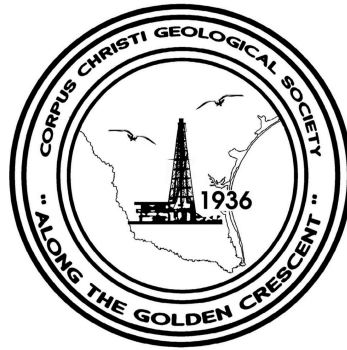


# **BULLETIN**

**Corpus Christi  
Geological Society**



and

**Coastal Bend  
Geophysical Society**



**May  
2016  
ISSN 0739 5620**

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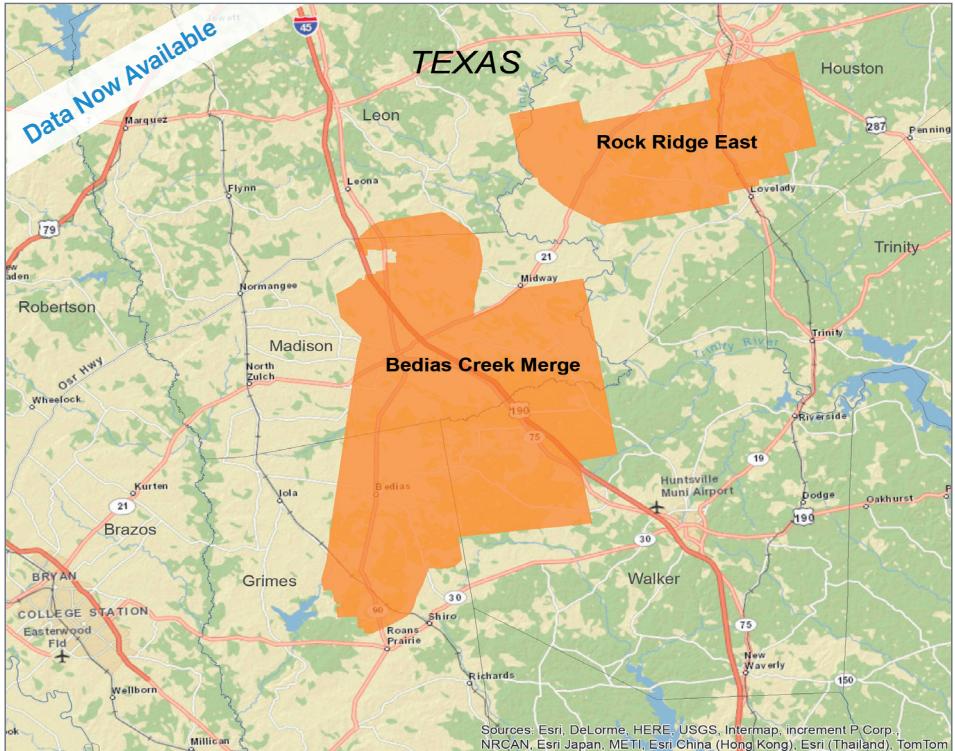
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[cgg.com/multi-client](http://cgg.com/multi-client)

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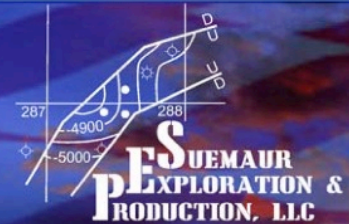
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## CORPUS CHRISTI GEOLOGICAL SOCIETY

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

2015-2016

[www.ccgeo.org](http://www.ccgeo.org)

### **OFFICERS**

President	Mike Lucente	361-883-0923	<a href="mailto:mikel@impexploration.com">mikel@impexploration.com</a>
President Elect	Barbara Beynon	361-387-9400	<a href="mailto:bbeynon77@yahoo.com">bbeynon77@yahoo.com</a>
Vice President	William Thompson	361-242-3113	<a href="mailto:William.Thompson@rrc.texas.gov">William.Thompson@rrc.texas.gov</a>
Secretary	Casey Mibb	361-726-1092	<a href="mailto:clmibb@yahoo.com">clmibb@yahoo.com</a>
Treasurer	Austin Nye	361-452-1435	<a href="mailto:austin@nyexp.us">austin@nyexp.us</a>
Past President	Leighton Devine	361-510-8872	<a href="mailto:ldevine@suemaur.com">ldevine@suemaur.com</a>
Councilor I	Rick Paige	361-884-8824	<a href="mailto:rickp@suemaur.com">rickp@suemaur.com</a>
Councilor II	Randy Bissell	361-885-0113	<a href="mailto:randyb@headington.com">randyb@headington.com</a>

