## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55

Poo	col Blanco Formation M. V. County Rio Arriba														
Initial Annual Special Date of Test 9-25-58															
Company Honolulu Oil Corporation Lease Jicarilla Well No. 6 M															
Uni	t <u>K</u>	<del></del>	Sec. <u>3</u>	Tw	p. 26	N Rg	e	4 W	Pu:	rchas	ser	Southern	Union G	25	Co.
Cas	ing <u>3</u>	1/2	Wt. 9.	<b>2</b> 1	.D3	Se	t a	t_607	5	Perf.	554	open	To <b>590</b> 6	<u> </u>	
Tub	ing 2		Wt. 4	• <b>7</b> I	.D	Se	t a	t <u>5876</u>	1	Perf.	None	- end	_To		
Gas	Gas Pay: From 5340 To 5950 L 5871 xG -715 -GL 4197 Bar. Press. 12.00										12,00				
Prod	ducin	g Thru	ı: Ca	sing_	<del></del>	Tu	bin	g, <b>x</b>	:	T	ype We	11 0.0	. Dual		Dec 3
Date	e of (	Comple	tion:_			Packe	r	3733				nhead-G. ir Temp.			Duai
							01	BSER <b>V</b> E	D DAT	A					
Test	Tested Through (Prover) (Choke) (Meter) Type Taps														
<del></del>				Flow D	ata				Tubi			Casing I	)ąta	<u> </u>	
No	(Prover) (Line)		1 (0	A \	1		ŀ			g o <sub>F</sub> .			ł	1	Duration of Flow
ŀ		Size	S	ize	psig	g h <sub>w</sub>	°F.						+	_	Hr.
SI 1.	2**		7	50	133	-	58		1160 133		8			3	hours
2.															
3. 4.													<u></u>		
4. 5.					<u></u>	<u></u>							1	<u> </u>	
								W CALC				- · · · - · - · · ·			
No.	Coefficient (24-Hour)		cient our)	$\frac{1}{2\sqrt{h_{w}p_{e}}}$		ressure psia	essure Flow Fa psia		Temp. G		Gravity Factor F <sub>g</sub>	Compress.   Factor   F <sub>DV</sub>		Rate of Flow Q-MCFPD @ 15.025 psia	
1. 2.		3650						0019		.9161		1.018		1,675	
2. 3.	<del></del>	<del></del> -		<del></del>								_			
4. 5.															
PRESSURE CALCULATIONS  Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas  Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid 715  Fc_9.402 (1-e^-s) .263 Pc_1373.584															
No.	P <sub>w</sub>	(psia)	P	<sup>2</sup> F	o O	$(F_cQ)^2$		(F <sub>c</sub>	Q) <sup>2</sup> e <sup>-s</sup> )		P <sub>w</sub> 2	$P_c^2 - P_w^2$	Ca I	al.	Pw Pc
1. 2.	11,5		210.25	0 15.	748	247.999	_6	5.223		75.4	73 1	98.111	524	W	July 7
3.			<del> </del>												
4. 5.															
Absolute Potential: 1981 MCFPD; n75  COMPANY Honolulu Oil Corporation  ADDRESS Drawer 1391, Midland, Texas  AGENT and THILE OF S. Evans, Division Gas Engineer  WITNESSED COMPANY Southern Union Gas Co.  REMARKS															
1	nof =	1675	(1373. (1098.	584)•7 111	<sup>5</sup> = 16	75 x 1.1	827								

## 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
- 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
- Pf Meter pressure, psia.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If  $P_{w}$  cannot be taken because of manner of completion or condition of well, then  $P_{w}$  must be calculated by adding the pressure drop due to friction within the flow string to  $P_{t}$ .

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