://www.corelab.com>



<http://www.ccgeo.org>

PLEASE THANK OUR GENEROUS SPONSORS!!!

**SPONSORSHIPS FOR THE TUESDAY PINT NIGHT SOCIAL GATHERINGS AND
WEDNESDAY LUNCHEON MEETING BARS ARE OPEN!!!**

**Please consider a CCGS/CBGS sponsorship!!! It's a great way to advertise both
your company and the services it provides!!!**

Inversion of Spectrally-Broadened 3D Seismic Data: Case Study for Olmos Unconventional Play, South Texas

Presented by: Bruce Moriarty, Principal Geophysical Advisor, Lumina Geophysical

Summary

In South Texas, tight gas sandstone reservoirs in the Olmos Formation are prospective. Unfortunately, detecting and mapping the lateral continuity of reservoir quality Olmos sands is limited by the fact that prospective pay zones are commonly below conventional seismic resolution. Thus, spectral broadening is potentially valuable if it can be shown to be useful in this area. This paper describes seismic interpretation and simultaneous inversion results of an original and a spectrally-broadened high-resolution seismic dataset across the South Texas Olmos tight sand. The incorporation of high-resolution seismic data addresses the lack of enough vertical resolution to image thin beds within the Olmos productive zone. This high-resolution seismic data results from the application of the sparse-layer inversion method (Zhang and Castagna 2011) to the original pre-stack seismic data. The method is unbiased against thin beds and thus allows the detection and resolution of thin beds below tuning thickness.

Abstract

The primary objective of this work was to identify sweet spots in the unconventional tight sand reservoir of the Olmos formation using pre-stack simultaneous inversion. The second objective was to compare the original seismic data with high-resolution seismic data, along with the resulting simultaneous inversions. High-resolution seismic data is the result of sparse layer inversion method applied to the original pre-stack seismic data. This method inverts the frequency spectrum for layer thickness and enables the detection and resolution of thin beds below tuning thickness.

Simultaneous inversion is a process which generates P impedance, S impedance, and density at the same time, though only the P impedance results will be shown today. The P impedance volume generated from the original seismic lacked sufficient vertical resolution to image thin beds (~ 25-30 ft/ 7.6-9 m) within the productive interval of the Olmos formation. High-resolution seismic was used to address this challenge. The process of spectral layer inversion improved the resolution from about 98 feet to 47 feet. At this resolution, two additional horizons can be mapped to separate individual porosity zones within the productive Olmos interval.

Using the P impedance volume generated from the high-resolution seismic, we were able to map a new low impedance anomaly within the study area. This new anomaly correlates with the lower interval of the high porosity zone associated with better Olmos production, and should provide new potential for field development.

This general approach may be very useful in many plays worldwide.

About our Presenter:



Bruce Moriarty attended Colgate University in Syracuse, New York, earning his Bachelor Degree in Geology in 1972. He also attended the University of South Carolina – Columbia.

Bruce was a Project Manager for Visos, coordinating 3-D seismic surveys in the Gulf Coast, Mid-Continent, and Rocky Mountain Regions in a multi-component program, including the Bureau of Economic Geology and PGS Onshore. He has served as the Principal Geophysicist for El Paso Production, Chief Geophysicist for Dominion Exploration & Production, as well as Geophysical Advisor for Swift Energy. He presently serves as Principal Geophysical Advisor for Lumina Geophysical in Houston, Texas.

Bruce is an expert in utilizing new seismic technologies to extend the production life and economics of existing fields through enhanced well performance and recovery. He has researched and published reports on identifying new targets in mature unconventional plays by utilizing new seismic technologies.

Bruce was the President of the Denver Geophysical Society in 1985, the Treasurer of the Geophysical Society of Houston in 2010. He is also a member of the Society of Exploration Geophysicists (SPE), American Association of Petroleum Geologists (AAPG), and enjoys skiing, golf, and motorcycling.





