



# COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE EXPRESS 3-3813

611 GRIMES

P. O. BOX 1829

HOBBS, NEW MEXICO

MARCH 23, 1971

MOBIL OIL CORPORATION  
P. O. Box 633  
MIDLAND, TEXAS

RE: VACUUM MORROW GAS  
BRIDGES STATE, No. 151  
4-POINT BACK PRESSURE  
TEST, GAS SAMPLE &  
ANALYSIS TEST

GENTLEMEN:

IN COMPLIANCE WITH YOUR INSTRUCTIONS, A 4-POINT BACK PRESSURE TEST WAS CONDUCTED, AND THE ABSOLUTE OPEN FLOW POTENTIAL WAS CALCULATED TO BE 3450 MCF/D. THE AVERAGE GAS PRODUCTION WAS RECORDED AS 1382.2 MCF/D WITH 261.6 BO/D, AND A RESULTING GOR OF 5284 CF GAS/BO. THE AVERAGE GAS PRODUCTION FOR THE 24 HOUR PRODUCTION TEST WAS RECORDED AS 1849.1 MCF/D WITH 387.36 BO/D AND A RESULTING GOR OF 4774 CF GAS/BO.

THE SAMPLE TAKEN DURING TEST YIELDED COMPONENT PERCENTAGES AS FOLLOWS:

|                        |               |
|------------------------|---------------|
| CARBON DIOXIDE         | 0.29          |
| NITROGEN               | 0.99          |
| OXYGEN                 | 0.00          |
| HYDROGEN SULFIDE       | 0.00          |
| METHANE                | 36.64         |
| ETHANE                 | 7.64          |
| PROPANE                | 3.16          |
| ISO-BUTANE             | 0.29          |
| NORMAL BUTANE          | 0.62          |
| ISO-PENTANE            | 0.11          |
| NORMAL PENTANE         | 0.10          |
| HEXANES PLUS           | 0.16          |
| TOTAL                  | <u>100.00</u> |
| CALCULATED SP. G.      | 0.6493        |
| CALCULATED BTU SAT DRY | 1135          |

VERY TRULY YOURS

COLEMAN PETROLEUM ENG. CO.

*Joe A. Coleman*  
JOE A. COLEMAN

ENCLOSURES;