### **AAPG DELEGATE**

2006-2016	Dennis Moore	361-886-5144	<a href="mailto:dennis.moore@bakerhughes.com">dennis.moore@bakerhughes.com</a>
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### **EDITORS**

Bulletin Editor	Marian Wiedmann	361-855-2542	<a href="mailto:wiedgulf@gmail.com">wiedgulf@gmail.com</a>
Bulletin Tech. Editor	Sebastian Wiedmann	361-946-4430	<a href="mailto:swiedmann.geo@gmail.com">swiedmann.geo@gmail.com</a>
Web Master	Josh Pollard	361-654-3100	<a href="mailto:support@interconnect.net">support@interconnect.net</a>

### **GEOLOGICAL SOCIETY COMMITTEES & CHAIRPERSONS**

Advertising/ Business Cards	Robert Sterett	361- 739-5618	<a href="mailto:robert.sterett@gmail.com">robert.sterett@gmail.com</a>
Arrangements	Wes Gisler & Will Graham	830-239-4651 361-885-0110	<a href="mailto:wes@gislerbrotherslogging.com">wes@gislerbrotherslogging.com</a> <a href="mailto:willg@headingtonenergy.com">willg@headingtonenergy.com</a>
Bloodmobile	Mike Lucente	361-883-0923	<a href="mailto:mikel@impexploration.com">mikel@impexploration.com</a>
Earth Day	Alan Costello	361-888-4792	<a href="mailto:acostello@royalcctx.com">acostello@royalcctx.com</a>
Continuing Ed.	Stephen Thomas	361-660-8694	<a href="mailto:stthomas@spnaturalresources.com">stthomas@spnaturalresources.com</a>
Education	J. R. Jones	361-779-0537	<a href="mailto:jrjones5426@aol.com">jrjones5426@aol.com</a>
Scholarship	Dawn Bissell	361-960-2151	<a href="mailto:bissells@swbell.net">bissells@swbell.net</a>
Fishing Tournament	Leighton Devine	361-882-8400	<a href="mailto:ldevine@suemaur.com">ldevine@suemaur.com</a>

History	Ray Govett	361-855-0134	<a href="mailto:ray30@hotmail.com">ray30@hotmail.com</a>
Membership	Dorothy Jordan	361-885-0110	<a href="mailto:dorothyj@headington.com">dorothyj@headington.com</a>
	Randy Bissell	361-885-0113	<a href="mailto:randyb@headington.com">randyb@headington.com</a>
Type Logs	Frank Cornish	361-883-0923	<a href="mailto:frank.cornish@gmail.com">frank.cornish@gmail.com</a>
University Liaison	Zach Corcoran	361-902-2857	<a href="mailto:zcorcoran1982@gmail.com">zcorcoran1982@gmail.com</a>



**COASTAL BEND GEOPHYSICAL SOCIETY**  
**P.O. BOX 2741 \* C.C. TX. 78403**  
**2015-2016**

**OFFICERS**

President	Lonnie Blake	361-883-2831	<a href="mailto:lonnie_blake@eogresources.com">lonnie_blake@eogresources.com</a>
Vice President	Tom Harrington	361-902-2886	<a href="mailto:tom_harrington@eogresources.com">tom_harrington@eogresources.com</a>
Secretary/ Treasurer	Matt Hammer	361-888-4792	<a href="mailto:mhammer@royalcctx.com">mhammer@royalcctx.com</a>

**COMMITTEES AND CHAIRPERSONS**

Membership	Dorothy Jordan	361-885-0110	<a href="mailto:dorothyj@headington.com">dorothyj@headington.com</a>
	Randy Bissell	361-885-0113	<a href="mailto:randyb@headington.com">randyb@headington.com</a>
Golf Chairman	Fermin Munoz	361 960-1126	<a href="mailto:fmunoz04@hotmail.com">fmunoz04@hotmail.com</a>
Scholarship/ Chairman	Ed Egger	361-947-8400	<a href="mailto:edegger69@gmail.com">edegger69@gmail.com</a>
Education			

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## CCGS/CBGS JOINT MEETING SCHEDULE 2015-2016

September 2015							October 2015							November 2015						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
		1	2	3	2	5					1	2	3	1	2	3	4	5	6	7
6	7	8	9	10	11	12	4	5	6	7	8	9	10	8	9	10	11	12	13	14
13	14	15	16	17	18	19	11	12	13	14	15	16	17	15	16	17	18	19	20	21
20	21	22	23	24	25	26	18	19	20	21	22	23	24	22	23	24	25	26	27	28
27	28	29	30				25	26	27	28	29	30	31	29	30					

Sept. 10, 2015  
5:30p.m.—8:30p.m.  
Kickoff BBQ  
Hoegemeyer’s Barbeque Barn

Oct. 28—11:30a.m.—1:00p.m.  
Speaker: Neil Peake, CCG Geo  
Consulting Seismic Reservoir  
Characterization.  
“Unconventional Reservoirs:  
An Integated Workflow  
Incorporating Surface Seismic,  
Mineralogy, & rock Properties  
in the Haynesville Shale.”