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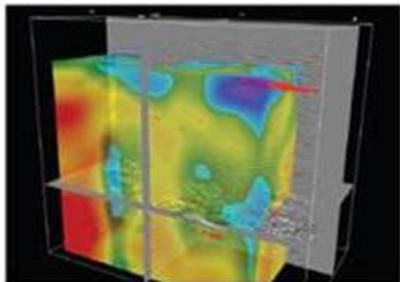


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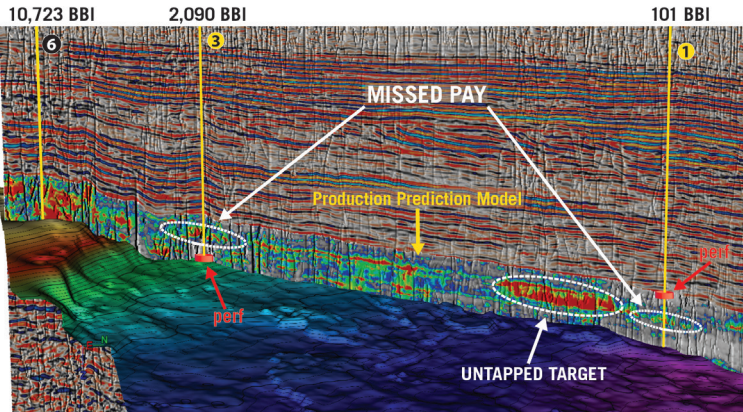
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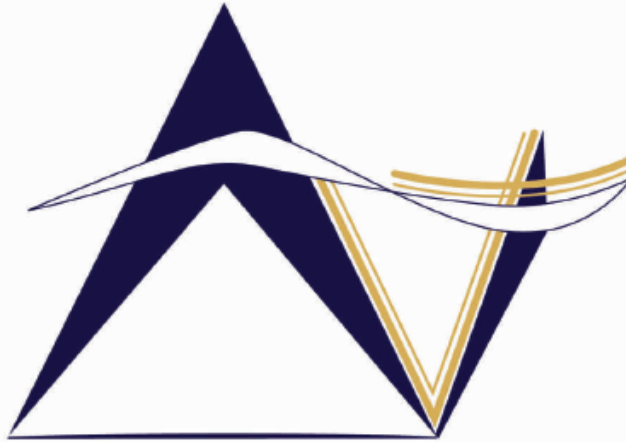
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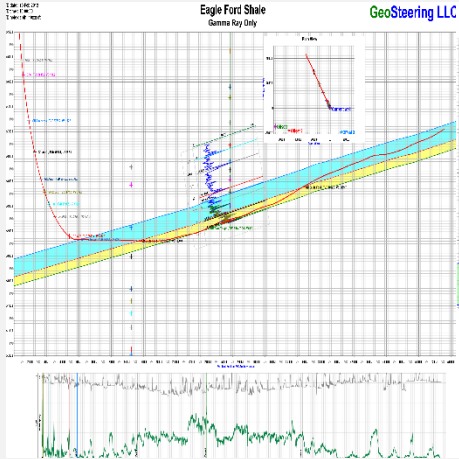
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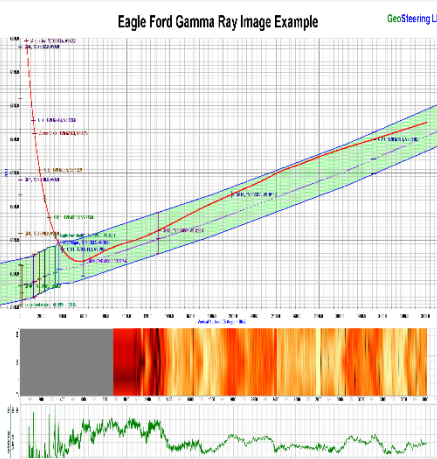
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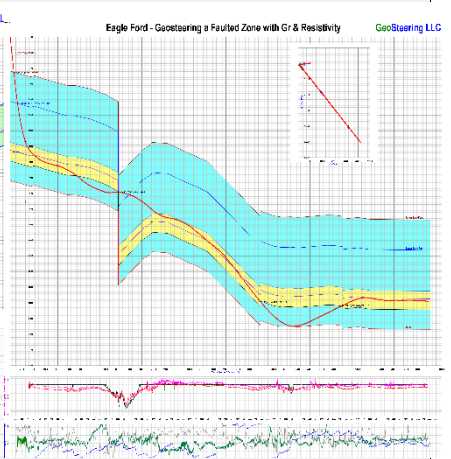
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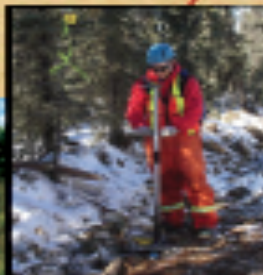
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Nine Mile Point
Rockport, West
St. Charles
Tally Island
Tract 831-G.O.M. (offshore)
Virginia

