

Data prepared by: Symposium Committee
Affiliation: The Roswell Geological Society
Date: 12-1-56.

Field Name: Caudill (Devonian)
Location: Secs. 9, 16, 21, T. 15 S., R. 36 E.
County & State: Lea County, New Mexico

DISCOVERY WELL: G.E. Hall #1 State "A", Sec. 16-15S-36E COMPLETION DATE: 9-27-54
PAY ZONE: T.D. 13,585 feet (Disc. Method: Seismograph)

Devonian: Very finely crystalline, white dolomite with vuggy porosity. Gross pay approximately 225 feet, Net pay approximately 30 feet, 0/W Contact approximately minus 9,750 feet.

TYPICAL CORE ANALYSIS OF A PAY INTERVAL IN THIS FIELD:

Perm. in millidarcys		% Porosity	Liquid Saturation (% of pore space)	
Horizontal	Vertical		Water	Oil
10.0		2 to 6	20	30

OTHER SHOWS ENCOUNTERED IN THIS FIELD: Lower Wolfcamp (Bursum) approximately 11,300 feet and Pennsylvanian at approximately 11,450 feet. Minor shows in San Andres (Permian) 5,200 feet to 5,600 feet.

TRAP TYPE: Faulted anticline.

NATURE OF OIL: Gravity 57.2° A.P.I.

NATURE OF GAS: Approx. 200:1

NATURE OF PRODUCING ZONE WATER: Shell #3 St. "GA" Resistivity: 119 ohm-meters @ 80 °F.

	Total Solids	Na/K	Ca	Mg	Fe	SO ₄	Cl	CO ₂	HCO ₃	OH	H ₂ S
ppm	63,682	15,154	7,261	1,216	Tr.	477	39,178		396		

(BHP 5,307 psi on 11-12-55 & 5,144 psi on 7-16-56 for

INITIAL FIELD PRESSURE: Approx. 5,500 psi. Shell #6 State "GA" - pool datum minus 9,600')

TYPE OF DRIVE: Water drive.

NORMAL COMPLETION PRACTICES: Core or drill pay zone, drill stem test, run logs, Set 5½" casing to total depth, perforate, acidize and complete. All wells are completed flowing.

PRODUCTION DATA:

No. of wells @ yr. end				Production		No. of wells @ yr. end				Production	
Year	Type	Prod.	Shut in or Abnd.	Oil in barrels Gas in MMCF		Year	Type	Prod.	Shut in or Abnd.	Oil in barrels Gas in MMCF	
				Annual	Cumulative					Annual	Cumulative
1941	oil					1949	oil				
	gas						gas				
1942	oil					1950	oil				
	gas						gas				
1943	oil					1951	oil				
	gas						gas				
1944	oil					1952	oil				
	gas						gas				
1945	oil					1953	oil				
	gas						gas				
1946	oil					1954	oil	1		31,426	31,426
	gas						gas		None Reported		
1947	oil					1955	oil	14		751,257	782,683
	gas						gas	14		82.085	82.085
1948	oil					1956*	oil	17		2,297,856	3,080,529
	gas						gas	17		226.177	308.262

* 1956 Figure is production to 12-1-56

BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

Case No. 14122 Exhibit No. 12

Submitted by:

PECOS OPERATING COMPANY

Hearing Date: May 15, 2008