NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	BASIN DAKOTA Forma			mation_	ation DAKOTA			Countyan Juan				
Initial X Annual Special Date of Test 7/10/64												
Company Beta Levelopment Co.					I	.ease	Federa	1 "E"	Wel	1 No	1	
Unit E Sec. 2 Twp. 29 N Rge. 11 W Purchaser El Paso Natural Gas Co.												
Casing 4 1/2" Wt. 10.50 I.D. 4.052 Set at 6657° Perf. 6524° To 6626°												
Tubing 2 3/8" Wt. 4.70 I.D. 1.995 Set at 6616' Perf. Open To End												
Gas Pay: From 6524 To 6626 L 6616 xG .670 -GL Bar. Press. 12.0												
Producing Thru: Casing Tubing X Type Well Single - Cas Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 7/2/64 Packer Reservoir Temp.												
OBSERVED DATA												
Test	ted Through	PERME	(Cho	<u>ke) (</u>	Mexcext)	Type Taps						
		Fl	Flow Data			T		Data	Casing Data Press. Temp.		Duretion	
No.	(Prover) (Line)	(Chok	e) Pr xxexi x	ess.	Diff.	Temp.	Press.	Temp.		1	of Flow	
	(Line) Size	Siz	e p	sig	h _w	°F.	psig	°F.	psig	°F.		
SI 1.		3/4	44	371		89	1979 371	89	1993 907		7 Days	
2.		<u></u>								ļ		
3.		1								 		
4. 5.		 	+-									
FLOW CALCULATIONS												
	Coefficient (24-Hour) √hwp			Pr	essure	Flow	Temp.	Gravity	Compress.		Rate of Flow	
No.			h.pe psi		psia	Fac F	tor t	ractor F _g	Factor F _{pv}		€ 15.025 psia	
1.	12,3650		Λ M ₂ I		383	9732		9463		1.035		
2.				+-								
3. 4.				+-								
4. 5.												
Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid Specific Gravity Flowing Fluid Pc 2005 Pc 4020.0												
No.	$P_{\mathbf{W}}$	P _t ²	F _c Q		$(F_cQ)^2$. (F _c Q) ² 1-e ^s)	P.,2	$P_c^2 - P_w^2$	C	al. Pu	
	Pt (psia)		-			(:	l-e-s)		3175		P _W P _C	
1. 2.		 	_					844.5	31/5	3		
3.												
4.										_		
5.		L				KORDD	76					
	solute Poten [.] IP AN Y		5,30	ent C	0.	MCFPD	; n <u>.75</u>	<u> </u>		1093		
ADDRESS 234 Petroleum Club Plaza, Farmington, New Mexico												
AGENT and TITLE George L. Hoffman, Production Engineer												
WITNESSED C. Magner COMPANY El Paso Natural Gas Co.										£ 1964		
REMARKS OIL CON. C										ON. COMA		
DIST. 2 /										ı ട ୀ. ଅ 🏑 💎 💎		
										3000		

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 = 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
- PwI 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.
- $h_{\mbox{\scriptsize W}}\mbox{\scriptsize I}$ Differential meter pressure, inches water.
- F_{g} Gravity correction factor.
- F_{t} Flowing temperature correction factor.
- $\mathbf{F}_{\mathrm{DV}}\mathbf{I}$ 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 $P_{\mathbf{t}}$.