MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool .	ool angel resk Fo				ormation				County San Juan			
Initial # Annual_					Special							- 4 > 9
Compa	any Sunset International		Leaseredera		rederal		Wel	11 No				
Unit	S	ec1	5 Twi	o. 275	Rge	e. 10W	Purch	aser				
	g 5 1/2 W									To 047	61	
Tubin	g 2 3/8 W	t.	 I	.D.	Set	t at Ou	7° Per	f. 645	71	To 645	3*	
Tubing 2 3/8 Wt. I.D. Set at 0457 Perf. 6457 To 6453 Gas Pay: From To L xG 0.680 GL Bar. Press.												
Producing Thru: Casing Tubing Tubing Single-Bradenhead-G. G. or G.O. Dual Date of Completion: Packer Reservoir Temp.												ual
Date	oi Combrer	1011:			I deke							
							ED DATA					
Teste	d Through	(Pio	[]) (Choke)	(Meter)				Type Tap	os		
·			low D		7.00		Tubing Press.		Casing D		į	Duration
No.	(Prover) (Line)		ice)					_	l	1		of Flow
	Size	Si	ze	psig	h _w	°F.	psig 1591	°F.	psig 2022	-F.		Hr.
SI 1.							-7734					
2 . 3 .		3/4	,	390		72		<u> </u>	887			3 hrs.
4.												
5.		L			1			<u> </u>	<u> </u>		 	
	Coeffici	ent.		P	ressure		CULATIONS Temp.		Compre			of Flow
No.				_		tor	Factor F _g	Facto			Q-MCFPD @ 15.025 psia	
-	$(24-Hour) \qquad \sqrt{h_{W}p_{f}}$		P _f	psia		<u>t</u>		-g 'pv				
1. 2. 3. 4.	12.76/70				402	402 .9887		•9393	1.044		4629	
3 c 4 •												
5.1			L									
					PR	ESSURE C	ALCU ATI					
Gas Li	quid Hydro	carbo	n Rati	.0		cf/bbl. deg.		Speci	Specific Gravity Separator Gas Specific Gravity Flowing Fluid P2 P2			
	y of Liqui		(1-e ⁻⁵)		ась	<u>-</u>	Pc_2)74	_P _c 2	137	
N- 1	$P_{\mathbf{w}}$	P	2	ૃુંQ	(F _c Q) ²	2 (1	_{7-Q}) ²	P _w 2	$P_c^2 - P_w^2$	C	al.	Р <u>w</u> Рс
No.	Pt (psia)	r.	t	c*	(1 C@)	i)	[cQ) ² [-e ^{-s})	- W	ļ		P _w	P _C
1. 2. 3. 4. 5.								5Cv	3329			1.2427
3.	- 8 -\$, , , , , , , , , , , , , , , , , , ,			
5.								- 1 2	0.7			
Absol	Lute Potent	tial:	n la st	5797	fetrel	MCFPD	n_ •55	1.2				
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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.
- $P_{\rm c}$ 2 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\mathbf{w}}$ Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_{t} Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- P_{f} Meter pressure, psia.
- $h_{\mathbf{w}}^{\perp}$ Differential meter pressure, inches water.
- F_g : Gravity correction factor.
- F_t 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 $P_{\rm t}$.

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