MAIN OFFICE OUT NEW MEXICO OIL CONSERVATION COMMISSION

1957 SEP 9 M 9:05

Form C-122
Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poo	ol Jale	int	I	Formation	n	ivers		County	Lea		
	Initial Annual										
Company Westates Pet. Cor											
Unit D Sec. 4 Twp. 25 Rge. 37 Purchaser EPMC Casing 7 Wt. 24.0 I.D. Set at 3364 Perf. 2958 To 3152											
Tubing 2 Wt. 4.7 I.D. Set at 2995 Perf. To_											
Gas Pay: From 2985 To 3152 L 2995 xG .650 _GL Bar.Press. 13.2											
Dat	Producing Thru: Casing Tubing Type Well Single Single-Bradenhead-G. G. or G.O. Dual										
Date of Completion: July 1946 Packer Kone Reservoir Temp.											
						ÆD DATA					
Tested Through (Freer) (Meter) Type Taps Tange										ange	
		Flow	Data			Tubin	g Data	Casing D	ata	<u> </u>	
No	(Hine)	(Orifice	Press	· Diff.	Temp.	Press	. Temp.	Press.	Temp.	Duration	
140 •	Size	(Orifice Size	' psig	h _w	o _F .	psig	o _F ,	psig	□F.	of Flow Hr.	
SI	4	1.000		+		670		670		72	
1. 2. 3.		1.000	529	4.0	77	616		617		24	
2.	4	1.000	550	4.84	76	610		612	 	724	
3.	4		542	9.61	74	587		592		214	
4. 5.	4	1.000	555	13.69	76	575		582		24	
No.	(24-Hour) √		Pressur		ractor		Gravity Factor F _g			Rate of Flow Q-MCFPD @ 15.025 psia	
1.	6.135	46.	56		.9840		•9535 •9535	1.053		282	
2.	6.135		20		.9850 .9868		•9535	1.056		317	
3.	6.135		26		•900 •905		.9535	1.054		plift	
3 _e 4 _e 5 _e			-		*705	~	•9535	1.056		568	
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas 650 Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid F_c (1-e^-s) P_c 1466.6											
No.	Pt (psia)		F _c Q	$(F_cQ)^2$	(F ₁	cQ) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Ca H	Pw Pc	
1. 2.	629.2 623.2	395.9 388.4					397.2	69.6		•92	
3.	600.2	360.2					390.9 366.3	75 .9 100.5		.91	
4.	588.2	346.2					354.3	112.5	 	- 1 .87	
5.					- 				1		
Abso COMF ADDR AGEN	RESS			Book 1381 J.G. Ben	MCFPD; Fet. Co. Jal, N	rp.	000				
COMF	TESSED			Earl G. :	ORL GO						
UUIU	4214 T			ms 14 €4							

REMARKS
3rd test completed on this well. Slope in excess of 1.000 Slope of 1.000 was drawn through point representing the highest rate of flow.

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.
- P_c 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_{+} .