MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised	12-1-55

Pool Angel Peak Dakota I					Formation Dakota				County San Juan				
Init	ial X		Annual_			Spec	ial		_Date of	Test	11/10	0/60	
Comp	oany sout	hern Uni	on Gas	Conpa	n y]	Lease	Zachry		We]	Ll No	1	<u> </u>	
Unit	. <u>M</u> _S	ec. <u>10</u>	Twp	28N	Rge	e • <u>10</u>	Pur	rchaser_	Southern	Union U	as Cor	pany	
Casi	ng W	t. 9.5	OFI.D.	4.09	O_Set	tat <u>oć</u>	5 30 F	erf. 65	0	To 638	12, 6hi	50 <u>6570</u>	
Tubi	ng 1.90" W	t. <u>2.7</u>	I.D.	1.50	Set	t at <u>640</u>	<u>الر</u>	Perf. 639	6	To	61 101 1		
Gas	Pay: From_	6354	ro <u>6570</u>		L	x	G <u>0.70</u>			Bar.Pre	ess	12.0	
Prod	lucing Thru:	Casir	ng		Tul	oing	X	Type We	ell Sing	le-Gas			
Date	of Complet	ion:	10/31/	60	Packer	r	S1	.ngle-Brade Reservo	enhead-G. oir Temp.	G. or	3.0. D	ual	
						OBSERVI	ED DATA						
Test	ed Through	PHANE	(Chok	<u>(1</u>	eiek)				Type Tap	οε			
	(Prover)	Flo	w Data	ee l	a Dice m		Tubin	g Data	Casing I	ata	 	Duration	
No.	(Prover) (Line) Size	KKKKKA(I)	() () () () () () () () () ()	30	h	O _E	rress.	o _F ,	neig	1	l.	of Flow Hr.	
SI	PIZE	3126					2051		2081			7 usys	
1. 2.		7.10	7	58		820	758	820	1697			3 hrs.	
3 .]													
4. 5.											ļ		
No.	Coefficio	ent $\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		Pressure psia		LOW CALCULATI Flow Temp. Factor Ft		Gravity	Compress. Factor Fpv		Rate of Flow Q-MCFPD @ 15.025 psia		
1. 2. 3. 4. 5.	5.4315					0.9795		0.9258	1.087		4,122		
3.								····					
5.												····	
as L ravi	iquid Hydro ty of Liqui	d Hydroc		s)		CSSURE CA	ALCU AT	Speci Speci	fic Gravi fic Gravi	ty Flow		luid	
								P. 17		_P2	2920.		
No.	P _w Pt (psia) 1709	Pt ²	F _c Q	(F _c Q) ²	(F ₀	_{cQ)} ² -e ^{-s})	P _w 2	$P_{c}^{2}-P_{w}^{2}$		al.	P _w P _c	
1. 2.	+1∨7							<u> </u>	447767			, , U.J.	
3. 4.			ļ	_						 	_		
Abso COMP ADDR AGEN	ESS P. O. T and TITLE ESSED	nern Uni	on Gas 8 Far	mingt	on, Ne	MCFPD;		0.75					
J J.II						REMA	ARKS		(FI)	/Fn/			

NOV 21 1960 OIL CON. COM. DIST. 3

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 \equiv 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
- P_{f} Meter pressure, psia.
- $h_{\ensuremath{\mathbf{w}}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- Fnv 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_{+} .