Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Pool Basin Dakota			Formation Dakota				County San Juan				
Initial Annual Special Date of Test 1-15-64											-15-64	
Company Southern Union Production Co. Lease McCord Well No. 12												
Unit M Sec. 33 Twp. 30-N Rge. 13-W Purchaser La Paso Natural Gas Company												
Casing 4-1/2 Wt. 10.50 I.D. 4.052 Set at 6182 Perf. 5962 To 6097												
Tubing 1-1/2 Wt. 2.90 I.D. 1.610 Set at 6043 Perf. 6033 To 6043												
Gas Pay: From 5962 To 6097 L 6033 xG .735 -GL hk3h Bar. Press. 12.												
Producing Thru: Casing Tubing II Type Well Single Ges Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 1-6-64 Packer Reservoir Temp.												
OBSERVED DATA												
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(Prover)) (Che	Flow Da		Press. Diff.		Press.	Temp.	Press.		Duration	
No.	(Line)	(Ori	(ice)					B I		o _F .	of Flow	
	Size	Si	ize	psig	h _w	F.		o _F ,		F.		
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4.										 		
5.					<u> </u>			.		<u> </u>		
						TATA CAT	CIT A PTON	ı Ç				
	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow											
No.		Coefficient		l l		70 - A		Cook on	Pacto			
NO.	(24-Hour)		7/h	hwp _f psia		F+		$\mathbf{F}_{\mathbf{g}}$	Fpv	1	● 15.025 psia	
-			V WEI		238	9850		-9035	1.02		2687	
1. 2.	12.3650				230	3050			1,00			
3.												
4.												
5.												
					DE	ESSURE C	A COTTLATT	ONS				
					rn	ESSURE C	MINUIRII	.0110				
Gas '	Liquid Hyd	rocarbo	n Rati	0		cf/bbl.		Speci	fic Grav	ity Sep	arator Gas	
Grav	ity of Liq	uid Hyd	rocarb	ons		deg.		Speci	fic Grav	ity Flo	wing Fluid	
			(1-e ⁻⁸)			-	P _c _1	356	Pc	3444.7	
									Τ			
No.	$P_{\mathbf{W}}$	P	2 F	·Q	$(F_cQ)^2$	² (F	(cQ) ² (-e ^{-s})	P. 2	$P_c^2 - P_w^2$	c	al. Pw Pw Pc	
NO.	Pt (psia	3	t ^	c	(- G4)	[]	e-s)	W	"		P _w P _c	
h-	7 ((P D Z =	' 						758.6	2686.1		1,69	
1. 2. 3. 4. 5.									ļ	- 	AFT II	
3.									ļ	1/af	l'HWF	
4.										157	ULITED	
	L								<u> </u>	1	NOS 106/	
EdA	colute Pote	ntial:_	32	39	Junet i am	Company	n75			AC /	N28 1964	
ADD	PANY	P O P	or 80f	- Far	mineton.	New Mer	ri co Orini	inal Signed By		OIL	CON. COM.	
ADDRESS P.O. Box 808 - Farmington, New Mexico Original Signed By AGENT and TITLE Verne Rockhold - Jr. Engineer VFRNE ROCKHOLD DIST. 3												
WITNESSED Herman McAnally												
COMPANY El Paso Natural Gas Company												
()) Hen interes above												
					Co. Pre	oration l	lent.					
P.U. Box 1492, Fl Paso, Texas (2) Mr. H. L. Kindricks, P.C. Box 990, Farmington, N.K.												
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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 600 F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater.
- PwT 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.
- $h_{\mbox{\scriptsize W}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If $P_{\mathbf{W}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{W}}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\mathbf{t}}$.