BEE COUNTY

Caesar
Mosca
Nomanna
Orangedale(2)
Ray-Wilcox
San Domingo

Tulsita Wilcox

Strauch_Wilcox

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Boedecker
Cage Ranch
Encintas
ERF
Gyp Hill

Gyp Hill West

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Mariposa
Mills Bennett
Pita
Tio Ayola
Tres Encinos

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Heyser
Lavaca Bay
Long Mott
Magnolia Beach
Mosquito Point
Olivia
Panther Reef
Powderhorn
Seadrift, N.W.
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S.E. Zoller

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Devil's Waterhole
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Hostetter, North

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Arnold-David, North
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Corpus Christi, N.W.
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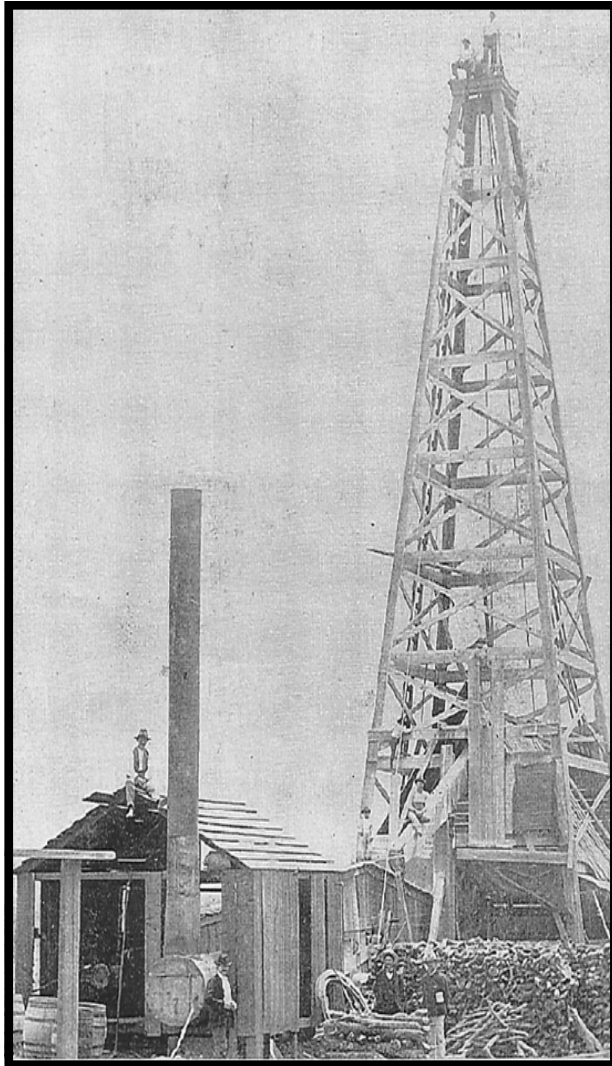
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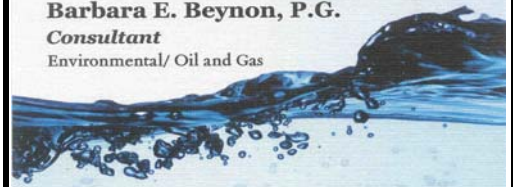
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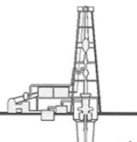
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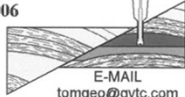
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