Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poc	ool Blanco Mesaverde							Formation Mesaverde						C	ounty	Rio	Arr:	Lba		
Ini	tial_				Annua	al			Special X					Da	ate of	Test	Jan.	21, 1960		
Company Southern Union Gas Company Lease Jicarilla "F" Well No. 1-F																				
Unit L Sec. 27 Twp. 26N Rge. hw Purchaser Southern Union Gas Company																				
Cas	ing_ 5	10	_Wt	15#	I.	D	4-408	Se	et a	at_ 8.	350_	Per	f60	30		To59	200	(Mesaverde)		
Casing 5 Wt. 15 I.D. 4.408 Set at 8350 Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 5180																				
Gas Pay: From 6030 To 5900 (Mesaverde) xG 0.67 -GL Bar.Press. 12.0																				
Producing Thru: Casing Tubing X Type Well Gas-Oil Dual Single-Bradenhead-G. G. or G.O. Dual																				
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 1-10-60 Packer 7816 Reservoir Temp.																				
	OBSERVED DATA																			
Tested Through (Choke) (Choke)												Type Taps								
Flow Data											Tubing Data Casing Data									
No.		over)			?)	Pres	s. I	iff.	Ī	emp.			Temp.				1	Duration of Flow		
	,	ize		Size	, ,	psi	g	h _w		o _F .	psi	g	°F.	F	sig	³F∙		Hr.		
SI l.			-	3/8=		0/=				70	1177		70	+	177		S.	7 days +		
2.		·	+	3/0"		867	+-		-	7 0	867	\dashv	70	-	907		+	3 hrs.		
3.			7_																	
4. 5.												-		-			ـــ			
<u> </u>			L						L					L		L	.L			
	Co	effic	ient				Proge				CULATI				Compres	- T	Rate	of Flow		
No.	Coefficient					Pressure Flow Fac						Factor								
	(24-Hour)			$\sqrt{h_{\mathbf{W}}p_{\mathbf{f}}}$			psia			F.	Ft		F_{g}		Fpv		@ 15.025 psia			
1. 2. 3. 4.	3.0300						879		0.9905				0.9463		1.100		2.746 MMCFD			
2. 3.																				
4.														士						
<u>5. l</u>																		·		
								PR	ESS	URE C	ALCUTA'	TIOI	NS							
as Liquid Hydrocarbon RatioO cf/bbl. Specific Gravity Separator Gas																				
	ity of				arbo	ns_			deg. Sp					ecific Gravity Flowing Fluid						
c		-е ⁻⁵]	<u>, , , , , , , , , , , , , , , , , , , </u>						Pc		8 9		1413							
Pw 919 Pw2 8ly4.6															.0					
	$P_{\mathbf{W}}$			-2		`	(-	0.12		/-	۰،2		- ·		$P_c^2 - P_w^2$					
No.	P+. (1	psia)		$P_{\mathbf{t}}^2$	Fc	4	(1	_c Q) ²		(F ₀	cQ) ² -e ^{-s})		P_w^2		Pc-Pw	l Ca	W.	P _w P _c		
1.	- 0 (1											8	Jul. 6	56	9.1		W			
$\frac{2}{2}$									_								T			
1. 2. 3. 4.			+						╌╁								- †			
5.																				
Absolute Potential: 5132 MCFD MCFPD; n 0.75																				
ADDRESS B O B 815 Formation Novi Morrison																				
ADDRESS P. O. Bex 815 Farmington, New Mexico AGENT and TITLE Oran L. Haseltine, Production Supt.																				
WITNESSED G. L. HOFFMAN COMPANY SOUTHERN UNION GAS COMPANY																				
OPI		JUUT.	TINE IN	ONTO	u uAi	<u>, ∪Uf</u>	FANI			REM/	ARKS				AFII	7				
														6	F1'H1	(FN)				
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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 \equiv 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{pv} 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_{t} .

