BULLETIN

Corpus Christi Geological Society



and

Coastal Bend Geophysical Society



January 2015 ISSN 0739 5620

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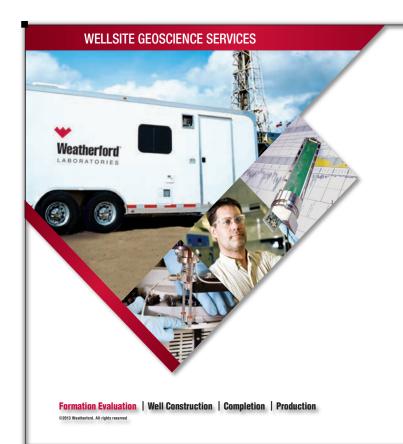
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U	F	F.	I(E,	K	<u>S</u>

President	Leighton Devine	361-510-8872	ldevine@suemaur.com
President Elect			
Vice President	Randy Bissell	361-885-0113	randyb@headington.com
Secretary	Allison Corcoran	361-882-8400	allison@aaoperating.com
Treasurer	Zachary Corcoran	361-658-5850	zcorcoran1982@gmail.com
Past President	Bob Critchlow	361-882-3046	bcritchlow@virtexoperating.com
Councilor I	Rick Paige	361-884-8824	rickp@suemaur.com
Councilor II	Mike Lucente	361-883-0923	mikel@lmpexploration.com
	O		•

AAPG DELEGATES

2006-14	Dennis Moore	361-886-5144	dennis.moore@bakerhughes.com

EDITORS

Bulletin Editor	Marian Wiedmanı	n 361-855-2542	wiedgulf@aol.com
Bulletin Tech.	Susan Stone	361-739-4759	stonesciences@yahoo.com
Editor			
Web Master	Chris Davis	361-537-1508	cdavis@spurfire.com

GEOLOGICAL SOCIETY COMMITTEES & CHAIRPERSONS

Advertising	Sara Miller	361-887-2691	sara_miller@eogresources.com
Business Cards	Christian Dohse	361-877-3431	christian.dohse@gmail.com
Arrangements	Allison Corcoran	361-888-8288	allison@aaoperating.com
Bloodmobile	Mike Lucente	361-883-0923	mikel@lmpexploration.com
Earth Day	Alan Costello	361-888-4792	acostello@royalcctx.com
Continuing Ed.	Stephen Thomas	361-888-8880	sthomas@virtexoperating.com
Education &	Dawn Bissell	361-960-2151	bissells@swbell.net
Scholarship			
Fishing	Leighton Devine	361-882-8400	ldevine@suemaur.com
Tournament			
History	Ray Govett	361-855-0134	ray30@hotmail.com
Membership	Dorothy Jordan	361-885-0110	dorothyj@headington.com

Type Logs
University
Liaison

Randy Bissell Frank Cornish Zach Corcoran 361-885-0113 361-883-0923 361-902-2857 randyb@headington.com frank.cornish@gmail.com zcorcoran1982@gmail.com



COASTAL BEND GEOPHYSICAL SOCIETY P.O. BOX 2741 * C.C. TX. 78403 2014-2015

OFFICERS

President Vice President Secretary/ Treasurer

Lonnie Blake Bob Witherspoon 361-884-8824 Matt Hammer

361-883-2831 361-888-4792 lonnie_blake@eogresources.com

bobw@suemaur.com

mhammer@royalcctx.com

COMMITTEES AND CHAIRPERSONS

Dorothy Jordan	361-885-0110	dorothyj@headington.com
Randy Bissell	361-885-0113	randyb@headington.com
Fermin Munoz	361 960-1126	fmunoz04@hotmail.com
Ed Egger	361-947-8400	edegger69@gmail.com
Vicki Marlett	214-557-0815	vmarlett@geotrace.com
	Randy Bissell Fermin Munoz Ed Egger	Randy Bissell 361-885-0113 Fermin Munoz 361 960-1126 Ed Egger 361-947-8400

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BLOOD DRIVE

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ATTENTION!!!

When you give blood: They have us listed as <u>C.C. Geological</u> <u>Society</u>. Our number with them is $\underline{4254}$ & it would be helpful if you can give them that number also.

