MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-5	5

Poc	ol Bl	anco Me	saver	de	Formation Mesaverde					County San Juan			
Initial XX Annual Special Date of Test 1-27-65													
Company Southern Union Production Lease Foster Well No. 4 Unit G Sec. 4 Twp. 26 North Rge. 8 West Purchaser El Paso Natural Gas Company													
Casing 5-1/2 Wt. 17.0# I.D. 4.892 Set at 7040 Perf. 4645 To 4808													
	Tubing 1-1/4 Wt. 2.30# I.D. 1.380 Set at 4750 Perf. 4750 To 4750												
	Gas Pay: From 4645 To 4808 L 4645 xG _GL _Bar.Press. 12.0												
	Producing Thru: Casing Tubing Type Well G. G. Dual Date of Completion: 12-17-64 Packer 6500 Reservoir Temp.												
Dat	e of	Complet	tion:	12-1	7-64	Packe	r 6500	Sir	ngle-Brade	enhead-G.	G. or	G.O. Dual	
			_		·					211 X 01111 -			
Tes	OBSERVED DATA Tested Through (Prover) (Choke) (Meter) Type Taps												
			:						<u> </u>				
			(Ch			. Diff.	Temp.		Data Temp.	Casing D	Temp.	Duration	
No.	,	(Line) Size		fice) Size	psig	h _w	o _F .	psig	o _F .	psig	o _F .	of Flow Hr.	
SI			 			 		928	 	979	<u> </u>	40 days	
1.					*			305		.lw water		3 hrs.	
2.			 			_			<u> </u>		ļ		
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<u>4.</u> 5.				··	╁───			 		<u> </u>	 	 	
FLOW CALCULATIONS													
	C	oeffici	lent	1	P	ressure			Gravity	Compre	ss.	Rate of Flow	
No.			hwi	h _{wPf} psia		Fac	actor Fac		or Factor		Q-MCFPD @ 15.025 psia		
7.	+		+ "-	WrI F				Fg	- PA		1149		
1. 2.				 						- 			
3。				1									
<u>4.</u> <u>5.</u>													
5.											I		
lac 1	PRESSURE CALCULATIONS												
		f Liqui		rocarbo	ons		deg.		Speci	fic Gravit	ty Flow	arator Gas ving Fluid	
	-		-		1-e ^{-s})				P _c		P2	ving Fluid	
					_				U				
	$P_{\mathbf{w}}$			2		/		2		_2 2			
No.	τ.	/	P	$ ilde{t} \mid {}^{ extsf{F}_{d}}$	cQ	$(F_cQ)^2$	(F	cQ) ² -e ^{-s})	P_{w}^2	$P_c^2 - P_w^2$		Pw Pc	
- 	۲t	(psia)					(1	-eo)			Į F	P _w P _c	
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5.	_					. ————				<u> </u>			
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COM	PANY_	Potent So	uthern	Union	Produ	ction Co	MCFPD;				all	FIACT	
ADDRESS P. O. Box 808 - Farmington, New Mexico Original Signed By AGENT and TITLE Verne Rockhold - Jr. Engineer VERME ROCKHOLD									1011				
WITNESSED Herman McAnally VERNE ROCKHOLD													
COMPANY													
cc: (3) New Mexico Oil Conservation Commission MARKS													
cc:	(1)	Mr. Par	al Clo	te			1611[1		Flowing	pressure	WAS THE	asured with	
cct		El Pas				_			a Pitot	tube1		of water at	
cc i	Proration Dept. El Paso, Texas end of ha line. cc: (1) Mr. H. L. Kindricks, Farmington, N.M.												
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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 I Actual rate of flow at end of flow period at W. H. working pressure ($P_{\rm W}$). MCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw- Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I 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_{+} .