

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool CANYON LARGO Formation PICTURED CLIFFS County RIO ARriba
Initial X Annual _____ Special _____ Date of Test 11-1-57
Company PETRO-ATLAS CORPORATION Lease BOLACK "B" Well No. 2
Unit 8 Sec. 1 Twp. 24N Rge. 6W Purchaser EL PASO NATURAL GAS COMPANY
Casing 5½" Wt. 15.5# I.D. _____ Set at 2515 Perf. 2378 To 2436
Tubing 1½" Wt. 2.4# I.D. _____ Set at 2433 Perf. 2423 To 2428
Gas Pay: From 2378 To 2470 L _____ xG 0.650 -GL _____ Bar.Press. 12
Producing Thru: Casing X Tubing _____ Type Well Single Gas
Date of Completion: 6-21-57 Packer - Single-Bradenhead-G. G. or G.O. Dual
Reservoir Temp. _____

OBSERVED DATA

Tested Through (RODVAL) (Choke) (Master) 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.	
1.		3/4	24		68	650		651		3 hours
2.						25		24	68	
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.	14.1605		36	0.9924	0.9608	1.010	491
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

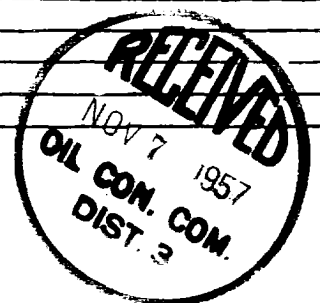
Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s})

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 663 P_c 439,569

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.						1.296	438.273		
2.									
3.									
4.									
5.									

Absolute Potential: 492 MCFPD; n 0.85
COMPANY PETRO-ATLAS CORPORATION
ADDRESS 729 East Main Street, Farmington, New Mexico
AGENT and TITLE Virgil L. Stoabs, Engineer
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} = 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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