This message approved by Mike Lucente

CCGS/CBGS JOINT MEETING SCHEDULE 2014-2015

		Se	ptem	ber			October							November							
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	
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7	8	9	<u>10</u>	11	12	13	5	6	7	8	9	10	11	2	3	4	5	6	7	8	
14	15	16	17	18	19	20	12	13	14	<u>15</u>	16	17	18	9	10	11	12	13	14	15	
21	22	23	24	25	26	27	19	20	21	22	23	24	25	16	17	18	<u>19</u>	20	21	22	
28	29	30					26	27	28	29	30	31		23 30		25	26	27	28	29	

Sept. 10, 2014 5:30p.m.—8:30p.m. Kickoff BBQ Howard's BBQ & Catering 1002 Antelope Street Oct. 15—11:30a.m.—1:00p.m. Speaker: Ken Williams— Halliburton. "Barostratigraphy" Nov. 19—11:30a.m.—1:00p.m. Speaker: Tony Hauglum--Rivera Exploration. "Eagleford Update"

		D	ecem	ber			January								February							
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S		
			201	4						201	.5						2015					
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																	_0					
28	29	30	31				25	26	27	28	29	30	31									

Dec. 10—11:30a.m.--1:00p.m. Speaker: Woodson Godfrey— PaleoSource. "Distinguishing a Resource Play Jan. 21--11:30a.m.—1:00p.m. Speaker: Lei Zhang— Schlumberger. "Seismic Inversion to Reservoir Simulation" Feb. 18—11:30a.m.—1:00p.m. Speaker: Collegiate Month. "Presentation by TAMUCC, TAMUK and DelMar"

CCGS/CBGS JOINT MEETING SCHEDULE 2014-2015

			Marc	h						April							May			
S	M	T	W	Th	F	S	S	M	T	W		F	S	S	M		W	Th	F	S
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15	16	17	18	19	20	21	12	13	14	<u>15</u>	16	17	18	10	11	12	13	14	15	16
22	23	24	25	26	27	28	19	20	21	22	23	24	25	17	18	19	<u>20</u>	21	22	23
29	30	31					26	27	28	29	30			24	25	26	27	28	29	30
														31						

March 11—11:30a.m.—1:00p.m. April 15—11:30a.m.—1:00p.m. Speaker: Fred Hilterman "Seismic Attribute analysis for the Gulf of Mexico"

Speaker: Richard Adams—Carr Resources. The Lower Woodbine Organic Shale of Burlenson and Brazos Counties, Texas: Anatomy of a New "Old" Play

Distinguished Speaker--Mark Papa

Calendar of Meetings and Events Calendar of Area Monthly Meetings

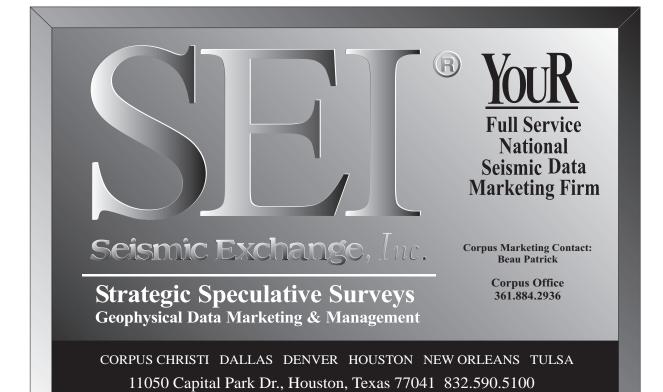
Corpus Christi Geological/Geophysical Society	
SIPES Corpus Christi Luncheons	
South Texas Geological Society Luncheons	
San Antonio Geophysical Society Meetings	
Austin Geological Society	First Monday
Austin Chapter of SIPES	First Thursday
Houston Geological Society Luncheons	Last Wednesday
Central Texas Section of Society of Mining, Metallurgy & Exp	2 nd Tues every other month
	In San Antonio

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CCGS PRESEIDENT'S LETTER

Happy New Year from the CCGS! I trust everyone had a wonderful Christmas and is looking forward to 2015. We have a great schedule of events in 2015. This month on January 21st we will have Lei Zhang with Schlumberger down to give us a talk on "Seismic Inversion to Reservoir Simulation". Upcoming events are highlighted by "Collegiate Month" in February, former EOG Resources CEO Mark Papa in May, and the 6th Annual CCGS Fishing Tournament sometime in Late July. Once again I must thank all of our volunteers and sponsors that make all this possible.