Nov. 18—11:30a.m.—1:00p.m.  
Speaker: Lorenzo Garza & Joe  
Stasulli, Railroad Commission of  
Texas. “Horizontal Drilling in Texas:  
A Tale That Begins in the Austin  
Chalk, but Whose Ending Has Yet  
To be Written.”

December 2015							January 2016							February 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	4	5						1	2		1	2	3	4	5	6
6	7	8	9	10	11	12	3	4	5	6	7	8	9	7	8	9	10	11	12	13
13	14	15	16	17	18	19	10	11	12	13	14	15	16	14	15	16	17	18	19	20
20	21	22	23	24	25	26	17	18	19	20	21	22	23	21	22	23	24	25	26	27
27	28	29	30	31			24	25	26	27	28	29	30	28	29					

Dec. 9—11:30a.m.--1:00p.m.  
Speaker: Dmitri Bevc, Ph.D.,  
Chevron, SEG Distinguished  
Lecturer “Full Wave-Form  
Inversion: Challenges,  
Opportunities and impact”

Jan. 20--11:30a.m.—1:00p.m.  
Speaker: Charles Sicking, VP  
of R&D/Chief Geophysicist,  
Global Geophysical Services,  
Inc. “Predicting Frac  
Performance and Active  
Producing Volumes Using  
Microseismic Data”

Feb. 17—11:30a.m.—1:00p.m.  
Speaker: Richard Coffin, Ph.D.,  
Dept. Chair, Physical & Envir.  
Sciences, Texas A&M Univ.—  
Corpus Christi. “Integration of  
Geochemistry & Geophysics Applied  
to Coastal Gas Hydrate  
Assessment”



## CCGS/CBGS JOINT MEETING SCHEDULE 2015-2016

March 2016							April 2016							May 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	4	5						1	2	1	2	3	4	5	6	7
6	7	8	9	10	11	12	3	4	5	6	7	8	9	8	9	10	11	12	13	14
13	14	15	16	17	18	19	10	11	12	13	14	15	16	15	16	17	18	19	20	21
20	21	22	23	24	25	26	17	18	19	20	21	22	23	22	23	24	25	26	27	28
27	28	29	30	31			24	25	26	27	28	29	30	29	30	31				

March 16-11:30a.m.-1:00p.m.  
 Speaker: Thomas Ewing,  
 Ph.D., Texas Bureau of  
 Economic Geology; Frontera  
 Exploration Consultants, Inc.;  
 Yegua Energy Associates, LLC  
 “Building Texas: Insights from  
 the “Texas Through Time  
 Project”

April 20-11:30a.m.-1:00p.m.  
 Speaker: Lee Billingsley,  
 Ph.D., Abraxas Petroleum  
 Corp. “Geoscience  
 Applications to Economic  
 Development of a Relatively  
 Shallow, Low Gravity,  
 Structurally Complex Eagle  
 Ford Oil Development,  
 Atascosa County, Texas”

May 18-11:30-1:00p.m.  
 Distinguished Speaker: State  
 Representative Todd  
 Hunter, District 32

### 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 Tuesday—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 <sup>nd</sup> Tues every other month San Antonio

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## PRESIDENT'S LETTER

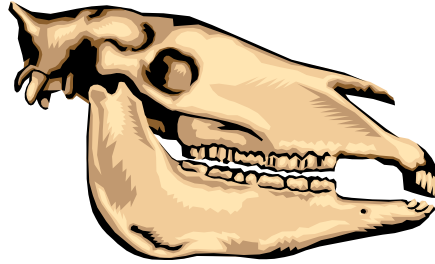
### FUTURE TRENDS IN THE INDUSTRY

One bright spot in the oil and gas community is the emergence of viable natural gas exploration potential. There have been a growing number of South Texas natural gas wells drilled in this quarter, and many were “pipe setters.” These wells were drilled because natural gas has been hovering around \$2.00 per MCF. On its face value, this doesn't look so good because natural gas was selling above this amount over a decade ago, but drilling and completion and wellsite services costs have come way down since the near collapse of the Eagle Ford oil and gas drilling activity.

