BULLETIN

Corpus Christi Geological Society



and

Coastal Bend Geophysical Society



January 2023 ISSN 0739 5620

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OFFICERS

President	Robert Schneider	361-593-3589	Robert.Schneider@tamuk.edu
Vice President	Juan Cabasos	361-289-5457	juan.cabasos@corelab.com
	Charles Benson	402-319-0064	charlesljr.@icloud.com
Secretary	Emily Olson	361-542-7434	emily@olsongeo.com
Treasurer	Sebastian Wiedmann	361-946-4430	swiedmann.geo@gmail.com
Past President	Rick Paige	361-884-8824	rpaigesio2@gmail.com
		Ext 415	
Councilor I	Frank Cornish	361-563-9184	frank.cornish@gmail.com
Councilor II	BJ Thompson	361-816-2326	william.thompson426@gmail.com

AAPG DELEGATE

EDITORS

Bulletin Editor	Marian Wiedmann	361-855-2542	wiedgulf@gmail.com
Bulletin Tech. Editor	Jeanie Timmermann	361-883-1492	jeanie@industrialcorrosion.net
Web Master	Josh Pollard	361-654-3100	support@interconnect.net

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MEMBERS PLEASE NOTE COMMITTEES CONTINUE TO FUNCTION WITHOUT A NAMED CHAIR, ALL ARE WELCOME TO ANY COMMITTEE THAT SUITES YOUR INTERST

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Arrangements	Wes Gisler &	830-239-4651	arrangements@ccgeo.org
	Will Graham	361-885-0110	willg@headingtonenery.com
Continuing Education			
Education	Dawn Bissell	361-960-2151	bissells@swbell.net
Scholarship Program	Dawn Bissell	361-960-2151	bissells@swbell.net
Fishing Tournament	Leighton Devine	361-882-8400	Idevine@suemaur.com
History	OPEN (Ray Govett)	361-855-0134	ray30@hotmail.com
Membership	Dorothy Jordan	361-885-0110	dorothyj@headingtonenergy.com
	Randy Bissell	361-885-0113	randyb@headingtonenergy.com
University Liaison	Dr. Veronica Sanchez	361593-4925	veronica.sanchez@TAMU-K.edu



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OFFICERS

President Dr. Subbarao Yelisetti 361-593-4894 <u>subbarao.yelisetti@tamuk.edu</u>

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Golf Chairman Mark Wiley 361-902-2844-office Mark Wiley@eogresources.com

361-445-6712-mobile

Scholarship Chairman Matt Hammer 361-888-4792 <u>mhammer@royalcctx.com</u>

361-563-6137

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CCGS/CBGS JOINT MEETING SCHEDULE 2022-2023

		Sept	emb	er					Octo	ber						Nov	embe	er		
S	M	T	W	Th	F	S	S	M	T Y	W	Th	F	S	S	M	T	W	Th	F	S
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25	26	27	28	29	30		30	31						27	28	29	30			

2022-23 Membership Kickoff— Nueces Brewing Co. Downtown Thursday, Sept. 8, 2022 5:00p.m.-til 8:00p.m. Oct 19 meeting at Crawdaddy's Downtown. 11:00 Bar, 11:45 lunch, 12:00 speaker Presenter: Richard S. Bishop. "Orgins and Habitats of Super-Giant Fields." Nov. 16 meeting at Joe's Crab Shack Downtown. 11:00 Bar, 11:45 lunch, 12:00 Speaker Presenter: Mohamed Ahmed-Texas A&M Univ. Corpus Christi. "Vulnerability of Coastal Systems to Natural and Anthropogenic Interventions.

		Dec	emb	er					Jai	nuar	y					Fe	brua	ry		
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25	26	27	28	29	30	31	29	30	31					26	27	28				

Jan. 18 meeting at Joe's Crab Shack

Presenters: Bill Maxwell & Steve Emerson "A Follow-up, The Great Texas Freezeout."

Feb. 15 meeting at Joe's Crab Shack

Presenters: Steve Pattee Senior Vice Pres. At Lonquist & Co. LLC & LLC Lonquist Sequestration, LLC. Emily Olson Senior Geologist at Lonquist & Co. LLC. "CO2 Storage"

CCGS/CBGS Joint Meeting Schedule 2022-2023

]	March						A	April						ľ	May			
S	M	T	W	Th	F	S	S	M	T	Ŵ	Th	F	S	S	M	T	W	Th	F	S
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							23	24	25	26	27	28	29							
26	27	28	29	30	31		30							28	29	30	31			

April 19 meeting at Joe's Crab Shack Presenter: John Rotzien, "Deep Water Sedimentation." Presentation of Scholarships

Calendar Of Meetings and Events

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
Houston Geological Society Luncheons	Last Wednesday
Central Texas Section of Society of Mining, Metalllurgy & Exp	2 nd Tues every other month in
	San Antonio



President's Letter

And a new year begins...

First of all, let me wish you a Happy New Year! I hope that your holidays were refreshing and peaceful – now back to the nitty gritty!

Unfortunately, it also seems that we are now in a winter where we deal with COVID, influenza, and RSV infections. Not to mention the common cold, something I've had for the last two weeks. Here's hoping that everyone navigates their way through the winter as healthy as possible. Our December lunch was very successful and well attended. Thirty-four people, including eighteen students, came to hear Dr. Mohamed Ahmed of TAMU-CC talk. This was easily the most people at a lunch since pre-COVID days!

Also, we had our first Christmas "event" at the Lazy Beach brewery on the south side of town on December 8. Fifteen people came, including four from TAMU-CC. This was just a time for people to get together to socialize, and by all accounts a good time was had. Perhaps we have started a new Christmas tradition!

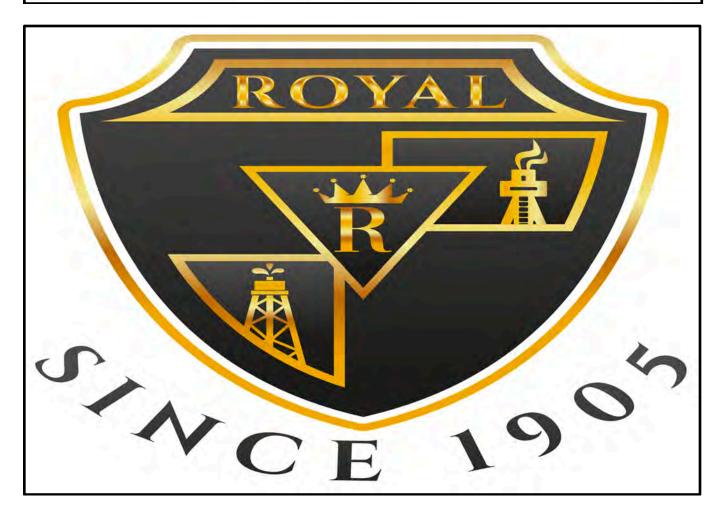
Please remember that we will kick off our technical lunch special again right after the New Year. Mark your calendars for January 18, when Bill Maxwell and Steve Emerson will discuss "The Great Texas Freeze-Out." Note that we will continue our new venue for the lunch. Please join us at Joe's Crab Shack, 444 N. Shoreline. Looking ahead, Emily Olsen will talk in February about CO₂ storage.

