i-EPNG Bill Parrish

1-D

1-Tidewater, 1NW,1-Lion
1-Moncrief, 1 Tex MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS
1-F Nat'1.

Form C-122

Revised 12-1-55

Poc	ol <u>Basin Dakota</u> Formation Dak					Dakota	a County San Juan				
Initial X Annual					Spec	V	Date of Test. 6/30/61				
Company Southwest Production Co.					Lease Charles Hutton			Well No. 1			
Unit A Sec. 23 Twp. 30N Rge. 12W Purchaser El Paso Natural Gas Company											
	ing 42" W										
Tubing 12" Wt. 2.75# I.D. 1.610											
Gas Pay: From 6290 To 6454 L 6464 xG .67 -GL Bar. Press. 12.0											
Producing Thru: Casing Tubing X Type Well Single-Gas Single-Bradenhead-G. G. or G.O. Dual Date of Completion: Packer Reservoir Temp.											
OBSERVED DATA Togted Through (Through) (Through) (Through)											
Tested Through (Choke) (KKKKX) Flow Data Tubing Data								Type Taps			
	(Prover)	(Choke)	Press.		Temp.	Press.	Data Temp.	Casing I	Temp.		
No.	(Line) Size	(Orifice) Size		h _w	°F.	p si g	°F.	psig	o _F ∙	of Flow Hr.	
SI						2200		2200		7-Day	
1. 2.		3/4"	233			2 33	79	1050	<u> </u>	3-Hz.	
<u>3.</u>			+						 		
<u>4.</u> 5.											
<u> </u>			4				[<u> </u>	L	
FLOW CALCULATIONS											
N-	Coeffici	ent	Pr	essure	Flow Temp. Gravit		Gravity	y Compress. Rate of Flow			
No.	(24-Hour) $\sqrt{h_{wl}}$		-Da	— neia		tor	Factor	Facto	r	Q-MCFPD @ 15.025 psia	
7	12.3650					C	Fg Fpv .9463 1.023				
1. 2. 3. 4. 5.				245 .9822		.,,,,,,,		1,020		2,000	
3.											
5.											
				PR.	ESSURE CA	ALCUIATIO	ONS				
Jas I	Liquid Hydro	carbon Rati	Lo		cf/bbl.		Speci	fic Gravi	ty Sepa	rator Gas	
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Flui									ing fluid		
(1-e ^{-s})							Pc 2212 Pc 4892.9				
							P _w 1	062	P _w 2 11	127.8	
No.	$P_{\mathbf{W}}$	Pt F	,]	$(F_cQ)^2$	/p	0)2	ר מ	P _c -P _w ²		1	
- 1	Pt (psia)	t f	CQ	(rcm)	(1-	Q) ² -e ^{-s})	P_w^2	rc-Pw	I	$\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$	
Ţ.							1127.8	3765.1		.480	
1. 2. 3. 4. 5.									-		
4.									 		
<i>5</i> •											
Absolute Potential: 3.505 MCFPD; n .75											
ADDRESS 162 Petr. Center Bldg., Farmington, N. M.											
ADDRESS 162 Petr. Center Bldg., Farmington, N. M. AGENT and TITLE George L. Hoffman, Jr. Production Foreman											
WITNESSED COMPANY											
COMP	MINI		···		REMA	ARKS		100	- 	·	
								JUL1	Q 1961		
GIL CON. COM											

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 Tactual 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
- 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.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} 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 $P_{\rm t}$.