

STRATIGRAPHIC CHART - NW Shelf Area -

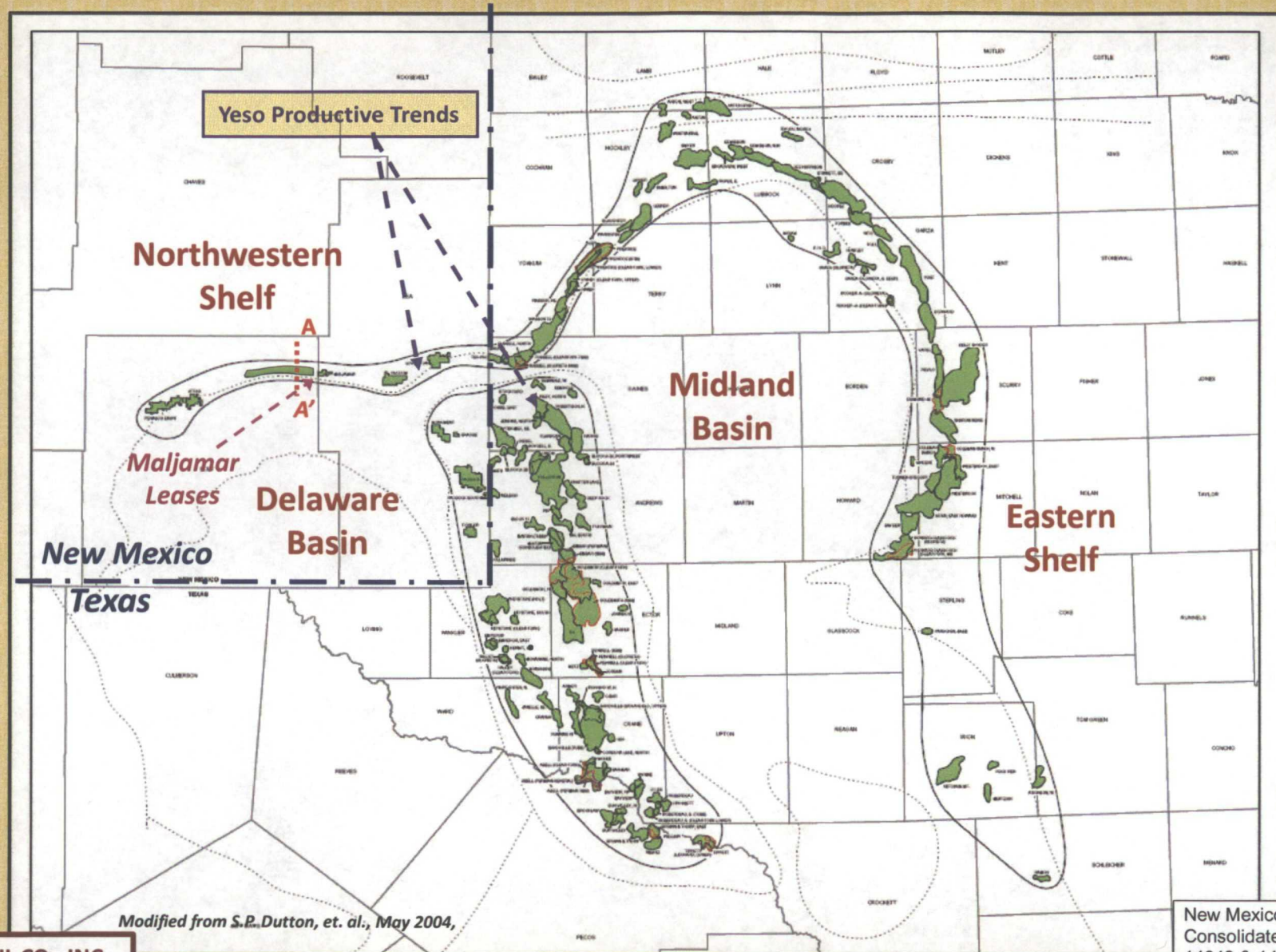
(b)	System	Epoch/ Series/ Stage	Time (m.y.)	Delaware Basin	NW Shelf New Mexico	NW Shelf Texas	Central Basin Platform	Midland Basin											
PERMIAN		Ochoan	251	Dewey Lake		Dewey Lake	Dewey Lake	Dewey Lake	Dewey Lake										
				Rustler		Rustler	Rustler	Rustler	Rustler										
				Salado		Salado	Salado	Salado	Salado										
				Castile		Castile	Castile												
		Guadalupian		Delaware Mountain Group	Bell Canyon	Artesia Gp.	Tansill	Artesia Gp.	Tansill	Captain	Tansill	Artesia Gp.	Tansill						
							Yates		Yates		Yates		Yates						
							Seven Rivers		Seven Rivers		Seven Rivers		Seven Rivers						
							Queen		Queen		Queen		Queen						
					Cherry Canyon	Grayburg	Grayburg	Grayburg	Grayburg										
						Upper San Andres		Upper San Andres	Upper San Andres	San Andres									
					Brushy Canyon						Brushy Canyon								
						Cutoff		Lower San Andres	Lower San Andres	Lower San Andres									
						Leonardian		Bone Spring	1st carbonate	Yeso	Glorieta	Glorieta	Glorieta	Clear Fork Group	Upper Clear Fork	Clear Fork Group	Upper Clear Fork	Clear Fork Group	Spraberry
									1st sand		Paddock	Upper Clear Fork	Middle Clear Fork		Middle Clear Fork		Tubb		Lower Clear Fork
	2nd carbonate																		
	2nd sand	Blinebry	Middle Clear Fork	Middle Clear Fork															
	3rd carbonate	Tubb	Tubb	Tubb															
	3rd sand	Drinkard	Lower Clear Fork	Lower Clear Fork															
	Lower carbonate	Abo	Abo	Abo/Wichita															
		Wolfcampian			Wolfcamp	Wolfcamp	Wolfcamp	Wolfcamp	Wolfcamp										