Also, the headquarters and storage facility for the society has been moved. It is now in the Wilson building downtown. If you need to get something from there, please contact Sebastian Wiedmann.

As I write this, the holidays are upon us. On behalf of the board members, we wish everyone a peaceful and refreshing time. May 2023 bring us success, both personally and professionally. Until we meet again, be safe. See you on the other side!

Robert Schneider—CCGS President





CBGS President's Letter

CBGS Board 2022-2023

President- Dr. Subbarao Yelisetti Vice President- Dr. Mohammed Ahmed Secretary/ Treasurer-Charles Benson

CBGS Scholarships

The Coastal Bend Geophysical Society (CBGS) has donated \$10,000 to the Department of Physics and Geosciences, Texas A&M University-Kingsville in support of the multidisciplinary Petrophysics Graduate Program that has been requested. These funds will be used as scholarships in attracting quality graduate students.

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. We will be awarding the scholarships again this year.

Scholarship Requirements

Criteria for awarding the Scholarship from Coastal Bend Geophysical Society of Corpus Christi, Texas:

- 1. Scholarships are open to undergraduate or graduate students.
- 2. Must have declared major in Geophysics, or Geology with a concentration in Geophysics or Petrophysics.
- 3. Preference is given to students attending Coastal Bend schools (TAMU-K, TAMU-CC and Del Mar College), then to Coastal Bend natives attending other universities.
- 4. Must have a GPA of at least 3.0 and 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 Baker Hughes Co, the oil and gas rig count is 780 in the week of December 9, 2022.
- As of December 9, the U.S. crude futures were trading at ~\$71 a barrel after topping \$130 in March, as reported by Scott DiSavino on reuters.com.
- According to the U.S. Energy Information Administration (EIA) forecasts, U.S. crude output is expected to increase from 11.25 million bpd in 2021 to 11.87 million bpd in 2022 and 12.34 million bpd in 2023.

CBGS Business

CBGS currently has 43 active members, 4 honorary members, and 40 student members. Raised \$1,450 towards student scholarships through membership revenue this past year.

CBGS workshops/talks

CBGS hosted two luncheon meetings in February and April, 2022 featuring international speakers, Dr. Rajesh Vayavur, Canada and Dr. Snons Cheong, South Korea, respectively.

CBGS also hosted the luncheon meeting in November, 2022 featuring speaker, Dr. Mohammed Ahmed. The title of this talk was "Vulnerability of coastal systems to natural and anthropogenic interventions".

CBGS is looking forward to offer workshops/talks in the future. Topic/speaker suggestions are welcome. Email your suggestions to Subbarao.Yelisetti@tamuk.edu

New Degree Tracks at TAMUK and Graduate Scholarships

- 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 2023, please contact the graduate coordinator for MS in Petrophysics, Dr. Subbarao Yelisetti at Subbarao.Yelisetti@tamuk.edu.
- The Department of Physics and Geosciences at TAMUK is offering competitive scholarships for MS Petrophysics students. For additional details about the program and scholarships, please visit the website:
 - https://www.tamuk.edu/artsci/departments/phge/phys/academics/gp.html
- BS degree in Geophysics, Minor in Geophysics and Certification in Geophysics offered at Texas A&M University-Kingsville since Fall 2017. Interested students can contact Dr. Subbarao Yelisetti (Subbarao.Yelisetti@tamuk.edu) for additional information.

Education/Events

-<u>SEG</u>

SEG 2023 annual meeting will be held in Houston, TX from August 27 – September 1. See https://seg.org/Events/Upcoming-SEG-Annual-Meetings 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

2022 Fall AGU annual meeting will be held in Chicago, IL from December 12-16th, 2022. https://www.agu.org/Fall-Meeting

Monthly Saying

"New discoveries and production of resources like shale oil and gas are dramatically altering our energy supply outlook and the entire global geopolitical landscape. And the pace of change - particularly in the past few years - continues to accelerate."- Fred Upton

Monthly Summary

Texas Oil and Gas Info	Current Month	Last Month	Difference	
Texas Production	MMBO/BCF	MMBO/BCF	MMBO/BCF	
Oil	142.8	145.7	-2.9	August
Condensate	21.9	23.0	-1.1	August
Gas	930.2	951.2	-21	August
	Current Month	Yr to date - 2022	Yr to date - 2021	
Texas Drilling Permits	678	10218	8728	November
Oil wells	161	2291	2026	November
Gas wells	70	1006	753	November
Oil and Gas wells	419	6436	5556	November
Other	5	87	82	November
Total Completions	1589	16571	13729	November
Oil Completions	1279	13278	10485	November
Gas Completions	310	3293	3244	November
New Field Discoveries	1	14	27	November
Other	577	7285	6198	November

Subbarao Yelisetti President, CBGS



CORPUS CHRISTI GEOLOGICAL SOCIETY COASTAL BEND GEOPHYSICAL SOCIETY



ANNOUNCEMENT

January 18th, 2023

Location: Joe's Crab Shack, 444 N. Shoreline Blvd.

(downtown)

Student Sponsor: Viper Exploration, Panex Operating LLC, Imagine

Resources. Thank you!

Time: 11:30 AM Bar, Lunch follows at 11:45 AM,

Speaker at 12:00 PM

Cost: \$35.00 (additional \$10.00 surcharge without

reservation: NO SHOW may be billed.)

Reservations: Please RSVP by 11:00 AM on Monday, January

16th before the meeting!

Email: arrangements@ccgeo.org

Please note that luncheon RSVPs are a commitment to Joe's Crab Shack Downtown and must be paid even if you can't attend the luncheon.

