MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS Form C-122 Revised 12-1-55 Formation McKee County 77 2022

Pool South Vacuum

Init	tial	Annual				Special			Date of	Te st	March 1, 1959	
Comp	pany The	Pure Oil	l. Comp	any		Lease	South V	acuun	Wel	1 No	2-35 (McKee)	
Unit	. <u>1</u>	Sec. 3	5 Tw	p. 18	3-S Rg	e. 35 -	E Purc	haser F	hillips Po	troleu	m Company	
XXXX	19 5°	Wt. 17	. 93 1	.D4,	27 0 Se	t at_ <u>13</u>	661 Pe	rf	.3,020	To	3,023	
	ing 2**	_										
Gas	Pay: From	13,62	7 _{0_}	13,823	L1	3 ,622 x	.7 51 5		10,225	Bar.Pre	ss. 13.2 psi	
Prod	lucing Thru	: Cas	ing_		Tu	bing_	x	Type We	ell G. (Dual		
							Sin	gle-Brade	enhead-G。	${ t G.}$ or ${ t G}$.O. Dual	
Date	e of Comple	tion:	7-4	.0-70	Packe	r durber	POUT TOO	k-Reservo	oir Temp	105		
						OBSERV	ED DATA					
Test	ed Through	(Prov	er) ((Choke)	(Meter)				Type Tap	e Flan	con a	
1050		<u> </u>	617 7	onoke)	(Metel)				Type Tap	5	80	
7,			Flow Data (Choke) Pres		Dicci m			Data	Casing D			
No.	(Prover) (Line)				• Diff	_	Press.	1		Temp.	Duration of Flow	
	Size			psig	h _w	$\circ_{\mathtt{F}}.$	psig	°F.	psig	[⊃] F•	Hr.	
SI							3495					
1. 2. 3.	4.026	1.		18	38	82	543	75	-	-	24 hrs.	
2.	4.026	1.		18 18	32 29	65	393 272	63		-	22	
4.	4.026	1.		18	28	33 38	201	62	-	-	2 <u>1</u> 24	
4. 5.								 				
		-				DI OU CAT	OUT AUTON	· · ·				
	Coeffic	Coefficient Pressur					CULATION Temp.	Gravity	vity Compress. Rate of Flow			
No.						Factor			Factor Facto		Q-MCFPD	
	(24-Ho		•	-	psia			$^{ m F}_{ m g}$	Fpv		@ 15.025 psia	
1.	19.27							.9345	-		606	
2.	19.27		31.60		31.2	•99		.9315 .9315	•		567	
3° 4.	19.27 19.27		30.05		31.2 31.2	1,02		·9345	-		556 5111	
5.					/	<u> </u>						
Gravi	iquid Hydro ty of Liqu 9.9 36		ocarbo		900 6 60°F	cf/bbldeg.		Speci Speci		ty_Flow	rator Gas .687 ing Fluid <u>.751</u> 12,300	
No.	P _w Pt (psia)	Pt2	9.	.9 36	$(F_cQ)^2$	_(±	c ^Q) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	Ca P	w Pc	
1. 2.	556.2 406.2	309 165	6.	01 61	36.15 31.50	1	8.25	369.41	11939.5	607	17.30	
3.	285.2	81.3	- - 2 •	52	30.40	1	5.90 5.35	218.01 132.57	12081.99 12167.4	3 169 3 366	13.35	
4.	214.2	81.3 45.8	<u> </u>	40	29.15	<u> </u>	4.73	95.08	12204.9	2 310		
5.												
Abso COMP	lute Poten ANY		53 Pure		Company	MCFPD;	n	-1.249				
ADDR	ESS	Box	c 2107	- For	t Worth		s				· · · · · · · · · · · · · · · · · · ·	
	T and TITL				Prod.	Engr.	Dix	pi	edil			
WITN COMP	ESSED			ttlejo	ohn Company			<i>7</i>				
OUTIF	VM.T	111	s rure	· ATT	A TITO CITY							

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 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
- Pf Meter pressure, psia.
- $h_{\mbox{W}}$ 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_{+} .