MMOCC-3 Gos Poppin-1 L.G.Truby-1 Fileni

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122
Revised 12-1-55

Pool		200		Fo	rmation	Xe	saverde	···	County		Rio Arriba	
Init	ial	XX	Annua	al		Spec	ial		_Date of	Test	3-6-57	
	any Merthwe											
Unit	H S	Sec	Twr	26	Rg Rg	e. 4W	Pur	chaser_	ot conuec	ted		
	ng 🥦 V										.00	
	Tubing 2-3/8 Wt. 4.7 I.D. Set at 8303 Perf. To Gas Pay: From 5572 To 6180 L 5572 xG .650 _GL 3622 Bar.Press.											
										=		
Date	ucing Thru: of Complet	ion.	2-7	- 57	Paoko	n Yes	Sir	ngle-Brade	enhead-G.	G. or C	G.O. Dual	
Dave	OI COMPLET	,1011			racke			neserve	orr lemb.			
Test	ed Through	(PH)	tett) (c	hoke)	(Heleh)		ED DATA		Туре Тар	s		
~~~~			low Da		<u> </u>		Tubing	Data	Casing D	I		
No.	(Prover) (Line)	(0)-1-1	46 <del>6</del> 7						ļ	İ	Duration of Flow	
SI	Size	Si	ze	psig	h _w	°F•	psig	°F.	psig	³ F∙	Hr.	
1.							2200		1061		<b>8</b> I	
2 <b>.</b> 3	3/4					2220	<u> </u>	149	60_	3 bours		
4. 5.												
		<u></u>			1	RIOW CAL	CITATION	ıs		<del></del>	<u> </u>	
No.	Coeffici			Pre	essure	FLOW CALCULATIONS Flow Temp. Gravi		Gravity	ty Compress. or Factor		Rate of Flow Q-MCFPD	
NO.	(24-Hour) -		$\sqrt{h_{\mathbf{w}}p}$	 √p _f psia		Ft		Fg	Fpv		@ 15.025 psia	
1. 2. 3. 4.	14,160	5		1.0	51	1,000		.9608	1.016		2226	
3 e												
5.												
as Li	iquid Hydro	carbon	Ratio	ı		ESSURE CA	ALCUTATI		fic Gravi	tv Sena	rator Gas	
ravit	y of Liqui	d Hydr	ocarbo			deg.		Speci		ty Flow	ing Fluid	
C				_e <u>/_</u>				¹ C	2074	¹ C	****	
No.	P _w Pt (psia)	Pt	Fc	Q	(F _c Q) ²	(F ₀	cQ) ² -e ^{-s} )	P _w 2	$P_c^2 - P_w^2$	1	P _w P _c	
1. 2. 3. 4. 5.												
3. j	161		2.	1.7	4.7	1.09		27.0	1168		1.0231	
5.												
Absol COMPA	ute Potent	ial:	2265		at Mas	MCFPD;	n75	1.0	0175			
ADDRESS 405 Vest Breadant, Farmington, New Mexico												
	Tand TITLE ESSED_			gner - adrich	WEGA TO	NT ENGLY	300E					
COMPA					Consert	ration Co REMA		A				

MAR 12 1957 OIL CON. COM. DIST. 3

#### 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
- Pf Meter pressure, psia.
- $h_{\mathbf{W}}^{\perp}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- $F_{\text{DV}}$  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  $P_{\mathbf{t}}$ .

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# PACIFIC NORTHWEST PIPELINE CORPORATION

### DRILLING DEPARTMENT

	COMP	ANY NOT	threst	Production	Corp.
	LEASI	E ***	)) 	WELL NO.	4-6
	DATE	OF TEST	3-6	-57	······································
SHUT IN PRESSURE (PSIG): TUBING 2200 CASIN		S.I. PE	RIOD	11	DAYS
SIZE BLOW NIPPLE 3/4" Choke (Bureau of ML	nes)				
FLOW THROUGH MW - CSS		WORKING	PRESSU	RES FROM	K - tbg
TIME Q (MCFD) HOURS MINUTES PRESSURE 15.025 PSIA &	60°F	WELLHEAT PRESSURE			TEMP
15 471 30 328 45 264		219 221 221	0		52
1 9 221		721 722	9		36 36 38
2 0 168		722 722	3		<del>59</del> <del>59</del>
30 158 3 0 149		222			60
					**************************************
				<del>-</del>	
START TEST AT 12:55 pm	END T	est at 3	:55 pm		
REMARKS:		-			
				<u></u>	
			<del></del>		<del></del>
•	TEST	ED BY	R. Waj	gner	