## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55

Poo	Jalma'	t			Formation		Yates		County	Lea		
Ini	cial		Annua	al		Spec	ial	x	Date of	Test	5-15-58	
	company SOUTHERN CAL. PET. CC			·								
	E											
	Casing 7 Wt. 24 I.D. 6.366 Set at 2920 Perf. 2742 To 2828  Tubing 2 Wt. 4.7 I.D. 1.995 Set at 2868 Perf. To											
Gas Pay: From 2742 To 2828 L 2868 xG .665 _GL 1907 Bar.Press. 13.2												
	Producing Thru: Casing Tubing X Type Well Single  Single-Bradenhead-G. G. or G.O. Dual											
Date	of Complet	ion:			Packe	, none	Sin	gle-Brade Reserve	enhead-G.	G. or G	.O. Dual	
			<del></del>				ED DATA				0,7	
Test	ed Through	(Prov	(m) ((	Tholeo.	) (Motor)	ODDLIL	DD DAIA		Type Tap	ve.		
103					/ (Mecel)		Muhin -	Dot a	<del></del>			
	(Prover)		low Da		s. Diff.	Temp.		Data Temp.	Casing I		Duration	
No.	(Line)	(Orif		1100		•		1		-	of Flow	
	Size	Si	.ze	psi	g h <sub>w</sub>	°F.	psig	° <sub>F</sub> .	psig	<sup>⊃</sup> F•	Hr.	
SI							478*					
1.	4	•550	<del>}</del>	181.	2 22.09	80	129.2	<del> </del>		<del> </del>	24	
1. 2. 3. 4. 5.	<del></del>	<del> </del>			+	<del></del>		<del></del>	<del> </del>	<del> </del>		
<u> </u>		<del>'</del>					<del> </del>	<del> </del>	<del> </del>	+		
5.		<del>                                     </del>				<del></del>	<del></del>	<del> </del>	<del> </del>	1		
					<del></del>					<del></del>		
<del></del> r	0 001						CULATION		10		Data of Flore	
No.	Coeffici	ent			Pressure		tor	Gravity Compress. Rate of Flow Factor Factor Q-MCFPD				
NO !	0. (24-Hour)		h na		psia		t	Fg			Q-MCFPD @ 15.025 psia	
<del>-</del>	1,525		√ h <sub>w</sub> p <sub>f</sub> 52.96		· 1		· 1	9498	F <sub>pv</sub>		76	
1. 2. 3. 4.	1.75		34.3	<del>-</del>		<b>.98</b> 13	+	7774	1.01.			
3.												
4.												
5.												
ac I	.iquid Hydro	oca rhon	Ratio		PRI	ESSURE C	CALCUTATI		ific Gravi	t.v. Sena	rator Gas: <b>665</b>	
	ty of Liqui					deg.					ving Fluid	
c			(1	L-e <sup>-5</sup>	,123	,	_	P. 4	78.2	P <sup>2</sup> 21	28.7	
				-				<b>U</b>				
	D				T		<del></del> 1-	<del></del>	<del></del>	<del></del> -	<del></del>	
No.	$P_{\mathbf{w}}$	Pt <sup>2</sup>	F	۵	$(F_cQ)^2$	(1	, 0,2	$P_w^2$	$P_c^2 - P_w^2$	Ca	ıl. Pw	
.,,,	Pt (psia)	't	'	~	(T.CAS)	וֹ וֹ	(cQ) <sup>2</sup> (-e <sup>-s</sup> )	••	, c_, w	F	$\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$	
1. +	129.2	16.7	+-		<del> </del>	<del></del>	<del></del>	16.2	212.5		<u> </u>	
2.												
1. 2. 3. 4.									<del> </del>			
4.		<u> </u>			<del> </del>					<del></del>	<del></del>	
		L	<del></del>		<del></del>				<u> </u>			
Absolute Potential: 80 MCFPD; n .771												
COMPANY SOUTHERN CALIFORNIA PETRULEUM CÚRPORATION ADDRESS P. O. Box 1071, Midland, Texas												
			1071	• 77	alapa, 1	PARS	4 44 0= 1	ingineer	5-20	- 6		
	T and TITLE ESSED	H. H.	Kank		waven	DIV	TOTON I	MINT LIAGT.	3-10	-3 (	<del></del> _	
	PANY	El Par	IO Na	til	Gas Co.		<del></del>			<del></del>		
20111						REM	ARKS	· · · · · · · · · · · · · · · · · · ·				
4	Unable to	ghut	in =	re 1 1	for shu			. Shut-	-in pres	sure f	or this	
			and the	 Dal4	manah41	ltv tar	at on t	he J hn	M. Kell	v. Sha	han #3	

dated 4-18-58. \*\* Average Jaimat slope of .771.

## 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<sub>w</sub>). MCF/da. @ 15.025 psia and 60° F.
- $P_c$ = 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.
- $h_{\mbox{w}}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- F<sub>DV</sub> 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  $P_{\rm t}$ .