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NEW MEXICO OIL CONSERVATION COMMISSION

O. C. C.
ARTESIA, DEFECTOR C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool _	Red Lake)		Fc	ormation	Penn	(Bond)	<u> </u>	_County_	May		
Initia	1		_Annual			Spec	ial		_Date of	Test_A	w.29 & 30,	, 1960
	y_Nuble											
Unit _	s	ec.	wP	79-	Rg	e. 27-5	Purch	naser_	atinosta)			
Casing	s y w	t. #.	I.I	.]:[Se ⁻	t at 9	Per	f. 99 1	6	То	145	
	2,375 W											
											ess. 13.2	
Date of	f Complet	ion:	7-6-6	7	Packe	r 9401	Sing	gle-Brade _Reservo	nhead-G. ir Temp.	G or (3.0. Dual	·
	•						ED DATA					
Tested	Through	((Meter)				Type Tar	s_n	ange	
			low Dat				Tubing	Data	Casing I		 	
	(Prover)	(Cho	ke) I		Diff.	Temp.	Press.		Press.		3	tion Flow
No.	(Line) Size			psig	h _w	°F.	psig	°F.	psig	°F∙	Hr	•
SI		1.	230	435	7.0	105	1961	74		-	72	
1. 2. 3. 4.	•	I.	200	40	11.0	93	140	78			3	
$\frac{3}{l}$				400	23.0	92	72.5	76			3	
5.			200	475	28.0	-	883	78			30	
	;	•				FLOW CAL	CULATIONS	S				
	Coefficient			Pı		Flow	Temp.	Gravity	Compress. Factor F _{pv}			
No.	(24-Hour)		$\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$		psia		t	Fg				
1.	9,643	l	55.1	1	463,3 /	0,50		1,60	1,0	V	541.0	
2.	9,643 £		7303 12 P		465,3 V	0,50		1,000		¥030	355 /# 2 7 · 7	
3.	7.643	•	257.7	51	513.3	0,97		1,000	1,0	34-		165 1.8
1. 2. 3. 4. 5.	9,643	V	93,4	93 74	490,3 /	0,97		1,000	1,6	1.033	394,5	909.2
		11	7	1.	PR	ESSURE C	ALCU ATI	ONS				•
7 T <i>i</i>		(17/.		262,1	103	cf/bbl.		Sneci	fic Grav	itv Sen	arator Gas	;600
Jas Liq Gravity	uid Hydro of Liqui	d Hydr	rocarbo	าร_	54,6	deg		Speci	fic Grav	ity Flo	wing Fluid	1000
Fc	9,936 L		(1.	-e ^{-s})	6,326		-	P _c _	074,2	Pc	153,9	.7587
		.							γ			
No.	W	P	Fc	,	(F _c Q) ²	: (F	$(c_0)^2$	P_{w}^2	$P_c^2 - P_w^2$	C	al. Pw	,
	t (psia)	1		_		(1	-e J		300:1	1	al. Pw	
1. 2.	973,3	947			40,56	1	4.15	3017.0	200,0			
3.	301.3	112		3	201.00		4,11	846,3	307.		35,	
4.	726,3				<u> </u>	271.2	88.41	113.1 GI	300.	5353	12 65	
5.		L	240		16.47	MCFPD				_ L		
Absolu COMPAN	te Potent Y	Pro o	1 to the	Hada	Sample of the last	rior PD	11					
ADDRES	SS	1347		1	R, ALWOR	ng Bint	riet Sup	rtiniani			<u></u>	
	and TITL	4	12	`)								
WITINES	SED		السيا									
WITNES COMPAN	SED_		i Tesk	Comp			MARKS					

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 ($P_{\rm W}$). MCF/da. @ 15.025 psia and 600 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.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- F_{g} Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{pv} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.