As I write this letter it is 75 degrees down here in beautiful Corpus Christi, and oil is below \$60 a barrel. I love the warm weather, but a visit from Old Man Winter would be a welcome site. As for oil prices, I am still unsure what to expect. I believe we are near the bottom, but a look at the chart over the last week shows that prices are still in freefall. A quick glance at the worldwide oil consumption chart reassures me that whenever it turns we should see a nice rebound. But at what cost?

It will be interesting walking around the convention floor at NAPE next month. Fortunately, I have attended every winter NAPE over the last 14 years. Good times and bad. The energy in that room is tremendous. I find it amazing how you can get a feel for the upcoming year in just a day and a half. What will it be this year? I will walk in this year with a sense of guarded optimism.

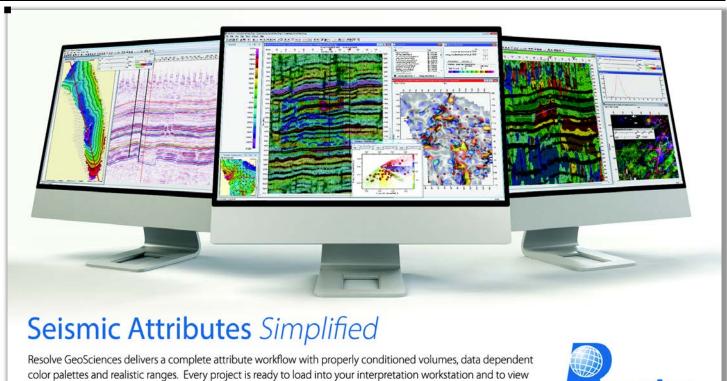
Join us around 5:30pmTuesday January 20th for Pint Nite at the Surf Club. Pete Graham with Schlumberger has agreed to sponsor, so come out join us for happy hour. We are constantly looking for good technical content for our bulletin. Please contact me if you have come across a paper you would like to share with the membership. The CCGS is *your* society.

Leighton L. Devine

CCGS President

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Seismic Attributes

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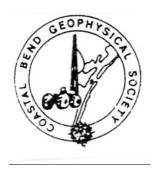
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CBGS PRESIDENT'S LETTER

News - Oil prices were headed down as I write this. Several seismic companies are moth balling seismic vessels/crews.

Business - none

Education -

SEG - New virtual course on Seismic Modeling, migration and velocity analysis

SEG - New virtual course: Geostatistics for Seismic

SEG - 23 Feb 2105: Rock Physics: Seismic Reflections of Rock

Properties, Dr Jack Dvorkin

<u>Parting Thought</u> - The large print giveth, but the small print taketh away. Tom Waits, *Small Change*

Monthly O&G Statistics

Seismic Crews - US Onshore	Current Month	Last Month	Difference	(Per SEG/Seismic Crew Reports Survey)	
	Onshore/Offshore	Onshore/Offshore			
	44/21	41/18	+6		
	Current Month	Last Month	Last Year - Monthly	(Per Texas RRC, last reported)	
Texas Productio	MMBO/BCF	MMBO/BCF	MMBO/BCF		
Oil	75.7	76.1	67	Aug	
Gas	668	676	704		
	Current Month	Yr to date - 2014	Yr to date - 2013	Oct	
Texas Drilling Permits	3,046	22,778	18,293		
Oil wells	885	6,709	5,827		
Gas wells	181	1,266	1,129		
Oil and Gas wells	1,829	3,849	10,618		
Other	34	176	162		
Total Completions	2,492	23,149	19,114		
Oil Completions	2,035	21,870	16,276		
Gas Completions	354	2,518	4,594		
New Field Discoveries	5	36	41		
Other	66	882	562		

Lonnie Blake—CBGS President

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Corpus Christi Geological Society & Coastal Bend Geophysical Society

LUNCHEON MEETING ANNOUNCEMENT

Wednesday, January 21, 2014

Location: Corpus Christi Town Club, 6th Floor (800 North Shoreline)

Bar Sponsor: TBA

Student Sponsor: Core Lab (Juan Cabasos) and the CCGS

Time: 11:30 a.m. Bar, Lunch follows at 11:45 a.m., Speaker at Noon.

