MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55
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Ini	tial		Annu	al		Spec	ial	ζ	Date of	Test_1	/28-2/1/58	
Company SOUTHERN CALIFORNIA				1	Lease	Wool	vorth	Well No. 4				
PETROLEUM CORPORATION Unit M Sec. 8 Twp. 25 Rge. 37 Purchaser El Paso Natural Gas Co.												
	ing 5½											
Tub:	ing none	_Wt	<u>-</u> I	.D	<u>-</u> Se	t at	Pe	rf		То		
Gas	Pay: From	2910	To_3	085	_L_ 29	<u>06</u> x	G <u>.650</u>		.889	Bar.Pre	ss. <u>13.2</u>	
Prod	ducing Thru	ı: Ca	sing	X	Tu	bing	Sin	Type We	ell sing	gle	O Dual	
Date	e of Comple	tion: N	lar, 2	7. 19	51 Packe	r <u>non</u>	e	Reserve	oir Temp	G. 01 G	• O • Dual	
				-		OBSERV	ED DATA					
Test	ted Through	(Pro	ver) ((Choke)	(Meter)				Type Tap	s		
~			Flow Da	ata			Tubing	Data	Casing D	0+0		
	(Prover)	T (Ch	oke)	Press.	Diff.	Temp	Press	Temp.	Press.		Duration	1
No.	(Line) Size	(Uri:	fice)		į ,	o _F .		°F.			of Flow	
SI		, S.	rze	psig	W	r.	psig	۲.	690	r •	Hr.	
1. 2. 3.	_4	7	'50	255	1.0	-91			363		72	
2.	4	7	50	255	2.25				500		24	
3.	4	شت ا		270	4 84				276		24	
4. 5.												
<u>5. </u>	Unable	to se	cure	4 001	nt tes	on th	is well	Aver	age Jalm	at al	na of	
	0.771	as dr	awn t	hrough	h highe	est rat	a of fl	ow poin	t.	W. P. 24	-be-or	
						FLOW CAL	CULATION	S				
	Coeffic	ient		Pr	essure	Flow	Temp.	Gravity	Compre	ss.	Rate of Flow	
No.	(0)	,				Fact	tor	Factor	Factor Fpv	r	Q-MCFPD	
	(24-Ho	ur)	√ h _w p	f	psia	F	t	Fg	Fpv	(9 15 .0 25 psia	
1.	3 1135		16.	37		.971	5	9608	1.02	,	<i>E</i> 3	_
2.	3.435		24			.976		9608	1.02		53	_
3,	3.435		37.			954		9608	1.01		118	
1. 2. 3. 4.											****	
5.												_
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Ga 9.650 Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc 703.2 Pc 494.5												
No.	P _w Pt (psia)	Pt	Fc	Q	$(F_cQ)^2$	(F.	Q) ² -e ^{-s})	P _w 2	P _c -P _w ²	Cal P	Pw Pc	
	376.2	+						141.5	353.0 402.6	+		
1. 2. 3. 4.	303.2	 	 					91.9 83.6		 	-i -	
4.1		 	+-					21.0	410.9	+	- 	_
5.		 								 		
Abso COMP	ECC_	SOUTH	ERN, CA		A 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	CROLLU	n 0.7	71		···		
ADDRESS Box 1071 Midland, Toxas AGENT and TITLE Au au Division Engineer										_		
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COMP	-		//									_
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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 = 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.
- $P_{\mathbf{w}}^{-}$ Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- Pt_ Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{W}}\mbox{\footnote{\square}}$ Differential meter pressure, inches water.
- Fg = Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n I 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_{+} .