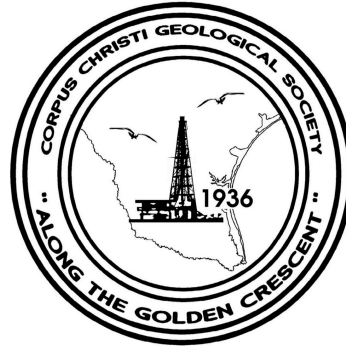


**BULLETIN**  
**Corpus Christi**  
**Geological Society**



and

**Coastal Bend**  
**Geophysical Society**



**September**  
**2018**  
**ISSN 0739 5620**

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## CORPUS CHRISTI GEOLOGICAL SOCIETY

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

2018-2019

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

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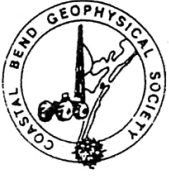
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Scholarship Program	Dawn Bissell	361-960-2151	<a href="mailto:bissells@swbell.net">bissells@swbell.net</a>
Fishing Tournament	Leighton Devine	361-882-8400	<a href="mailto:ldevine@suemaur.com">ldevine@suemaur.com</a>
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Type Logs	<b>OPEN</b>		



**COASTAL BEND GEOPHYSICAL SOCIETY**  
**P.O. BOX 2741 \*C.C. TX. 78403**  
**2017-2018**

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web site at  
[www.ccgeo.org](http://www.ccgeo.org)**

## CCGS/CBGS JOINT MEETING SCHEDULE 2018-2019

September 2018							October 2018							November 2018						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
						1	1	2	3	4	5	6					1	2	3	
2	3	4	5	6	7	8	7	8	9	10	11	12	13	4	5	6	7	8	9	10
9	10	11	12	13	14	15	14	15	16	17	18	19	20	11	12	13	14	15	16	17
16	17	18	19	20	21	22	21	22	23	24	25	26	27	18	19	20	21	22	23	24
23	24	25	26	27	28	29	28	29	30	31				25	26	27	28	29	30	
30																				

Wednesday Sept. 19<sup>th</sup> at 5:30 BBQ Kickoff at Hoegemeyers Barbeque Barn. Meet/greet our special guest, Dr. Satinder Chopra\*  
 \*One of the most widely published geoscientists of our day.

December 2018							January 2019							February 2019						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
						1			1	2	3	4	5						1	2
2	3	4	5	6	7	8	6	7	8	9	10	11	12	3	4	5	6	7	8	9
9	10	11	12	13	14	15	13	14	15	16	17	18	19	10	11	12	13	14	15	16
16	17	18	19	20	21	22	20	21	22	23	24	25	26	17	18	19	20	21	22	23
23	24	25	26	27	28	29	27	28	29	30	31			24	25	26	27	28		
30	31																			

11:30am – 1:00pm  
 Speaker: Hongliu Zeng research scientist Bureau of Eco. Geology, Jackson School of Geosciences, The Univ. of Tx. Austin. “Seismic Sedimentology Talk”

## CCGS/CBGS Joint Meeting Schedule 2018-2019

March 2019							April 2019							May 2019						
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S
					1	2		1	2	3	4	5	6				1	2	3	4
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31	
31																				

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



## PRESIDENTS LETTER

I find myself in a position that I always thought one day I would serve, but that was always in the future. With declining and aging membership we are finding that everyone has already served in almost all capacities and many for life, with now even repeat presidents. Apparently, for me, the future is now. I served without election as president elect and serve now because of the vacuum that sucked me in. So I don't see this as a very democratic society, with career long committee appointments and long suffering officers. It's more like a beneficial dictatorship of those willing to carry the torch. As such, I would prefer the title of "Benevolent Overlord" with powers to bless our affairs and those that participate. We will see what the bylaws and the Board have to say about this. I have already blessed the first activity of my overlordship, the Fishing Tournament, chaired by the very fishy and long lasting chairman, Leighton Devine.