As the geological and engineering community comes to grips with the new economics, natural gas deals have a potential to energize the industry. Natural gas prices should gradually increase over the coming years because of several factors. The main factor is that the associated natural gas with the Eagle Ford is falling dramatically, as well as virtually no drilling activity in the offshore state and federal waters. There are also many exciting trends in exporting of natural gas via pipeline to Mexico, and increasing LNG exports to Europe and Asia. The political “war on coal” has caused a shift in electrical generation to natural gas, and this trend may continue.

There has been eight years of depression in the natural gas portion of our industry due to high costs and low prices. In these eight years, there have been huge advances in 3D reprocessing technology and we may look at the natural gas landscape from a new perspective.

Mike Lucente—CCGS President



*20<sup>th</sup> Annual  
Family Fossil Hunt  
Field Trip*

**This Will Be The Final Trip By CCGS**

Saturday May 14th, 2016  
8:00 a.m. to Noon

Please RSVP to Juan Cabasos @ 361-960-7233

Bring a hat, gloves, shovels, buckets, sunscreen, mosquito repellent.....

8:00 a.m. Meet at the Country Store in Blunzter  
Intersection of FM 624 and FM 666

9:00 a.m. Leave Country Store and Hunt for **FOSSILS**

Hamburger/Hot Dogs – Sabalo Energy – Tom Medary

Chips and Drinks – Core Lab – Juan Cabasos

BBQ Pit & Cook – Baker Hughes – Tom Wursthorn



## PRESIDENT'S LETTER

### News -

The LNG carrier *Asia Vision*, chartered by Cheniere Marketing, LLC left the Sabin Pass LNG terminal on 2/25/2016, and is delivering its load to Petrobras in Brazil. As of March 28th, 4 cargos have been loaded and exported. Each cargo is 2.5-3.0 Bcf

### Business -

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

### Education/Events -

#### - GSH

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. Please mention CBGS if you register for any GSH events.

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>

AAPG Convention, 19-22 June, Calgary

- HGS --Interpretation and Analysis of Old Logs - One-Day Short Course, \$75-\$115, by Bill Price, Friday, May 6, 2016 Shell Woodcreek Complex,Bldg. F,150 N Dairy Ashford Rd,Houston, TX 77079

- NAPE --August 10-11, Houston

- OTC --May 2-5, Houston

- URTEC --August 1-3, San Antonio

### Thought for the month

"The world belongs to those who think and act with it, who keep a finger on its pulse." William R. Inge

### Monthly O&G Statistics

Texas Oil and Gas Info	Current Month	Last Month	Difference	
<b>Texas Production</b>	<b>MMBO/BCF</b>	<b>MMBO/BCF</b>	<b>MMBO/BCF</b>	
Oil	76	78.9	-2.9	Jan
Condensate	9.8	10.9	-1.1	
Gas	612	668	-56	Jan
	<b>Current Month</b>	<b>Yr to date - 2016</b>	<b>Yr to date - 2015</b>	
<b>Texas Drilling Permits</b>	<b>511</b>	<b>1,594</b>	<b>2,949</b>	Mar
Oil wells	129	429	699	
Oil and Gas	312	946	1,878	
Gas wells	30	99	227	
Other	0	0	0	
<b>Total Completions</b>	<b>1,182</b>	<b>3,452</b>	<b>5,948</b>	Mar
Oil Completions	947	2,720	4,518	
Gas Completions	194	577	859	
New Field Discoveries	2	4	19	
Other	8	13	17	

### **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

**\*\*\*BLOOD DRIVE\*\*\***

THE BLOODMOBILE – IN MAY, 2016  
WILL BE AT SOME CONVENIENT LOCATIONS  
PLEASE CALL 855-4943 for those locations or –

**FOR CURRENT SCHEDULES & LOCATIONS OF THE  
BLOODMOBILES YOU CAN LOG ON TO:**

[www.coastalbendbloodcenter.com](http://www.coastalbendbloodcenter.com)

**ATTENTION!!!**

**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 give them that number also.**

Thanks! Mike Lucente

---



**Get out & enjoy the May weather .....  
Then - Zoom over to the Bloodmobile!!  
Please Donate your Blood!!  
You'll be glad you did!**

---



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



# LUNCHEON MEETING ANNOUNCEMENT

**WEDNESDAY, MAY 18, 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 Global Geophysical Services
- 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](mailto: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.globalgeophysical.com>

**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!!!***

---

## ***Texas Legislative Update***

Presented by

**2016 Distinguished Speaker**

**Representative Todd Hunter**

**Texas House of Representatives, District 32**

### **About our Presenter:**



**Todd A. Hunter** was born in Bartlesville, Oklahoma on August 26, 1953. He attended the University of Kansas and Southern Methodist University Dedman School of Law. Hunter has practiced law since November 1978 and is currently a partner of Hunter, Barker & Fancher, L.L.P. in Corpus Christi. Todd and his wife, Alexis Taylor Hunter, have three children: Todd Jr., Michael and Christina.