SPONSORSHIP OPPORTUNITIES ARE AVAILABLE! IF YOU WOULD LIKE TO SPONSOR, PLEASE CONTACT US AT:

arrangements@ccgeo.org

The Great Texas Freeze of 2021

Steven D. Emerson, PhD, PE*
Emerson Technical Analysis, LLC
and
Robert W. Maxwell, MSc
Corpus Christi, TX

*Presenter E-mail: Steven.Emerson@EmersonAnalysis.com

Abstract

Early in the morning of Monday, February 15, 2021, lights went out for millions of Texans. Without electricity, furnaces ceased while temperatures plunged to new lows and winds made the cold even more threatening. People were to die of hypothermia. Industry suffered at the same time. Refineries and chemical plants across the state were immediately forced into hazardous emergency shutdowns. Insured losses are predicted to exceed \$18 billion. Historically, Texas has relied on ERCOT (Electrical Reliability Council of Texas) to power almost the entire state, with market-driven incentives for thermal power stations fuelled with coal, natural gas and nuclear fission, and for subsidized windmills and solar photovoltaics. ERCOT has minimal ties to out-of-state grids, evidently to stay outside federal FERC regulation. Generally, the isolated electrical grid worked well, with base loads coming from the nuclear, coal and natural gas combined cycle plants, along with prioritized input from highly-variable wind and solar operations. Lastly, natural gas-fired peaking plants flexibly made-up shortfalls. It worked well, that is until it didn't. During the great freeze, one by one, electricity generators dropped off leading to grid frequency destabilization, and for a brief period the grid came dangerously close to 100% failure across Texas. This paper will examine the structures of the Texas electrical supply, both managerial oversight and physical plant. It will offer insight into the complicated causes of the catastrophic failure, and it will provide guidance on future risk to the Texas chemical and fuels industries due to unexpected power loss.

Keywords: Case histories, reliability, risk from power loss, emergency shutdown, ERCOT, electrical grid.

Biography's

Steven D. Emerson, PhD, PE President, Emerson Technical Analysis, LLC

- Specialist in safe management of hazardous explosive, energetic, and flammable materials
- American Institute of Chemical Engineers (AIChE) member (especially the Global Congress on Process Safety)
- Texas A&M University Mary Kay O'Connor Process Safety Center (Technical Advisory Committee Member since 2000)
- AIChE Fellow

Robert W. (Bill) Maxwell, MS Chairman, Suemaur Exploration & Production LLC (Retired)

- Florida State University Leadership Council (College of Arts and Sciences)
- Florida State University Adjunct Professor (Dept of Geology and Geosciences)
 - Instructs graduate students in Energy and the Environment



CORPUS CHRISTI GEOLOGICAL SOCIETY COASTAL BEND GEOPHYSICAL SOCIETY



ANNOUNCEMENT

February 15th, 2023

Location: Joe's Crab Shack, 444 North Shoreline Dr.,

Corpus Christi, TX 78401

Student Sponsor: Viper Exploration, Panex Operating LLC, Imagine

Resources. Thank you!

Time: 11:30 AM Bar, Lunch follows at 11:45 AM,

Speaker at 12:00 PM

Cost: \$35.00 (additional \$10.00 surcharge without

reservation: NO SHOW may be billed.)

Reservations: Please RSVP by 11:00 AM on Monday, February

13th before the meeting!

Email: arrangements@ccgeo.org

Please note that luncheon RSVPs are a commitment to Joe's Crab Shack (Shoreline Drive) and must be paid even if you can't attend the luncheon.

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CCGS LUNCHEON PRESENTATION – Wednesday, January 15, 2023

CO2 Storage

Steve Pattee
Senior Vice President at Lonquist & Co. LLC & LLC Lonquist Sequestration, LLC
Emily Olson
Senior Geologist at Lonquist & Co., LLC





ABSTRACT

For decades, injection and disposal wells have utilized highly porous and permeable Gulf Coast Miocene sands as reservoirs. The implementation of CCUS policies has challenged conventional injection methods by nature of the buoyant CO2 fluid properties. Sands with high vertical permeability defy conventional gas plume control and have forced the injection industry to consider these as unconventional reservoirs. Much like unconventional resource plays changed the landscape of American oil and gas operating, the utilization of high Kv/kh Gulf Coast sands will force operators to explore the development of new well designs and operating strategies in CO2 storage.

Biographies

Steve Pattee is Senior Vice President at Lonquist & Co. LLC and Lonquist Sequestration, LLC, overseeing the company's regulatory efforts and carbon sequestration projects. He has more than 25 years of experience in mining, construction and petroleum and underground storage engineering. Steve graduated from Pennsylvania State University in Mining Engineering in 1995 and received his Masters of Petroleum Engineering from Texas A&M University in 2013. He is a registered Professional Geoscientist in the state of Louisiana.

Emily Olson is a Senior Geologist at Lonquist & Co. LLC. She has over 10 years of experience in petroleum exploration, production and underground storage. Though her work has spanned projects both domestic and international, she has spent the majority of her career focused on the northern Gulf of Mexico basin. Emily earned a Bachelors of Science degree in Geology and a Masters of Science in Geology from Texas A&M University in 2009 and 2019, respectively. She is a registered Professional Geoscientist in Texas and Wyoming and a proud board member of the Corpus Christi Geological Society.

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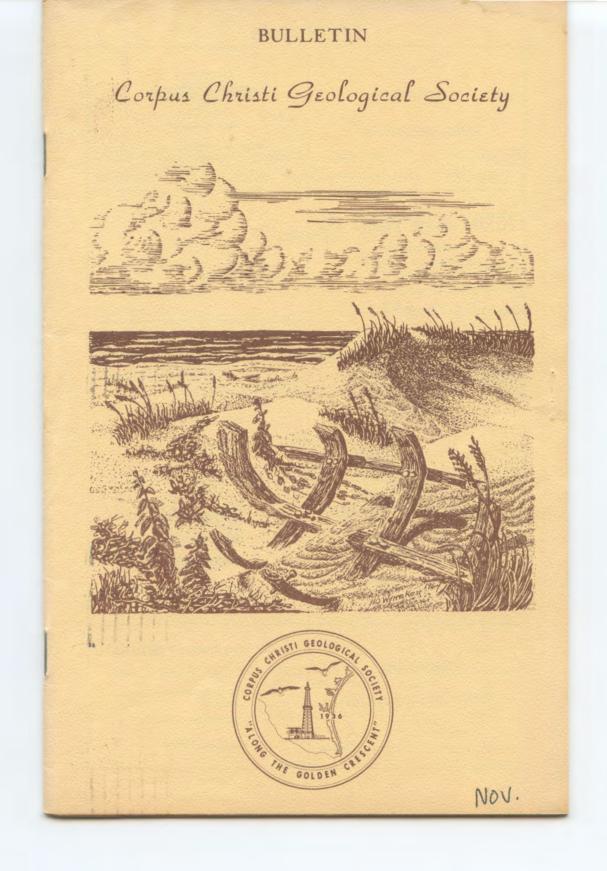
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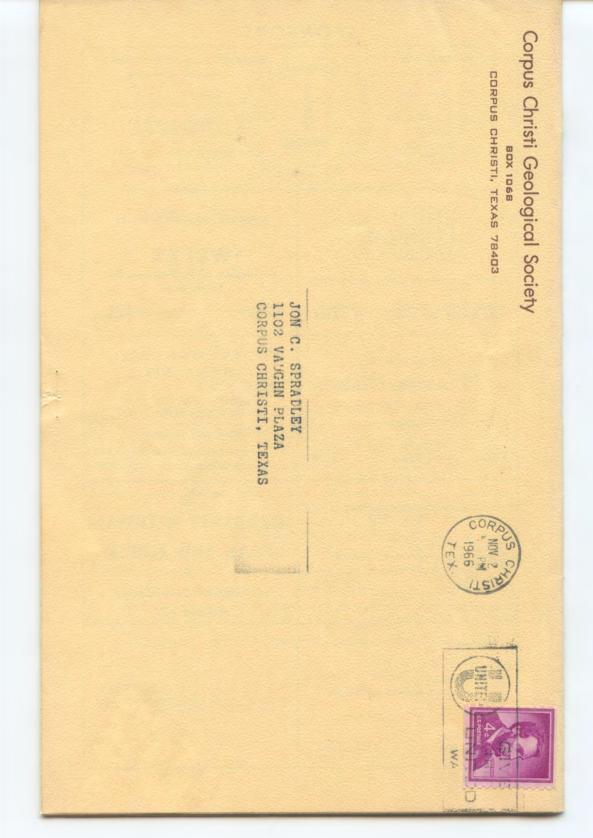
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BULLETIN

