NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122 Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Langlie	Mattix	F	ormation_	7 Riv	rers - Qu	en	_County	Lea	
Init	ial	Ann	ual		Spec	ial		_Date of T	'est <u>4-15</u>	to 4-19-57
Comp	any Western	Natural G	as Comp	a ny I	LeaseH	larrison	-3-1- A	Well	No	2
Unit	. D S	ec. 29 T	wp. 24	Rge	. 37	Purcl	naser El	Paso Natur	al Gas C	ompany
Casi	ng 7 W	t. <u>24</u>	I.D. 6	.336 Set	at3	3 56 Per	rf	Т	'o	
Tubing 2-7/8 Wt. 6.5 I.D. 2.441 Set at 3645 Perf. To										
	Pay: From_									. 13.2
					Single Bradenhead-G. G. or G.O. Dual Reservoir Temp.					. Dual
Dauc	OI COMPICE	1011.		r dokor		ED DATA				
		Americanini	Anne Se se susta		OBSERV.	ED DATA		m m-		
Test	ed Through			(Meter)				Type Taps		ge
	<u> </u>	Flow I		Dice	m	Tubing		Casing Da		Duration
No.	(Line)	(Orifice)		Diff.	Temp.	Press.	Temp.	Press.	•	of Flow
	Size	Size	psig	h _w	° _F .	psig	°F.	psig	[⊃] F•	Hr.
SI			I	0.09		220	<u> </u>			72
1. 2.	4	1.500 1.500	174	24.01 34.81	61 66	184 167				<u> 24</u> 24
<u>3.</u>	7	1.500	142	50.41		147				24
4. 5.	4	1.500	124	68.89	58 66	130				24
<u>5. !</u>		<u> </u>		<u> </u>						
	_			F	LOW CAL	CULATIONS	3			
	Coefficient (24-Hour) $\sqrt{h_w p_f}$		Pı			Temp.	Gravity Factor	Factor C		Rate of Flow Q-MCFPD 15.025 psia
No.			wp _f psia		rac F	tor	F _o			
1.	13.99		67.01		0.9990		•9535	1.018		909
2.	13.99		60	0.9943			9535	1,017		1.0/7
3.	13.99 8		8.40		1.0019		.9535	1.015		1.199
3 e 4 • 5 •	13.99 97.15		15	0.9943		3	.9535 1.013			1.305
ravi	iquid Hydro ty of Liqui 5.866	d Hydrocarl	bons		cf/bbl.	ALCU ATI	Speci Speci	fic Gravit	y Flowin	tor Gas g Fluid 3.8
No.	P xxx X Pt (psia)		F _c Q	(F _c Q) ²		(cQ) ² (-e ^{-s})	P _w 2	P _c -P _w ²	Cal.	P _w Pc (%)
1. 2.	180-2	388.9 324.7	5.332 6.142	28.43 37.72	4	.35 .77	393.3 330.5	150.5 213.3		269 247
3. 1	160.2	256.6	7.033	49.46		.57	264.2	279.6		
4. 5.	143.2	205.1	7.655	58.60		.97	214.1	329.7		
Abso COMP ADDR	PANY West Tand TITLE TESSED	ern Natural	Gas Co	lland, Te	xas Engine		0.533			
					REM	IARKS				

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 600 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.
- $h_{\mbox{W}}$ Differential meter pressure, inches water.
- F_{g} Gravity correction factor.
- F_{t} Flowing temperature correction factor.
- F_{DV}^{-} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.