

TATUM (WOLFCAMP) POOL
T-13-S, R-36-E
Lea County, New Mexico

The Tatum (Wolfcamp) Pool was discovered in 1957 by Union Oil of California, when they drilled the No. 1-6 Duncan well (SE/4 SE/4 Section 6, T-13-S, R-36-E) as a 14,400 foot Devonian wildcat. The well tested water in the Devonian, but was plugged back and completed as an oil well from the Wolfcamp Bough "B" limestone at a depth of approximately 10,300 feet. The Bough "C" limestone later proved to be productive in one well, but it was generally tight or wet.

The structure is a local closure superimposed upon a north-south regional structural trend. There is faulting at depth along the west flank in the deeper beds, with draping over this fault in the Pennsylvanian and Permian beds. Shell reef banks apparently were deposited along this seaward flank, and after consolidation the shells were leached out, leaving a series of vuggy limestones with somewhat erratic porosity and permeability. There has been some minor subsequent fracturing. Trapping mechanism, therefore, is a combination of stratigraphic and structural, with a porosity pinchout to the east. No seismic data is available for further structural control.

A total of nine (9) wells have been drilled, with a cumulative production of 630,000 BO, an average of 70,000 BO per well. Two wells are currently producing at the rate of 5 BOPD each. Success ratio was five (5) producing wells and four (4) dry holes.

The pool appears to have been defined to the east, south, and west. There is a possibility of extending production to the north, provided the reservoir is found to exist with sufficient porosity and permeability, and further provided its structural position is not so low as to produce water, and that the reservoir has not been effectively drained during the past 25 years.

Attached hereto as a part of this report are the following maps:

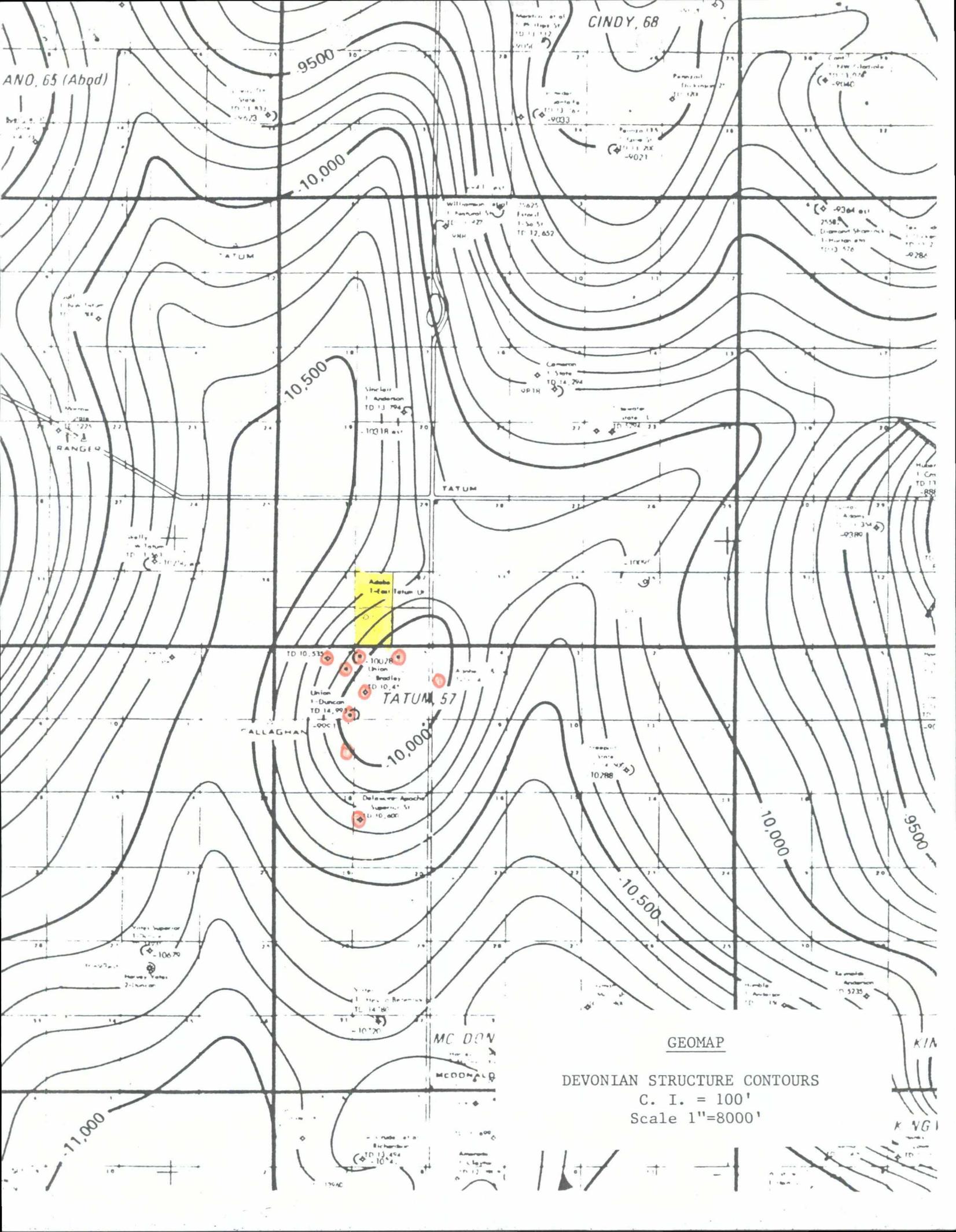
- 1.- Devonian Structure Map (Geomap), Scale 1"=8000'
- 2.- Wolfcamp Structure Map Scale 1"=4000'

BEFORE EXAMINER STOGNER	
OIL CONSERVATION DIVISION	
HASKINS	EXHIBIT NO. <u>C</u>
CASE NO.	<u>8047</u>

Ray H. Haskins

Ray H. Haskins
 January 17, 1984

Exhibit "C"



GEOMAP
 DEVONIAN STRUCTURE CONTOURS
 C. I. = 100'
 Scale 1"=8000'