I'm sure many of our members, like the leadership are caught in this downturn where conventional oil and gas exploration is shunned by Wall St and many large independents. The success story that they can show is the incredible low prices that the short term abundance of hydrocarbons has created. In that abundance are the seeds of the next supply shortage. Will it be 2018 or 2040? Is this cyclical still or a paradigm shift where we (conventionals) never come back? Ultimately, the business is all about \$\$\$. Now, the unconventionals are getting all the \$\$\$ and are surviving despite a serious concern as to what ROI if any they are returning. And \$\$\$ do make it all FUN.

Us conventionals have nowhere to sell our prospects. I would like to see a turn away from a harvesting or simple mining of shale hydrocarbon mentality to one where our geological science is once again needed to find reservoirs that can give a 3:1 or 6:1 ROI or better. We know shale players also have to find the sweet spots, but mostly it seems to be after the regional blind spot drilling pattern in a shale play, that those sweet spots emerge. So boo me shale players, but I think the geology, the 3D seismic, AVO, and old fashioned wildcatting after structures or unseen stratigraphic plays is way more FUN than horizontal shale drilling. Join me all in a new revolution, LETS MAKE PETROLEUM GEOLOGY GREAT AGAIN!

Frank G Cornish

Benevolent Overlord



**RENEW...RENEW...RENEW...RENEW...RENEW...RENEW...RENEW...RENEW**

**Please RENEW for the 2018-19 Membership Period using those handy forms we mailed in August.**

Everyone should have received their **2018-2019** Membership Renewal forms in the US Mail.

- **PRINTED BULLETINS** are available to any member for \$50/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 on September 20. 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](http://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](mailto:membership@ccgeo.org)...or fax it to us at 361-885-0120.



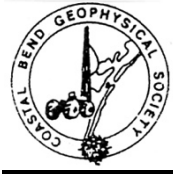
We mailed **400 renewals** this year and it is very expensive for our Societies. Your prompt return of your renewal form is *your* part of this process. Please make this effort worthwhile for our Society.

**RENEW...RENEW...RENEW...RENEW...RENEW...RENEW...RENEW...RENEW**

**For new members, active or student.** Email [randyb@headingtonenergy.com](mailto:randyb@headingtonenergy.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](mailto: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**



## **CBGS President's Letter**

### **CBGS Board 2018-2019**

Dr. Subbarao Yelisetti- President  
Lonnie Blake- Vice President  
Matt Hammer- Secretary/ Treasurer  
Dr. Robert Schneider- Continuing Education  
Lonnie Blake- Golf Chair  
Ed Egger- Scholarship Chair

### **CBGS Scholarships**

The board awarded three scholarships of \$2,000 each to undergraduate geophysics majors from Texas A&M University-College Station, University of Houston and Texas A&M University-Kingsville.

The following criteria is followed in awarding the scholarships.

1. Must be a citizen of the USA
2. Must have declared Major Geophysics at the main campus of the receiving university
3. Must have GPA 3.0
4. Must be in good standing with the school
5. Must make effort to attend a Coastal Bend Geophysical Society Meeting in Corpus Christi Texas after being awarded a scholarship to be recognized by the society.

### **News**

- According to U.S. Energy Information Administration (EIA) estimates, the U.S. crude oil production averaged 10.8 million barrels per day (b/d) in July, with an increment of 47,000 b/d from June. EIA forecasts that U.S. crude oil production will average 10.7 million b/d in 2018, up from 9.4 million b/d in 2017, and will average 11.7 million b/d in 2019.
- At the time of writing this report, the U.S. dry natural gas production was 81.8 billion cubic feet per day (Bcf/d) in July, up 0.4 Bcf/d from June. EIA dry natural gas forecasts indicate an average 81.1 Bcf/d in 2018, up by 7.5 Bcf/d from 2017. These forecasts show an increase up to 84.1 Bcf/d in 2019.
- As of July 2018, the U.S. crude futures have averaged over \$66.11 a barrel in 2018, as opposed to an average of \$50.85 a barrel in 2017 and \$43.47 a barrel in 2016, as reported by Scott DiSavino on reuters.com. This is going to increase to \$68 for the remainder of 2018 and about \$65 for 2019.
- According to Simmons forecast, the average oil/gas rig count would rise from 876 in 2017 to 1033 in 2018. These will increase to 1092 in 2019 and 1227 in 2020.

