MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Pool Basin Dakets				Formation Daketa				County San Juan			
Init	ial		_Annua	1		Spec	ial		_Date of :	rest	12-2-62	
Company Southern Union Production Co. Lease Calvin Well No. #1												
Unit	<u>n</u> s	ec 26	Twp	29-N	rth Rg	e. 11-4	st Purc	haser_ So	thern Uni	on Gas	Сомрану	
Casi	ng Lis W	t. <u>10.</u>	50 I.	D. Log	52 Set	t at61	lli_Pe	rf. 61	79	ro6	8یلا	
Tubi	ng 2 3/8 W	t. 4.	<u>7_</u> I.	D. 1.	95 Se	t at6	154 Pe	rf. 62	39	ro6	254	
Gas Pay: From 6179 To 6348 L 6239 xG .700 _GL 4367 Bar.Press. 120												
Prod	Producing Thru: Casing Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: 11-25-62 Packer Reservoir Temp.												
						OBSERV	ED DATA					
Test	ed Through	(Boom	er) (C	hoke)	(Mebers)				Type Tap:	5		
	Flow D			ta	:		Tubing	g Data Casin		ata	<u> </u>	
No	(Prover) (Line)						Press.	Temp.	Press.	Temp.	Duration of Flow	
NO .	Size	Si	ze	psig	h _w	$^{\mathbf{o}}_{\mathbf{F}}$.	psig	°F.	psig	[⊃] F•		
SI		1					1995		1996		7-Days	
1.	2**	3/	4	458		58	1129	58	1043		3-Hours	
2 . 3 .		 										
4. 5.							· · · · · · · · · · · · · · · · · · ·	 				
<u>5. 1</u>		<u> </u>			<u></u>			<u> </u>	L		<u> </u>	
							CULATION					
N-	Coeffići	Coefficient (24-Hour) √ h _w p _f 12.3650		Pr	essure	Flow	Temp.	Gravity	Compre		Rate of Flow Q-MCFPD	
No.	(24-Hou			<u>-</u>	psia	F	+.	F	Fnv		@ 15.025 psia	
1.				170		.97	11	.9258	1.048		5493	
1. 2. 3. 4.												
3 _c												
5.											1	
					DD.	recurr o	ALCUTATI	ONG				
					PR	ESSURE S	ATCO. WIT	ONS				
Gas L	iquid Hydro	carbon	Ratio			cf/bbl.					arator Gas	
Gravity of Liquid Hydrocarbons Cc(1-e				ns _e ^{-s})	deg.				Specific Gravity Flowing FluidP _C P ² P ² P ²			
' c			_				•	- c				
	D			Т					γ			
No.	$P_{\mathbf{w}}$	$P_{\mathbf{t}}^2$	Fc	\mathbf{Q}	$(F_cQ)^2$	(F	$(c^{Q})^{2}$ $-e^{-s}$	P_{w}^{2}	$P_c^2 - P_w^2$	1	$P_{\mathbf{w}}$ $P_{\mathbf{c}}$	
i	Pt (psia)					(1	_e-s)		2010 1]	P _w P _c •525	
1. 2. 3. 4. 5.								1113.0	2919.1	 	• >65	
3.												
4.									<u> </u>			
									<u> </u>			
	olute Potent PANY	ial:	699	9 Prod	action	MCFPD;	n <u>.75</u>					
ADDR	ESS	lax 808	. Fara	ingter	, New M	exico						
AGEN	IT and TITLE	Vern	e Rock	held,	Jr. Eng	ineer			-/-			
	TESSEDPANY		e Rock		roducti	en Compe	my		(CF)	Witt		
OOM	14 T				<u> </u>		ARKS	- <u></u>	TREU	LAPP		
CC:		Mexico		C.					LAND	196	3	
	(1) Mr.	Rudy M Bob Co							1 State	ON C	om./	
		Paul C							/OIL C	ON. CO		
	(1) Mr.	Lon Mu	ennink	•								

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 (Pw). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{pv} 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 $P_{\rm t}$.