

3 NMCCC
1 Reese
1 El Paso
1 Fils

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Escrito Exten. Formation Gallup County Rio Arriba
Initial I Annual _____ Special _____ Date of Test 10-3-58
Company Val R. Reese & Associates, Inc. Lease Brown Well No. 1-24
Unit I Sec. 24 Twp. 24N Rge. 7W Purchaser _____
Casing 5-1/2" Wt. 14 I.D. _____ Set at 5616 Perf. 5526 To 5246
Tubing 2-3/8" Wt. 4.7 I.D. _____ Set at 5515 Perf. Open end To _____
Gas Pay: From 5526 To 5246 L _____ xG 0.680 -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing I Type Well Single
Single-Bradenhead-G.G. or G.O. Dual
Date of Completion: _____ Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) 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						1632		1629		
1.										
2.		3/4"	136		560			420		3 Hrs.
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_w P_f}$	Pressure psia	Flow Temp. Factor F _t	Gravity Factor F _g	Compress. Factor F _{pv}	Rate of Flow Q-MCFPD @ 15.025 psia
1.							
2.	12.3650		148	1.0039	.9393	1.018	1757
3.							
4.							
5.							

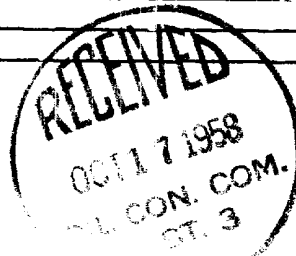
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1644 P_c 2703

No.	$\frac{P_w}{P_t}$ (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.									
2.									
3.	432					187	2516		1.074
4.									
5.									

Absolute Potential: 1867 MCFPD; n .85 1.0626
COMPANY Val R. Reese & Associates, Inc.
ADDRESS 120 So. Commercial Farmington, New Mexico
AGENT and TITLE T. A. Dugan Consulting Engineer Original signed by T. A. Dugan
WITNESSED _____
COMPANY _____

REMARKS



INSTRUCTIONS

This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

The log log paper used for plotting the back pressure curve shall be of at least three inch cycles.

NOMENCLATURE

Q = Actual rate of flow at end of flow period at W. H. working pressure (P_w).
MCF/da. @ 15.025 psia and 60° F.

P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
psia

P_w = Static wellhead working pressure as determined at the end of flow period.
(Casing if flowing thru tubing, tubing if flowing thru casing.) psia

P_t = Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia

P_f = Meter pressure, psia.

h_w = Differential meter pressure, inches water.

F_g = Gravity correction factor.

F_t = Flowing temperature correction factor.

F_{pv} = Supercompressability factor.

n = Slope of back pressure curve.

Note: If P_w cannot be taken because of manner of completion or condition of well, then P_w must be calculated by adding the pressure drop due to friction within the flow string to P_t .

OIL CONSERVATION COMMISSION		
AZTEC DISTRICT OFFICE		
No. Copies Received	3	
DATE		
TIME		
BY		
FILED	1	
FILED		

VAL R. REESE & ASSOCIATES, INC.

Company Val R. Reese & Associates, Inc.

Lease Well No.

Brown **1-24**

Date of Test

10-3-58

Shut in Pressure (PSIG): Tubing _____ Casing _____ S.I. Period _____ Days _____

1632

1629



Size Blow Nipple 3/4" Est. Gravity 0.680

Flow Through Working Pressures From

TEX.

Csg.

Time		Q (MCFD)	Wellhead Working Pressure (PSIG)	Temp
Hours	Minutes			
		15.025 PSIA & 60 F		

1 Hr.	305	742	
2 Hrs.	195	512	
3 Hrs.	136	420	56

Start At 10:10 A.M. End Test At 1:10 A.M.

10:10 A.M.

1:10 A.M.

Remarks: _____

Tank Gauge after 3 Hrs. 10' 6"

Produced 7 bbls. oil during test.

Tested By: T.A. Dugan

T.A. Dugan

Witness: _____