Cost: \$25 (a \$3 surcharge if no reservation). No-shows will be billed.

Reservations: Please by Monday before – email allison@aaoperating.com

Luncheon Topic: A CASE STUDY: SEISMIC INVERSION TO RESERVOIR SIMULATION

Presented by Lei Zhang, Schlumberger

This presentation focuses on the reservoir modeling and simulation of Energy XXI's Gulf of Mexico Main Pass 61, Pod B Oil Field using integrated seismic elastic properties and discontinuity analysis to improve reservoir definition, lithology distribution, and to identify compartments and fluid flow pathways. The results provided key basis for improving the estimation of recoverable oil, field management decisions involving water injection and work-over completions, and the identification of un-swept potential for new drilling opportunities. The reservoir model integrated estimates of litho-fluid properties derived from pre-stack seismic inversion employing Bayesian classification methods. Reservoir boundaries and facies distributions were identified from shale and sand classification probabilities. Porosity distribution in the reservoir utilized acoustic impedance as a proxy. Seismic discontinuity analyses also provided a means to identify compartment boundaries, baffles and lithologic barriers to fluid flow. Together, the integration of these seismic properties improved the accuracy of the geologic model and provided better understanding of reservoir production mechanisms.

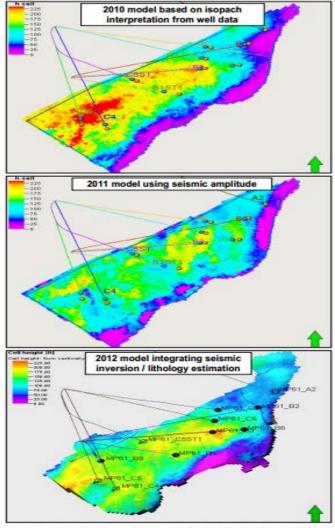
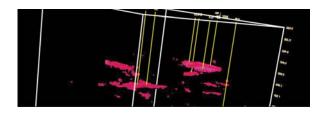


Figure 1: Comparison of net sand thickness from the 2010, 2011 and 2012 models. The upper model is obtained using contoured reservoir thicknesses from well data, the middle 2011 model utilizes seismic amplitude information (relative acoustic impedance) and the lower model integrates seismic inversion and the lithology prediction results.

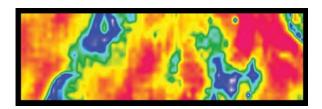
About our Speaker: Lei Zhang is senior reservoir geophysicist, seismic reservoir characterization team manager for (Geosolutions Schlumberger) based in Houston, Texas, with more than 20 years of worldwide onshore and offshore industry experience and 9 years in Schlumberger. His oil and gas expertise includes 2D, 3D seismic interpretation, reservoir characterization studies and structural/stratigraphic modeling; comprehensive geophysical and geologic data interpretation in a 3D visualization environment; AVO study, rock physics study, well logging analysis, post-stack & pre-stack simultaneous AVO inversion, 4D inversion, multiple component inversion, multiple azimuth AVO inversion and multiple seismic attribute analysis; ability to evaluate technical risks relating to trap, reservoir, charge and seal, and combine them with engineering data to develop a comprehensive business picture for decision making; international experience in both exploration and production; proficient in the industry G&G software application.





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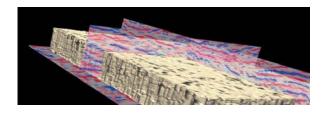
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The Corpus Christi Geological Society awarded \$9,000 in scholarships to 9 local students in November 2014.

TAMU-CC, and TAMU-K were both represented with scholarship recipients



Texas A&M Corpus Christi Students -- Sajjad Abdullajintakan, Nargiz Dadashova, Gracie Davila, Melinda Martinez, and Holly Thomas.



