Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pod	D1	LN		For	rmation	DAKOTA	\		County_	SAN	JUAN	
Ini	tial XX Annual Special Date								Date of	Test_1	2-7-61	
Con	npany SOUTHER	N UNION	PRODUC	TION	co.	Lease	Zachr	у	Wel	Ll No	17	
Unit M Sec. 35 Twp. 29-N Rge. 10-W Purchaser Southern Union Gas Company												
Casing 13 Wt. 10.5# I.D. 1.052 Set at 6616 Perf. 6352 To 6530												
Tubing 2 3/8" Wt. 4.70 I.D. 1.995 Set at 612 Perf. 6105 To 6111											-	
Gas Pay: From 6352 To 6530 L 6405 xG 680 -GL 4355 Bar. Press. 12.0												
Producing Thru: Casing Tubing XX Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 12-3-61 Packer Reservoir Temp.												
OBSERVED DATA												
Tested Through (Choke) (Choke) Type Taps												
	(D)		ow Data					g Data	Casing I		Ī	
No.	(Prover) (Line)	(Chok		ess.	Diff.	Temp.	Press	Temp.	Press.	Temp.	Duration of Flow	
_	Size	Siz	e p	sig	h _w	°F.	psig	°F.	psig	[⊃] F•	Hr.	
SI 2. 3.				326		1945			1945		7 days	
1. 2.		3/4		6		70	326	70	825	 	3 hr.	
2• 3•				$\neg +$			 	 		 		
4. 5.								 		†		
5.												
DI OLI CATAVA ATTOVO												
	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Ra								Rate of Flow			
No.						1		Factor			Q-MCFPD	
	(24-Hou	r)	$/$ $h_{\mathbf{W}}p_{\mathbf{f}}$	p	sia	F-	t	$\mathbf{F}_{oldsymbol{g}}$			@ 15.025 psia	
1. 2. 3.	12.3650			338	3	9905		9393	1.034	1,027		
2.												
3° 4.											~~~~~~	
5.				 								
						agree 1		Tava				
					PRE	SSURE CA	ALCU'AT.	IONS				
	Liquid Hydro					cf/bbl.		Speci	ific Gravi	ty Sepa	rator Gas	
	ity of Liquid	d Hydro	carbons			deg.		Speci	ific Gravi	ty_Flow	ring Fluid	
'с			(1-e	·s)				$^{\mathrm{P}}\mathrm{c}$	957	Pc 38:	29.8	
\neg	$P_{\mathbf{w}}$			T -			7		2 -	T		
No.	- ($_{ t P_{f t}}^{2}$	F _c Q	($(F_cQ)^2$	(F	_{cQ)} ² -e-s)	P_{w}^{2}	$P_c^2 - P_w^2$	Ca	$\frac{P_{\mathbf{w}}}{P_{\mathbf{c}}}$	
-	Pt (psia)		<u> </u>			(1.	-e ^{-s})	<u></u>		P	77	
1. 2.			+			 -		700.6	3129.2	 	<u>li28</u>	
3. :			1	_		- 				+	-i	
4.										 		
5.	I											
Absolute Potential: 4679 MCFPD; n .75												
COMPANY SOUTHERN UNION PRODUCTION CO. ADDRESS P.O. Box 808 - Farmington, N. Maxico Original Signed By												
ADDRESS P.O. Box 808 - Farmington, N. Mexico AGENT and TITLE L. S. Muennink - Production Supt. L. S. MUENNINK												
WI:IM	vessed v. A	Rippe	recultur P		T LOOK C	FTOR SI	U lia					
			on Prod	ictio	n Co.							
						REMA	ARKS			10		
										. At 5		

DEC 28 1961'
OIL 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 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
- 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.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fnv 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 $P_{\mathbf{t}}$.