NM OCC - 3 L.G. Truby - 1
Geo. Peppin - 1
File - 1

# MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122 Revised 12-1-55

Poc	ol	Wildcat		Format	ion_	PC		1 1 01t dill	_County	Rio Ar	riba
Ini	itialX	A	.nnual_			Spec	ial		Date of	Test	12-17-56
	npany Northw								Wel		
	t H							haser N	ot connec	ted -	
	sing 41"										)2
	oing 14#										
	Gas Pay: From 3274 To 3302 L XG Est65 -GL Bar.Press.  Producing Thru: Casing Tubing X Type Well Single - Gas  Single-Bradenhead-G. G. or G.O. Dual										
Pro	ducing Thru	: Casin	g		_Tubi	.ng	Sin	Type We gle-Brade	nhead-G.	G. or (	G.O. Dual
Dat	e of Complet	cion:1	2- 6-36	PaPa	.cker_		<del></del>	Reservo	ir Temp		
						OBSERVI	ED DATA				
Tes	ted Through	(Probbet	(Chok	e) (Met	<u>et)</u>				Type Tap	s	
		Flo	w Data				Tubing		Casing D	ata	<u> </u>
No.	(Prover) (Line)	(Choke	) Pre	ss. Di	ff.	Temp.	Press.	Temp.		· -	Duration of Flow
	Size	Size	ps	ig h	w	°F.	psig	°F.	psig	<sup>⊃</sup> F•	Hr.
SI 1.		ļ					987		1014		SI
2 <b>.</b> 3 <b>.</b>	14	3/4					186		727		
4. 5.		ļ									
2.		<b></b>									
	Coeffici	ent.		Pressii			CULATIONS		Compre		Rate of Flow
No.							Factor Factor		Factor 0		Q-MCFPD
1.	$(24-Hour)$ $\sqrt{h_W}$		h <sub>w</sub> p <sub>f</sub>	f psia		Ft		Fg	F <sub>g</sub> F <sub>pv</sub> @ 15.0		@ 15.025 psia
2.	14.1605		1		1.003			.9608	1,021 2761		2761
3 <sub>e</sub> 4. 5 <sub>e</sub>											
5.											
					PRES	SURE CA	LCULATIO	ns			
as I	Liquid Hydro	carbon Ra	tio			f/bbl.					rator Gas
	ity of Liqui	-	irbons_ (1-e <sup>-</sup>	5)		deg.		Speci:	fic Gravit <b>026</b>	y Flow P2	ring Fluid
								<u></u>		- 0	
No.	$P_{\mathbf{w}}$	P <sub>t</sub> .	F <sub>c</sub> Q	(F <sub>c</sub>	1)2	/ p	0)2	p o	$P_c^2 - P_w^2$		J D
	Pt (psia)	¹t	rc*	( r c'	e )	(1-	Q) <sup>2</sup> (e-s)	P <sub>w</sub> 2	rc-rw	1	$\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$
1. 2.	739							548	507		2.0769
2. 3. 4.						<b></b>					2.0707
5.								on groot 22			
	olute Potent						n85	1.1	861		
ADDF	RESS	Pacific 1	: Broad	way. Fa	rming	ton. Ne	w Mexico	<u></u>			
agen With	T and TITLE SESED	C. R. Wa	gner,	Well Te	st En	gineer		\$			
COME	PANY	A SECTION OF THE SECT	Age to the second of the secon			DEMA	DVC	20.7 10.00	· ·		<del></del>
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	Participation of	A Commented and property to the control of the cont	ngga congression in the Section 1988	E E Skipeter is to easy term in an e	an and a second	्रे १८८८ - स्टब्स्यून <b>ाल्या</b>		and the second s	Company of the Control of the Contro		4 - 4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
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								1			1. The Material

#### 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
- PwT 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
- $P_{f}$  Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv 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

COMPANY Northwest Production C						
	LE/	\SE <b>"\$"</b>		_WELL NO	3-1	
	DAT	E OF TEST_	12-17-56		·	
SHUT IN PRESSURE (PSIG): TUBING 98	**************************************	914 S.I. H	PERIOD		DAYS	
SIZE BLOW NIPPLE 3/4" Choke (Bure	au of Mines)	angeren program program to				
FLOW THROUGH Tubing		WORKIN	IG PRESSURI	es from c	asing	
TIME HOURS MINUTES PRESSURE 15.0	Q (MCFD) 25 PSIA & 60°1	WELLHEA PRESSUE	AD WORKING RE (PSIG)		TEMP	
34.5 217 41.5 224 50 264			819 808 802		42 44 46	
50 264 1 0 282 12 250 26.5 228			793 778 765		48 48 48	
2     5     205       30     239       3     0     326			747 734 727 727		48 48 48 46 47 50 56	
3 0 326						
START TEST AT 10:30 A.M.	END	TEST AT	1:30 P.M.			
REMARKS: Freezing through out te	st - made popp	ing noise	and blew p	articles	of ice.	
Assumed 186 as Assumed 727 as						
				and Control of Management and St. George and		
	TE	STED BY C	. R. Wagne	er		

CONSERVATION COMMISSION

LEC DISTRICT OFFICE

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