

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Undesignated Formation Pictured Cliffs County Rio Arriba
Initial X Annual _____ Special _____ Date of Test 10-22-60
Company August & Wagnerseller Lease Jicarilla Apache Well No. 156 A-1
Unit D Sec. 6 Twp. 23N Rge. 2W Purchaser El Paso Natural Gas Co.
Casing 4 1/2 Wt. 9.5 I.D. 4.000 Set at 3109 Perf. 3014 To 3050
Tubing 2 3/8 Wt. 4.7 I.D. 1.995 Set at 3070 Perf. 3070 To _____
Gas Pay: From 3014 To 3050 L 3070 xG 0.05 -GL 1996 Bar.Press. 12.0
Producing Thru: Casing _____ Tubing X Type Well Single
Date of Completion: 10-11-60 Packer _____ Reservoir Temp. 125
Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (Borehole) (Choke) (Mach) Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Borehole) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h_w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						814		961		SI
1.										
2.										
3.	2	3/4	30		63			98		3 hrs.
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.							
3.	12.355		42	0.9971	0.9606	1.000	498
4.							
5.							

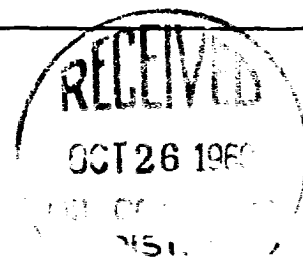
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
 P_c 9.402 $(1-e^{-S})$ 0.135
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
 P_c 973 P_c^2 946,729

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	P_w / P_c
1.									
2.									
3.						12.100	934.029		1.013
4.									
5.									

Absolute Potential: 499 MCFPD; n 0.85/1.0026
COMPANY August & Wagnerseller
ADDRESS 170 So. Beverly Drive, Beverly Hills, California
AGENT and TITLE Morris B. Jones, Consulting Engineer M. B. JONES
WITNESSED John J. August
COMPANY August & Wagnerseller

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 .

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OIL CONSERVATION COMMISSION	
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