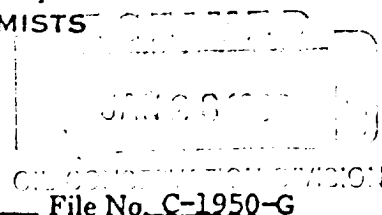


SOUTHWESTERN LABORATORIES  
FORT WORTH · DALLAS · HOUSTON · MIDLAND · BEAUMONT · TEXARKANA

CONSULTING, ANALYTICAL CHEMISTS  
AND TESTING ENGINEERS



Midland Texas 6-21-79

File No. C-1950-G

Report of tests on Gas

To Bennett Petroleum Corp.

Date Rec'd. 5-30/6-6-79

Received from

Identification Marks Phelps Dodge Lease, Well No. 3-Y

Test Conditions:

|                                                    | <u>Well 3-Y</u>                | <u>Well 3</u>                  |
|----------------------------------------------------|--------------------------------|--------------------------------|
| Observed 18 hr. shut-in pressure                   | 7.2" water<br>(11.26 psia)     | 7.2" water<br>(11.26 psia)     |
| Reported shut-in pressure, 11-77                   | Approx. 30 oz/in. <sup>2</sup> | Approx. 35 oz/in. <sup>2</sup> |
| Stabalized flow, 0.75" orifice, 2" tester          | 0.20" water<br>(11.007 psia)   | 0.20" water<br>(11.007 psia)   |
| Stabalized Flow Rate at 0.2" water (0.75" orifice) | 5770 MSCFD                     | 5770 MSCFD                     |
| Vacuum Test                                        | 4.0" Mercury<br>(9.036 psia)   | _____                          |
| Duration of Vacuum Test                            | _____                          | _____                          |

\_\_\_\_\_ 51 hrs.

Gas Production:

30 MSCFD appears to be a reasonable estimate of production at 4.0 inches of mercury vacuum. This estimate was made by extrapolating the plot of, 1/Test hours vs. declining production rate, to zero. (Petroleum Production Handbook).

By the equation  $Q = c(P_e^2 - P_x^2)^n$  it is estimated that 7.0 inches of Hg vacuum would produce 40 MSCFD and 50 MSCFD at 10.0 inches of mercury. The assumption that the reservoir is of a reasonable size has to be made for these estimates to have any validity. No estimate of reserves can be made from the low pressure test data available.

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*Jack H. Barton*

Lab. No. 43032