Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

P00	1	SLANCO		rormation	PICTU	RED CL	FFS	County	RIO	ARRIBA	
Initial x Annual			nnual	Special				_Date of	Test	12-9-57	
Com	pany Weste	ern Dril	ling Co	mpany	Lease W	arren E	ederal	Wel	l No	11	
Uni	t <u>H</u>	Sec. 26	_Twp2	.5N_Rg	e. 6W	Purc	haser_ El	. Paso Na	tural	Gas Co.	
Cas	ing 5-1 /2"	Wt. 15.5	#_I.D	Se	t at2	667 Pe	rf	2602	То	2 622	
Tubing 1-1/4'Wt. 2.4# I.D. Set at 2615 Perf. 2605 To 2610											
Gas Pay: From 2598 To 2640 L xG 0.680 -GL Bar. Press.											
Producing Thru: Casing x Tubing Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 11-3-57 Packer Reservoir Temp.											
Date	e or compre	01011;1	1-2-21	racke			neservo	ort temb•"			
OBSERVED DATA											
Tested Through (Prover) (Choke) (Mater) Type Taps											
Flow Data Tubing Data								Casing Data			
No.		(Choke		s. Diff.	Temp.	Press.	Temp.	Press.	Temp.	of Flow	
	Size		psi	g h _w	°F•		°F.	psig	°F∙	Hr.	
SI		<u> </u>				854		_854	l		
1. 2.		3/4	127		63	173		127		3 hours	
2.											
<u>3. </u>											
4. 5.											
<u>5. l</u>		<u> </u>						L	L		
FLOW CALCULATIONS											
							Gravity Compress. Rate of Flow				
No.	/0	/ 		Fac	Factor		Factor				
	(24-Hour)		$V^{ m h_{f w}p_{f f}}$ psia		$F_{\mathbf{t}}$ $F_{\mathbf{g}}$		$^{ extsf{F}_{ extsf{g}}}$	Fpv		@ 15.025 psia	
1.	14.1605			139	0.9971		0.9393	1.016 1.873			
2.											
3،											
1. 2. 3. 4. 5.											
2•_1											
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas ravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid c(1-e^-s) P_c 866 P_c^2 749.956											
No.	$P_{\mathbf{w}}$	P _t .	F _c Q	$(F_cQ)^2$	(F	0)2	P _w 2	$P_c^2 - P_w^2$	Co	al. Pw	
	Pt (psia)	¹t	rc*	(r _c w)	(1	c ^{Q)²} -e ^{-s})			F	Pw Pc	
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	olute Potent				MCFPD;		0 85				
COMPANY Western Drilling Company ADDRESS 7114 Central S.E. Albuquerque, New Mexico											
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	PANY_							1			
REMARKS											
OIL CON. COM.										9	

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
- P_{w} 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.
- Ft Flowing temperature correction factor.
- F_{pv} 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 $P_{\mathbf{+}}$.