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Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Wildcat Formation Dakota County Rio Arriba
 Initial x Annual _____ Special _____ Date of Test 8-31-59
 Company Kern County Land Co. Lease Harvey State Well No. 1
 Unit N Sec. 36 Twp. 25N Rge. 6W Purchaser _____
 Casing 7" Wt. 20423 I.D. _____ Set at 7166 Perf. 6974 To 7044
 Tubing 2 3/8" Wt. 4.7 I.D. _____ Set at 7000 Perf. open end To _____
 Gas Pay: From 6974' To 7044' L 7000 xG .700 -GL 4900 Bar.Press. _____
 Producing Thru: Casing _____ Tubing x Type Well G.G. Dual
 Single-Bradenhead-G. G. or G.O. Dual
 Date of Completion: 7-14-59 Packer Baker Model D Reservoir Temp. _____

OBSERVED DATA

Tested Through (~~Prover~~) (Choke) (~~Prover~~) 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.	
1.						2289		
2.								
3.		3/4"	492		77°			
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.	12.3650		504	0.9887	.9258	1.066	6082
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
 Gravity of Liquid Hydrocarbons _____ deg.
 P_c 9.402 (1-e^{-s}) .300
 Specific Gravity Separator Gas _____
 Specific Gravity Flowing Fluid _____
 P_c 2301 P_c 5295

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.	504	254	57.183	3269	981	1235	4060		1.301
3.									
4.									
5.									

Absolute Potential: 7410 MCFPD; n .75 1.2183
 COMPANY Kern County Land Co.
 ADDRESS 1600 California Street San Francisco, California
 AGENT and TITLE 2.A. Hugo Consulting Engineer
 WITNESSED Tom Smith
 COMPANY N.M.O.C.C.

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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