

O'BRIANT ENGINEERING

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ROBERT N. ENFIELD
FEDERAL "18" NO. 1
EDDY COUNTY, NEW MEXICO

WELL DATA (As of July 5, 1982)

TOTAL DEPTH: 10,025' K.B. (Driller) ELEVATION: 3289' K.B.
9,992' K.B. (Logger) 3271' G.L.

K.B. to G.L.: 18 feet

PLUG BACK DEPTH: 9982' K.B.

CASING: 5-1/2", 17#/ft., LT&C, bottom 44 joints N-80 casing
middle 151 joints J-55, top 45 joints N-80 casing.

CEMENT: Cemented with 850 sacks Halliburton Class "H"
cement 5# KCL/sk., .5 of 1% Halad 22, .3
of 1% CFR-2, 1/4# flocele/sk., (1.18 cu.ft./sk
yield, 15.2 #/gallon weight). Displaced
90 bbls started to bridge off, with 112 bbls
displaced bridged off with 4500# hole full,
left 4000' cement in pipe. Top of cement
calculated at 8800'.
On completion work drilled out cement in
5-1/2" casing to 9960'. Ran Bond Log, log
showed good cement back to 9235'. Cemented
with 760 sacks Halliburton Class "H" cement
50/50 pozmix with 2% gel, 5/10 of 1% CFR-
2 and 5# salt/sack, (1.27 cu.ft./sk yield,
14/3#/gallon weight). Circulated cement
to surface. Temperature survey showed top
of cement at 5800'.

PERFORATIONS: 1 at each interval 9713', 9715', 9717', 9725',
9727', 9730', 9735', 9737', 9739', 9745',
9749', 9751', 9759', 9769'.

TREATMENT: 4500 gallons 7-1/2% MS-Acid and 135,000 SCF
of Nitrogen.

FRAC: 1000 gallons 7-1/2% MS-Acid
3000 gallons frac fluid and CO2 as pad.
Total frac 19,500 gallons frac fluid and
5,000# 100 mesh sand and 20,000# 20/40 sand.