

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tapicito Formation Pictured Cliffs County Rio Arriba
 Initial X Annual _____ Special _____ Date of Test 9-19-56
 Company Honolulu Oil Corporation Lease Hearilla Well No. 6
 Unit _____ Sec. 3 Twp. 26N Rge. 1W Purchaser Southern Union
 Casing 5 1/2 Wt. 14 I.D. _____ Set at 3810 Perf. 3686 To 3710
 Tubing 2" Wt. 4.70 I.D. _____ Set at 3723 Perf. - To -
 Gas Pay: From 3686 To 3710 L _____ xG .720 -GL _____ Bar.Press. 12
 Producing Thru: Casing _____ Tubing X Type Well Single
 Date of Completion: 9-19-56 Packer None Reservoir Temp. 110°
 Single-Bradenhead-G. G. or G.O. Dual

OBSERVED DATA

Tested Through (~~2 1/2~~) (Choke) (~~2 1/2~~) Type Taps _____

No.	Flow Data			Tubing Data		Casing Data		Duration of Flow Hr.		
	(2 1/2) (Line) Size	(Choke) (2 1/2) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.		Press. psig	Temp. °F.
1.	<u>2</u>	<u>.750</u>				<u>1019</u> <u>159</u>	<u>60</u> <u>63</u>	<u>1019</u> <u>319</u>	<u>60</u>	<u>3 hours</u>
2.										
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.	<u>12.3650</u>		<u>171</u>	<u>.9971</u>	<u>.9129</u>	<u>1.022</u>	<u>1966.99</u>
2.							
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 .720
 P_c 1061 P_c² 1125

No.	P _w (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.	<u>311</u>					<u>109</u>	<u>1016</u>		
2.									
3.									
4.									
5.									

Absolute Potential: 2115 MCFPD; n .85

COMPANY Honolulu Oil Corporation
 ADDRESS Drewes 1391, Midland, Texas
 AGENT and TITLE G. A. Evans, Division Gas Engineer G. B. Evans
 WITNESSED [Signature]
 COMPANY Southern Union Gas Co.

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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