

STATE OF KANSAS - CORPORATION COMMISSION
 PRODUCTION TEST & GOR REPORT

15-171-20581-00-00
 Form C-5 Rev.

Conservation Division
 TYPE TEST: Initial Annual Workover Reclassification TEST DATE: 11-19-03
 Company: Ritchie Exploration Lease: Pembers Well No. 110
 County: Scott Location: 110N & N2-SE-SE Section: 11 Township: 17 Range (T/W): 31 Acres:
 API Well Number: 15- Reservoir(s): Gas Pipeline Connection: NCR
 Completion Date: Type of Completion (Describe): Single Plug Back T.D.: Packer Set At:

Lifting Method: None Pumping Type Liquid: 0.1 API Gravity of Liquid/Oil: 38.4
 Casing Size: 5 1/2 Weight: LD. Set At: 4620' Perforations: To: 4370'
 Tubing Size: 2 3/8 Weight: LD. Set At: 4540' Perforations: To:

Pretest:
 Starting Date: Time: AM/PM Ending Date: Time: AM/PM
 Test:
 Starting Date: 11-18-03 Time: 3:00 AM/PM Ending Date: 11-19-03 Time: 3:00 AM/PM

OIL PRODUCTION OBSERVED DATA

Bbls./In.	Stock Tank		Starting Gauge			Ending Gauge			Net API Bbls.	
	Size	Number	Feet	Inches	Barrels	Feet	Inches	Barrels	Water	Oil
Pretest:										
Test:	200	32690	2'	6"	50.06	3'	0"	60.12	0	10
Test:										

GAS PRODUCTION OBSERVED DATA

Type Measuring Device	Entry Size	Orifice Size	Meter-Prover-Tester Pressure					Diff. Press. (h _w) or (h _d)	Gas Gravity (G _p)	Flowing Temp. (t)
			In. Water	In. Merc.	Psig or (P _d)	%CO ₂	H ₂ Sppm			
Orifice Meter										
Critical Flow Prover										
MERLA Well Tester										

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 CONSERVATION DIVISION WICHITA, KS

GAS FLOW RATE CALCULATIONS (R)

Cocff. MCFD (F ₁) (F ₂)	Meter-Prover Press. (Psia) (P _m)	Press. Extension $\sqrt{h_w \cdot P_m}$	Gravity Factor (F _g)	Flowing Temp. Factor (F _t)	Deviation Factor (F _{pv})	Sqr. Rt. Chart Factor (F _d)

Gas Prod. MCFD Flow Rate (R): Oil Prod. Bbls./Day: 10 bbl Gas/Oil Ratio (GOR) = Cubic Feet per Bbl.

The undersigned authority, on behalf of the Company, states that he is duly authorized to make the above report and that he has knowledge of the facts stated therein, and that said report is true and correct. Executed this 19th day of November 2003

Kevin D. Stolt
 For Operator

For Commission

[Signature]
 For Company