In 2014, Todd was re-elected for his eighth term as a state representative for District 32, representing the eastern half of Nueces County. For the 84th Legislative Session, Todd was appointed Chairman of Calendars, Vice-Chairman of Urban Affairs, and was a member of the Redistricting, General Investigating and Ethics, and Criminal Jurisprudence Committees.



# *Spring into Action, Donate Blood.*

*The Railroad Commission  
of Texas*

## *Blood Drive*

*Friday, April 22nd  
1:00pm-4:00pm*

*All donors will receive Donor  
Store Points & a Sonic coupon!*



*Coastal Bend Blood Center  
Giving so that others may live*

**Photo I.D. Required**



The Corpus Christi Geological Society awarded \$2,000 in scholarships to 5 local students in April 2016.

This year we wanted to focus on students near the end of their undergraduate degrees and support students who were attending field camp this summer. We all remember our field camp experiences, and in today's climate, field camp can be one of the most expensive aspects of the undergraduate degree. Also, the fact that most field camps are 6 weeks long, it precludes the possibility of working during the summer.

Five students from TAMU-K who are attending field camp this summer applied and were awarded scholarships.



Dawn Bissell-chairman, Jacob Byerly, Monica Estrada, Kasey Phelps, James Quisenberry and Kelsey Robinette.

The CCGS Scholarship fund received donations from member contributions, the CCGS Fishing Tournament and the Corpus Christi Oilman's Tennis Tournament proceeds. These donations are vital to allow the committee to fund the scholarships for our deserving students. Every donation is very much appreciated.

The next awards will be given in November 2016.

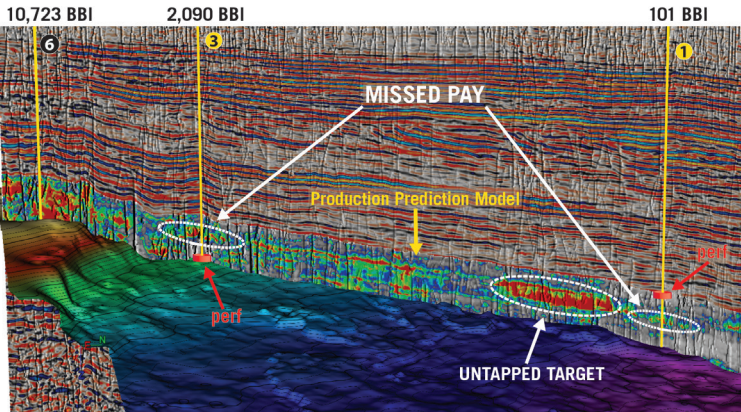
The Scholarship Committee members are:

JR Jones, Vice-Chairman  
Brent Hopkins, Treasurer  
Bob Critchlow, Member

Beth Priday, Secretary  
Mike Lucente, CCGS President  
BJ Thompson, Member

Dawn S. Bissell  
Scholarship Committee Chairman

# SEISMIC-BASED ANALYTICS



An arbitrary line through 3 vertical wells in the West Texas Permian Basin shows the lateral variations of the Production Prediction Model and reveals refrac potential for Wells 1 and 3 where the red disks indicate the actual completion intervals and the white circles highlight the missed pay. Note the untapped target near Well 1.

In today's challenging market, no one can afford a bad well. Global's seismic-based analytics can help you avoid the pitfalls and pinpoint the sweet spots. By integrating seismic, geological, and engineering data, this proprietary workflow identifies the most prospective areas and zones for drilling - down to the stage level! This reduces risk, optimizes spend, and greatly increases the chance for every well and stage to be a winner.

- High-grade prospective drilling areas and zones
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- Optimize completion placements and frac design
- Predict well performance at stage level
- Boost EUR of individual wells
- Identify candidates for refrac

Global's **SEISMIC-BASED ANALYTICS** approach is field-proven with successful projects in both conventional and unconventional reservoirs. Contact us today to find out how Global can help you make every well a winner.