CORPUS CHRISTI GEOLOGICAL SOCIETY VOLUME VII CORPUS CHRISTI, TEXAS NOVEMBER, 1966 NUMBER 3

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THE BULLETIN OF THE CORPUS CHRISTI GEOLOGICAL SOCIETY
P. O. Box 1068 -:- Corpus Christi, Texas

Published Monthly, September to June by Caroline Duffield

MONDAY NOON MEETING

November 7, 1966 Driscoll Hotel

Speaker:

J. DON HAYNES

Geologist, Haynes & V. T. Drilling Co. Corpus Christi, Texas

THE BIG CAESAR FIELD, KLEBERG AND NUECES COUNTIES, TEXAS

ABSTRACT

The Big Caesar Field and Big Caesar Complex in Southwestern Nueces and Northeastern Kleberg Counties, is one of the most significant discoveries in the Frio Trend in recent years. The Big Caesar Field proper has produced in excess of 1 million barrels of oil from the Upper Pflueger Sand since its discovery in October, 1963.

The primary trapping element in the area is stratigraphic (strand-lines, bar, and lenses) complicated by faulting. These factors tend to make the area unusually difficult to interpret geologically. Since the area is still undergoing development, any interpretation shown is subject to change.

In addition to the usual presentation of a field, an effort will be made to trace the history of development of the area. This will include certain prejudices that hampered development and the reasons for them. Also the geologic thinking that led to the drilling of certain wells. Some time will be devoted to the gas cap controversy between Haynes & V. T. and Humble.



BIOGRAPHY

Mr. Haynes' early life was spent in the various oil centers of the country. Born in Mansfield, Louisiana in the shadow of a drilling rig, he attended grammar schools in Mississippi, Louisiana, Illinois, Kilgore, Texas, and Tulsa, Oklahoma. He attended high school in Odessa, Texas, where his family established Haynes & V. T. Drilling Company. He attended the University of Texas and received a B.S. degree in Geology. Graduate work was done at Texas Tech.

He worked for Lion Oil Company (Monsanto) as a geologist in Albuquerque, New Mexico, Wichita Falls, Texas and Midland, Texas from 1957 to 1961. In 1961, he accepted a retainer from Haynes & V. T. Drilling Company and moved to Alice, Texas. In 1963, he moved to Corpus Christi as a geologist for Haynes & V. T. Drilling Company.

Mr. Haynes efforts resulted in discoveries for Haynes & V. T. Drilling Company in the West Bishop Field, Southwest Bishop Field, and Big Caesar Field in the Bishop-Stratton area of the Frio Trend. The personal supervision of the drilling wells qualifies him to speak on the Big Caesar Field and the development of the Bishop area.

MONDAY NOON MEETING

November 28, 1966

Driscoll Hotel

Joint Meeting With Corpus Christi Geophysical Society

Speaker:

CURTIS MASON

National Aeronautics and Space Administration, Houston, Texas

LUNAR SURFACE TOPOGRAPHY

Mr. Mason will give an informal talk on lunar surface topography and strength as determined from the latest surveyor data. He will also show some slides and a short 16mm film.

BIOGRAPHY

Curtis C. Mason, Lunar Geologist (AST) in the Geophysics Section, works in the area of lunar soil mechanics and mission simulations. He was born in Enid, Oklahoma in 1928. After graduating from University of Texas with a Bachelor of Science degree and a Master of Arts degree in 1957, he worked with the U. S. Department of Geological Survey for six years in Texas on ground water studies.

Mr. Mason joined the National Aeronautics and Space Administration at the Manned Spacecraft Center in 1962.

He is a member of the Geological Society of America.

THE FUTURE OF WILCOX EXPLORATION

By Roy Jindra, Geologist, Harkins & Co., Alice, Texas

Exploration programs have been revised in all major South Texas trends with current emphasis on off-shore drilling and deeper drilling on flanks of old established fields in the Frio-Vicksburg Trend.

With some few exceptions, another important producing trend has been sadly neglected. This article is written to call attention to the Wilcox Trend of South Texas and its future development.

Numerous technical reports have been written on both specific areas and general Wilcox Trends. The Texas Petroleum Research Committee, Bulletin 44, published in April, 1955 was devoted entirely to the Wilcox Trend. Another technical paper would serve no particular purpose. Therefore, this report will generally point out what has and what can be done in the subject area.

GEOLOGICAL HISTORY:

Generally speaking, the Wilcox has been broken into upper, middle, and lower Wilcox. The sands are characteristically shallow marine and continental facies. Deposition took place on flood plains and in near shore waters, lakes, swamps and embayments. Shifting stream beds eroded and redeposited sands resulting in erratic on-strike deposition. Off shore bars were created and, in general, environmental conditions approximate our present Gulf Coast.

Retreating seas prevailed in early Wilcox time, fluctuating seas with coastal subsidence occurred in middle Wilcox time and late Wilcox was characterized by encroaching seas. All of these conditions are conducive to sand deposition.

DRILLING HISTORY:

In discussion of the Wilcox Trend, we must recognize that we are dealing with a new baby. Although Wilcox production was established in 1928, few fields were discovered before 1940 and really active interest didn't come until 1947.

