MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Parrised	12-1-55

Poc	180.	Blanco	Picto	red Cl	liffs	_Formatio	n Pict	tured Clif	îs	County	Rio A	vriba	
												July 20, 1959	
Соп	ipany_	Sout	hern U	nion O	as Co	ompany	_Lease_	Jicar	illa	We]	ll No	l₁ - H	
Uni	.t		Sec1	9 Tw	φ. <u>2</u>	26N R	ge	WPur	chaser_Sc	outhern Ur	nion Ca	s Company	
Cas	ing_	5 3 n 1	Wt. 15	•5#_I	.D. <u>1</u>	.950 s	et at_	3355 Po	erf. 3230)	To3	328	
Tub	ing 2	-3/8* v	vt4	• 7 # I	.D1	•9 95 s	et at_	3231 Po	erf3211		To3;	231	
												ess. 12.0	
Pro	ducin	g Thru:	: Ca	sing_		T	ubing_	X Sin	Type We	ll Sine	le - G	28	
Dat	e of	Complet	cion:_	July	8, 1	9 59 Packe	er	511	ngle-Brade Reservo	enhead-G. oir Temp	G. or (G.O. Dual	
							OBSE	RVED DATA					
Tes	ted Ti	hrough	¥44	*XXX (<u>Choke</u>) THEFFE	<u>E</u>			Type Tap	s		
				Flow D	~				g Data	Casing D	ata		
No.		rover) Line)		oke) fice)	Pres	s. Diff.	1		Temp.	Press.	Temp.	Duration of Flow	
SI		Size	S	ize	psi	g h _w	° _F .		°F.	psig	[⊃] F•	Hr.	
1.			3,	<u>/4</u> #	108	_	67	979		979 231	 	7 days	
2.										231		3 hours	
3. 4. 5.			 		 		ļ		-		-		
5.									<u> </u>				
							FLOW C	ALCULATION	IS				
Mo	Co	peffici	ent			Pressure	Flor	w Temp.	Gravity	1 -		Rate of Flow	
No. (24-Ho		(24-Hou	ur) $\sqrt{h_{W}r}$		p _f psia		F	actor F _t	Factor	1 !		Q-MCFPD @ 15.025 psia	
1.	1 Y		A M	120		0.9933		F _g			1./11		
1. 2. 3.													
4. 5.													
5.													
						PR	ESSURE	CALCULATI	ONS				
Gas I	Liquid	l Hydro	carbor	n Ratio	0		cf/bb]	١.	Speci	fic Gravi	tv Sena	rator Gas	
ravi	ity of	Liqui	d Hydr	rocarbo	ons_		de		Speci	fic Gravi	ty_Flow	ing Fluid	
'с				(]	L-e ^{-s}])		_	Pc	991	Pc	982	
						 			T. M.	243	Pw2	59	
No.	$P_{\mathbf{W}}$		P_{t}^{2}	F	Q	$(F_cQ)^2$		(FQ)2	P _w 2	$P_c^2 - P_w^2$	Ca	, ,	
	Pt (psia)	- t		2	(10%)		$(F_cQ)^2$ $(1-e^{-s})$	'w [~]	LC_LM	P		
$\frac{1}{2}$									59	923	 		
3.											 		
1. 2. 3. 4.		I									+		
	Juto	Potent				-	NORD!				1		
COMP	ANY			1.h8		PANY	MCFPI); n <u> </u>	<u>85 </u>				
ADDR		Box 8	15	Farmir	gton	New Mex							
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COMP	'ANY						ז <u>מ</u>	EMARKS					
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									/8	([PFIA1	١ ٧.		
									[]	1.3	sa l		

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
- PwI 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.
- hw Differential meter pressure, inches water.
- $F_g = Gravity$ correction factor.
- Ft Flowing temperature correction factor.
- F_{pv} 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 $P_{\mathbf{t}}$.

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