### **CBGS Business**

CBGS currently has 60 active members, 4 honorary members, and 60 student members.

## **CBGS workshop**

CBGS offered a Geophysics workshop on April 20<sup>th</sup> in EOG conference center with the following talks.

### **Talks:**

1. **IHS – What’s new/coming in the Kingdom Software Suite**
2. **Tad Smith – SEG Distinguished Lecturer: Seismic Petrophysics**
3. **CGG/Hampson Russell: Reservoir Property Prediction with Seismic**

CBGS is looking forward to offer many such workshops in the future. Topic/speaker suggestions are welcome. Email your suggestions to [Lonnie\\_Blake@eogresources.com](mailto:Lonnie_Blake@eogresources.com) or [Subbarao.Yelisetti@tamuk.edu](mailto:Subbarao.Yelisetti@tamuk.edu)

## **Golf Tournament**

CBGS organized its annual **Golf Tournament** to fund its scholarship program on October 6, 2017 at Northshore Country Club. Raised \$1951 for the scholarship fund. 2018 Golf tournament will be in the first week of October. If you are interested in the Golf Tournament, please contact Lonnie Blake at 361-887-2665 or [Lonnie\\_Blake@eogresources.com](mailto:Lonnie_Blake@eogresources.com)

## **New Degree Tracks at TAMUK**

- Texas A&M University-Kingsville (TAMUK) started its first cohort of MS Petrophysics program in Fall 2018. If you are interested in joining this program in Spring 2019, please contact the graduate coordinator for MS in Petrophysics, Dr. Subbarao Yelisetti at [Subbarao.Yelisetti@tamuk.edu](mailto:Subbarao.Yelisetti@tamuk.edu).
- **BS degree in Geophysics, Minor in Geophysics and Certification in Geophysics** offered at Texas A&M University-Kingsville from Fall 2017.

Interested students can contact Dr. Subbarao Yelisetti ([Subbarao.Yelisetti@tamuk.edu](mailto:Subbarao.Yelisetti@tamuk.edu)) for additional information.

## **Exploration Geophysics class**

**PHYS 5382 Exploration Geophysics** will be offered in Fall 2018 at Texas A&M University-Kingsville. Schedule is MWF 9:00-9:50 AM. This is available for the professional community as well as our students. You can sign up as a “transient” student in order to take classes without actually enrolling in the school. If anyone in the professional community wishes to sign up for this, please contact the instructor, Dr. Subbarao Yelisetti [Subbarao.Yelisetti@tamuk.edu](mailto:Subbarao.Yelisetti@tamuk.edu).

## **SEG Distinguished Lecture**

CBGS and TAMUK SEG student chapter organized 2018 SEG Distinguished Lecture in January, 2018. We wish to organize many more lectures in the future.

## **Education/Events**

### **-SEG**

SEG annual meeting will be held in Anaheim, CA from Oct 14<sup>th</sup>-19<sup>th</sup>, 2018. Abstract due date is April 1<sup>st</sup>, 5 pm CDT. See <https://seg.org/Annual-Meeting-2018> for additional details.

See <https://seg.org/Education/Lectures/Distinguished-Lectures> for information about upcoming SEG distinguished lecture in Houston and other locations.

See <https://seg.org/Education/Lectures/Honorary-Lectures> for SEG honorary lecture locations in Texas.

