MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pool	Argel Peal	k Dakota	F	ormation	Dakota			_County	San Jua	<u> </u>	
Init	ial	Ar	nual		Speci	al		_Date of 1	est_June	30, 1959	
Compa	any Pan Amer	rican Pet	roleum C	a.b.	Lease Fr	ed Feas	el "H"	Well	L No	1	
Unit N Sec. 33 Twp. 28 Rge. 10 Purchaser El Pasc Natural Gas Company											
										4,96	
Tubir	ng 2-3/8 W	t. <u>4.7</u>	_I.D <u>1</u>	.9 95 Se	t at 641	4 Pe	rf. 641	4	Го	414	
Tubing 2-3/8 Wt. 4.7 I.D. 1.975 Set at 6414 Perf. 6414 To 6414 Gas Pay: From 6445 To 6496 L 6414 xG 0.70(est)GL 4496 Bar.Press. 12											
Producing Thru: Casing Tubing Tubing Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual											
Single-Bradenhead-G. G. or G.O. Dual Date of Completion: May 22, 1959 Packer Some Reservoir Temp. 137°F											
					OBSERVE			_			
Tested Through (Choke) (Marke) Type Taps Flow Data Tubing Data Casing Data											
π,	(From:) (Line)	(Choke)	Press		Temp.	Press.	Temp.	Press.	Temp.	Duration of Flow	
No.	Size	Size	psig	g h _w	° _F .		°F.	psig	[⊃] F•	Hr.	
SI l.	Shut in 8	days	265		60°(est)	1913 325	600(est)	1917 770	60°(est)	3 hre.	
2. 3.											
4. 5.											
<u> </u>		<u> </u>			FLOW CALC	TT A TT (N)		L	<u> </u>		
	Coeffici	ent	F		Flow T	'emp.	Gravity	Compre	ss. R	ate of Flow	
No.	(24-Hour) √ h _w p		h _w p _f	psia	Factor Ft		Factor Fa		r @	15.025 psia	
1.	12,365			277	1,000		0.9258	1.03	3	3272	
3。											
4. 5.											
				PR	ESSURE CA	LCU ATI	ONS				
	iquid Hydro				cf/bbl.			fic Gravi			
Gravity of Liquid Hydrocarbons C. 9.402 (1-e ⁻⁸				deg.			Specific Gravity Flowing FluidP _c 1925P _c 3.705.625			5.625	
				y			·				
No.	$P_{\mathbf{w}}$	$P_{\mathbf{t}}^{2}$	F_c^Q	$(F_cQ)^2$	(F _c	$(Q)^2$	P_{w}^{2}	$P_c^2 - P_w^2$	Cal	P _W P _C	
1.	Pt (psia)			:	(1-	·e -) [11.524	3.094.10	Pw	P _C	
1. 2. 3.	****										
4.											
Absolute Potential: 3746 MCFPD; n 0.75											
COMPANY Fan American Petroleum Corporation ADDRESS Box 487, Farmington, New Mexico											
AGENT and TITLE R. M. Bener, Jr., Area Engineer RMIR and WITNESSED											
COMPA	ANY				REMA	RKS			/WW	mirn /	
			*						JUL 2	28 1859	
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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 ($P_{\rm W}$). 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
- Pf Meter pressure, psia.
- $h_{\boldsymbol{W}^{\square}}$ 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 $P_{\mathbf{W}}$ 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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