MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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7)	aad	12-	1-55

Pool	Pool Basin Dakota Formation Dakota							County San Juan					
Init	ial	TK		_Annua	1		Spec	ial		Date of	Test	1-22-64	
Comp	any S	outh	ern Un:	ion Pr	oduct	lon Co. I	Lease	SANCHI	<u>:2</u>	Wel:	l No	3	
Unit L Sec. 34 Twp. 30-N Rge. 10-W Purchaser El Paso Natural Gas Company													
Casing h-1/2 Wt. 10.50 I.D. h.052 Set at 7031 Perf. 6764 To 6918													
Tubing 1-1/2 Wt.2.90 I.D. 1.610 Set at 6884 Perf. 6874 To 6884													
Gas Pay: From 676k To 6918 L 687k xG .730 -GL 5018 Bar. Press. 12.0													
Producing Thru: Casing Tubing XX Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 1-7-6k Packer Reservoir Temp.													
Date	of Co	mplet:	ion:_1	<u>-7-64</u>	<u> </u>	Packer				11 · 10mp · _			
							52	ED DATA		M Ma	_		
Test	ed Thr	ough			Choke)	(Mater)				Туре Тар	1 .		
				low Da		7 5:00 1			Data Temp.	Casing D	Temp	Duration	
No.			(Cho			. Diff.	Temp.		1	11699	1	of Flow	
NO.		11e / 2 e		ze.	psig	h _w	°F.	psig	°F.	psig	°F.		
SI								1981		2013		15 days	
1.	211		3/		220		720	220	720	1072	 	3 hrs.	
2.											* 		
3. 4.			<u> </u>										
5.									<u> </u>	<u> </u>			
							RTOM CAT	CULATION	S				
 	Coe	ffici	ent		F	ressure	Flow	Temp.	Gravity	Compre		Rate of Flow	
No.								ctor	Factor	the state of the s	or	Q-MCFPD 15.025 psia	
	(24-Hour) √ h		√ h _w	pf	psia Ft		Fg	F _{pv}		2613			
1. 2.	12	3650				232	.9857		.9066	1.00	·		
2.													
3. 4.													
4.													
								Calcuiat)		ific Grav	itv Sen	arator Gas	
Gas :	Liquid ity of	Hydro	carboi	n Kati rocarb	ons		_cf/bbl_ deg		Spec	Specific Gravity Flowing Fluid			
				((1-e ⁻⁸))		_	P _{c_2}	025	P2	h100.6	
F _C (1-e ⁻³)													
No.	P _w	psia)	P	2 F	r _c Q	(F _c Q) ²	2 (F _c Q) ² 1-e ^{-s})	P _w 2	P _c -P _w	c	P _w P _c	
1.	10 (,							1175.1	2925.	5	ATTINE TO	
2.											1/4	HWFh	
3.			 -			 					/K	The Laws	
<u>4.</u> 5.			1									AN 28 1964	
, —	olute	Poten	tial.	91	kOk		MCFPD	')	.75			L CON. COM.	
	PANY		مطاحب ال	men The	ion Pr	eduction	Company	,				olel. 3	
ADI	RESS_		P. C.	Bez	806.	Farming	ton, nor	MEXICO		Signed By			
AGENT and TITLE Verne Rockhold - Jr. Engineer VERNE ROCKHOLD WITNESSED Hersen McAnally													
	MPANY		EL P	R one	stural	Ges Com	beat.						
		_ 1 _	. Hex.	0.0.	G.		RI	EMARKS					
/1) Wi Been Heturel (des Company - Front store													
P. O. Box 1492 - El Pase, Texas (2) Mr. H. L. Kindricks, Bos 990, Farmington, New Mexico													
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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
- Pt Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$ Differential meter pressure, inches water.
- F_{R} Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.