

# LANDMARK

November 2, 1987

Mr. Elliot Pew  
San Antonio SEG  
Independent Consultant  
8620 North New Braunfels, Suite 529  
San Antonio, TX

Dear Elliot,

Laura Capper requested I forward the abstract for the Porcupine Basin talk. The schedule looks good, and is repeated so there is no question. The luncheon meeting is from 12:00-1:30 on January 12th. Those interested in detailed evaluation of the Porcupine Basin data will be able to do so following the luncheon. From 2:00 to 4:30 there will be hands-on demonstration using south Texas data as well as detailed answers to any questions about the workstation.

The talk requires two 35 mm slide projectors with carousels, as well as two screens. Of course, Landmark will be providing a workstation. The workstation requires one (1) duplex 15 amp outlet. It is our understanding that you will make arrangements with the hotel for extended use of their seminar room.

Thank you, and we look forward to the presentations.

Best Regards,

*H. Roice Nelson Jr.*  
H. Roice Nelson, Jr.

cc: Richard Barren  
Laura Capper  
Gene Ennis  
Brad Macurda  
Richard Todd

LANDMARK GRAPHICS CORPORATION

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## **Interactive Interpretation of a Submarine Fan Offshore Ireland, A Case History**

**D. Bradford Macurda, Jr. (The Energists) and  
H. Roice Nelson, Jr.\* (Landmark Graphics Corporation)**

### **ABSTRACT:**

The Porcupine Basin, off the southwest coast of Ireland, is a large Lower Cretaceous rift basin with up to eight kilometers of sedimentary fill. From a wide variety of environments, and the associated stratigraphic plays and traps, we present a detailed interactive interpretation of a submarine fan from a series of Eocene alluvial fans or fan deltas along the eastern basin margin.

The stratigraphic succession is divisible into 9 or 10 super-sequences; there are 29 or 30 sequences in the Tertiary alone. Mapping these sequences by conventional techniques is a time consuming task. Once the sequence boundaries have been recognized and verified by loop tieing on CDP record sections, it is possible to use a workstation to greatly speed up seismic facies analysis and mapping procedures. Displays of both amplitude and phase bring out significant differences in the depositional history and facies of the sequences.

Deltaic progradation into the basin occurred into the Tertiary. A significant deepening of the basin also took place at this time. The development of a series of prominent submarine fans provides a challenging exploration problem. Where are the reservoir prone facies best developed? And where would the hydrocarbons be trapped? Amplitude and phase sections reveal significant variations within the fans and subsequent sealing by onlap fill deposits. Mapping of the sequences within the fans portrays their structural attitude and how drainage would occur.

\*Speaker

## Bioigraphical Information

Dr. D. Bradford Macurda, Jr.  
Vice-President, The Energists  
10260 Westheimer Suite 300  
Houston, TX 77042

Dr. Macurda was a Professor in the Department of Geology and Mineralology at the University of Michigan in Ann Arbor, Michigan from 1963 to 1978. He worked at Exxon Production Research Company from 1978 to 1981, and since that time has worked for The Energists.

H. Roice Nelson, Jr.  
Landmark Graphics Corporation  
333 Cypress Run  
Houston, TX 77094

Mr. Nelson was a founder of Landmark Graphics Corporation in 1982. For the three years prior to that he was General Manager of the Allied Geophysical Laboratories at the University of Houston and a Senior Research Scientist at the Seismic Acoustics Laboratory. He worked at Mobil Exploration and Production Services, Inc. in Dallas Texas from 1974 to 1980, and had two summers experience at Amoco Production Co. (Pan American) in Denver, Colorado.

Due to Dr. Macurda's other commitments, Mr. Nelson will give the presentation: Interactive Interpretation of a Submarine Fan Offshore Ireland, A Case History.

PHONE (512) 821-5195

*Elliott Pew*

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PETROLEUM GEOLOGIST

8620 N. NEW BRAUNFELS, SUITE 527  
SAN ANTONIO, TEXAS 78217

**ELLIOTT PEW**  
Petroleum Geologist  
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Phone: (512) 821-5195

January 4, 1988

Landmark Graphics Corporation  
333 Cypress Run, Suite 100  
Houston, Texas 77094

attn: H. Roice Nelson, Jr.

Dear Roice:

On behalf of the San Antonio Geophysical Society, I'd like to thank both you and Landmark Graphics Corporation for agreeing to present your Porcupine Basin talk at the January 12th luncheon meeting, followed by the demonstration of your workstation using the three data sets we discussed. The luncheon meeting begins at 11:30, with lunch following at 12:00. The technical program generally begins around 12:30 and finishes up around 1:15. The workstation demonstration will begin shortly after the technical program adjourns.