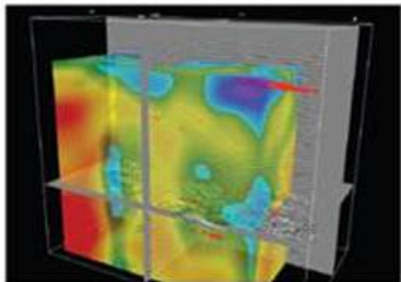
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Contact [ANALYTICS@globalgeophysical.com](mailto:ANALYTICS@globalgeophysical.com)



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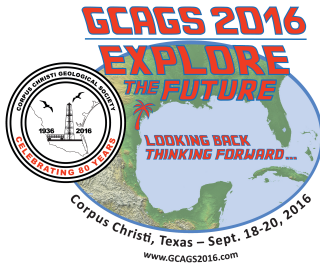
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Plans for the GCAGS are moving along nicely. The Call for Papers was a great success. Rick Paige, Bob Critchlow, and Allen Lassiter have done an excellent job! We have over 100 abstracts for oral presentations and over 60 abstracts for poster presentations in eighteen technical categories. We have 4 short courses, 4 field trips, 2 Teacher/student training seminars, and 2 guest activities. Thank you Stephen Thomas, JR Jones, and Darlene Murry! The convention will have an outstanding technical program!

The Sunday evening Ice Breaker will feature Margaritas and Mariachis! After the Happy Hour on Monday, we will head over to Brewster’s Street Ice House for cold beer and bluegrass music – with *Texas Grassroots* featuring a two time Texas Fiddle Champion and two local geologists.

Check it all out on our website: [www.gcags2016.com](http://www.gcags2016.com).

Almost all of our chairman positions have been filled. Thank you Robby Sterett, Casey Mibb, Dorothy Jordan, Alexandra Dyckman, Fermin, Munoz, and Dennis Moore! As we draw closer to the actual convention we will need ‘all hands on deck’. So please volunteer or say yes when asked to help.

Companies are continuing to support the convention with sponsorships. We appreciate their early support and confidence. I personally ask you to consider a sponsorship. Supporting companies include:

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See the sponsorship form in the bulletin or contact Lonnie Blake (361-876-6614) or me for more information.

As the convention gets closer, the excitement is growing!

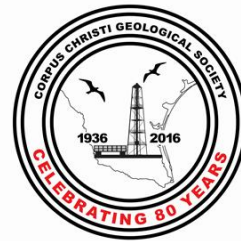
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*As an adjunct professor at TAMU-CC teaching Historical Geology, I was privileged to receive this fine submission for an essay assignment this semester. I hope my fellow Society members will enjoy this as much as I did. – Randy Bissell*

---

## **Are Wild Horses Native to North America?**

Giang Nguyen

Wild horses in North America are assumed to be non-native and invasive to the ecosystem competing with native species. To protect native species, many state and federal governmental management agencies are trying to limit the increase in populations of wild horses familiarly called “mustangs.” However, simple evidence from geologic history proves that horses are originally from North America and, thusly, this species should be protected from capture, destruction, and harassment.

Are modern horses to be considered a native species to North America or not?

*Equus* is an ancient mammalian species of a diverse family of horses which include the modern horse and zebra. According to Jay Kirkpatrick and Patricia Fazio (2008), there is significant fossil evidence to prove that the modern *Equus* appeared 4 to 6 million years ago in North America and then spread to Eurasia about 2 to 3 million years ago during the Pliocene Epoch. In North America, modern horses became extinct between 13,000 and 11,000 years ago in North America during the late Pleistocene. However, in the late 15<sup>th</sup> century, the domesticated Spanish horse, which is called *Equus caballus*, followed the voyages of Columbus and other Spanish explorers to return to North America.

“This isn’t about history, it’s about biology,” Kirkpatrick (2008) said, “The Spanish were bringing them home.” In the past, scientists used physical form to clarify the categories of animal and plants. This method is not adequate for modern biology due to the lack of accuracy and the considerations of genetics. DNA analysis is the best way to prove the relationship of modern wild horses in the North America to their native ancestors. Ann Forsten who works for the Department of Evolutionary Biology in Uppsala University established estimations for the date of origin for the modern horse. On the basis of the mutation rate for mitochondrial-DNA, the *E. caballus* type horse likely appeared in North America approximately 1.7 million years ago – long before their believed extinction on this continent in sufficient time to migrate to Asia.

Understanding the origin of the horse is really important both scientifically and aesthetically. I think state and federal agencies should adopt a policy to protect and preserve the horse as a native species in North America. Beautiful herds of wild horses should be regarded today as endangered species living in their natural habitat. Many people fail to understand the full history of the horse. They believe that mustangs

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unnaturally invaded and ruined the “natural” West. They believe the presence of these mustangs harms native plant growth and habitats for other “native” wildlife. But the complex history of the horse in North America challenges and may change the perspective on what is really natural and native.

