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P. O. Box 2406
Hobbs, New Mexico

February 6, 1959

New Mexico Oil Conservation Commission
District I
P. O. Box 2045
Hobbs, New Mexico

Gentlemen:

Attached are the Packer Leakage Test, Bottom Hole Pressure Test and a diagrammatic sketch of the equipment that was installed in Magnolia's Stephens Estate Well No. 1 in Unit "L" of Section 24, Township 21 South and Range 37 East. It is the belief of Mr. J. M. McGee that the packer is not leaking although the pressure on the Wantz Abo tubing was not consistent on the second buildup. Mr. McGee observed that the stuffing box began to leak on the Wantz Abo tubing during the second buildup period. All efforts to tighten the packing and rams on the stuffing box failed. The Wantz Abo tubing has a sucker rod pump at 7,086 feet which agitates flow from the Abo zone. It is believed that the bleeding of the gas through the stuffing box of the Wantz Abo tubing allowed the well to load with fluid and finally killed it, thus allowing the tubing pressure to bleed off.

The bottom hole pressure test in the Stephens Estate No. 1 on the Blinebry zone was 1,325 pounds per square inch. This pressure compares with the initial pressure, 1,325 pounds per square inch, on the offset well, Stephens Estate No. 2, which is in the Terry Blinebry Pool. These two bottom hole pressures being the same also indicates that the packer in Stephens Estate No. 1 is not leaking. It was not possible to obtain a bottom hole pressure on the Wantz Abo zone because this zone is pumped by a sucker rod pump.

The gravity of the oils and the gas-oil ratios and gas-fluid ratios are as follows:

CH 100 - 10000

10000

10000

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10000

New Mexico OCC

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<u>Zone</u>	<u>Wantz Abo</u>	<u>Terry Blinbry</u>
Gravity	42.2	42.7
GOR	930:1	16,613:1
GFR	865:1	16,100:1
BHP	Pumping	1,325

Yours very truly,

MAWOLIA PETROLEUM COMPANY

ORIGINAL SIGNED BY

C. T. EVANS

C. T. Evans

District Petroleum Engineer

JMM:kb
Attachments

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