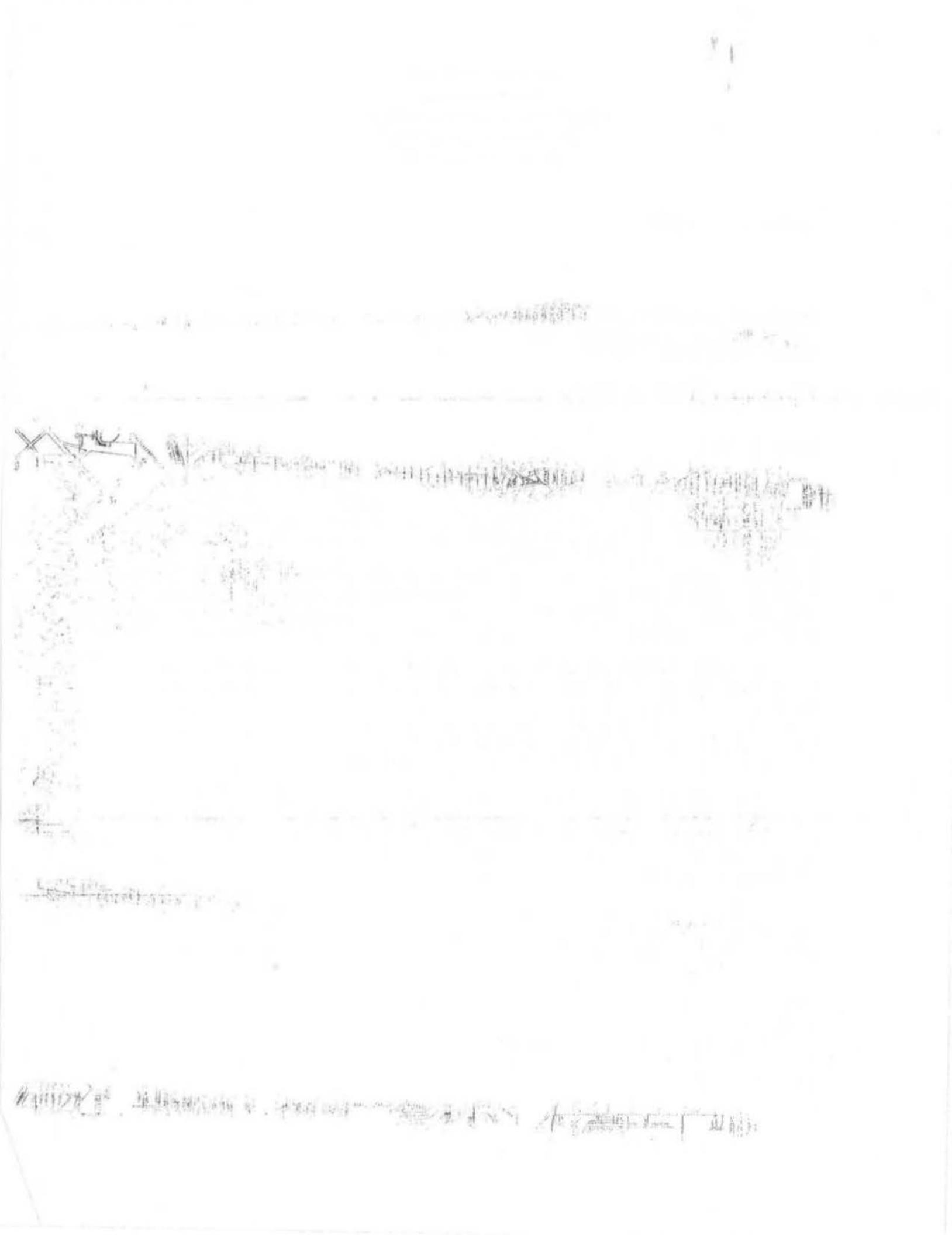
I have arranged with the Petroleum Club to provide you with the duplex 15 amp outlet as well as the sturdy work surface you requested. You can have access to the meeting room in the Petroleum Club as early as you can get here. Upon arrival, contact either myself at 821-5195 or Don Corporan at the Petroleum Club at 824-9014.

The Petroleum Club is located on the 7th floor of Energy Plaza, Building I, located at 8620 N. New Braunfels, San Antonio, Texas. I office in the same building in Suite 529. Enclosed please find a map giving directions to the Club when driving from Houston.