**Figure 1**



Late Pleistocene horse skull, *Equus lambei*, from the Klondike region, Yukon. © D.G. Froese

#### Sources and References

Kirkpatrick, J., Fazio, P. (2008). The Surprising History of America’s Wild Horses. *Lifescience*. Retrieved from <http://www.livescience.com/9589-surprising-history-america-wild-horses.html>

Unknown (2006). Are North America’s wild horses native? *Horsetalk*. Retrieved from <http://www.horsetalk.co.nz/2014/10/07/north-americas-wild-horses-native/#axzz41cBQjjKY>



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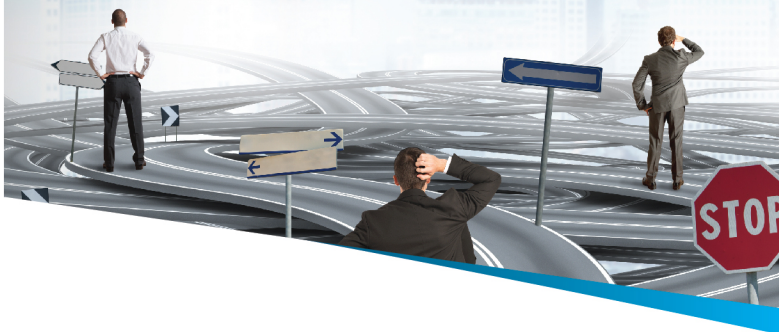
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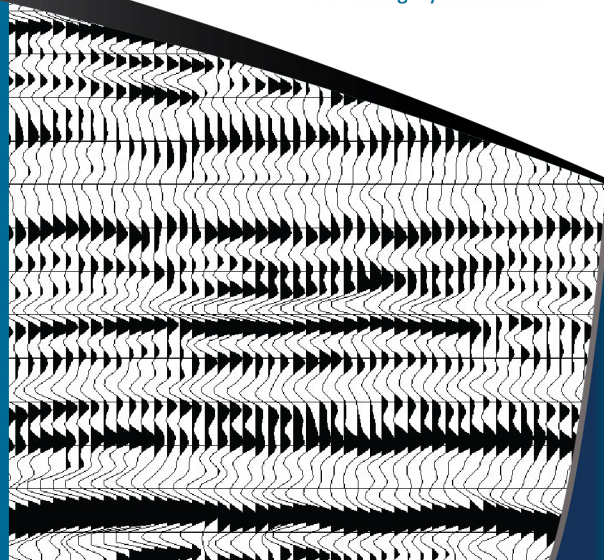
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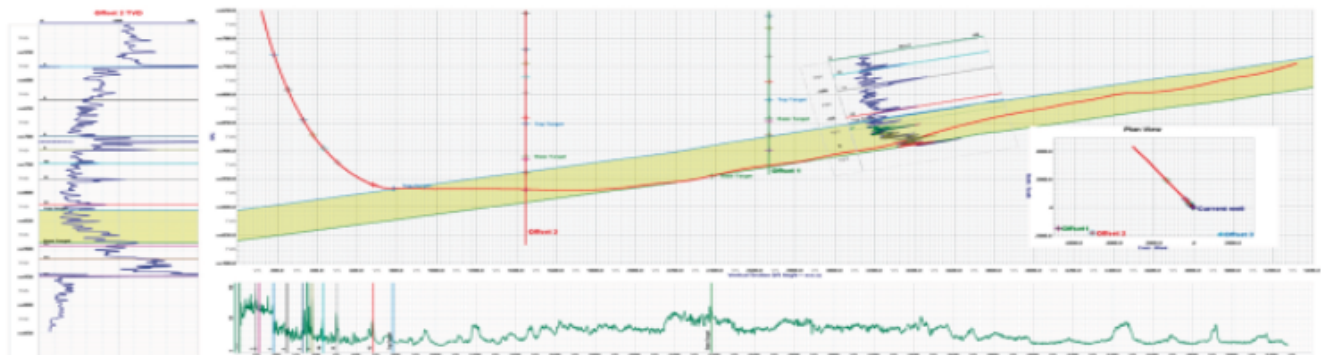
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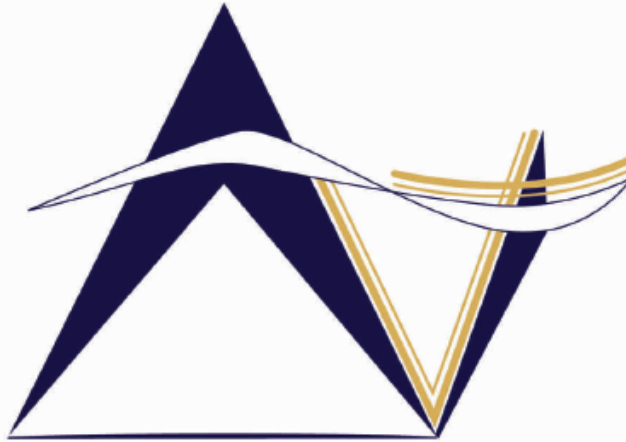
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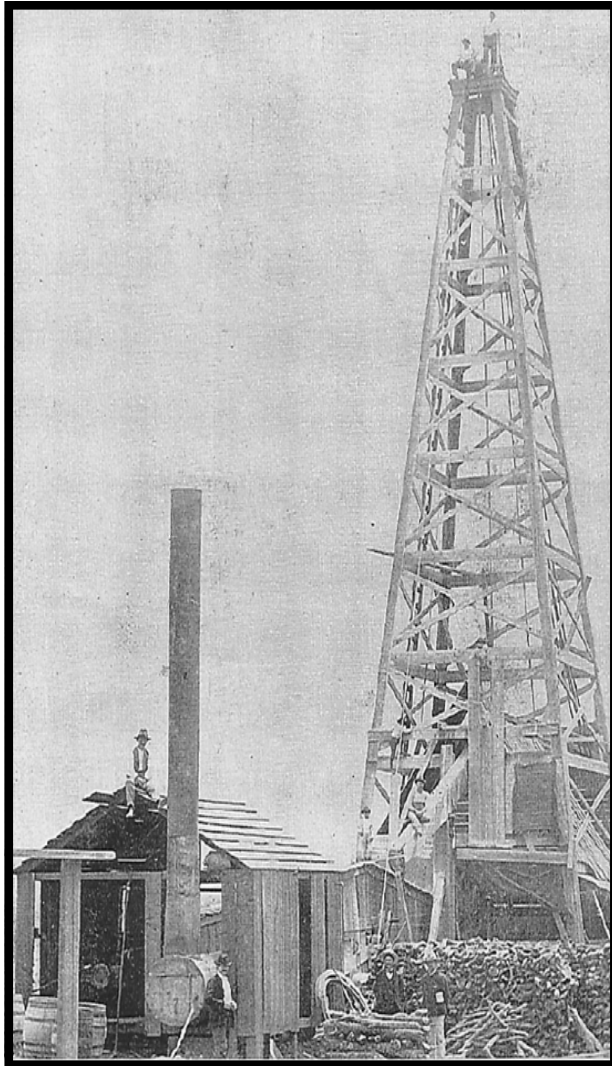
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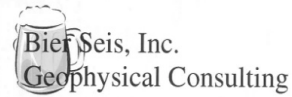