Students from Texas A&M Kingsville -- Sara Beers, John Dabney, Jonathan Tuck, and Daniella Herrera.

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 April 2015 for the Summer/Fall 2015 semesters.

Dawn S. Bissell Scholarship Committee Chairman

continued on page 19

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President/Geologist

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Notes from CCGS Scholarship recipients, November 2014

My name is Holly Thomas and I would like to personally thank the Corpus Christi Geological Society for awarding me a scholarship for the 2015 spring semester. Without your support my dreams and many opportunities would never be a reality. I am very thankful for the awarding of this scholarship, and I feel honored to have you and your members support behind me on my exciting journey through college. Thank you so much for the recognition of my hard work!

Holly attends Texas A&M University Corpus Christi majoring in Geology, with a minor in Communication. She is very active member in the TAMUCC Geology Club and part of the TAMUCC Sea Turtle Club. She helped the Geology department with Island Days and the Science Olympiad in the spring of 2014. She has been Supplemental Instructor for Dr. Anders. Holly regularly attends our CCGS luncheons, where she enjoys discussing and learning about important geological advances in the community.

From Daniella Herrera, Class of 2015, Geology Major at A&M Kingsville: I am sincerely honored to have been selected as the recipient of the CCGS Scholarship. Thank you for your generosity, which will allow me to keep pursuing my Masters Degree.

I am very thankful for all your help these past few years of my undergraduate career. Thank you for believing in me and all the other students you have rewarded.

Daniella will graduate with Honors from Texas A&M Kingsville in May 2015 with a B.S. in Geology and minor in Geography and Mathematics. She is a Presidential Scholar while being involved in multiple organizations. She has been a Teaching Assistant in several GIS and Remote Sensing classes. She is a GIS Technician for the city of Kingsville. She plans to attend graduate school after graduation from TAMUK.

continued on page 21

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James Bloomquist

Business Development Manager (713)357-4706 Ext 7008 (281)660-9695 (Cell) Jbloomquist@integrityseismic.com



All of our scholarship applicants are very accomplished and impressive young folks. It is an honor and privilege to be involved with the scholarship committee and get to know these students. A commitment to serve on the scholarship committee is for one to four years. There will be openings on the committee in the upcoming year. If you are interested in serving on the scholarship committee, talk to Leighton Devine, as members are appointed by the CCGS executive board. If you don't have time to serve on the committee, but still want to be involved, a donation to the scholarship fund is a wonderful way to help.

Corpus Christi Geological Society

2014 Year End Scholarship Contribution

As you consider year-end charitable giving, remember that gifts made before December 31 could generate income tax deductions that may help reduce your tax bill for 2014.

Please mail your donation to: Dawn Bissell, CCGS Scholarship Chairman 253 Circle Drive · Corpus Christi, Texas 78411

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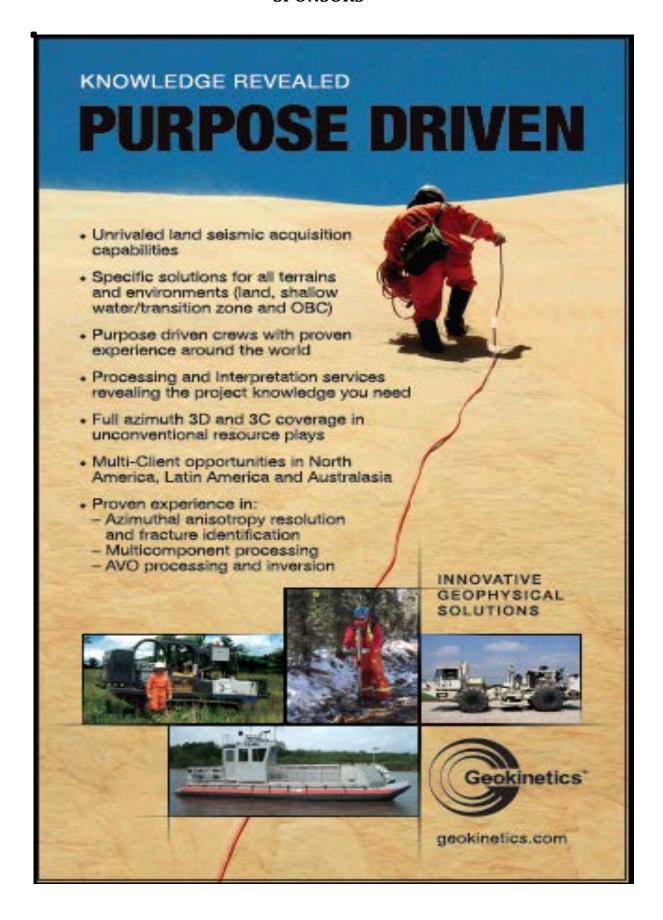
> Contact Walter S. Light Jr. President/Geologist 713.823.8288 EMAIL: wthunderx@aol.com

