Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	ol Basin Dakota				Formation Dakota				County San Juan				
Initial XX Annual Special Date of Test 12-16-64													
Company Southern Union Production Lease Newsom Well No. 14													
1850/N 1890/E Unit G Sec. 29 Twp. 26-N Rge. 8-W Purchaser El Paso Natural Gas Company													
Casing 4-1/2" Wt. 11.6 I.D. 4.000 Set at 6872 Perf. 6556 To 6842													
Tubing 1-1/2 Wt. 2.90 I.D. 1.610 Set at 6745 Perf. 6735 To 6745													
Gas Pay: From 6556 To 6842 L 6735 xG .735 -GL 4950 Bar. Press. 12.0													
	Producing Thru: Casing Tubing XX Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual												
Date	of Complet	ion:	11/	26/6և	Packe	r	Sin	gle-Brade Reservo	nhe sd- G. (ir Tem p	G. or	G.O. I	oual.	
	OBSERVED DATA												
Tested Through (Prover) (Choke) (Meter) Type Taps													
								c Data Casing Data					
	(Prover) (Cho		oke) Pres		s. Diff.	Temp.			Press.	Temp.		Duration	
No.	(Line) Size	(Orif	fice) ize	psi	g h _w	o _F .	psig	o _F ,	psig	op.		of Flow Hr.	
SI	0126			POL	5 "W		2091		2092			days	
1.	211	3	<u>/_</u>	162		73	162		1067			hrs	
2.									,				
3. 4.		! 	······································	 							1		
5.													
Coefficient Pressure Flow Temp. Gravity Compress.										Rate	of Flow		
No.			 			1 10-4		Factor	Factor		Q-MCFPD @ 15.025 psia		
	(24-Hour) -		√ h _w	P _f	psia	F				P4			
1.	12.3650				174	174 .987		.9035	1.020		1958		
2 . 3.													
4.													
5.	 										L	<u>.</u>	
					PR	ESSURE C	CALCUTATI	ONS					
a 1			- Dadd	_		as/bbl		Sneci	fic Gravi	tv Sen	arato	r Gas	
	Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Grave Gravity of Liquid Hydrocarbons deg. Specific Grav									ity Flowing Fluid			
				1-e ⁻⁸	Σ		_	P _c	2104	_Pc	268يارا	16	
	Pw				T		.2		2 - 2				
No.		P	t F	cQ.	$(F_cQ)^2$	· (I	(cQ) ² (-e ^{-s})	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$		al.	P _w P _c	
1.	Pt (psia)				 		L - e -)	116/12/11	326257	. 	Pw		
2.													
3. 4.										 -			
5.													
	olute Potent	ial:	21,6	57		MCFPD	n 75						
COMI	PANY Sout	thern	Union	Produ	ction Cor	many					WH		
	RESS P.								Signed By	- lati	<u>4.71</u>		
WITNESSED C. Wanger COMPANY El Paso Natural Gas Company													
	PANY El F		atural	Gas	Company	DE	MARKS			D.F	<u> </u>		
	(3) New N	exico	0. C.	C.		n.c.	CANIM			101	CON	7.3	
	(1) Mr. F	Paul C	lote					_1	_		ران _		
	1 1				o., Prora Box 990,	_		1492, E1	Paso, Tex	Kas	-		
	(1) Mr. F (1) File	2 . 11.	rangra	e cao.	JUA 770g	r ar mrig	OULL ELLE	•					

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 (Pw). FCF/da. @ 15.025 psia and 60° F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. rsia
- 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
- P_{f} Meter pressure, psia.
- $h_{\mbox{W}}\mbox{\footnote{Γ}}$ Lifferential meter pressure, inches water.
- FgI Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} 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 $P_{\mathbf{t}}$.