Most Wilcox Fields are gas or gas/condensate producers. Marketing facilities were virtually non-existent until 1947 and not until the middle 1950's did adequate pipelines cover most of the trend. With the advent of the pipelines a rather extensive drilling program started, resulting in over 200 fields extending in a narrow arcuate band from Mexico northeasterly across the whole South Texas area.

Most drilling penetrated those zones of the Wilcox known as Slick, Luling, Mackhank and Massive. Unless production was established in one or more of these zones, drilling ceased. To date, very few of the old Wilcox Fields have been explored throughout the entire Wilcox section.

In any discussion among geologists as to deeper possibilities within the Wilcox, pessimism has been the rule rather than the exception. The general concensus of opinion has been that the sands at depth would be shaley, non-porous, non-permeable, non-commercial or non-existent. It is extremely disheartening to hear geologists automatically write off a whole province for production. Geologists must be optimists and imaginative to find production. Pessimism is a best trait reserved for engineers and economists.

In the past few years, far-sighted geologists with Mobil, Argo Oil Co. and Lone Star extended their exploratory efforts to the Middle Wilcox section and discovered sizeable reserves in what is now known as the Roeder Series. Roeder, South Cook, and Cuero Fields were discovered in DeWitt County. The success of these ventures kicked off a new drilling program to explore for these zones. More recently Lone Star and Humble have drilled deeper in the old Emma Haynes Field area of Goliad County and Harkins & Co. has deepened old Wilcox wells in the West Mission Valley area of Goliad and Victoria Counties.

To the credit of the pessimists, these Middle Wilcox sands are more hazardous areas of exploration than the upper Wilcox Trend. The sands are more erratically developed and vary extremely in porosity and permeability. Drilling costs are increased by abnormally high pressure and temperature conditions.

There is a positive side, however. The high pressure increases the ultimate recovery per acre foot productivity and a greater yield of condensate per MMCFG may be expected. Fifty or more barrels of condensate per MMCFG is not unusual. Greater yields per well can compensate for the increased costs.

So far, the middle Wilcox drilling has been sporadic and confined to isolated areas. Sand development maps should be made on these wells on a regional basis. Until all these wells have been analyzed regionally, exploration efforts must necessarily be haphazard. Enough wells have been drilled to date to establish a fair idea of the trend. More intelligent exploration programs can be set up to delineate maximum sand development as well as structure.

LOWER WILCOX EXPLORATION:

Very few wells along the down-dip trend have been drilled through the entire Wilcox section.

In 1959, Shell Oil Co. drilled their No. 1 Mary Carroll well in the Brushy Creek Field of DeWitt County, Texas to a depth of 19,600'. The upper Wilcox was encountered at 7600' and Wilcox sands with porosity and permeability were found to 14,600'. 7000' of Wilcox section is, therefore, prospective in this area. (See log section across producing sand interval).

A current well of great interest is the Atlantic Richfield deep test on the Marrs McLean lease in the Northeast Thompsonville Area of Jim Hogg County. Sands are well developed and prospective 6500' below the top of the Wilcox.

With academically successful exploration efforts on both East and West edges of this area, it is logical to assume that other wells of this nature will be drilled in the near future.

DOWN-DIP WILCOX:

In Goliad County, Shell recently drilled their No. 1 Bego in the Maetze Field area. The well was unsuccessful but it did establish an idea that no limit has yet been established as to the down-dip limits for Wilcox exploration. More wells should be drilled in areas where upper Wilcox sands will be encountered at 10,000' or more.

CONCLUSIONS:

Because of the depositional nature of Wilcox sands, traps of every nature can be expected at virtually every horizon. Exploration should continue in the following areas:

- 1. Present trends of normal upper Wilcox.
- 2. Down-dip Wilcox beyond limits presently explored.
- 3. Middle Wilcox exploration in areas presently producing from upper Wilcox horizons.
- 4. Lower Wilcox to 15,000' and 16,000' and again in areas of previous successful operations.

SUGGESTED AREAS FOR DEEPER DRILLING:

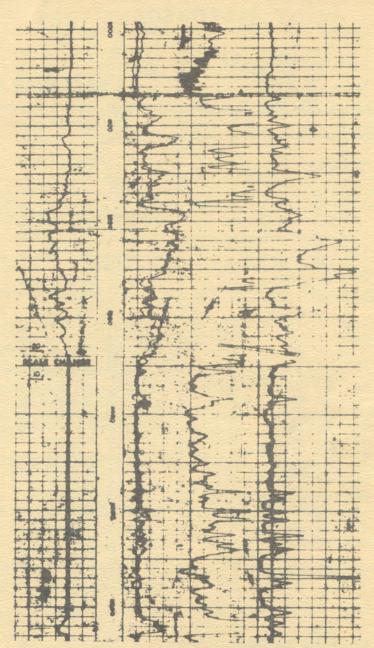
Duval County Piedre Lumbre Hagist Ranch

McMullen County Hostetter Rhode Ranch

Live Oak
Texam
Clay West
Chapa

Bee County Tuleta Normanna

Goliad County Cabeza Creek Hordes Creek Marshall



TYPE LOG Bushy Creek Field (deep) DeWitt-Lavaca Counties

Shell Oil Co. #1 W. M. Carroll TD 19,765 Pfs. 11,187-11,203 AOF 13,000 MCFGPD, SITP 7065# Gr. 44.4 GLR 62,500-1 Top CZO-WX 7597

7

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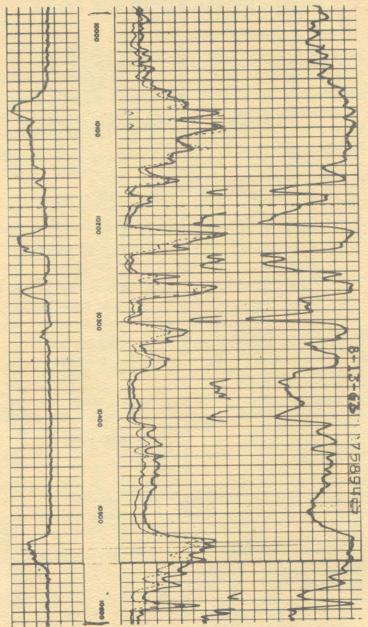
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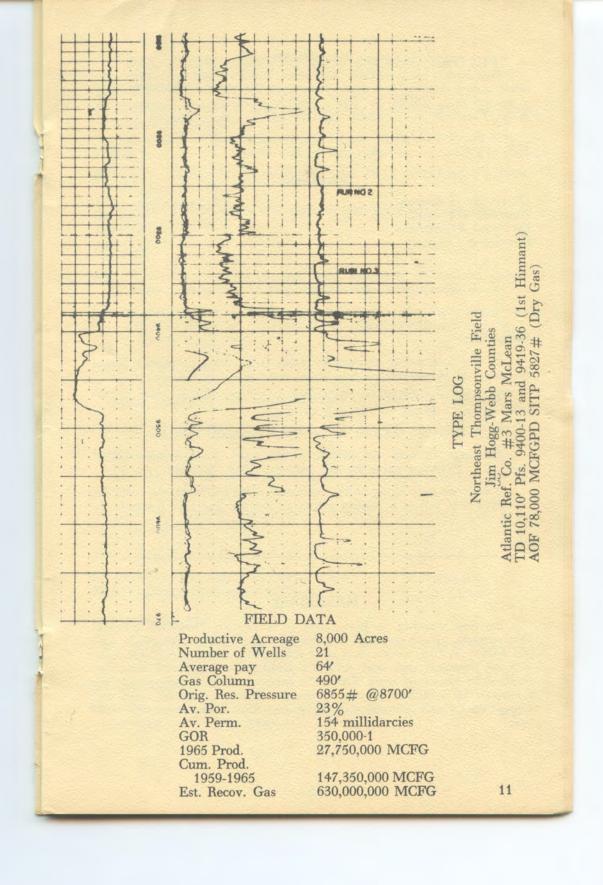
TU 4-6052



