

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blanco P. C. Formation Pictured Cliffs County Rio Arriba
Initial I Annual _____ Special _____ Date of Test 7-21-58
Company Southern Union Gas Co. Lease Jicarilla Well No. 3-J
Unit _____ Sec. 26 Twp. 26 Rge. 5 Purchaser Southern Union Gas Co.
Casing 5 1/2" Wt. 15.5 I.D. 4.950 Set at 3162 Perf. 3108 To 3058
Tubing 2-3/8" EUE Wt. 4.7 I.D. 1.995 Set at 3030 KB Perf. 3015 To 3030
Gas Pay: From 3108 To 3058 L 3015 xG 0.67 -GL 2020 Bar.Press. 12.0
Producing Thru: Casing _____ Tubing I Type Well Single-Gas
Single-Bradenhead-G. G. or G.O. Dual
Date of Completion: 7-10-58 Packer _____ Reservoir Temp. _____

OBSERVED DATA

Tested Through ~~Prover~~ (Choke) ~~XXXXXX~~ Type Taps _____

No.	Flow Data					Tubing Data		Casing Data		Duration of Flow Hr.
	(Prover) (Line) Size	(Choke) (XXXXXX) Size	Press. psig	Diff. h _w	Temp. °F.	Press. psig	Temp. °F.	Press. psig	Temp. °F.	
SI						1058		1058		9 days
1.		3/4"	219		660	219		540		3 hours
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.	12.3650		231	.9943	.9463	1.025	2.755
2.							
3.							
4.							
5.							

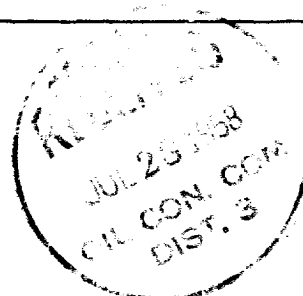
PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
P_c _____ (1-e^{-s})
Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c 1070 P_c² 1144.9
P_w 552 P_w 304.7

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.						304.7	811.2		516
2.									
3.									
4.									
5.									

Absolute Potential: 3.581 MCFPD; n 0.85
COMPANY Southern Union Gas Company
ADDRESS P. O. Box 815, Farmington, New Mexico
AGENT and TITLE G. L. Hoffman
WITNESSED _____
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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