NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool __Basin Dakota__ Formation __Dakota__ County __San Juan__

Initial __xx__ Annual _____ Special _____ Date of Test __11-30-62__

Company __Southern Union Production Co.__ Lease __Angel Peak__ Well No. __24-2__

Unit __B__ Sec. __13__ Twp. __28-North__ Rge. __11-West__ Purchaser __Southern Union Gas Company__

Casing __4½__ Wt. __10/50__ I.D. __4.052__ Set at __6761__ Perf. __6318__ To __6534__

Tubing __2__ Wt. __2.90__ I.D. __1.610__ Set at __6328__ Perf. __6313__ To __6328__

Gas Pay: From __6318__ To __6534__ L __6313__ xG __.700__ =GL __4419__ Bar.Press. __12.0__

Producing Thru: Casing _____ Tubing __xx__ Type Well __Single - Gas__
Single-Bradenhead-G. G. or G.O. Dual

Date of Completion: __11-23-62__ Packer __None__ Reservoir Temp. _____

OBSERVED DATA

Tested Through (Prover) (Choke) (Meter) 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.	
SI						1875		1876		7-Days
1.	2"	3/4	417		68	417	68	1630		3-Hours
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.	12.3650		429	.9924	.9258	1.050	5117
2.							
3.							
4.							
5.							

PRESSURE CALCULATIONS

Gas Liquid Hydrocarbon Ratio _____ cf/bbl.
Gravity of Liquid Hydrocarbons _____ deg.
F_c _____ $(1-e^{-s})$ _____

Specific Gravity Separator Gas _____
Specific Gravity Flowing Fluid _____
P_c __1888__ P_c^2 __3564.5__

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	$\dfrac{P_w}{P_c}$
1.						2696.2	868.3		.870
2.									
3.									
4.									
5.									

Absolute Potential: __14757__ MCFPD; n __.75__

COMPANY __Southern Union Production Company__
ADDRESS __Box 808, Farmington, New Mexico__
AGENT and TITLE __Verne Rockhold, Jr. Engineer__
WITNESSED __Verne Rockhold__
COMPANY __Southern Union Production Company__

REMARKS

CC: (3) New Mexico O. C. C.
(1) Mr. Rudy Motto
(1) Mr. Bob Corliss
(1) Mr. Paul Clete
(1) Mr. Len Maennink
(1) File

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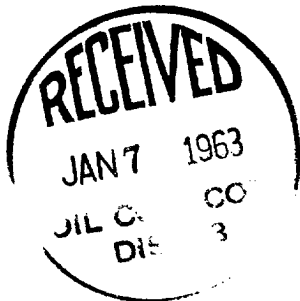
INSTRUCTIONS

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.