## -AGU

2018 Fall AGU annual meeting will be held in Washington, DC from December 10<sup>th</sup>-14<sup>th</sup>, 2018.

<https://fallmeeting.agu.org/2018/>

## Monthly Saying

"Omnia bona quoad perfora" - loosely translated as "All prospects look good until drilled" - motto used by Anadarko in 1994 following their sub-salt drilling in the Gulf of Mexico.

<b>Texas Oil and Gas Info</b>	<b>Current Month</b>	<b>Last Month</b>	<b>Difference</b>	
<b>Texas Production</b>	<b>MMBO/BCF</b>	<b>MMBO/BCF</b>	<b>MMBO/BCF</b>	
Oil	104.4	112.1	-7.7	April
Condensate	11.6	12.7	-1.1	April
Gas	644.1	678.0	-33.9	April
	<b>Current Month</b>	<b>Yr to date - 2018</b>	<b>Yr to date - 2017</b>	
<b>Texas Drilling Permits</b>	1153	8330	7503	July
Oil wells	324	2160	1901	July
Gas wells	73	519	405	July
Oil and Gas wells	680	5075	4753	July
Other	9	80	102	July
<b>Total Completions</b>	940	6514	4388	July
Oil Completions	753	5089	3516	July
Gas Completions	157	1084	561	July
New Field Discoveries	5	15	20	July
Other	1	24	7	July

## Monthly Summary

**Subbarao Yeliseti**

**President, CBGS**



The Corpus Christi Geological Society  
The Coastal Bend Geophysical Society



Invite you to the  
**Society Kickoff Bar-B-Q**

Wednesday, September 19, 2018

5:30 to 8:00 p.m.

Meet/greet our special guest, Dr. Satinder Chopra\*

\*One of the most widely published geoscientists of our day

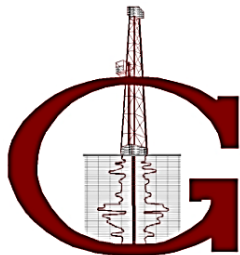
## Hoegemeyer's Barbeque Barn

711 Concrete Street (Located across from Concrete Street Amphitheater).  
From downtown, take Chaparral St. north, then left on Belden St.

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**\$15 students**

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**RSVP (required) by Monday, Sept. 17**

Dorothy Jordan, [Dorothy@headingtonenergy.com](mailto:Dorothy@headingtonenergy.com), 361-885-0113

Wes Gisler, [wes@gislerbrotherslogging.com](mailto:wes@gislerbrotherslogging.com), 1-830-239-4651



**Mark your calendars - September 19, 2018  
BEFORE THE SOCIETY KICKOFF AT HOEGEMEYER'S**

Coastal Bend Geophysical Society – Special Lecturer

## **Dr. Satinder Chopra**

**Wednesday, September 19 at 3:00 pm**  
EOG CONFERENCE CENTER – Tower III

*Dr. Chopra often publishes helpful articles on recent applications of seismic attributes in **AAPG Explorer** and **SEG Leading Edge** magazines – The current issue of Explorer has an article on Machine Learning in seismic interpretation. He will also join us at the kickoff.*

---

### **Seismic reservoir characterization of Utica-Point Pleasant shale with efforts at quantitative interpretation – a case study**

*Satinder Chopra, Ritesh Kumar Sharma, Hossein Nematy and James Keay*  
TGS

#### **Abstract**

Utica shale is one of the major source rocks in Ohio and extends across much of eastern US. Its organic richness, high content of calcite, and development of extensive organic porosity makes it a perfect unconventional play and has gained attention of oil and gas industry. The primary target zone in the Utica includes Utica, Point Pleasant, and Trenton intervals. In the present study, we attempt to identify the sweet-spots within the Point-Pleasant interval using 3D seismic data, available well data, and other relevant data. This has been done by way of organic richness and brittleness estimation in the rock intervals. The brittleness has been derived using rock-physics parameters such as Young's modulus and Poisson's ratio. Deterministic simultaneous inversion along with neural network approach have been followed to compute rock-physics parameters and density using seismic data. The consistency of sweet spots

identified based on the seismic data with the available production data emphasize the integration of seismic data with all other relevant data.

