NEW MEXICO OIL CONSERVATION COMMISSION

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Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

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Poo	Jalma	at		F	ormation	Yates	-7-R1ve	rs	County	Lea		
Ini	tial		Annu	al		Spec	cial	X	Date of	Test 4	/21-25/58	
Initial Annual Special X Date of Test 4/21-25/58 Company PETROLEUM CORPORATION Lease Dabbs Well No. 1												
Unit M Sec. 34 Twp 25 Rge. 37 Purchaser El Paso Nat'l Gas Co.												
Casing 7 Wt. 23 I.D. 6.366 Set at 2550 Perf. To												
Tubing2-3/8 Wt. 4.7 I.D. 1.995 Set at 2803 Perf. Open end To												
Gas Pay: From 2717 To 27852 L 2803 xG .665 _GL 1864 Bar. Press. 13.2												
Producing Thru: Casing Tubing X Type Well Single Re- Single-Bradenhead-G. G. or G.O. Dual												
Date	ne- e of Complet	cion:_	13-23	6-577	Packe	_r 2460	Sin	gle-Brade Reservo	enhead-G. oir Temp	G. or (G.O. Dual	
							ED DATA					
Tested Through (Prover) (Choke) (Meter) Type Taps Type Taps												
			Flow Da					Data	Casing D		Ī	
No.	(Prover) (Line)		oke) fice)	Press	ł	•	Press.	Temp.	Press.		Duration of Flow	
707	Size	S:	ize	psig	h _w	°F.	psig	°F.	psig	°F∙	Hr.	
SI	4	1.5	00	134	4.0	86	529 205	ļ		ļ <u>.</u>	72	
1. 2. 3. 4. 5.	4	1.5		130	15.21	83	139			-	24	
3.	4	1.5		107	24.01	76	153				24	
4.	4	1.5	00	117	33.64	74	132				24	
<u>5. l</u>					L			<u> </u>		<u></u>		
							CULATION					
[Coeffici	.ent		Pı	ressure			Gravity			Rate of Flow	
No.				Fac	tor	Factor	Facto	r	Q-MCFPD			
	(24-Hou	ır)	√ h _w p	f	psia F		t	$^{\mathtt{F}}_{\mathtt{g}}$	Fpv	į	@ 15.025 psia	
1.	13.99		24.2	15 14	7.2	.975	59	.9571	1.01	2	321	
2.	13.99		46.6	4 14			36	.9571	1.01		618	
3.	13.99		53.6	7 12	.0.2		50	.9571	1.010		715	
1. 2. 3. 4. 5.	13.99 66.1		3 13	130.2		.8	.9571	1.01		283		
5.												
					PR	ESSURE C	ALCULATI	ONS				
lag I	Liquid Hydro	oo mbor	a Datio	. D		cf/bbl.		Speci	fic Crossi	tu Sana	rator Gas.665	
lravi	ity of Liqui	d Hvdi	rocarbo	ns	¥	deg.		Speci	fic Gravi	ty Plow	ring Fluid	
7	°° 936°°	.a myar	(1	_e=s)	.120			P. 54	2.2	P _C 2	94.0	
Fravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc 9.936 (1-e-s) .120 Pc 542.2 Pc 294.0												
	$P_{\mathbf{w}}$		Т						· · · · · · · · · · · · · · · · · · ·			
No.	* W	P	F_{c}	Q	$(F_cQ)^2$	(F	$(cQ)^2$	P_{w}^{2}	$P_c^2 - P_w^2$	Ca	ıl. Pw	
	Pt (psia)	- τ	- - c	;	\ - C \ / /	l (i	_e_s)	. W	- C - W		Pw Pc	
1.	218.2	47.6	i 3.	19 	10.17	1 .	22	48.8	245.2	+	W	
2.	152.2	23.2			37.70		52	27.7	266.3			
	166,2	27.6	7.	10	50.41		05	33.7	260.3	L		
4.	145.2	21.1			76.91		23	30.7	263.7			
5.				I								
Absolute Potential: 980 MCFPD; n .771												
COMPANY SOUTHERN CALIFORNIA PETROLEUM CORPORATION												
					d. Tex	18		MISS VII				
AGENT and TITLE (Author Division Engineer 5-2-58												
	WITNESSED Tested by Whitling & Murray											
COMI	PANY			(/							
						REM	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 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
- Pf Meter pressure, psia.
- hw- Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{DV} 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 $P_{\mathbf{t}}$.