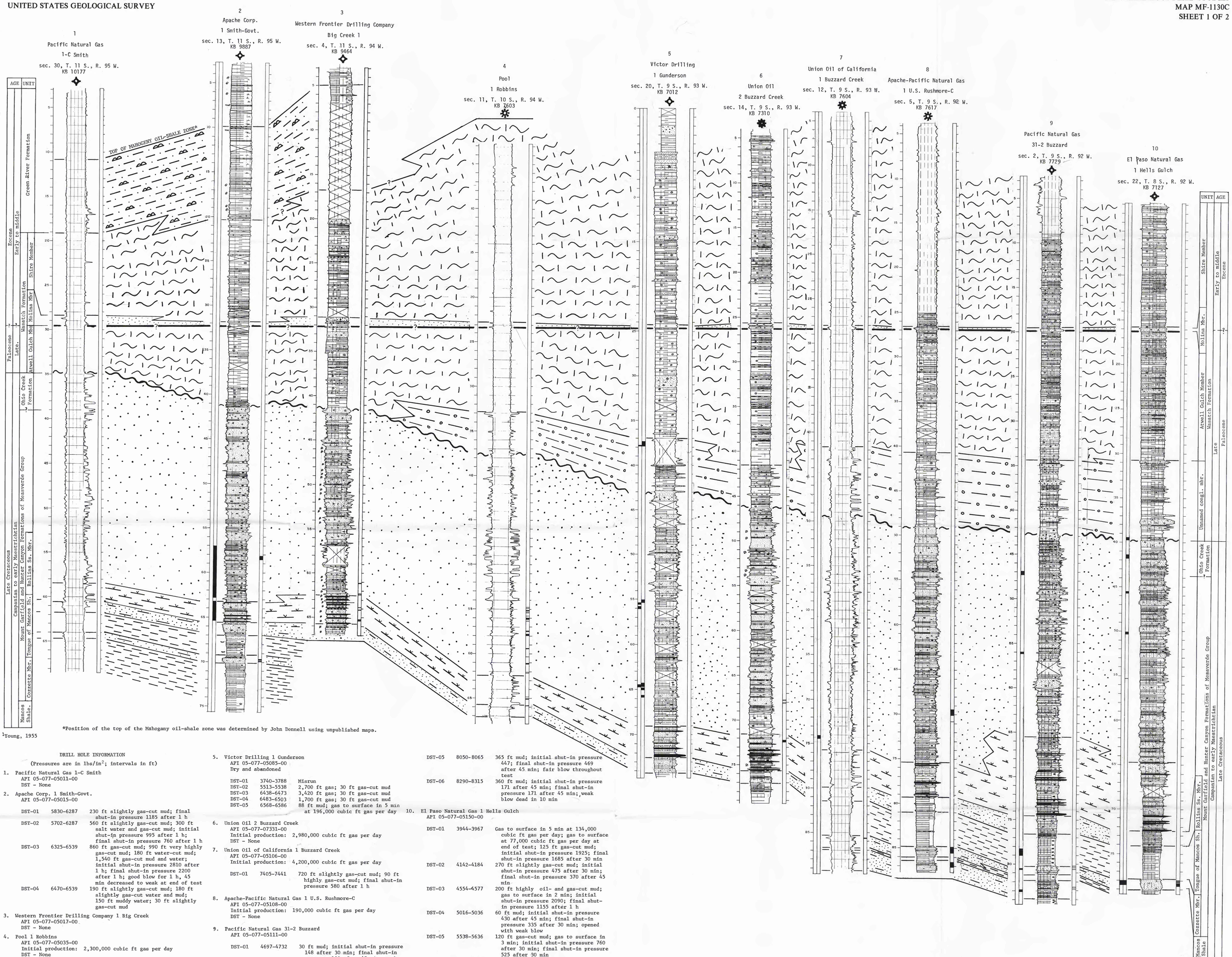
DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF-1130C
SHEET 1 OF 2



*Position of the top of the Mahogany oil-shale zone was determined by John Donnell using unpublished maps.

