

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Tapecito Pictured Cliffs Formation Pictured Cliffs County Rio Arriba
Initial I Annual _____ Special _____ Date of Test July 17, 1956
Company Honolulu Oil Corporation Lease Jicarilla Apache Well No. 3
Unit K Sec. 9 Twp. 20N Rge. 4W Purchaser Southern Union Gas Company
Casing 5 1/2" Wt. 114 I.D. 5.012 Set at 3910' Perf. 3805' To 3835'
Tubing 2 3/8 Wt. 4.70 I.D. 1.995 Set at 3839 Perf. Open end To -
Gas Pay: From 3805 To 3835 L _____ xG .645 -GL _____ Bar.Press. 12 PSIA
Producing Thru: Casing _____ Tubing X Type Well Single Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: June 15, 1956 Packer None Reservoir Temp. 110°

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) Type Taps _____

Flow Data						Tubing Data		Casing Data		Duration of Flow Hr.
No.	(Prover) (Line) Size	(Choke) (Orifice) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI										
1.		<u>.750</u>	<u>995</u>		<u>30</u>	<u>1074</u>	<u>30</u>	<u>1074</u>		<u>3 hrs.</u>
2.										
3.										
4.										
5.										

FLOW CALCULATIONS

No.	Coefficient (24-Hour)	$\sqrt{h_{wpf}}$	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>12.3850</u>		<u>607</u>	<u>1.0382</u>	<u>.9498</u>	<u>1.116</u>	<u>8.16</u>
2.							
3.							
4.							
5.							

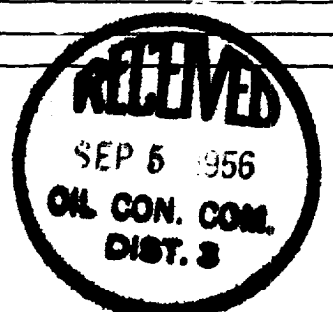
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio None cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1086 P_c² 1179

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.						<u>1086</u>	<u>175</u>		<u>.9116</u>
2.									
3.									
4.									
5.									

Absolute Potential: 12,500 MCFPD; n .85
COMPANY HONOLULU OIL CORPORATION
ADDRESS P. O. DRAWER 1391, MIDLAND, TEXAS
AGENT and TITLE John C. Edwards Division Production Engineer
WITNESSED Linda Ferran
COMPANY SOUTHERN UNION GAS 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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