

NEW MEXICO OIL CONSERVATION COMMISSION

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SEP 26 1961

OIL CONSERVATION Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool UNION P.C. Formation PICTURED CLIFF County RIO ARriba, N.M.
Initial X Annual _____ Special _____ Date of Test 4/20/1961
Company SHAR-ALAN OIL COMPANY Lease BUFF-00717 1403453 Well No. 1-A
Unit NE/4 Sec. 22 Twp. 24N Rge. 1W Purchaser _____
Casing 4 1/2 Wt. 9.54 I.D. _____ Set at 3010 Perf. 2960 To 2980
Tubing 1" Wt. 2.54 I.D. _____ Set at 2951 Perf. _____ To _____
Gas Pay: From 2960 To 2980 L 2960 xG .65 -GL 1924 Bar.Press. _____
Producing Thru: Casing X Tubing _____ Type Well SINGLE
Single-Bradenhead-G. G. or G.O. Dual _____
Date of Completion: 9-27-60 Packer NONE Reservoir Temp. _____

OBSERVED DATA

Tested Through (PICTURED) (Choke) (MEKES) 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.	2"	3/4	204		52			876		3 hr
2.								204		
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.	12.365		216	1.0098	.9035	1.036	2,521
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c 1.660 (1-e^{-s}) 0.124
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 888 P_c² 788

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.	216	46.65	4.184	17.50	2.170	46.82	739		
2.									
3.									
4.									
5.									

Absolute Potential: 2,700 MCF/D MCFPD; n .65COMPANY WARD AND JAMESON ENGR. CO.ADDRESS 109 EAST 35TH, PASADENA, N.M.AGENT and TITLE PAT JAMESON ENGR.WITNESSED RICHARD S. HUNT - MANAGER OF LANDS AND EXPLORATIONCOMPANY SHAR-ALAN OIL CO., BOX 1429, DURANGO, COLORADO

REMARKS

INSTRUCTIONS

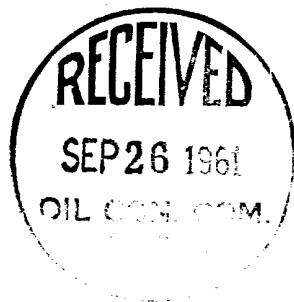
This form is to be used for reporting multi-point back pressure tests on gas wells in the State, except those on which special orders are applicable. Three copies of this form and the back pressure curve shall be filed with the Commission at Box 871, Santa Fe.

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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