

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 7/29/57
Company Clark & Cowden Lease Federal Well No. 11-2
Unit X Sec. 11 Twp. 25N Rge. 3W Purchaser
Casing 5½" Wt. I.D. Set at 3905 Perf. To
Tubing 2½" Wt. I.D. Set at 3850 Perf. To
Gas Pay: From 3852 To 3880 L. 3850 xG .670(est) -GL 2580 Bar.Press.
Producing Thru: Casing Tubing X Type Well Single
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: Packer Reservoir Temp.

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						1048		1048		
1.		3/4"	566		20					7 Days
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.	14.1605		578	1.0408	.9463	1.077	8682
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

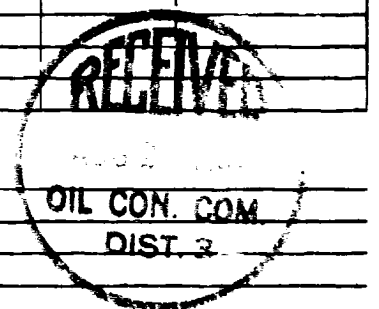
Gas Liquid Hydrocarbon Ratio cf/bbl.
Gravity of Liquid Hydrocarbons deg.
F_c 5,551 (1-e^{-s}) 0.171
Specific Gravity Separator Gas
Specific Gravity Flowing Fluid
P_c 1060 P_c 1,123,600

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.	578	334,084	48,194	2,322,633	397,170	731,254	392,575	8.55	.8066
2.									
3.									
4.									
5.									

Absolute Potential: 21,222 MCFPD; n .85

COMPANY Geoelectric, Inc.
ADDRESS 122 N Mesa Verde Artee, N. M.
AGENT and TITLE B. H. Keyes Agent
WITNESSED D. W. Stiles
COMPANY Geoelectric, Inc

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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