MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Basir D	akota		F	ormation	I)ak	ota	س ہے۔۔۔۔		County	<u> San</u>	Juan		
Init	ialX	Annu	al	Special					Date of Test 4-25-64					
Company Southern Union Production Co. Lease Huerfanito Unit Well No. 78														
Unit	930/N : B s	line ec	1650/1 36_Twj	E line	⊸N Rg	e. 9-W	Pur	chaser_	<u>El</u>	Paso Nat	ural	Gas Co.	<u> </u>	
	ing 5-1/2 W													
						-								
	Tubing 1-1/2 Wt. 2.90 I.D. 1.610 Set at 6428 Perf. 5418 To 6428 Gas Pay: From 6397 To 6599 L 6418 xG .735 -GL 4717 Bar.Press. 12.0													
	Producing Thru: Casing Tubing XX Type Well Dual Gas Single-Bradenhead-G. G. or G.O. Dual													
rroc	ideing inru;	0.43	۱. /د عبریق	/6).	Da alsa	- 628	Si	ngle-Br	iden	head-G. G	. or (3.0. Di	ıal	
Date	e of Complet	ion:	4/5	/04	Packe				. V O.1	T. Temb.				
						OBSERV	ED DATA	•						
Test	ed Through	Broom	er) (Choke)	(Moderne)					Type Taps	3			
		Flow Da			T 7. 56		سحبسب	g Data		Casing Da	ta To-	- - -	himation	
No-	(Prover) (Line)				• Diff•	Teng.	Press	1	i		-		Duration of Flow	
	Size	Size			h _w	°F.	psig	°F		psig	₽.		Hr.	
SI						7.78	2111	7-7-				1	days	
1. 2.	2 ⁿ		3/4ª	324	 	650	324	650	-			 3	hrs.	
3.		 										1		
4.		<u> </u>												
5.	ب بيانات . بينا التقريب المائل بدير بمي التجار ب خاطب و يسي	<u> </u>				L	<u> </u>					_		
			<u> </u>			FLOW CAI								
	Coeffici	oefficient		P	ressure	Flow Flow	Temp.	Gravi)A	Compres		Rate of Flo		
No.	(24-Hour) 7/		$\sqrt{h_{W}}$	hwp. psia						Fpv		@ 15.025 psia		
1.					- 1	9952				1.042		3893		
2.														
3.														
4. 5.														
					ממ	ESSURE (י אור ביודר איד	PROT						
					rn	TOOUTH (MINOUIMI	TOND						
Gas I	Liquid Hydro	carbo	n Rati	o		cf/bbl.deg.				ic Gravit				
Gravity of Liquid Hydrocarbons Fc 16.46 (1-e				ons l-e ⁻⁵)	.290	•	P _C 2123			P2	y Flowing Fluid Pc1507.129			
C	10,40			<u> </u>		· · · · · · · · · · · · · · · · · · ·	-	- 6			_ \ <u> </u>			
	Pw	P _t ²			4>2	, ,	- 0,2			P _c -P _w ²		_ ,	77	
No.	Pt (psia)	P;	t F	cg	(F _c Q) ²		[_c ⊋) ² [-e ^{-s})	P _w 2		P _C -P _W	1	al. Pw	P <u>w</u> Pc	
1.	336	112896 6		.079 4106.1).77h	1,303.670		3203.45		2	.538	
2.														
3. 4.														
5.													· · · · · · · · · · · · · · · · · · ·	
	olute Potent			029	_ 	MCFPD	, n	•75			الدر	1720		
	PANY 301 RESS	uthern	Union	Produ	action Co Parmingto	ompany	Mari co	- Or	gina	Signed By			/////	
	NT and TITLE				i - Jr. I					ROCKHOLD	1	5.1.71		
WIT	NESSED	Ç.	R. Wa	gnor							Ai	30		
	PANY				Gas Com	rei	MARKS							
	(3) New Mar. (1) Communication	exico	O.C.C.	hiblia Tabilia	Lands of			New Mexi	CO		الر ق		-Cons./	
CC:	(1) Mr. Pa	aul Cl	.ote									- 3 103		
cc:	(1) El P:	aso Na	tural	Gas (lo Pro Box 990	oration :	Dept.	30x 1492	, E	l Paso, T	exa s			
601		1. A.	ningr)	.ckb,	שעל אטם	- rarmi	ng von	TEN TEN	Ų.					

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_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
- Pro Meter pressure, psia.
- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- $F_{t,T}$ Flowing temperature correction factor.
- $\mathbf{F}_{\mathrm{D}\mathbf{v}}$. Supercompressability factor.
- n ... 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 $P_{\mathbf{t}}$.