NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool Besin Deketa					Formation Dakets				County San Juan			
Initial Annual Special Date of Test 5/14/62												
Company Southwest Production Company Lease Campbell Federal Well No. 6												
Uni	t <u>C</u>	Sec	27 Tw	p. 27	Rge	e. <u>12 m</u>	Purc	haser	El Paso	Meture	l Gas Company	
Casing 4 1/2 Wt. 10.50 I.D. 4.052 Set at 5968 Perf. 5920 To 5934												
	_								f. To 5916			
Gas Pay: From 5920 To 5934 L 5916 xG .67 _GL 3963 Bar.Press. 12.0												
Producing Thru: Casing Tubing X Type Well Single-cas Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 5/3/62 Packer Reservoir Temp.												
OBSERVED DATA Tested Through (Choke) (National) Type Taps												
Tes	ted Through								Type Taps			
	(Prover)		Flow Data Choke) Pro		Diff.	Temp.		Data Temp.	Press.		Duration	
No.	(Line) Size	(Codd		psig	h _w	°F.	psig	o _F ,	psig	o _F .	of Flow Hr.	
SI							2045		2063		7 days	
1. 2.		3	4"	150		68	150	68	929	 	3 hr.	
3.		+	<u> </u>	 	 					 		
4.		ļ										
5.	· 			<u> </u>	لـــــا				<u> </u>		<u> </u>	
FLOW CALCULATIONS												
				Pr	Pressure Flow Temp.			Gravity Compress. Rate of Flow				
No.	(24-Hour) 7		7 h 1	/ hwpf psia		Factor F.		Factor Factor F _{pv}				
1.	12,3650		VWrI		162	.9924						
2.			+		102	•7724		17403	1,017		14743	
3.												
<u>4.</u> 5.			_									
2• 1							i				·	
					PRI	ESSURE CA	ALCUI ATI (ONS				
7 T	liania Hadaa		. D.4.2.	_		-6/227		0	e4 - C	· + O		
	Liquid Hydro ity of Liqui								ific Gravity Separator Gas ific Gravity Flowing Fluid			
c(1-e ⁻									2075	P _c 2	4305.6	
Pw 941 P2 003.5											863.3	
	Pw											
No.		Pt ²	F	Q	$(F_cQ)^2$	(F	(Q) ²	P_{w}^{2}	$P_c^2 - P_w^2$		Pw Pc	
	Pt (psia)					(1.	-e ^{-s})			I	7	
2.								45.5	3420.1			
3.												
4.												
5.						i						
Absolute Potential: MARS 2,273 MCFPD; n .75												
COMPANY Southmest Production Company ADDRESS 267 Petr. Club Plane, Farmington, New Mexico												
AGENT and TITLE George L. Heffman, Production Engineer												
WITNESSED C. R. Magn					er Itural Ges Company				CHIVEN			
COMI	PANY		L) Pas	o metu	Let Ges		ARKS		///////	TATE		
1 1962												
									MAY	70 12	M.	
MAY 18 150M. OIL CON. COM.												

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 Tactual 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 I 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- 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.
- $F_g = Gravity$ 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 $P_{\mathbf{t}}$.