



# COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE EXPRESS 3-3813

611 GRIMES

P. O. BOX 1829

HOBBS, NEW MEXICO

DECEMBER 30, 1968

PENNZOIL UNITED, INC.  
P. O. DRAWER 1828  
MIDLAND, TEXAS

RE: HUDSON 29 FEDERAL No. 2  
UNDESIGNATED MORROW GAS  
4-POINT BACK PRESSURE TEST  
AND GAS SAMPLE & ANALYSIS

GENTLEMEN:

IN COMPLIANCE WITH YOUR INSTRUCTIONS A 4-POINT BACK PRESSURE TEST WAS CONDUCTED AND A SAMPLE TAKEN DURING THE FLOW PERIOD. THE ABSOLUTE OPEN FLOW WAS CALCULATED TO BE 7100 MCF/D. THE AVERAGE GAS PRODUCTION WAS RECORDED AS 1956.4 MCF/D WITH 22.80 BO/D AND THE SAMPLE YIELDED COMPONENT PERCENTAGES AS FOLLOWS:

|                  |       |
|------------------|-------|
| CARBON DIOXIDE   | 0.56  |
| NITROGEN         | 0.44  |
| OXYGEN           | 0.00  |
| HYDROGEN SULFIDE | 0.00  |
| HYDROGEN         | 0.00  |
| METHANE          | 86.48 |
| ETHANE           | 8.47  |
| PROPANE          | 2.98  |
| ISO-BUTANE       | 0.29  |
| NORMAL BUTANE    | 0.53  |
| ISO-PENTANE      | 0.09  |
| NORMAL PENTANE   | 0.08  |
| HEXANES PLUS     | 0.08  |

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|       |        |
|-------|--------|
| TOTAL | 100.00 |
|-------|--------|

|                        |        |
|------------------------|--------|
| CALCULATED SP. GR.     | 0.6481 |
| CALCULATED BTU SAT DRY | 1136   |
| CALCULATED BTU SAT WET | 1116   |

VERY TRULY YOURS

COLEMAN PETROLEUM ENG. CO.

*Joe A. Coleman*  
JOE A. COLEMAN