MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool	Crosby	Devenia	<u>n</u>	F	ormation	<u>De</u>	vonian	~ <u></u>	County_	Lea	
Initi	al	<u>x</u>	Annua	al		Spec	cial		Date of	Test_	10-21 63
Compa	ny Union	Texas	Petr.	Corpor	etion	Lease <u>Gr</u>	eg Ped E	Paso	We	ll No	1
Jnit	0	_Sec3	3 Tw	o 25	-8 Rg	e <u>37 E</u>	Purc	haser_E	l Paso Mat	'l Gas	Company
Casin	5 1/2	Wt	23 _I	.D	Se	t at 84	60 Pe	rf8	308	То	8378
ubin,	<u>2-3/8</u>	_Wt	4.7 I	.D	Se	t at 83	92 Pe	rf		_To	
as Pa	ay: From	n 8308	To	8378	L 8	92>	G 0.63			_Bar.Pr	ess. <u>13.2</u>
							A	-			G.O. Dual
ate	of Comple	etion:_	0ct. 2	1.1963	Packe	rNo	Sin	gle-Brad Reserv	lenhead-G. roir Temp.	G. or	G.O. Dual
							ED DATA				
ested	l Through	n (**rov	(ver) (0	Choke)	(Meter)				Type Ta	ps	
	(Prover		rlow Da		Diff	Tomp	Tubing	Data	Casing Press.	Data	Duration
0.	(\mathtt{Line})	(Orif	fice)							-	of Flow
I	Size	Si	ize	psig	h _w	ř.	psig 2215	· F.	psig 2260	F.	Hr.
•	2	1.12		89		78	1960		2121		3
•	2	1.15	0	87		76	1838		2051		1-1/2
	2	1.37		83 78		74 64	1732		1996	+	1-1/2
	2	1.50		78		64	1695	 	1956	+	24
٥.	Coefficient (24-Hour)		$\sqrt{h_{W}p}$			FLOW CALCULATI Flow Temp. Factor Ft		Gravity Factor	Factor		Q_MCFPD
	28.2569			- 1	02.2	0.98		0.9726	1.000		2,762
•	35.6738				00.2	0.98		0.9728	1.0		3,125
<u>c </u>	13,828 6_				96.2	0.98		0.9728			h,047
	54.3653				91.2	0.99		0.9728 0.9728	1.0		4,805
avity	uid Hydr of Liqu	rocarbon uid Hydr	ocarbo	158 ns	-790	cf/bbl.	ALCU ATI	ONS Spec Spec		ity Flo	arator Gaswing Fluid
) W					-		<u></u>			
0 • F	t (psia)				(F _c Q) ²		cQ) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$		al. Pw Pw Pc
	973.2	3893.5	127		Near	nanaga		554.8 260.0	612.6	20 69	
. 1	715.2	30h5.7	212		* a w			036.0	1130.5	,	12 8839
<u> </u>	698.2	2683.0	298	3.5				756.6	1410.8	1793	0.2 8526
1	708.2	2917.9	204	9.5.	<u> </u>			877.7	1289.7	1969	1,2 8663
	te Poten					MCFPD;	n 0.7	57			
MPAN	Y Union	Texas P	etrole	ım Cor	poration	<u> </u>					······································
ENT	S and TITI	Pox 18				roleum I	Ingineer				
lines	SED	-R- A-	Mikel								
OMPA N	Υ	El Pes	o Matu	cal Ca	s Compan	v	1 577.5				
							ARKS	PH '63	g Second		

* THE WELL PRODUCED 30.26 BBLE. CONDENSATE PLUS 6.69 ESLS. OF WATER DURING 24 HR. POINT. HOBBS OFFICE O. C. C.

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.
- P_c= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- Pw 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_{DV} 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_{+} .