



COLEMAN PETROLEUM ENGINEERING COMPANY

PHONE EXPRESS 3-3813

611 GRIMES

P. O. BOX 1829

HOBBS, NEW MEXICO

RECEIVED

AUG 20 1970
U. S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO

AUGUST 10, 1970

PERNZOIL UNITED, Inc.
P. O. DRAWER 1828
MIDLAND, TEXAS

RE: UNDESIGNATED BOAS SPRINGS
O'NEILL FEDERAL, No. 1
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 2120 MCF/D. THE AVERAGE GAS PRODUCTION WAS RECORDED AS 776.5 MCF/D WITH 24.0 BO/D, WITH A RESULTING GOR OF 32354 CF GAS/BO.

THE SAMPLE TAKEN DURING TEST YIELDED COMPONENT PERCENTAGES AS FOLLOWS:

CARBON DIOXIDE	4.69
NITROGEN	1.44
OXYGEN	0.00
HYDROGEN SULFIDE	NIL
METHANE	79.58
ETHANE	8.78
PROPANE	3.57
ISO-BUTANE	0.43
NORMAL BUTANE	0.90
ISO-PENTANE	0.28
NORMAL PENTANE	0.22
HEXANES PLUS	0.29

TOTAL 100.00

CALCULATED SP. G.	0.7165
CALCULATED BTU SAT DRY	1123
CALCULATED BTU SAT WET	1193

VERY TRULY YOURS
COLEMAN PETROLEUM ENGINEERING COMPANY

John A. Coleman
JOHN A. COLEMAN

ENCLOSURE

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AUG 21 1970

D. C. I
ARTESIA, N. M.

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