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Geologist / Geosteering Manager  
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david becker  
geologist  
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**James Bloomquist**  
Business Development Manager  
jbloomquist@integrityseismic.com

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**James L. Claughton**  
CONSULTING GEOLOGIST

Office | 361-887-2991  
Fax | 361-883-4790  
Cell | 361-960-2014  
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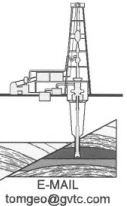
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Frank G. Cornish  
Consulting Geologist  
615 N. Upper Broadway, Suite 1770  
Corpus Christi, TX 78401  
frank.cornish@gmail.com

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**TOM DAVIDSON**  
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Sara Davis  
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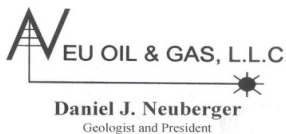
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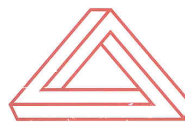
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**Dennis A. Taylor**  
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dennis@amshore.com

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jimmerrmann74@msn.com



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**Jim Trevillo**  
Senior Geoscientist

1330 Post Oak Boulevard  
Suite 600  
Houston, Texas 77056

Direct: 713.439.6773  
Main: 713.826.7765  
Fax: 713.826.7775  
Cell: 713.826.9392

jtrevillo@davcos.com



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Houston, TX 77042-4299  
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Mobile: 281-615-6827  
C.Tutt@slb.com

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cell: 512.217.5192  
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**SEBASTIAN P. WIEDMANN**  
GEOLOGICIST

WILSON PLAZA WEST  
505 N. CARANCAHUA, SUITE 500  
CORPUS CHRISTI, TEXAS 78401  
MOBILE (361) 946-4430  
swiedmann.geo@gmail.com



**Dave Willis**  
Onshore Sales

Main +1 713 789 7250  
Direct +1 281 781 1035  
Mobile +1 281 543 6189  
Fax +1 713 789 7201  
dave.willis@iongeo.com

2105 CityWest Blvd. | Suite 900  
Houston, TX 77042-2839 USA



10001 Richmond Avenue  
Houston, Texas 77042-4299  
P.O. Box 2469 (77252-2469)  
Tel: 713-689-2757  
Fax: 713-689-1089  
Mobile: 281-658-5263  
CYanez@slb.com

**Charles Yanez**  
Manager  
Shared Value Optimization