Oil Conservation Division
Case No. 6
Exhibit No. 6

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Yeso/Clearfork Productive Trends Permian Basin



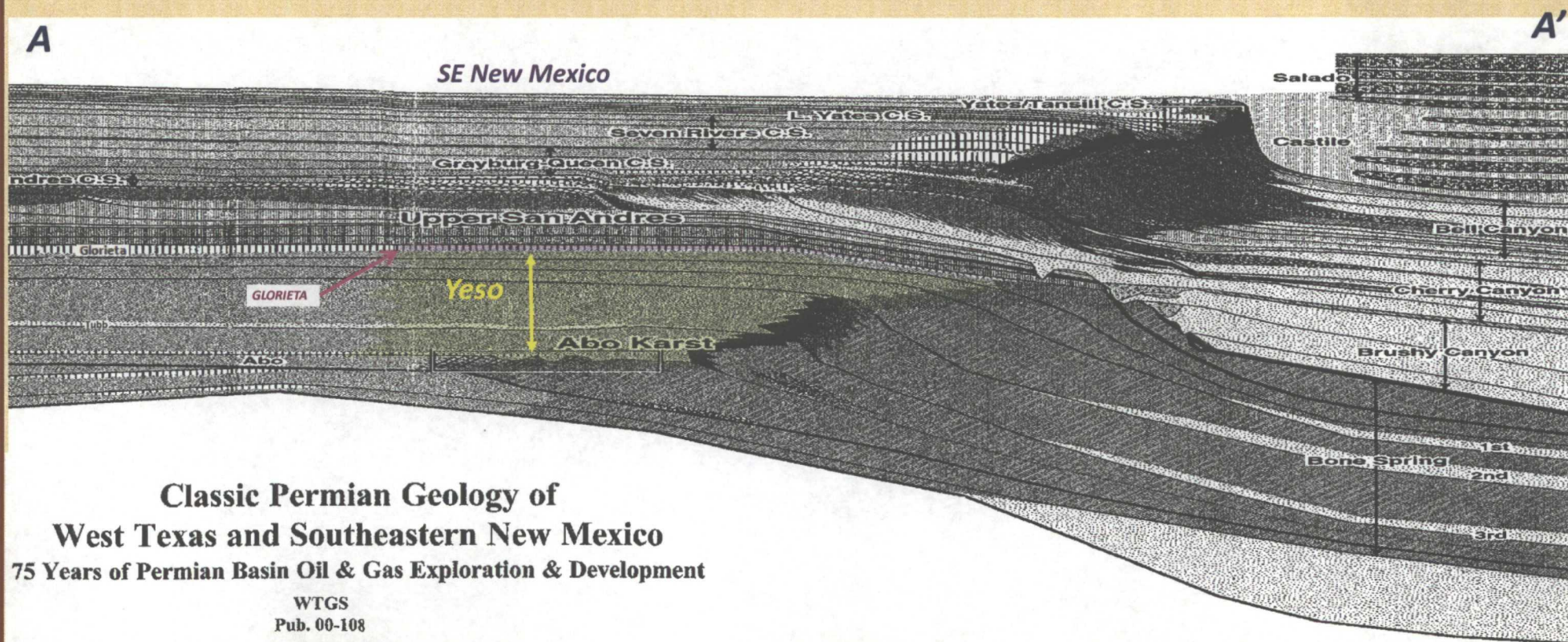
Modified from S.P. Dutton, et. al., May 2004,

