NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pac	l Basin	Dakota		Formatie	on Dak	ota		County	San J	'um	
				nualSpecial							
Company Southern Union Production Co											
Unit B Sec. 21 Twp. 30-W Rge. 13-W Purchaser El Paso Natural Gas Company											
Casing 4-1/2 Wt. 10.50 I.D. 4.052 Set at 6218 Perf. 6047 To 613k											
Tubing 1-1/2 Wt. 2.90 I.D.				\ <u>-</u>		Perf. 6080		To 6090			
Gas Pay: From 60h7 To 613h L 6080 xG .735 -GL hh69 Bar.Press. 12.0											
Producing Thru: Casing Tubing II Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual											
Dat	e of Complet	ion:	12-13-6	Pack	cer	Sin	gle-Brade Reservo	nhead-G. ir Temp.	G. or	G.O. Dual	
						ED DATA		·			
Tested Through (Preser) (Choke) (Meter)						Type Taps					
	(Prover)		low Data	ta Press. Diff. Tem		Tubing	Data Temp.	Casing I	Data	Duration	
No.	(Line) Size	(Orif:	ice) p		1	Į i	•	ĺ	1	0 # 27 ov	
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1. 2.	2**	3,	/4 3	27	740	327	71.6	1073		3 hrs.	
<u>3</u> .									1		
4.											
<u> </u>		L							<u> </u>	<u> </u>	
	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow										
No.	(24-Hou	r) -	$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$	psia	Fac		Factor Fg	tor Factor		Q-MCFPD 15.025 psia	
1.	12.3650			339	.9868	<u> </u>	•90 3 5	1.011		3890	
2. 3.											
3. 4.											
5.				<u> </u>	J						
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas Gravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing Fluid C(1-e^{-8})P_C1011P_C1011											
No.	P _w	P _t ²	F _c Q	(F _c Q)	2 (F	cQ) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$		al. Pw Pw Pc	
1. 2.	- 0 (poza)						177.2	2866.9		510	
3. 4.										OFF FILE	
<u>4.</u> 5.									/	WERTHER	
	Nata Perant		5026		MORDD.					JAN 2 3 1964	
COMI	PANY Sou	thern t	Inion Pr	oduction C	OMD BRITT	n <u>.7</u>	2	- 	- م	OIL CON. COM.	
ADDRESS P. O. Ber. 808 - Farmington, New Mexico Original Signal Street S											
MIT!	VESSED	Herman	McAnall	A ekunta → A	r. engine	<u>cr</u>	VERNE	ROCKHOLD			
				Gas Compa		1525	· · · · · · · · · · · · · · · · · · ·				
	(1) Mr (1) E1 P	Paul Paso M O. Bo	x 1492,		roration Texas		an. W M				
	(2) Mr (1) F1	le	- AMERICA L	wang teve	Jun 7743	v ær∷urreR nc	ras merte				

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 ($P_{\rm W}$). MCF/da. @ 15.025 psia and 60° F.
- PcI 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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
- Pr Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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_+ .