ELVIS A. UTZ

Form C-122

Revised 12-1-55

MULTI-POINT BACK FRESSURE TEST FOR DAS WELLS 100 COT 8 PM 2 22

mpany The			Formation_	Q#80	DAS	and the second second second	_County_	48	<u> </u>	
		Annual		Speci	al		_Date of	Test_6-2	9-56 7-56	
	Texas G	ompany	I	ease	. R. Ph	illips	Wel	l No. 10		
it 📘	Sec 6	Twp 20	-S Rge	· 37-E	Purch	naser Por	mian Bas	sim Pipe	Line Co.	
sing 5	Wt. 14	I.D _5	. 012 Set	at <u>3500</u>) Per	f. 320	6	To 3320		
bing 2 3/8	Wt. 4.7	0_1.D. <u>1</u>	995 Set	at_33	53 Per	·f ·33:19)	To332	2	
s Pay: From	3208	To 3320	L 331 9	xG	.665		207	Bar.Press	•	
oducing Thru	ı: Casiı	ng	Tub	ing	<u> </u>	_Type We	:11 St	gle		
te of Comple	tion:_1	2-24-53	Packer	2947			enhead-G. oir Temp			
2= 1.90%	N_= 1.	.29%		OBSERVE	DATA					
sted Through	_						Type Tap	s Pipe	<u> </u>	
	F1,	ow Data			Tubing	Dat a	Casing D	at a		
(Prover)	(Choke	Pres	B. Diff.						Duration	
. (Line) Size	(Orific	ce) e psig	z h		ĺ	$^{\mathrm{o}}_{\mathrm{F}_{\bullet}}$!!!	of Flow Hr.	
 	_		3 - W		983.0				72 1/2	
L	2.00	1 456.	8 8.0	81	\$59.0				24 1/4	
4	2.00	660.	5 20.8 0 20.0	78 78	726.4				23 1/2	
1	2.00	3 455.	0 30,8		728.8 599.9	:		-	23 1/2	
	<u></u>									
Coeffic	ient			LOW CALC			Compre	ee Ra	te of Flow	
		1		Footom		Gravity Comp Factor Fac		O MCDDD		
(24-Ho	ur) $$	/ h _w p _f	psia	osia F _t		F _g		@	@ 15.025 psia	
29.92		61.32	470.0	9404		-9498	1.0	43	1,782	
29.92		99.26	73.7	.9431		-9498	1.046		2,901	
29.92 29.92			68.2	9990		9498	1.0		2,834	
Liquid Hydr			PRE	•	LCULATIC	Speci	fic Gravi			
vity of Liqu		(1-e ^{-s})	0.141	deg.		Pc 39	6.2	Pc 99	g Fluid	
P _w	Pt ²	F _c Q	(F _c Q) ²	(1-	Q) ² e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Cal.	P _w P _c	
Pt (psia)	760.7 547.0	3.051	9.309	1.3		762.0	230.4	742.0		
\$72.2	550.6	1.852	23.54	3.3	78	53.9	438.5			
719.6		6.129	37.56	5.2		81.2	611.2	617.4	.62	
\$72.2 719.6 742.9 613.1	375.9	1	i							
\$72.2 739.4 742.9 613.1		s ada		MCFPD.	n 72					
710.6 712.6 613.1 solute Poten	tial:	exas Co	pany	MCFPD;	n72_					
710.6 712.9 613.1 solute Poten MPANY DRESS	tial:	exas Cor 270. His	Land, To	EXAS						
710.4 712.6 613.1 solute Poten	tial:	exas Cor 270. His	land, To	EXAS			l Ba	ken		

Due to a restriction in the choke rack, the second and third flows are close together. The restriction was removed and the fourth flow was obtained. We consider the test a good test as three points line up as required.

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 600 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.
- Fbv 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 Pw must be calculated by adding the pressure drop due to friction within the flow string to P_{t} .