

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Cavilan Formation Pictured Cliffs County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 10-20-58
Company Greenbrier Oil Company Lease Stevenson-Boring Well No. 1
Unit 0 Sec. 9 Twp. 25N Rge. 2W Purchaser _____
Casing 7" Wt. 20 & 23 I.D. _____ Set at 5308 Perf. 3575 To 3558
Tubing 2-7/8" Wt. 6.5 I.D. _____ Set at 3577 Perf. 3623 To 3567
Gas Pay: From 3558 To 3623 L _____ xG .600 -GL _____ Bar.Press. _____
Producing Thru: Casing _____ Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: 9-28-58 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Notes) _____

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. $^{\circ}\text{F.}$	Press. psig	Temp. $^{\circ}\text{F.}$	Press. psig	Temp. $^{\circ}\text{F.}$	
1.						825		825		
2.	3/4"		135		58			225		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.	12.2023		147	1.0019	1.000	1.011	1817
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
 P_c _____ (1-e^{-s})

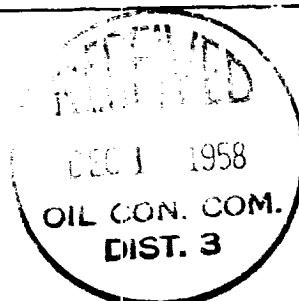
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
 P_c 837 P_c^2 700569

No.	P_w P_t (psia)	P_t^2	$F_c Q$	$(F_c Q)^2$	$(F_c Q)^2$ (1-e ^{-s})	P_w^2	$P_c^2 - P_w^2$	Cal. P_w	$\frac{P_w}{P_c}$
1.									
2.	237					56.2	644.4		1.087
3.									
4.									
5.									

Absolute Potential: 1951 MCFPD; n .85 1.074

COMPANY Greenbrier Oil Company
ADDRESS 19 La Plata Place, Durango, Colorado
AGENT and TITLE Harry J. Miller
WITNESSED _____
COMPANY Greenbrier Oil 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} = Supercompressibility 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 .

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