TYPE LOG
Orangedale Field
Bee County
Tidewater #1 Cox-Ayers

TD 12,279 Pfs. 10,211-10,216
AOF 3,940 MCFGPD SITP 5272#
Gr. 45.5 GLR 392,000-1 BHSIP 6561#
Top CZO-WX 9430

10.



ROY JINDRA

Roy Jindra has probably "sat" more Wilcox trend wells than any other person. Indeed, it is difficult to work the Wilcox without finding a nearby well drilled by Roy's employer, Harkins & Company of Alice, Texas, or one in which Harkins has a working interest.

If the Wilcox trend can be reactivated, it will be due to the efforts of competent geologists such as Roy Jindra.

BIOGRAPHY

University of Kansas B.S.	in Geology, 1948
Amerada Petroleum Corp	1948-1951
Kirkwood & Company	1041 1040
Harkins & Company	1956-Present
Tidi kilis & Company	

ERRATA:

In the fine article written by John Griesbach on "Selling Your Gas and Oil Properties", a few errors were made in transcription.

In Figure 1, Column 1, beginning with and including "2 mos.", the "months" should be changed to "years".

In Column 10, the first figure, \$26,804, should read \$25,804.

On page 13 near the middle of the page the sentence should read "average value 20 bbls./Ac. Ft.". Not "200 bbls./Ac. Ft.

John's article, along with the corrections listed above, will be reprinted this fall as a feature article in the Oil and Gas Journal.

HANDBALL

Anyone wanting to participate in a Novice Handball Singles Tournament, please contact Jim Morren at Southern Minerals, — TU 4-0311. A week or ten days after receipt of this bulletin, a schedule will be prepared that best suits all participants, who will then be notified by phone or mail. The main purpose of this tourney will be a chance for handball players to become better acquainted, and we hope that enough interest will be shown that future tourneys will result.

ACCRETION, EROSION AND RECENT DEPOSITS

SCHLUMBERGER

H. L. (Dutch) Dodd has been transferred to Corpus Christi from Alice effective November 1.

MOBIL

Married — Marvin Machovec and Barbara Davis on October 15, 1966, in Houston, Texas.

A daughter, Helen Marie, was born to Mr. and Mrs. Peter Boone on August 9, 1966.

TENNECO

Ken N. Durham, exploration geologist, has been transferred to the Corpus Christi District from the Overseas Department.

Marvin Rathke, a new employee, is assigned to the exploitation section as a geological engineer. He is a graduate of the University of Texas in El Paso.

UNION PRODUCING

Jim Champion, geophysicist, transferred to Corpus Christi from Shreveport, Louisiana.

Earl Melton, geologist, has resigned to go to work for Texas Eastern.

SUNRAY-DX

A baby boy, Christopher Lee was born to Mr. and Mrs. J. L. Burke on October 21, 1966.

Mr. and Mrs. Charles Plant have a new baby girl, Deborah Ann, born September 24, 1966.

SUN

Ed Matulich, transferred to Corpus Christi from San Antonio. Fred Goodwin, transferred to Corpus Christi from San Antonio.

CONTINENTAL OIL

Dan Johnson, geologist, was transferred to Corpus Christi from Ponca City, Oklahoma.

ATLANTIC REFINING

Gene Martin moved from New Orleans, Louisiana and is now Paleontologist in Corpus Christi.

IT'S TAX-TALK TIME IN TEXAS

Guest Article for the Corpus Christi Geological Society
By: Ronald W. Bridges
Member, Texas House of Representatives

Talking "taxes" in Texas is always a precarious political subject
— particularly for politicoes — but come January, 181 legislators
will have to ponder the problem.

Some legislators will simply vote on the issues, some will suffice the whole problem simply by saying (to the folks back home, at least!), "All we have to do is cut back state expenditures." Still others may balk at voting for any tax bill and for all spending, and a few will be so committed that they cannot reason beyond their campaigns, and fewer still of the more ebullient Representatives and Senators will try to come up with realistic answers to Texas' fiscal problems.

I speak from experience during the "tax sessions" of 1959 and 1961, my first couple of terms in the Legislature, when many of us did not want Texas to become one of the nation's states to have either a general sales tax or a state income tax. While admittedly I have never been labeled as a "conservative," I cannot forget those days of being a co-sponsor of the alternative tax bill and, as it ended up, voting against the vast spending bill. Nor, however, can I forget the antithesis of my position, those members of the Legislature who perhaps, popularly and politically, voted for the appropriation bills and not the tax bills.

None of us really like taxes, unless philosophically we enjoy the privilege of participating in our free enterprise system . . . and may I add, I hope whether liberal or conservative, that all Texans continue to believe in this system.

You know, actually and honestly "we politicians" (at least some of us, regardless of political persuasion) have an answer to the constant and consistent critic who always finds a way to criticize any and all government spending and who advocates cutting appropriations across the board. While my personal philosophy, without benefit of elucidation, is that the purpose of government is to intervene only when our system of free enterprise doesn't work properly, I still would advocate that it is no easier to come up with ways to cut back spending in a growing state than it is for you to spend less in your family budget while having more children. In fact, it is a more difficult problem in Texas because of our expanding economy, a population explosion (the Malthusian theory just hasn't worked!), and our drive for excellence in the areas of education, tourism, industrial appeal et cetera.

Now, my adversary would say in essence that such a statement sounds like a politician "covering all the needs of everybody." Maybe such a criticism would be right, although as a father with three daughters, and as a businessman in one of the most conservative professions in America, I worry like any father, businessman or Texan whether or not I can afford the bill. Yet, in all of this and still as a legislator, I want all the things, like you, which can give the advantages we seek.

