1400

1500

10

ENSON AND MONTIN
ALLEGOS CANYON UNIT #7
SEC. 30-28N-12W
SAN JUAN, NEW MEXICO
ELEV. 5703' K.B.

F.R.
1517'

0	NORMAL 100	0	LONG NORMAL 100
0	1000	0	1000
0	LATERAL 100		
0	1000		

AO = 1.5" 50

0 AM = 2" 50

ENSON AND MONTIN # 7 GALLEGOS CANYON UNIT
CULATION OF FORMATION WATER CONTENT FROM
ELECTRICAL LOG DATA

erval from 1402 to 1432

Average formation resistivity 17 ohm-meter (from electrical log)

Formation resistivity factor 21.0 (from curve developed from laboratory measurement of average porosity of 18.6%)

Formation water resistivity .10 ohm-meters (from laboratory measurement of chloride content)

Formation water content:

$$S = \left(\frac{(21.0)(.10)}{17}\right)^{.513} = 34\%$$

Interval from 1432 to 1458

Permeability too low to produce as evidenced by microlog.

Interval from 1458 to 1484

Average formation resistivity 3.5 ohm-meter (from electrical log)

Formation resistivity factor 22.0 (from curve developed from laboratory measurement of average porosity of 18.2%)

Formation water resistivity .10 ohm-meters (from laboratory measurement of chloride content)

Formation water content:

$$S = \left(\frac{(22.0)(.10)}{3.5}\right)^{.513} = 78.8\%$$