MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

				NEW			() ()	N COMMIS	SION 🚓	·	
						e en en	-\$.			1	Form C-122
				MULTI	-POINT H	BACK PRE	SSURE TE	ST FOR GA	AS WELLS		Revised 12-1-55
Pool	Monumer	it		<u> </u>	ormation	n Gr	ayburg		County_	Lea	
Init	ial		Annı	ual		Spe	cial		Date of	Test_L	2/8-9/58
Comp	any Amorada	Petro	loum (Corpora	tion	Lease_	L.M. La	mbert	We:	ll No.	2
	G										
	ng 6-5/8										1713
			/t. <u>6.5</u> I.D								
										-	ss. 13.2
	ucing Thru						Sir	ngle-Brad	enhead-G.	G. or G	.O. Dual
Date	of Comple	tion:_	12/1/9	<u>:4</u>	Packe	r	64	Reserv	oir Temp.		
						OBSERV	ED DATA				
Test	ed Through	(Duce	er) 6	Obole)	(Meter)				Type Tar	s Flan	ige
	Flow Data							g Data	Casing I		
No.	(Line)	and a		Press	Diff.	Temp.		Temp.			Duration
	Size	4 7		psig	h _w	°F.	psig	°F.	psig	o _F .	cf Flow Hr.
SI	4*	+					941	73			
1. 2. 3.		2		733	4.3	72 70	735	72			3
3.	411	21	M	660	6.5	59	670	59			3
4. 5.	- 	0.63		104	8.6	57	812	57			3
	Prever	Me Bac	5 In.	15.00	<u> </u>	58		58	<u> </u>	<u> </u>	29
	No. (24-Hour)		ur) $\sqrt{h_{\mathbf{W}}p_{\mathbf{f}}}$		Pressure FI		CULATION Temp.	Gravity	Compre	ss.	Rate of Flow
No.					:-		tor	Factor Fa		r	Q-MCFPD
					psia	F		Fg	F _{pv}		@ 15.025 psia
1. 2.	25.58		29.73 56.65			0. 9887 0. 9905		0.9571 0.9571	1.092		785.13 284,41
<u>3</u> .	*		66.54			1.001		0.9571	1.078		1757.90/7
<u>4.</u> <u>5.</u>	4.3555		72.9		17.2	1.002		0.9571	1.065		1963.53 17/1.9:
<u></u>							ALCULATI	0.9571	1,51		1027.30 10 15
7 Ti			5				ALCOUATT				
Jas Li Gravit	quid Hydro y of Liqui	carbon d Hydr	ratio ocarbo	ons N	48	cf/bbl. deg.		Speci Speci	fic Gravi fic Gravi	ty Separ ty Flowi	rator Gas <u>O.654</u>
Fc Ye		· · · · · · · · · · · · · · · · · · ·		L-e ⁻⁵)	0.154				954.2		0.50
,,]	P _w	-2			, ,2		.2		2 0	T	1
No.	Pt (psia)	$P_{\mathbf{t}}^2$	Fc	.4	$(F_cQ)^2$	(F	$\frac{c^{Q}}{e^{-s}}$	P_w^2	$P_c^2 - P_w^2$	Cal	P _W P _C
1.	86.2	785.35	A.	666	21,215		27	784.62	121.66	P _w	Pc 93./
2.	48.2	559.80		695	75.603	11.	64	571.44	339.04/-	755.9	79.2
	20.2	384.65			132.64	16.		483.14 405.08	505.126.4		72.8
	25.2	680.96	6.	026	36.313		59	686.55	223-95	828.5	/ 86.8
Absolu	ute Potent					_MCFPD;	n0_	64.970	324 st		-
COMPAN ADDRES	~				poration						
AGENT	and TITLE	West D	- Mon	Bress	New Hex		trict En	oinoe-			
WITNES		iest						Gracet.			
COMPA	A T	P ermi an	Basti	Pipe	Line Cor	DEMA	DVC				

In order to prevent waste and protect correlative rights, a 4-point, 3 hr flow rate test was taken to determine the slepe; a 20-hr. one-point test was taken to determine the absolute petantial. On this 20-hr. test the gas was measured with a critical flow prover. No pipeline available for gas, therefore it was necessary to vent the gas to the atmosphere.

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_w) . MCF/da. @ 15.025 psia and 60° F.
- PcI 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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.
- $F_g = Gravity$ correction factor.
- Ft Flowing temperature correction factor.
- $F_{\hat{p}v}$ 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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