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Shelf to Slope – Schematic Section



**Classic Permian Geology of
West Texas and Southeastern New Mexico**
75 Years of Permian Basin Oil & Gas Exploration & Development

WTGS
Pub. 00-108

Modified from Geo 200, Fieldtrip Guidebook, West TX Geo. Co.

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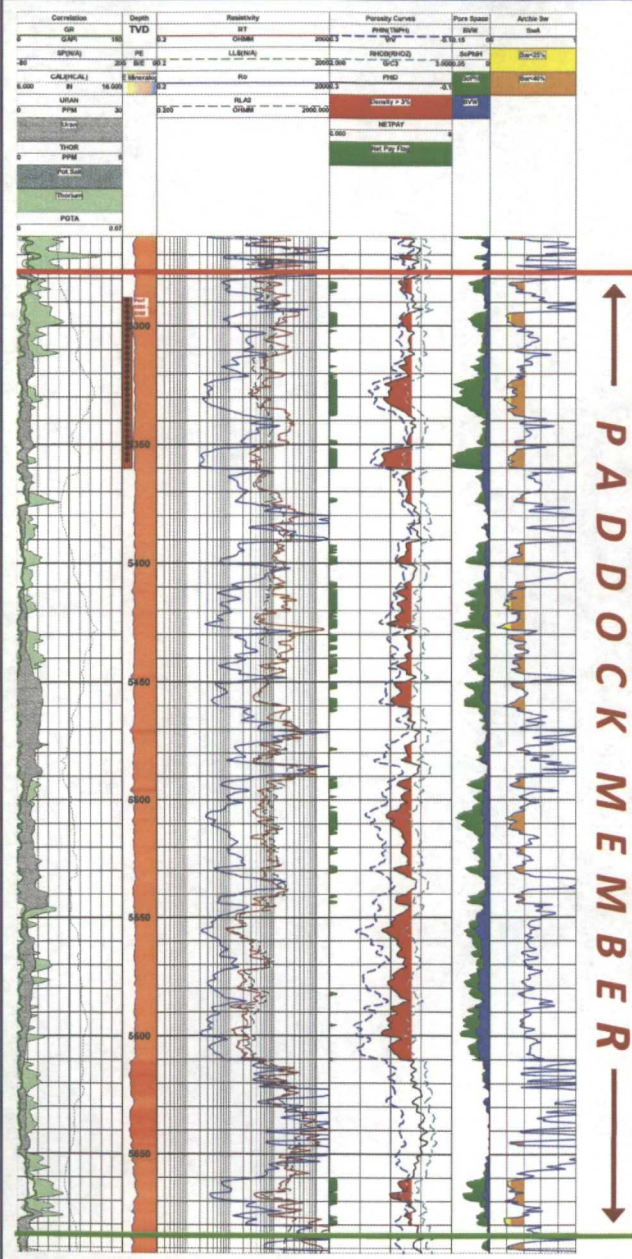
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30015313710000

CHEVRON U S A INCORPORATED
SKELLY UNIT 905

S2 NE NE

TWP: 17 S - Range: 31 E - Sec. 14
TD=12470



YESO TYPE LOG & LOG ANALYSIS EXAMPLE - Paddock Member -

PADDOCK:

Net Pay: 120'

Avg. Density Porosity: 7.2%*

Avg. Water Saturation: 27%*

SoPhiH: 6.3*

WATER SATURATION (SW) & NET PAY CALCULATION METHODS

Paddock & Blinbry Members - Yeso Formation

Archie Water Saturation (Sw)

$$SwA = \sqrt{Rw * F / (RT)}$$

Net Pay (h)

$$NETPAY = (PHID > \text{PhiCutoff and } SwA < \text{SwCutoff}) * \text{Step}$$

Density Porosity

$$PHID = (RHOB - \text{RhoM}) / (RHOB - \text{RhoF})$$

Formation Factor

$$F = 1/PHID^2$$

Formation & Net Pay Parameters

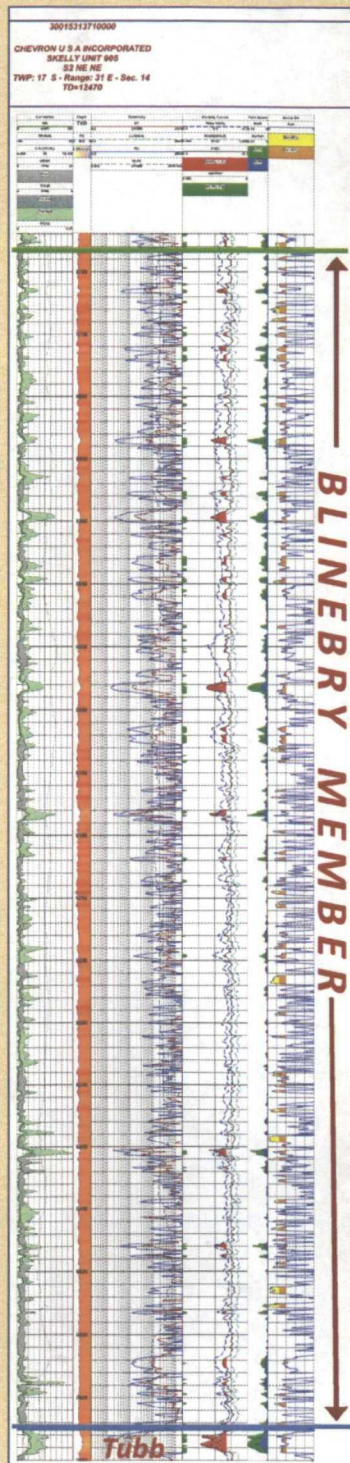
- $Rw = .035 \text{ ohmm}$
- Density Matrix = 2.84 g/cc (RHOB)
- Density Fluid = 1.0 (RhoF)
- Measured Formation Matrix (RhoM)
- Deep Resistivity = RT
- Sw Cut off < 40%
- Porosity (f) Cut off > 3% (generated from Bulk Density Curve)
- Archie "a" (tortuosity factor) = 1
- Archie "m" (cementation exponent) = 2
- Archie "n" (saturation exponent) = 2

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*Net Pay Used as Qualifier



YESO TYPE LOG & LOG ANALYSIS EXAMPLE - Blinebry Member -

BLINEBRY:

Net Pay: 105'

Avg. Density Porosity: 5.6%*

Avg. Water Saturation: 26%*

SoPhiH: 4.4*

WATER SATURATION (SW) & NET PAY CALCULATION METHODS

Paddock & Blinebry Members - Yeso Formation

Archie Water Saturation (Sw)

$$SwA = \sqrt[4]{Rw * F / (RT)}$$

Net Pay (h)