If my adversary, then, should ask: "Okay, Bridges . . . enough of this 'cornbread and black-eyed peas' talk . . . what and how am I going to have to pay these costs?"

Well, the estimates aren't in yet, as to what we can expect in the way of additional tax burdens. All "guesstimates" range over \$100 million and most short of \$200 million, depending on whether the Legislature votes to increase school teachers' pay, state employes' salaries, whether to give the Department of Public Safety their requested, and probably needed, over 100 new highway patrolmen, as well as scores of other monetary legislative decisions, many of them very worthy. After all, don't you like to get a pay raise once in a while, too? The price of milk and bread does continue to go up.

A prominent proposal to meet these needs is one to increase our sales tax from two to three per cent, retaining the present statutory exemptions of food and medicine. Another proposal, I'm sure will be advanced, is a straight two per cent across-the-board sales tax eliminating the present exemptions. There will be a proposal to raise college tuition (state-owned colleges and universities) from \$50 to \$100 a semester.

There will be, I am sure, some proposal on the oil industry. Usually it is suggested that the Legislature either increase the overall production tax, which has varied during the last few years from 7%-9%, or as an alternative on the oil industry, pass a bill to tax on severance beneficiary.

The severance beneficiary tax, whether or not constitutional at the present time, would propose basically a tax on the pipeline companies.

However, depending on the contract written, this tax burden would fall largely on the "majors". But the added tax would in most cases, probably be passed on, if possible, to the end-of-the-line user of gas, which often times is an out-of-the-state recipient.

There may well be proposals to tax on the basis of a personal income tax or a corporate income tax; however, the complexion of the Legislature is such that I consider the issues very moot.

There could be special excise taxes introduced on such items as beer, liquor, wine, cigarettes, gasoline and a score of other items — all of which in my judgment will have little more than some consideration.

While I profess to be no Michael Nostradamus to predict the wisdom of any Legislature, I know there will be consideration of Liquor-by-the-drink and parimutuel horse-racing, although I see no more than "serious" consideration during the next Legislative session.

Also, there will be a managerie of other divergent interests, but largely I think it will be ultimately how to adjust the sales tax to fit the "scheme of things" in Texas, whether you or I like it or not.

But like the recent and renowned cartoon (changed a bit to fit this pattern):

"Ten yars ugo I culdn't evn spel Legislutar. . .

"And now i ar one. . ."

GEOLOGIST'S WIVES CLUB

The Geologist's Wives' Club held a luncheon and fashion show, Thursday, Oct. 13, in the Crown Room of the Sheraton Marina Inn. Before the noon luncheon, Mrs. Dale Mueller and Mrs. Jon Spradley modeled furs from Bein Royal Fur Co. Following the luncheon, "day-time and at home and cocktail" fashions from the Wahini Shop, located in the Sheraton Marina Lobby, were modeled by the following club members: Mrs. Robert Brady, Mrs. John Griesbach, Mrs. Cameron Gates, Mrs. Clifford Murphy, Mrs. Daniel Pedrotti, Mrs. Roland Robertson, Mrs. James Sullivan, and Mrs. Spradley. Hair Stylings compliments of Stevenson's Beauty Salons and Shoes by Bill's Shoe Box.

Co-Chairmen for the event were Mrs. J. Don Haynes and Mrs. Mueller. One-hundred-twenty members and guests attended.

Geologist's Wives Club plan a Christmas Shopping trip to Laredo on Wednesday, Nov. 9, 1966. Buses will leave from Parkdale Shopping Center in front of H.E.B. at 8:30 a.m. sharp and return by 8:30 p.m.

Co-Chairmen are Mrs. Troy Williams and Mrs. George Thomas.

Mrs. Albert V. Jones, Jr. Publicity

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Corpus Christi Geological Society Papers available for purchase at the Texas Bureau of Economic Geology

Note: Publication codes are hyperlinked to their online listing in The Bureau Store (http://begstore.beg.utexas.edu/store/).

Cretaceous-Wilcox-Frio Symposia, D. B. Clutterbuck, Editor, 41 p., 1962. CCGS 002S \$15.00

Type Logs of South Texas Fields, Vol. I, Frio Trend. Compiled by Don Kling. Includes 134 fields. 158 p., 1972. Ring binder.

CCGS 015TL \$25.00

Type Logs of South Texas Fields, Vol. II, Wilcox (Eocene) Trend. Compiled by M. A. Wolbrink. 98 p., 1979. Ring binder. CCGS 016TL \$25.00

Field Trip Guidebooks

South Texas Uranium. J. L. Cowdrey, Editor. 62 p., 1968. CCGS 102G \$12.00

Hidalgo Canyon and La Popa Valley, Nuevo Leon, Mexico. CCGS 1970 Spring Field Conference. 78 p., 1970. CCGS 103G \$8.00

Padre Island National Seashore Field Guide. R. N. Tench and W. D. Hodgson, Editors. 61 p., 1972. CCGS 104G \$5.00

Triple Energy Field Trip, Uranium, Coal, Gas—Duval, Webb & Zapata Counties, Texas. George Faga, Editor. 24 p., 1975. CCGS 105G \$10.00

Minas de Golondrinas and Minas Rancherias, Mexico. Robert Manson and Barbara Beynon, Editors. 48 p. plus illus., 1978.

CCGS 106G \$15.00

Portrero Garcia and Huasteca Canyon, Northeastern Mexico. Barbara Beynon and J. L. Russell, Editors. 46 p., 1979. CCGS 107G \$15.00

Modern Depositional Environments of Sands in South Texas. C. E. Stelting and J. L. Russell, Editors. 64 p., 1981. CCGS 108G \$15.00

Geology of Peregrina & Novillo Canyons, Ciudad Victoria, Mexico, J. L. Russell, Ed., 23 p. plus geologic map and cross section, 1981.

CCGS 109G \$10.00

Geology of the Llano Uplift, Central Texas, and Geological Features in the Uvalde Area. Corpus Christi Geological Society Annual Spring Field Conference, May 7-9, 1982. Variously paginated. 115 p., 53 p.

CCGS 110G \$15.00

Structure and Mesozoic Stratigraphy of Northeast Mexico, prepared by numerous authors, variously paginated. 76 p., 38 p., 1984.

CCGS 111G \$15.00

Geology of the Big Bend National Park, Texas, by C. A. Berkebile. 26 p., 1984. CCGS 112G \$12.00

GEO LINK POST

http://www.lib.utexas.edu/books/landsapes/index.php
Free service. Rare, fragile, hard-to-find, public domain documents covering various topics about the landscape of Texas.
Includes the Texas Geological Survey from 1887 until 1894.

