Formation Yates, 7 Rivers & Queen County Lea

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122 Revised 12-1-55

elvis a. utl gas engineer

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Dumont

Pool

test.

Ini	itial			Annu	al		Spec	cial X		Date of	Test	7-15-	56	
								anderson						
						- <u>-</u>		Purch			_			
											To_			
Tubing 2 1/2 Wt. 6.5 I.D. Set at PerfTo														
Gas	Gas Pay: From 2453 To 3000 12453 xG 670 -GL 1644 Bar. Press. 13.2													
Pro	ducing	Thru:	Cas	ing	X	Tul	bing	Sing	_Type We	ll Brad	enhead			
Dat	e of C	omplet	ion:	9-30-	36	Packe:	r ==	Sing	le-Brade Reservo	nhead-G.	G. or 90	G.O.	Dual	
	-	-		··										
	OBSERVED DATA													
Tes	Tested Through (Trover) (Meter) Type Taps Flange													
			F.	low Da	ata			Tubing	Data	Casing I	Data	<u> </u>		
	*(19	over)	(Crio	ke)	Press.	Diff.	Temp.	Press.	Temp.	Press.	Temp.		Duration	
No.	(L	ine)	(Orif	ice)		1 !		l i			o _F .		of Flow	
	S	ize	Si	ze	psig	h _w	°F•	ps i g	°F.	psig	F.		Hr.	
SI	4" 4" 4" 4"	-	•500		***					828			72	
1.	4"					•8				81.1.			24	
2.	4"		-500				75			654			24	
<u>3. </u>	4	-ds	6500 6500		558	74.0	70			630	↓		21.	
4.	7		-200	······································	502 ₄	50.3	74			636			21.	
No.		Coefficient (24-Hour) 13.09			1		Flow Fac	CULATIONS Temp. ttor	Gravity Factor	Facto	or Q-		e of Flow MCFPD 5.025 psia	
إ دا	13.99	~~~,		182.78					9463	1.062		ļ.,,	472	
2 . 3。	13.99	13.99		\$03•20 			-9905		9463	1.058			2534 2819	
<u>) </u>	13.99	13.99		104-40		•7868		•9463		1.065	-:	2566		
4. 5.	<u> </u>	200									,700			
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas = ravity of Liquid Hydrocarbons deg. c (1-e^{-s}) Not applicable P_c 707.6														
No.		Pt (psia)		F _c Q		$(F_cQ)^2$	(F	$\left(\frac{cQ}{c^{-s}}\right)^2$	P _w 2	$P_c^2 - P_w^2$	Cal.		Pw Pc	
1.	660 0		1703					479		28.3	destes	1	•78	
2. 3.	643.2		13.7				-	445		262=4	667.2		•79	
3.	649.2		13.5	¢#		•	***	413		293.9	643.2		•76	
4. 5.	U4762		-Le7					421	•5	286.1	649.2		•77	
	L			-	400									
Absolute Potential: COMPANY ADDRESS AGENT and TITLE MCFPD; n 97 MCFPD; n														
	THE DE	LICC WE	ror~TO		cause	a kate D	00 - 1 ni	ARKS this test ad 4 to de this woll,	malan ir	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		~~~	insuccess— Pipe— the above	

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
- 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.
- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- F_{t} 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 $P_{\bf t}$.