MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Poo]	Basi	Dakote	<u> </u>	Fc	Formation Dakota				County San Juan			
Initial Annual Special Date of Test 9-17-63												
Comp	oany Sou	hern Ur	ion Pr	od. Co.	<u> </u>	Lease	Richard	BOR1	Wel	1 No	2	
Unit P Sec. 11 Twp. 27-M Rge. 13-M Purchaser Kl Pase Natural Gas Company												
Casing 4-1/2 Wt. 10.50 I.D. 4.052 Set at 6168 Perf. 5924 To 6104												
Tubing 2-3/8 Wt. k.70 I.D. 1.995 Set at 6026 Perf. 6016 To 6026												
Gas Pay: From 592h To 610h L 6016 xG .660 CL Bar. Press. 12.0												
Producing Thru: Casing Tubing TT Type Well Single Gas												
Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 9-18-63 Packer Reservoir Temp.												
OBSERVED DATA												
Tested Through (Choke) (Choke) (Moher) Type Taps												
	(Prove)		Flow Da		Diff.	Temp.	Tubing Press.		Casing D	ata Temo.	Duration	
No.	(Line) Size	(Ori	fice)							i	of Flow	
SI	DIZE	- - 	120	POIR	12W		1836		1833		7 days	
1. 2.	2*	3/1		P30		€0.	yi 3 O	k	1273		3 hrs.	
2. 3.												
4.												
5.												
	Coeffi	cient	+	Pr			CULATION:		Compre	ss.	Rate of Flow	
No.				Fac			tor Factor		Factor Q-MCFPD		Q-MCFPD	
1.			√ n _w r		psia h2			- ^r g -9535	F _{pv} @ 15.025 psia			
2.	12.3650			- 14	12	.9981		•X232	1.000		3831	
3.			ļ								. 	
<u>4.</u> 5.												
				•	PR	ESSURE C	alcui ati	ONS				
as I	Liquid Hyo	lrocarbo	n Ratio			cf/bbl.		Speci	fic Gravi	ty Sepa	arator Gas	
ravi	ity of Lic		rocarbo			deg.		Speci P _c	- 01 0	ty Flow	ring Fluid	
`c				<u></u>		· · · · · · · · · · · · · · · · · · ·	•	· с		' C 		
	P _w		<u>, </u>				2		2 2			
No.	Pt (psia		${\bf t}^2 \mid {\bf F}_0$,Q	$(F_cQ)^2$	(F	cQ) ² -e ^{-s})	P_{w}^{2}	$P_c^2 - P_w^2$		Pw Pc	
1. 2.								651.2	1763.9		.695	
3.												
4. 5.												
	olute Pote	ential:	894	 .7		MCFPD:	n,	15	· /	Rti.t	IVEN	
COMPANY Southern Union Production Co.												
ADDRESS P. O. Box 808, Farmington, New Mexico AGENT and TITLE Verne Rockhold - Jr. Engineer SEP 20 1963												
WITNESSED Herman Meanally OIL CON.									V. COM			
COMPANY KI F to Wateral Gas Company cc (3) New Mexico O.C.C. REMARKS												
(1) Mr. Paul J. Clote												
	(2) Mr. H. L. Kendiroks, P.O. Box 990 - Farmington, New Mexico (1) File											
			tural G	las Com	pany, P	roration	Dept. P.	0. Box 1	492, El P	aso, Te	xas	

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.
- F_{nv} 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 $P_{\mathbf{t}}$.