$$NETPAY = (PHID > \text{PhiCutoff and } SwA < SwCutoff) * \text{Step}$$

Density Porosity

$$PHID = (RHOB - \text{RhoM}) / (RHOB - \text{RhoF})$$

Formation Factor

$$F = 1/PHID^2$$

Formation & Net Pay Parameters

- $Rw = .035 \text{ ohmm}$
- Density Matrix = 2.84 g/cc (RHOB)
- Density Fluid = 1.0 (RhoF)
- Measured Formation Matrix (RhoM)
- Deep Resistivity = RT
- Sw Cut off < 40%
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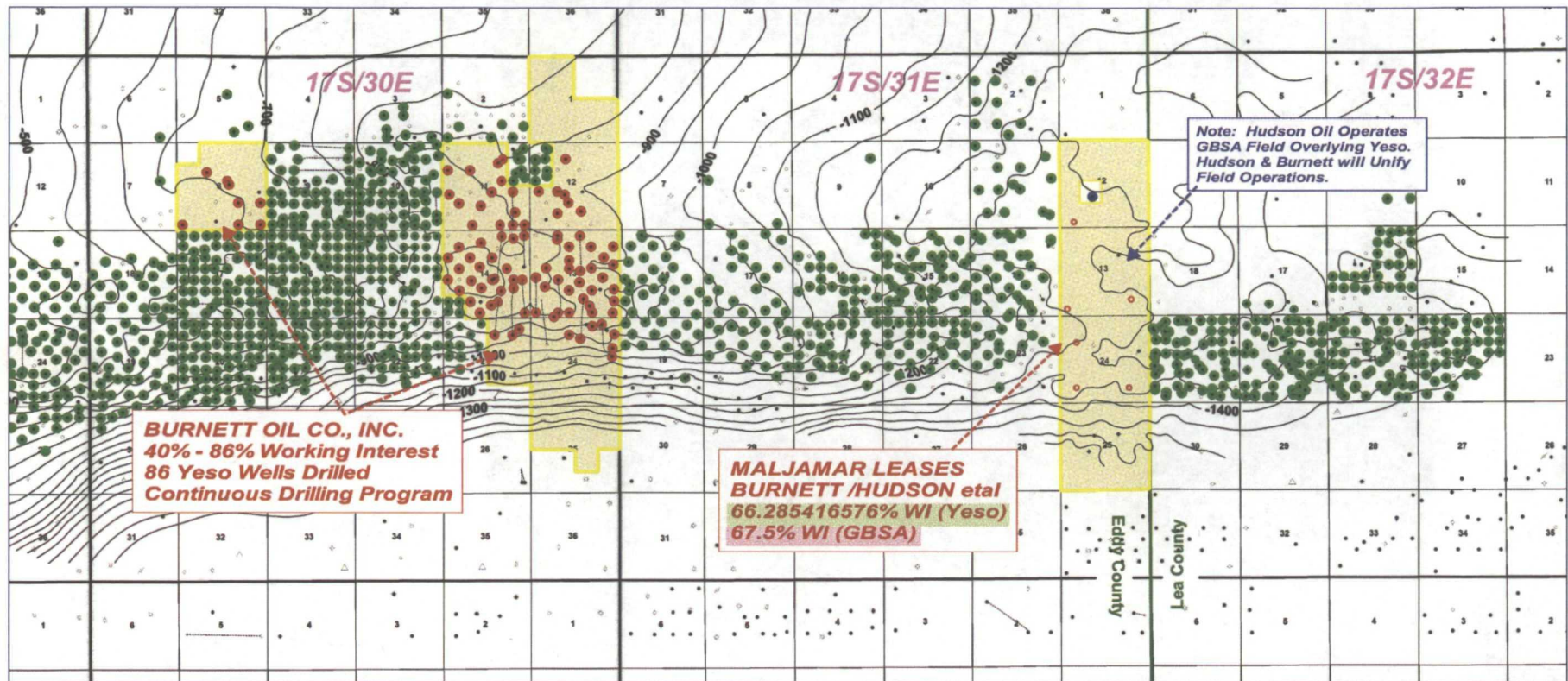
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*Net Pay Used as Qualifier

