

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Blanco MV Formation Mesa Verde County Rio Arriba
Initial Yes Annual _____ Special _____ Date of Test 9-11-58
Company Caulkins Oil Company Lease Breesh "F" Well No. MV-12
Unit A Sec. 35 Twp. 27N Rge. 6W Purchaser No Pipe Line
7-5/8" 26.4 6-967 3391
Casing 5 1/2 Wt. 15.5 I.D. 4.950 Set at 3323-5670 Perf. 4925 To 5622
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 5506 Perf. None To _____
Gas Pay: From 4925 To 5622 L 5506 xG .660 -GL 3634 Bar.Press. 12
Producing Thru: Casing _____ Tubing Yes Type Well Gas-Gas Dual - MV & PC
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 9-11-58 Packer 3300 Reservoir Temp. 125

OBSERVED DATA

Tested Through (Prover) (Choke) (None) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						<u>980</u>				<u>SI 7 days</u>
1.		<u>3/4"</u>	<u>243</u>		<u>75</u>	<u>243</u>				<u>3 hour test</u>
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.	<u>14.1605</u>		<u>255</u>	<u>.9859</u>	<u>.9535</u>	<u>1.016</u>	<u>3448</u>
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 9.936 (1-e^{-s}) 0.221
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 992 P_c² 984.1

No.	$\frac{P_w}{F_t}$ (psia)	P _t ²	F _c Q	(F _c Q) ²	$\frac{(F_c Q)^2}{(1-e^{-s})}$	P _w ²	P _c ² -P _w ²	Cal. P _w	$\frac{P_w}{P_c}$
1.	<u>255</u>	<u>65.0</u>	<u>34.26</u>	<u>1173.74</u>	<u>259.39</u>	<u>324.9</u>	<u>659.2</u>	<u>570</u>	<u>.575</u>
2.									
3.									
4.									
5.									

Absolute Potential: 4650 MCFPD; n (1.493)^{.75} = 1.3486

COMPANY Caulkins Oil Company
ADDRESS Box 967, Farmington, New Mexico
AGENT and TITLE Frank Gray, Field Supt.
WITNESSED James R. Gaudoyt
COMPANY Southern Union Gas Company

REMARKS

Shut in casing and tubing pressure on Pictured Cliffs zone during this test was 926 steady.

