FROM FEAST TO FAMINE

East Avard Field Leads to South Alva Non-Field, Woods County, Oklahoma
East Award - New Field
4 wells, 2 are marginal
Calculated reserves of over 6.5 BCF

Northwest Waynoka
22 well average of 5.1 BCF
Total cums. of 112+ BCF + oil

Cedarvale
17 well average of 4.9 BCF
Total cums. of 83+ BCF + oil

Northeast Selling
17 well average of 4.4 BCF
Total cums. of 75+ BCF + oil
PRESSURE LOG

FIELD REPORT NO. 046400

INSTRUMENT:
NUMBER: J-1337
CAPACITY: 6400 PSI
DEPTH: 5209 FT
PORT OPENING: INSIDE

ELAPSED TIME (MIN)

BOTTOM HOLE PRESSURE (PSIG)

800 1200 1600 2400 3200 4000

290 @ 1400 MCF

Average Flow = 1050 MCF /

2300#
2/80  Pan Eastern  Renewed interest!

Harper/Goucher 6/17
Entsbach/Goucher 1/82

Later Well

Later Well
Rate/Time Graph

Lease Name: GOUCHER (1)
County, ST: WOODS, OK
Location: 30 26N 14W S2N2NESW
Operator: CHAPARRAL ENERGY INCORPORATED
Field Name: AVARD EAST

Harper

GOUCHER - AVARD EAST Disc. Well

2,700 M in first few years

-333 MCF/DO


Time

Monthly Rate
Pressure/Time Graph

Project: C:\Program Files\IHS Energy\PowerTools v5.0\Projects\goucher.MDB
Date: 9/5/2002
Time: 11:05 AM

Lease Name: GOUCHER (1)
County, ST: WOODS, OK
Location: 30 26N 14W S2N2NESW

Operator: CHAPARRAL ENERGY INCORPORATED
Field Name: AVARD EAST

1st 10 years

GOUCHER - AVARD EAST

BHP

Time

This well was twinned as a dry hole!
HOC/Goucher

Ensearch/Goucher

WATER

5.7 BCF

.9 BCF

.8 BCF

.1 BCF

Beren wells Drilled "in error"
12. wells drilled as 2 result of this discovery well!
Carbonate Buildups of the Lansing / Kansas City
Avant

Cottage Grove Ss.

Tight Limestone

Porous Ls

Tight Ls. Buildup

Hogs抒器
S. E. ALVA PROSPECT
Woods County, Oklahoma

STRUCTURE: First Clean Gamma Ray (Sandstone or Limestone)
(Sandstone or Limestone)
Essentially top of porosity  C.I. = 25'
S. E. ALVA PROSPECT
Woods County, Oklahoma

ISOPACH: Cottage Grove Sandstone
Essentially, all sandstone is porous.
C. I. = 10'
Santa Fe/Moore
S. E. ALVA PROSPECT
Woods County, Oklahoma

ISOPACH: Cottage Grove Sandstone
Essentially, all sandstone is porous
C. I. = 10′
S. E. ALVA PROSPECT
Woods County, Oklahoma

ISOPACH: Cottage Grove Sandstone
Essentially, all sandstone is porous
C. I. = 10'
The Cottage Grove Sandstone ridges were deposited in a (shoreface-detached) shelf environment.  

Inferred depositional processes include:

- Reworking by tidal surge and ebb
- Winnowing of ridge crests by wave action during storms
- Episodic delivery of sediment to the shelf by storm induced currents

A fossiliferous packstone-grainstone facies also occurs as thin sheets in some sandstone ridges as well as interridge areas. This is the tight limestone.

From Fruit and Elmore, 1988, AAPG Bulletin
Chalky, oolitic, porous but impermeable limestone
A local and anomalous deposit
This is not the tight limestone
Limestone curiously overlain by the sandstone
? Possible barren reservoir due to no recovery area (encapsulation)?

Very fine grained, shaley, porous but impermeable reservoir
? Prevention of the emplacement of hydrocarbons?

? Leaks to more sandstone updip? or into porous limestone?

S. E. ALVA PROSPECT
Woods County, Oklahoma

ISOPACH: Cottage Grove Sandstone
Essentially, all sandstone is porous
C. I. = 10'