YESO STRUCTURE MAP

With YESO PRODUCERS



YESO PRODUCER

- BURNETT OIL CO INC
- HUDSON OIL COMPANY OF TEXAS
- Other Operator



BURNETT LEASES



Burnett Approved APD

*** Only Wells with Total Depth below 4,800' Shown**

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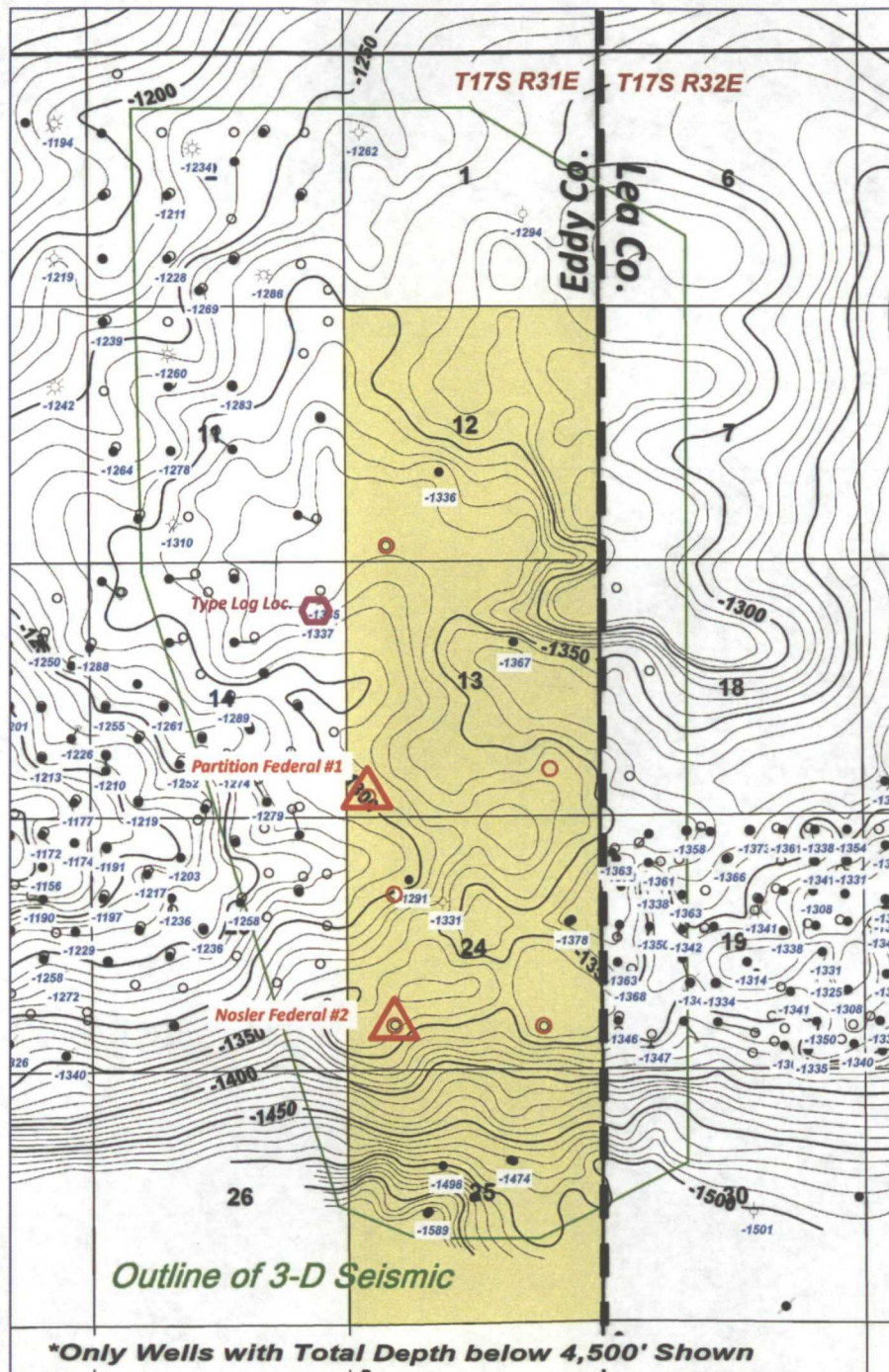
**NORTHWEST SHELF AREA
YESO STRUCTURE MAP
With YESO PRODUCERS**

Geol. J. H. Aldrich, L. G. Galt
C1 - 50 Feet
Date: May 19th, 2011

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MALJAMAR AREA

Yeso Structure Map

BURNETT/HUDSON LEASES

BURNETT APPROVED YESO APD

PROPOSED WELL - SUBJECT OF TODAY'S HEARING

Yeso Structure Top

-1331

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MALJAMAR AREA

STRUCTURE: TOP OF YESO FM.

Geos: J. Haiduk, L.
Galbiati, T. Durham

CI = 10 Feet

Date: May 20 2011

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