MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool Angels Peak:				Formation Dakota				County_ Gan June			
Init	tial_X	Ann	ual		Spec	ial		Date of	Test_	2/20/6	<u> </u>
Comp	pany Astec (X1 & Gas (company		Lease	Kevran "	/4	Wel	ll No.		8
Unit	- B - S	Gec. 19 T	wp _ 261	Rg	e. 10 W	Purcl	naser	couthern	Union	Ges Ox	xeferry
Casi	ing 😽 W	t. 11.60 &	.50 I.D	Se	t at 65	16 Per	ւք <u>5</u> ֆ	30	To	O476	
	ing 2 3/8 W										
Gas	Pay: From_	6 430 To	ó 47 6	L 64	်း x	G 0.650()	E) <u>-</u> GL		Bar.Pı	ress	13
Producing Thru: Casing Tubing X Type Well Sincle Single-Bradenhead-G. G. or G.O. Dual											
Date	e of Complet	ion: 2/1	12/60	Packer	rNo	Sing	;Le-Brade _Reservo	enhead-G. oir Temp.	144 144	G.O.	Dual
					OBSERV	ED DATA					
Test	ed Through	(Proper)	(Choke)	(HUCCH)				Type Tap	s		
		Flow				Tuhing	Data	Casing I		Ţ	
T		(Choke)	Press.	Diff.	Temp.	Press.		Press.		,	
No.	(Line) Size	(Griffee) Size		h	o _{ft} .	psig	°F.	psig	o _F .		of Flow Hr.
SI						2035		2035		_1	days
1. 2.		0.750				577	60	1500	ļ. —		boure
2. 3.				~					 	 	
4.											
5.			l					L			
				F	FLOW CAL	CULATIONS	,				
Coefficient		ent	Pre		Flow	w Temp. Gravit					
No.	(24-Hour) $\sqrt{h_{wp_f}}$					tor	Factor	Factor		Q-MCFPD @ 15.025 psia	
		1,)	w ^p f I	29	F.	t	Fg	Fpv		4	3040 psta
2.	12,3050			V)	4.000		0.9608	1.08	<u> </u>		
3.											
1. 2. 3. 4.											
5.										L	
				PRE	ESSURE C	ALCUIATIO	NS				
											_
	iquid Hydro ty of Liqui				ci/bbl. deg.			fic Gravi fic Gravi			
1	oj or Brqui		(1-e ^{-s})				P. 2	047	P2	4.19	0.209
							U				
	$P_{\mathbf{W}}$				7						
No.		P_{t}^{2}	F _c Q	$(F_cQ)^2$	(F	c ^Q) ² -e ^{-s})	P_w^2	$P_c^2 - P_w^2$	C	al.	$P_{\mathbf{w}}$
	Pt (psia)		<u> </u>		(1	-e-s)	•			P _w	Pw Pc
$\frac{1}{2}$	1512						.266.144	1.904.06	5		
3.									 -		
1. 2. 3. 4. 5.											
			<u>_</u>		L			L			
Abso	lute Potent	ial:15	<u>.974</u>		_MCFPD;	n	.75				
		786, Fara		her Mar	Leo						
AGEN'	Tand TITLE	ORIGINAL SIG	NED BY L. M	i. steven:	S	L. M. 8	tevens,	Dist. Eng	dneer		
	ESSED										
COMP.	ANY				REMA	ARKS					



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 ($P_{\rm W}$). MCF/da. @ 15.025 psia and 60° F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\mathbf{w}}$ Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_{t} Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{pv} : 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 $P_{\mathbf{t}}$.

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