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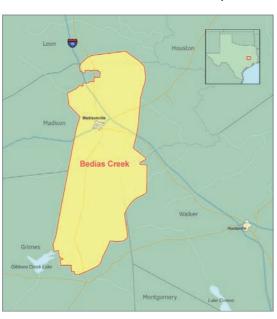


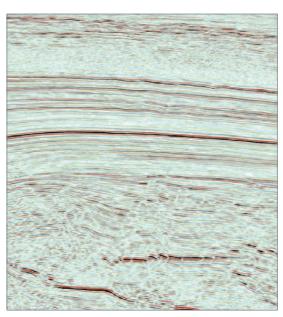




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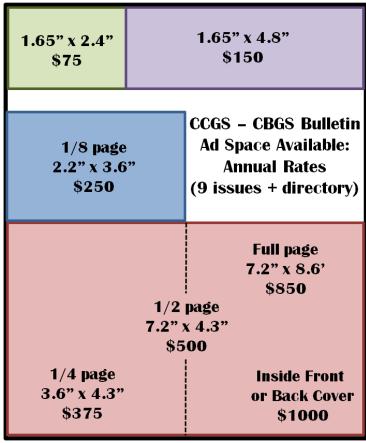


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USGS TAPESTRY OF TIME AND TERRAIN http://tapestry.usgs.gov The CCGS is donating to all of the 5th and 6th grade schools in the Coastal Bend. Check it out--it is a spectacular map. You might want to frame one for your own office. The one in my office has glass and a metal frame, and It cost \$400 and it does not look as good as the ones we are giving to the schools.

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http://www.geographynetwork.com/ Go here and try their top 5 map services. My favorite is 'USGS Elevation Date.' Zoom in on your favorite places and see great shaded relief images. One of my favorites is the Great Sand Dunes National Park in south central Colorado. Nice Dunes.

http://antwrp.gsfc.nasa.gov/apod/asropix.html Astronomy picture of the day--awesome. I click this page everyday.

http://www.spacimaging.com/gallery/ioweek/iow.htm Amazing satellite images. Check out the gallery.