[1]Young, 1955

DRILL HOLE INFORMATION

(Pressures are in lbs/in^2; intervals in ft)

1. Pacific Natural Gas 1-C Smith
   API 05-077-05011-00
   DST - None

2. Apache Corp. 1 Smith-Govt.
   API 05-077-05015-00

DST-01	5830-6287	230 ft slightly gas-cut mud; final shut-in pressure 1185 after 1 h
DST-02	5702-6287	560 ft slightly gas-cut mud; 300 ft salt water and gas-cut mud; initial shut-in pressure 995 after 1 h; final shut-in pressure 760 after 1 h
DST-03	6325-6539	860 ft gas-cut mud; 990 ft very highly gas-cut mud; 180 ft water-cut mud; 1,540 ft gas-cut mud and water; initial shut-in pressure 2810 after 1 h; final shut-in pressure 2200 after 1 h; good blow for 1 h, 45 min decreased to weak at end of test
DST-04	6470-6539	190 ft slightly gas-cut mud; 180 ft slightly gas-cut water and mud; 150 ft muddy water; 30 ft slightly gas-cut mud

3. Western Frontier Drilling Company 1 Big Creek
   API 05-077-05017-00
   DST - None

4. Pool 1 Robbins
   API 05-077-05035-00
   Initial production: 2,300,000 cubic ft gas per day
   DST - None

5. Victor Drilling 1 Gunderson
   API 05-077-05085-00
   Dry and abandoned

DST-01	3740-3788	Misrun
DST-02	5513-5538	2,700 ft gas; 30 ft gas-cut mud
DST-03	6438-6473	3,420 ft gas; 30 ft gas-cut mud
DST-04	6483-6503	1,700 ft gas; 30 ft gas-cut mud
DST-05	6568-6586	88 ft mud; gas to surface in 5 min at 196,000 cubic ft gas per day

6. Union Oil 2 Buzzard Creek
   API 05-077-07331-00
   Initial production: 2,980,000 cubic ft gas per day
   DST - None

7. Union Oil of California 1 Buzzard Creek
   API 05-077-05106-00
   Initial production: 4,200,000 cubic ft gas per day

DST-01	7405-7441	720 ft slightly gas-cut mud; 90 ft highly gas-cut mud; final shut-in pressure 580 after 1 h

8. Apache-Pacific Natural Gas 1 U.S. Rushmore-C
   API 05-077-05108-00
   Initial production: 190,000 cubic ft gas per day
   DST - None

9. Pacific Natural Gas 31-2 Buzzard
   API 05-077-05111-00

DST-01	4697-4732	30 ft mud; initial shut-in pressure 148 after 30 min; final shut-in pressure 142 after 45 min; weak blow decreased to very weak by end of test
DST-02	5601-5620	40 ft highly gas-cut mud; initial shut-in pressure 263 after 30 min; final shut-in pressure 1498
DST-03	7830-7909	Packers failed
DST-04	7830-7909	Misrun
DST-05	8050-8065	365 ft mud; initial shut-in pressure 447; final shut-in pressure 469 after 45 min; fair blow throughout test
DST-06	8290-8315	360 ft mud; initial shut-in pressure 171 after 45 min; final shut-in pressure 171 after 45 min; weak blow dead in 10 min

10. El Paso Natural Gas 1 Hells Gulch
    API 05-077-05150-00

DST-01	3944-3967	Gas to surface in 5 min at 134,000 cubic ft gas per day; gas to surface at 77,000 cubic ft gas per day at end of test; 125 ft gas-cut mud; initial shut-in pressure 1925; final shut-in pressure 1685 after 30 min
DST-02	4142-4184	270 ft slightly gas-cut mud; initial shut-in pressure 475 after 30 min; final shut-in pressure 370 after 45 min
DST-03	4554-4577	200 ft highly oil- and gas-cut mud; gas to surface in 2 min; initial shut-in pressure 2090; final shut-in pressure 1155 after 1 h
DST-04	5016-5036	60 ft mud; initial shut-in pressure 430 after 45 min; final shut-in pressure 335 after 30 min; opened with weak blow
DST-05	5538-5636	120 ft gas-cut mud; gas to surface in 3 min; initial shut-in pressure 760 after 30 min; final shut-in pressure 525 after 30 min
DST-06	7808-7858	984 ft gas-cut mud; gas to surface immediately at 1,450,000 cubic ft gas per day; gas to surface at 310,000 cubic ft gas per day steady gauge; initial shut-in pressure 3653 after 30 min; final shut-in pressure 2600 after 1 h

DRILL HOLES

CROSS SECTION *C-C'* OF UPPER CRETACEOUS AND LOWER TERTIARY ROCKS, SOUTHERN PICEANCE CREEK BASIN, COLORADO

By

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1979

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