Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Basin West K		cota	Fo	rmation_	Dak	ota	 	_County_	San	Juan	
Init	ial		_Annua	al		Spec	ial	x	_Date of	Test	12-20-60	
Comp	oany Tennes	see Cas	Tra	smissi	on Co. I	ease <u>Be</u>	rmard R.	Gerard U	mit "AWel	1 No	1	
Unit	. <u>r</u> S		L_Twr	. 29 1	Rge	13W	Purc	haser				
Casi	ng 4 1/2" W	op t. <u>9.</u>	. 5 _I	.D	Set	at_ <u>58</u>	26 Pe	rf5	604	То	5720	
Tubi	ng 2 3/8 W	t. 4.	.7_I	.D	Set	at 55	60 Pe	rf		То		
Gas	Pay: From_		_To		L	x	G 0.65 E	stGL		Bar.Pr	ess12.0	
Prod	lucing Thru:	Casi	ing		Tub	ing	X	Туре We	ell 81	ngle G	us	
Date	of Complet	ion:		**************************************	Packer		Sin	gle-Brade Reservo	enhead-G. oir Temp	G. or (G.O. Dual	
						OBSERV	ED DATA					
Test	ed Through	(Pres)		Choke)	(MEKER)				TYPEXTUR	x		
·		F]	low Da	ıta			Tubing		Casing D			
No.	(Prover) (Line)	(Orifi	ice)		į				Press.	1	of Flow	
SI	Size	Siz	ze	psig	h _w	° _F .	psig 1898	°F.	psig 1916	F.	Hr.	
1.		0.7	50				171	76	466		3 hours	
2 . 3.												
4. 5.												
<u> </u>		<u></u>			L	T ON T OAT	OUT A MITON	<u>. </u>	 	<u> </u>	<u> </u>	
_	Coeffici	ent		Pro	essure	Flow		Gravity	Compre		Rate of Flow	
No.	(24-Hou	(24-Hour) $\sqrt{h_{w}p_{f}}$		— >f	psia		tor	Factor F _g	Facto F _{pv}	r	Q-MCFPD @ 15.025 psia	
1.	12.365		V W.	18		0.9850		0.9608	1.016 2,176			
1. 2. 3. 4.												
4.												
<u> </u>						eeime e	A COUT AMT	ONC				
_							ALCUIATI					
	iquid Hydro ty of Liqui		carbo	ns_		cf/bbl. deg.		Speci	fic Gravi	ty Sepa ty Flor	arator Gas wing Fluid 3,717,184	
c			(1	e ^{-s})_			•	Pc	1928	_Pc	3,717,184	
Т	$P_{\mathbf{w}}$	2	Τ_		2		.2		-2 -2		_	
No.	Pt (psia)	$P_{\mathbf{t}}^2$	F	Q	$(F_cQ)^2$	(F)	cQ) ² -e-s)	P _w 2	$P_c^2 - P_w^2$		$\frac{P_{\mathbf{w}}}{P_{\mathbf{c}}}$	
1. 2.	478						2	28,484	3,488,70	X		
3.			1									
4. 5.												
	lute Potent			281		MCFPD;	n	0.75	(1.	0483)		
ADDR	ANY Tennes	Box 17										
AGEN	T and TITLE ESSED	-	777	unj			J	. J. Lace	ey, Distri	ct Pet	roleum Engineer	
	ANY					ਪਾਸ਼ਕ	ARKS					
						i frint,	*******					



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.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_{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.
- Fg Gravity correction factor.
- F_{t} Flowing temperature correction factor.
- F_{pv} 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_{+} .

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