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NEW (2009-2010)TYPE LO	Vista Del Mar		MCMULLEN COUNTY	Plymouth
Aransas Pass/McCampbell Deep	COLORADO COUNTY	StewartSwan Lake	Arnold-Weldon	Portilla (2)
Bartell Pass	E. Ramsey	Swan Lake, East	Brazil	Taft
Blackjack	Graceland N. Fault Blk	Texana, North	Devil's Waterhole	Taft, East
Burgentine Lake	Graceland S. Fault Blk	West Ranch	Hostetter	White Point, East
Copano Bay, South	DEWITT COUNTY	JIM HOGG COUNTY	Hostetter, North	STARR COUNTY
Estes Cove	Anna Barre	Chaparosa	NUECES COUNTY	El Tangue
Fulton Beach	Cook	Thompsonville,N.E.	Agua Dulce (3)	Garcia
Goose Island	*****Nordheim	JIM WELLS COUNTY	Arnold-David	Hinde
Half Moon Reef	Smith Creek	Freebom	Arnold-David, North	La Reforma, S.W.
Nine Mile Point	Warmsley	Hoelsher	Baldwin Deep	Lyda
Rockport, West	Yorktown, South	Palito Blanco	Calallen	Ricaby
St. Charles	DUVAL COUNTY	Wade City	Chapman Ranch	Rincon
ally Island	DCR-49	KARNES COUNTY	Corpus Christi, N.W.	Rincon, North
ract 831-G.O.M. (offshore)	Four Seasons	Burnell	Corpus Christi West C.C.	Ross
/irginia	Good Friday	Coy City	Encinal Channel	San Roman
BEE COUNTY	Hagist Ranch	Person	Flour Bluff/Flour Bluff, East	Sun
Daesar	Herbst	Runge	GOM St 9045(offshore)	Yturria
Mosca	Loma Novia	KENEDY COUNTY	Indian Point	VICTORIA COUNTY
Vomanna	Petrox	Candelaria	Mustang Island	Helen Gohike, S.W.
Orangedale(2)	Seven Sisters	Julian	Mustang Island, West	Keeran, North
Ray-Wilcox	Seventy Six, South	Julian, North	Mustang Island St.	Marcado Creek
San Domingo	Starr Bright, West	Laguna Madre	889S(offshore)	McFaddin
ulsita Wilcox	GOLIAD COUNTY	Rita	Nueces Bay/Nueces Bay	Meyersville
Strauch_Wilcox	Berclair	Stillman	West	Placedo
BROOKS COUNTY	North Blanconia	KLEBERG COUNTY	Perro Rojo	WEBB COUNTY
Ann Mag	Bombs	Alazan	Pita Island	Aquilares/Glen Martin
Boedecker	Boyce	Alazan, North	Ramada	Big Cowboy
Cage Ranch	Cabeza Creek, South	Big Caesar	Redfish Bay	Bruni, S.E.
Encintas	Goliad, West	Borregos	Riverside	Cabezon
ERF	St Armo	Chevron (offshore)	Riverside, South	Carr Lobo
Gyp Hill	Terrell Point	Laguna Larga	Saxet	Davis
Gyp Hill West	HIDALGO COUNTY	Seeligson	Shield	Hirsch
oma Blanca	Alamo/Donna	Sprint (offshore)	Stedman Island	Juanita
Mariposa	Donna	LA SALLE COUNTY	Turkey Creek	Las Tiendas
Mills Bennett	Edinburg, West	***Pearsall	REFUGIO COUNTY	Nicholson
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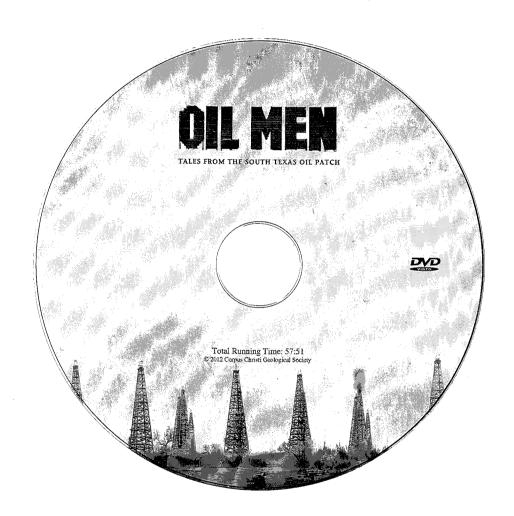
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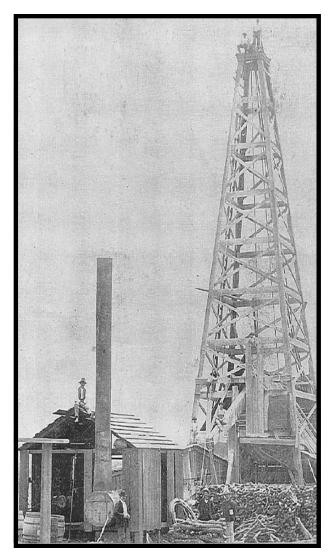
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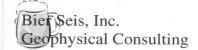
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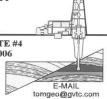
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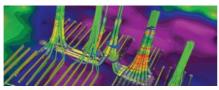




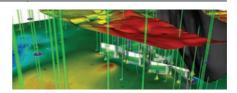
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