We find that the Point Pleasant formation does not seem to follow the commonly followed variation in terms of low Poisson's ratio and high Young's modulus for brittle pockets. Instead, by restricting the values of Poisson's ratio and examining the variation of Young's modulus, we could determine the brittleness behavior within the Point Pleasant interval. Combining the brittleness behavior with the organic richness determined through the density content, we could pick sweet spots in the Point Pleasant interval which matches the production data.

Through this case study, we emphasize the integration of 3D surface seismic data with all other relevant data to accurately characterize the Point Pleasant formation.

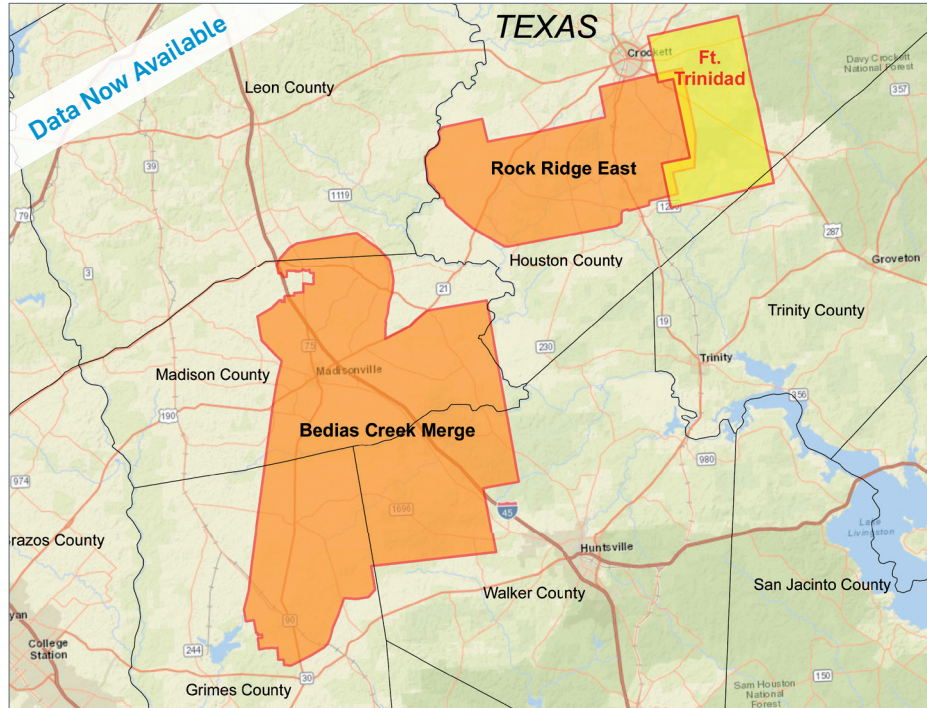
### **About Dr. Chopra**

Satinder Chopra has 34 years of experience as a geophysicist specializing in processing, reprocessing, special processing, and interactive interpretation of seismic data. He has rich experience in processing various types of data such as vertical seismic profiling, well-log data, seismic data, etc., as well as excellent communication skills, as evidenced by the many presentations and talks delivered and books, reports, and papers he has written. He has been the 2010–2011 CSEG Distinguished Lecturer, the 2011–2012 AAPG/SEG Distinguished Lecturer, and the 2014–2015 EAGE e-Distinguished Lecturer. He has published eight books and more than 400 papers and abstracts and likes to make presentations at any beckoning opportunity. His work and presentations have won several awards, the most notable ones being the EAGE Honorary Membership (2017), CSEG Honorary Membership (2014) and Meritorious Service (2005) Awards, 2014 APEGA Frank Spragins Award, the 2010 AAPG George Matson Award, and the 2013 AAPG Jules Braunstein Award, SEG Best Poster Awards (2007, 2014), CSEG Best Luncheon Talk Award (2007), and several others. His research interests focus on techniques that are aimed at the characterization of reservoirs. He is a member of SEG, CSEG, CSPG, EAGE, AAPG, and the Association of Professional Engineers and Geoscientists of Alberta (APEGA).



