

E. W. B. & D. CO. INC.

COLUMBIAN PETROLEUM ENGINEERING COMPANY

PHONE EXPRESS 3-3813

511 GRIMES

P. O. BOX 1829

ARTEZIA, NEW MEXICO

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M. L. BROWN
300 MIDLAND TOWER BLDG.
MIDLAND, TEXAS 79701

RE: COLUMBIAN PETROLEUM ENGINEERING COMPANY
YATES FEDERAL, OIL
4-POINT BACK
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 4600 MCF/D. THE AVERAGE GAS PRODUCTION WAS RECORDED AS 2063.5 MCF/D WITH 30.96 BO/D, WITH A RESULTING GOR OF 30651 CF Gas/BO.

THE SAMPLE TAKEN DURING TEST YIELDED COMPONENT PERCENTAGES AS FOLLOWS:

CARBON DIOXIDE	0.79
NITROGEN	0.24
OXYGEN	0.00
HYDROGEN SULFIDE	0.00
METHANE	91.10
ETHANE	5.42
PROPANE	1.55
ISO-BUTANE	0.00
NORMAL BUTANE	0.00
ISO-PENTANE	0.28
NORMAL PENTANE	0.31
HEXANES PLUS	0.00

TOTAL 100.00

CALCULATED SP. G.	0.6169
CALCULATED BTU SAT. DRY	1085
CALCULATED BTU SAT. WET	1066

RECEIVED

NOV 12 1970

U. S. GEOLOGICAL SURVEY
ARTEZIA, NEW MEXICO

VERY TRULY YOURS

COLUMBIAN PETROLEUM ENGINEERING COMPANY
John A. Coleman
JOHN A. COLEMAN