MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Revised 12-1-55

Pool	Basin			Fc	rmation	Da	kota	" 	_County_	San .	luan		
Initial X Annual Special Date of Test 10-2-61													
Company Redfern & Herd Inc.						Lease	Airport		Wel	.1 No	2		
Unit P Sec. 8 Twp. 29N Rge. 13W Purchaser													
Casing 4 1/2 Wt. 10.5 I.D. Set at 5995 Perf. 5742 To 5924													
Tubing 2 3/8 Wt. 4.7 I.D. Set at 5925 Perf. Open ended To													
	Gas Pay: From 5742 To 5924 L xG 0.680 -GL Bar. Press.												
	Producing Thru: Casing Tubing X Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual												
Date	Date of Completion: 8-31-61 Packer Reservoir Temp.												
	OBSERVED DATA												
Tested Through (Frever) (Cheke) (Meter) Type Taps Flance													
	(Process)	F1	ow Data	ata			Tubing	Data	Casing D	ata			
No.	(Line) Size	(Chok	ce)	ress.	Dill		1		psig	1	Duration of Flow		
SI	Size	512	e I	sig	h _w	r.	1982		psig 2085	F.	<u> </u>	ir.	
1. 2.													
3.	411	1 1/4	. 7	8	2.4	86°			1020		7 Hours		
4· 5.													
FLOW CALCULATIONS													
	Coefficient				Pressure Flow Temp.			Gravity Compress. Rate of Flow					
No.	(24-Hour)		$\sqrt{h_{\mathbf{W}}p_{\mathbf{f}}}$		psia	Factor F _t		Factor Fg	Factor F _{pv}		Q-MCFPD @ 15.025 psia		
1. 2.													
2• 3•	9.643		7.8-2.4			9759	9393		1.062		1757		
3. 4. 5.				-									
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas ravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing Fluid c(1-e^-5)P_c 1397													
					_				• •				
No.	P _w	Pt2	F _c Q		$(F_cQ)^2$	(F (1	cQ) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$		l. F) <u>w</u>	
2.													
3. 4.	1032		-						3332	 	1.3	196	
5.										POFI			
Absolute Potential: 2163 MCFPD; n_75 1_2310 RILLIVE													
ADDRESS 1007 N. Dustin, Farmington, New Mexico													
WITNESSED CON CON CON													
COMPA	ANY					REM	ARKS	·		C ST	3/		
	NOTE:	Produ	ction t	test	on 24/6			producti	ion unit f	or 7 h	ours.		

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 60° F.
- Pc 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT 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.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If P_{W} cannot be taken because of manner of completion or condition of well, then P_{W} must be calculated by adding the pressure drop due to friction within the flow string to P_{+} .