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

**YOU'VE ARRIVED**



CGG continues to expand its East Texas footprint with high-quality 3D projects while illuminating the stacked pay formations.

Data is already available from our Bedias Creek Merge and Rock Ridge East projects. Orthorhombic PSTM from our newest project Ft. Trinidad is also now available.

**The right data, in the right place, at the right time**

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Nueces Energy, Inc. is a complete land services company in the business of providing professional landmen and project management to various energy related jobs primarily in the oil and gas industry.

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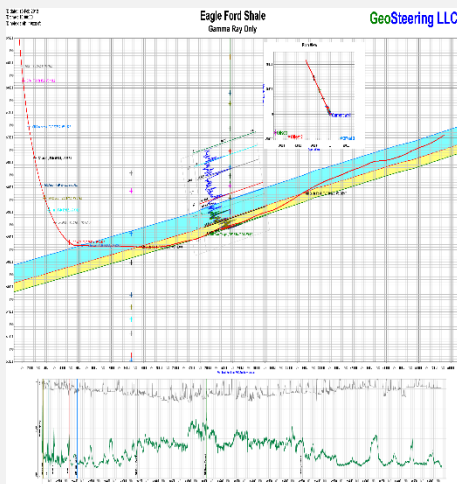
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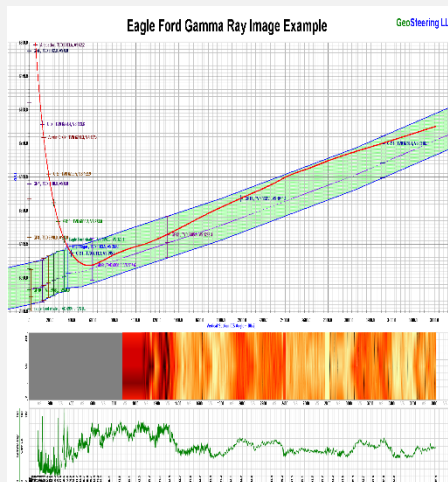
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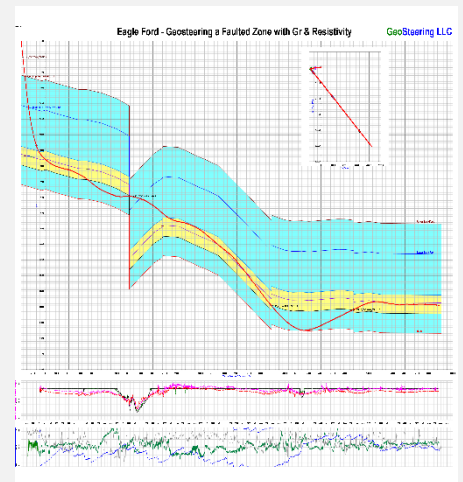
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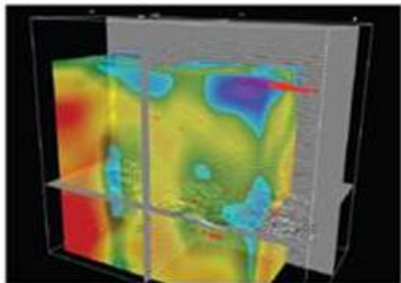
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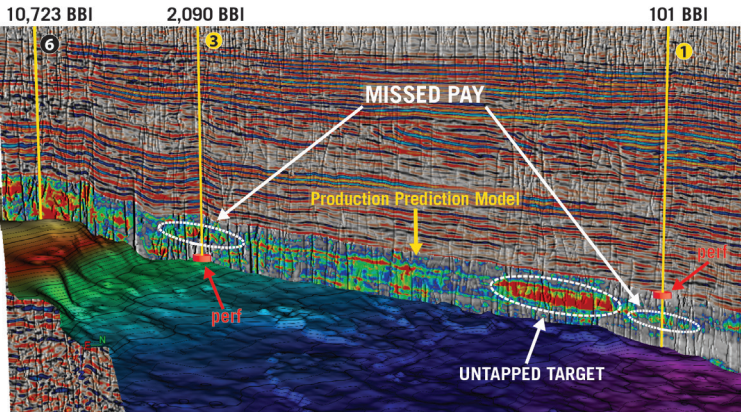