I am very much looking forward to meeting you and hearing your talk. If you have any questions or need further information, please do not hesitate to call.

Yours truly,

*Elliott Pew*  
Elliott Pew



# ROSWELL LINE REATORS

NORTH

ALAMO HEIGHTS  
ISD

Clementville

Exit 40  
40 ON  
Nacogdoches

AREA COVERED BY ENLARGED  
INDEX ON OTHER SIDE



DIRECTIONS

1-10 from Houston. to Loop 410, go N. on Loop 410. When 410 N ENDS, EXIT to Loop 410 West. Go on 410 West to ~~head~~ Nacogdoches. Exit there & get on feeder. Go <sup>straight</sup> through light & continue on feeder. Take 3<sup>RD</sup> right past light (New Braunfels). Go 1 block, then go through stop sign. Energy Plaza will be twin 7 story buildings on right. PETROLEUM CLUB (and my office) is in northerly most tower.

My # 821-5195

Suite 529

PETROLEUM CLUB # 824-9014

Suite 700

See you the 12<sup>th</sup>!





ROAD TRIP

DEMO SCHEDULE REQUEST

KEVIN	ROICE

COMPANY:	INDEPENDENT	<input type="checkbox"/> Customer <input type="checkbox"/> Prospect	Submit Date:	By: LHC
ADDRESS:	8620 NORTH NEW BRAUNFELS	Demo Date:	1/12/88	Time: 8:00-5:00
PHONE:	SUITE 529, SAN ANTONIO TUESDAY / WED MORN. 512-821-5195	Purpose:	DEMO <input type="checkbox"/>	SERVICE <input type="checkbox"/>
CONTACTS/TITLE:	ELLIOTT PEW	First <input type="checkbox"/>	Paid <input type="checkbox"/>	Other <input type="checkbox"/>
TENNCO -		DATA:	LGC <input type="checkbox"/>	CLIENT <input type="checkbox"/>
SUBURBAN -			SALNOR <input type="checkbox"/>	PROJ: _____
PROPANE			FIELD <input type="checkbox"/>	NORPAC <input type="checkbox"/>
VENIS			OFFLA <input type="checkbox"/>	VOL: 3DV
CLAYTON WILLIAMS			OTHER <input type="checkbox"/>	T/S
TOSORO -		APPLICATION:	3DI <input type="checkbox"/>	2DI <input type="checkbox"/>
BOLERO -			F/HMAP <input type="checkbox"/>	
			DGI <input type="checkbox"/>	SURFAS <input type="checkbox"/>
				GEOSIM <input type="checkbox"/>
		OTHER:	TURBO <input type="checkbox"/>	

BACKGROUND INFORMATION

(Special Interest, Competition, etc.)

12:00-1:30

- LUNCHEON MEETING: ROICE NELSON -  
PORCUPINE BASIN

2:00-4:30

- HANDS-ON DEMO: SOUTH TEXAS DATA  
SALES PITCH

8:00-12:00

NEXT MORNING: DEDICATED DEMO FOR  
TENNCO - WEST TEXAS DATA

MORE TO FOLLOW...

**LANDMARK**

GRAPHICS CORPORATION

## CONTACT REPORT

Kevin	Gens	

Name Elliott Pew  
8620 North New Braunfels  
Suite 529  
Title \_\_\_\_\_  
Co. San Antonio, SEG  
Independent Consulting Zip Code 78217  
Area (512) 821 - 5195 Phone Ext. \_\_\_\_\_

Date 11 Sept 1987 Time \_\_\_\_\_ A.M.  
P.M.Contactor Rice

File/Ref. No. \_\_\_\_\_

Product \_\_\_\_\_

Salesman \_\_\_\_\_ Div. \_\_\_\_\_

Follow-up Action By \_\_\_\_\_  
(If other than contactor)

Date Required \_\_\_\_\_

## Rice Talk on Porcupine Sales School

- Presentation at luncheon ~~morning~~ talk based on OFFRE followed by afternoon of demonstration on an RT.
  - November 3 in San Antonio.
- They have 75 members and usually get 30 out to luncheon.
- Told him Kevin or myself would do it & who ever will call back & confirm next week.

## Tenneco Unhappy w/ Integrigraph

- Porcupine Basin off Ireland probably-

- luncheon meeting - want flyers -  
2D in front -  
1st the 3D -

Plattan - 3D interest -

Samedan - 3D interest - consultant -

- INVITATION - BACKGROUND -