Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo!	1 Ange	ls Pe	ak-Dak	cota		_Formati	on_	Dakot	.a			_County_	San J	uan		
Ini	tial	x		Annu	al			Spec	ial			_Date of	Test	12-2	9-59	
Com	pany Pa	n Ame	rican	Petro	leum	Corp.	Le	ase_E.	. J. J o	hnson	Gas	Unit We	ll No.	1_		
Uni	t <u>н</u>		Sec2	21 Tw	p2	7N	Rge.	_10W	Pui	chase	r	·				
Cas:	ing <u>4-1</u>	/2 h	/t. 11.	6 & I	.D	4.090	Set	at_ 65	50 <u>r</u>	erf	63	84-6388 en ended	and 64	,06-64	12	
Tub:	ing 2-3	/8 W	it. 4.	. 7 _I	.D	1.995	Set	at_ 636	52 1	erf	o p	en ended	6362 To			
Gas	Pay:	From_	6384	To	6412	L_	636	2 x	3 0.70 (st.)-	GL	4453	Bar. B	Press.	12	
												ell G				
Date	e of Co	mplet	ion:	12-2	2 -59	Pac	ker	None	Si	ngle- Re	Brade servo	enhead-G. oir Temp.	G. 01	G.O.	Dual	
		•	_				_	OBSERVI				•				
Test	ted Thr	ough	(220	205) (Choke	·) (###		4222				Type Ta	ns			
				Flow D		7 (- /		Tub 4 v	ig Dat		Casing				
$\overline{}$	(25	MEE)	(Cho		Pres	s. Dif	f.	Temp.	Press		emp.	Press.		5.	Duration	
No.	(Li	ne)	(Bek	CEEE)				_					1	- 1	of Flow	
107		ze		ize	psi	g h _w		°F.	psig	5	°F.	psig	[⊃] F.	<u> </u>	Hr.	
SI 1.	2*		in 7 c		387	,	60	(est.	1960	60	(est.	1960) 999	60 (est.)	3 hours	
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3.	· · · ·		<u> </u>		 		-									
4. 5.					<u> </u>		+					<u> </u>				
							171	OH CAT		NC.						
	Coe	ffici	ent			Pressur		OW CAL			vity	Compr	ess.	Rat	e of Flow	
No.					<u> </u>			Fact	cor	Fa	ctor	Fact	or	Q.—	MCFPD	
		4-Hou	r)	√ h _w	p _f	psia			;		F _g _	Fpv			5.025 psia	
1. 2. 3. 4.	12.365			+		399		1.000		0,9258		1.050		 	4796	
3.																
4.							+-							 -		
Gas I Gravi	Liquid Lty of	Liqui	d Hydr	rocarb			c	f/bbl. deg.			Speci	fic Grav fic Grav 972	ity Fl	owing	Fluid	
Na	$P_{\mathbf{w}}$		P 2	2 _	^	(F _c Q	12	(P	Q) ²			P _c ² -P _w ²	7	Cal	D	
No.	Pt (p	sia)	Pt	· f	$_{\mathbf{c}}^{\mathbf{Q}}$	(r c/w	,	(1	e-s)		w ²	,,,		Cal.	Pw Pc	
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3.														j		
4. 5.						I		1					- 			
								MORPE .								
COME	olute P PANY	otent Pan	lal: Americ	an Per	29 trole	um Corp		MCFPD;	n0.	75						
ADDR	ESS	Box	487. F	armin	gton.	New Me	rice									
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	PANY															
			-	-				REMA	ARKS			RE	ENS M8	1000 1000	n-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 = 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.
- Pw. 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} 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_{+} .

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