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Nine Mile Point  
Rockport, West  
St. Charles  
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Virginia

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Mosca  
Nomanna  
Orangedale(2)  
Ray-Wilcox  
San Domingo  
Tulsita Wilcox  
Strauch\_Wilcox

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Boedecker  
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Encintas  
ERF  
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Mills Bennett  
Pita

Tio Ayola  
Tres Encinos

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Petrox  
Seven Sisters  
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Bombs  
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Goliad, West  
St Armo  
Terrell Point

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Donna  
Edinburg, West  
Flores-Jeffress  
Foy  
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Mercedes  
Monte Christo, North  
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Tabasco  
Weslaco, North  
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Julian, North  
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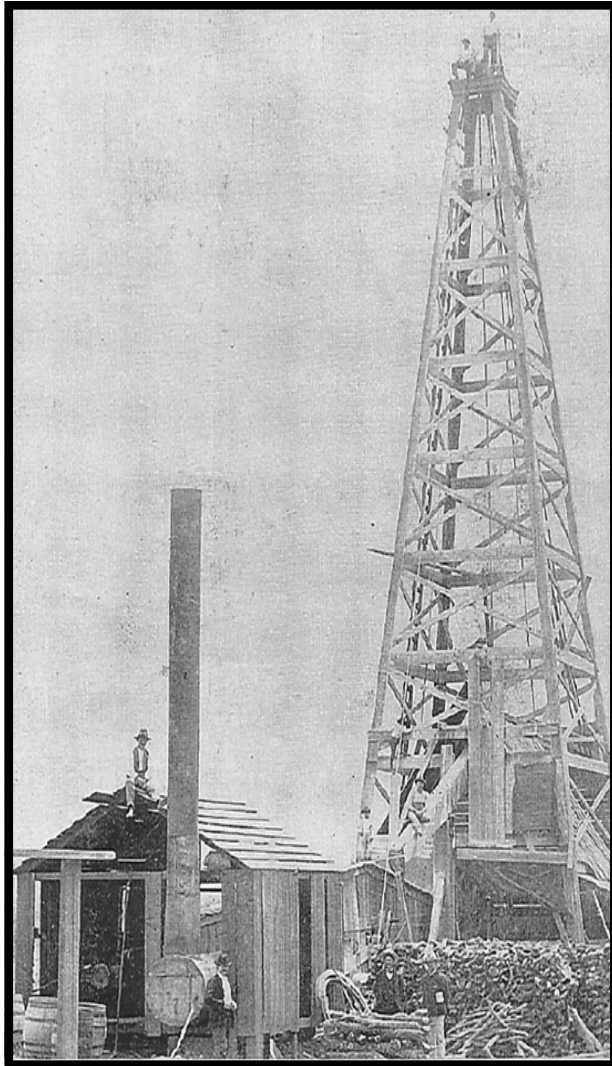
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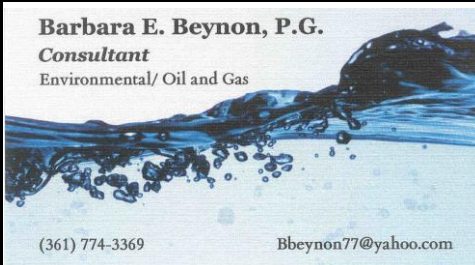
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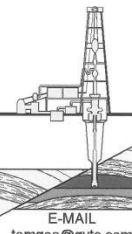
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