MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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Revised	12	-1-	-55

Pool		Ballard	Pict	red C	1166	orm	ation	Pie	rtured (<u> </u>	_County	San A	<u> </u>		
Initial Annual Annual							Special_				Date of Test9-13-63					
Company Southern Union Prod. Co.						Lease Foster			Well No. 1							
Unit Sec. 2k Twp. 26-H Rge. 6-W Purchaser Southern Union Gas Co. 3-1/2 Wt. 15.5 I.D. 4.950 Set at 2187 Perf. 2318 To 2338																
Casi	ng	3-1/2 W	t. 15	.30 •5 I	.D.	2.992	Se	tat	167	Perf.	231	18	To	2338		
												3				
															12.0	
Gas Pay: From 2318 To 2338 L 2293 xG .640 -GL 1468 Bar.Press. 12.6 Producing Thru: Casing Tubing XX Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual																
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 9-6-63 Packer Reservoir Temp.																
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Test	ed 'I	Through										Type Tap				
	<u>(I</u>	rover)		Flow Data (Choke) Press.		Diff. Temp.			Tubing Data Press. Temp.		Casing D	Temp. Durat		Duration		
No.	((Line) Size	(Orif	ice)		- 1	h _w	o _F .		g	o _F .	psig	op.	ļ	of Flow Hr.	
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No.				• -						Factor		@ 15.025 psia				
$(24-Hour)$ $\sqrt{h_w p_f}$ psia				ıa	Pt.			Fg Fpv			6 19.02) psia					
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Gas L	iqui	id Hydro	carbor	n Rati	.0			_cf/bbl	.•			fic Gravi				
Gravi	ty o	of Liqui	d Hydi	rocarb	ons			deg	•		Speci	fic Gravi	tyFlor	ring	fluid	
F _c				(1-e ⁼	8 <u>) </u>			_		P _c	567	Pc	321.	<u>5</u>	
																
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No.			Pt	- F	ွပ	($F_cQ)^2$	- ($(F_cQ)^2$	1	P_{w}^2	$P_c^2 - P_w^2$	Ca	al.	P _w P _c	
1 1	Pt	(psia)		 	•			(1-e ⁻⁸)	L]	W		
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		South														
ADDR	ESS								Marico	,						
ADDRESS P. O. Box 808 - Fermington, New Mexico AGENT and TITLE Verne Rockhold - Jr. Engineer																
WITNESSED Herman Mosnally																
COMPANY El Pago Natural Gas Company																
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	New	Mexico	0.C.C	•								1	SEP:	. u 19	b3 ·	
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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.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fnv 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 $P_{\dot{t}}$.