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://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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www.ccgeo.org Don't forget we have our own we page.

http://terra.nasa.gov/gallery/ Great satellite images of Earth.

<u>www.ermaper.com</u> They have a great free downloadable viewer for TIFF and other graphic files called ER Viewer.

http://terrasrver.com Go here to download free aerial photo images that can be plotted under your digital land and well data. Images down to 1 meter resolution, searchable by Lat Long coordinate. Useful for resolving well location questions.

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Aransas Pass/McCampbell Deep	COLORADO COUNTY	StewartSwan Lake	Collegeport	Plymouth
Bartell Pass	E. Ramsey	Swan Lake, East	MCMULLEN COUNTY	Portilla (2)
Blackjack	Graceland N. Fault Blk	Texana, North	Arnold-Weldon	Taft
Burgentine Lake	Graceland S. Fault Blk	West Ranch	Brazil	Taft, East
Copano Bay, South	DEWITT COUNTY	JIM HOGG COUNTY	Devil's Waterhole	White Point, East
Estes Cove	Anna Barre	Chaparosa	Hostetter	STARR COUNTY
Fulton Beach	Cook	Thompsonville,N.E.	Hostetter, North	El Tanque
Goose Island	Nordheim	JIM WELLS COUNTY	NUECES COUNTY	Garcia
Half Moon Reef	Smith Creek	Freebom	Agua Dulce (3)	Hinde
Nine Mile Point	Warmsley	Hoelsher	Arnold-David	La Reforma, S.W.
Rockport, West	Yorktown, South	Palito Blanco	Arnold-David, North	Lyda
St. Charles	DUVAL COUNTY	Wade City	Baldwin Deep	Ricaby
Tally Island	DCR-49	KARNES COUNTY	Calallen	Rincon
Tract 831-G.O.M. (offshore)	Four Seasons	Burnell	Chapman Ranch	Rincon, North
Virginia	Good Friday	Coy City	Corpus Christi, N.W.	Ross
BEE COUNTY	Hagist Ranch	Person	Corpus Christi West C.C.	San Roman
	Herbst		Encinal Channel	Sun
Caesar		Runge KENEDY COUNTY	Flour Bluff/Flour Bluff. East	
Mosca	Loma Novia			Yturria VICTORIA COUNTY
Nomanna	Petrox	Candelaria	GOM St 9045(offshore)	
Orangedale(2)	Seven Sisters	Julian	Indian Point	Helen Gohike, S.W.
Ray-Wilcox	Seventy Six, South	Julian, North	Mustang Island	Keeran, North
San Domingo	Starr Bright, West	Laguna Madre	Mustang Island, West	Marcado Creek
Tulsita Wilcox	GOLIAD COUNTY	Rita	Mustang Island St.	McFaddin
Strauch_Wilcox	Berclair	Stillman	889S(offshore)	Meyersville
BROOKS COUNTY	North Blanconia	KLEBERG COUNTY	Nueces Bay/Nueces Bay	Placedo
Ann Mag	Bombs	Alazan	West	WEBB COUNTY
Boedecker	Boyce	Alazan, North	Perro Rojo	Aquilares/Glen Martin
Cage Ranch	Cabeza Creek, South	Big Caesar	Pita Island	Big Cowboy
Encintas	Goliad, West	Borregos	Ramada	Bruni, S.E.
ERF	St Armo	Chevron (offshore)	Redfish Bay	Cabezon
Gyp Hill	Terrell Point	Laguna Larga	Riverside	Carr Lobo
Gyp Hill West	HIDALGO COUNTY	Seeligson	Riverside, South	Davis
Loma Blanca	Alamo/Donna	Sprint (offshore)	Saxet	Hirsch
Mariposa	Donna	LA SALLE COUNTY	Shield	Juanita
Mills Bennett	Edinburg, West	Pearsall	Stedman Island	Las Tiendas
Pita	Flores-Jeffress	HAWKVILLE:EAGLEFORD	Turkey Creek	Nicholson
Tio Ayola	Foy	LAVACA COUNTY	REFUGIO COUNTY	O'Hem
Tres Encinos	Hidalgo	Halletsville	Bonnieview/Packery Flats	Olmitos
CALHOUN COUNTY	LA Blanca	Hope	Greta	Tom Walsh
Appling	McAllen& Pharr	Southwest Speaks	La Rosa	WHARTON COUNTY
Coloma Creek, North	McAllen Ranch	Southwest Speaks Deep	Lake Pasture	Black Owl
Heyser	Mercedes	LIVE OAK COUNTY	Refugio, New	WILLACY COUNTY
Lavaca Bay	Monte Christo, North	Atkinson	Tom O'Connor	Chile Vieja
Long Mott	Penitas	Braslau	SAN PATRICIO COUNTY	La Sal Vieja
Magnolia Beach	San Fordyce	Chapa	Angelita East	Paso Real
Mosquito Point	San Carlos	Clayton	Commonwealth	Tenerias
Olivia	San Salvador	Dunn	Encino	Willamar
Panther Reef	S. Santallana	Harris	Enos Cooper	ZAPATA COUNTY
Powderhorn	Shary	Houdman	Geronimo	Benavides
Seadrift, N.W.	Tabasco	Kittie West-Salt Creek	Harvey	Davis, South
Steamboat Pass	Weslaco, North	Lucille	Hiberia	Jennings/Jennings, West
Webb Point	Weslaco, South	Sierra Vista	Hodges	Lopeno
S.E. Zoller	JACKSON COUNTY	Tom Lyne	Mathis, East	M&F
CAMERON COUNTY	Carancahua Creek	White Creek	McCampbell Deep/Aransas Pass	Pok-A-Dot
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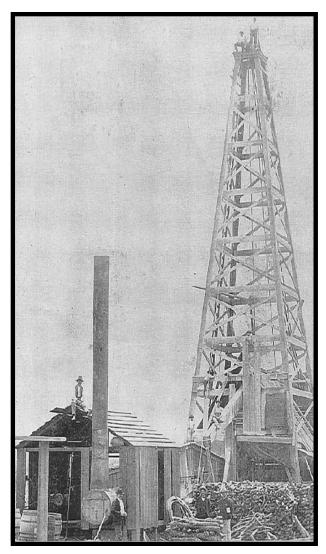
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MATTHEW FRANEY

Consulting Geologist

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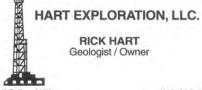
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Jeff Osborn

Geologist

lerradura Petroleum, Inc. 14493 SPID, Ste A, #539 Corpus Christi, TX 78418

361-537-2349 jeff@herradurapetroleum.com



Sam Roach Technical Sales

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