MULTI-POINT BACK PRESSURE REST FOR GAS WELLS Revised 12-1-55

Pool	Basin_	Fo	Formation Dakota				County Rio Arriba				
					Special						
Company Caulkins Oil Company				Lease Breech				-			
Unit A Sec. 10 Twp. 26N Rge. 6W Furchaser Southern Union Ges Company											
Casi	ng 4 1/2"	Wt. 10.	5 I.	D. 4.	. 000 Se	t at	604	Pari,	7305	_To	7590
Tubi	ng 2 3/8	Wt. 4.7	I.	D. 1.9	9 5 _Se	t at 7309 Perf.		Perf.	7309 To		
Gas Pay: From 7305 To 7590 L 7309 x3 .660 -GL 4824 Bar. Press. 12											
Prod	ucing Thru	: Cas:	ing	No	Tu	bing	Yes	Type	Well g	ingle (As C. D. D. L.
Date of Completion: 12-30-63 Packer None Reservoir Temp. 1800											
OBSERVED DATA											
Tested Through (Choke) (Method) Type Taps											
	(Prover)	F]	ow Da	ta Press I	Diff	Tom	Tub.	ng Data	Casing	Data	Duration
No.	(rine)	1 (Urli)	LCe) i		!			i			Duration of Flow
SI	Size	Siz	e	psig	h _w	°F.	Remarker was corn	g °F.		°F.	Hr.
1. 2.		3/4					2317 538		2286	 	7 day SI
2 . 3 .							730		1100		3 hours
4.		<u>i </u>								 	
5. 1											
					F	FLOW CALC	TULATE	ON.3			
No.	Coefficient (24-Hour)		h _w p.		ssure	Flow Temp. Factor Ft		Gravity Comp Factor Fac		or Q-MCFPD	
1.	14.1605		, W- 1	550		9905			F _g F _{pv}		7760
3.							Control of the second of the s				7700
3 · 4 · 5 ·											
2.1										3	
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas660 ravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing Fluid											
No.	P _w Pt (psia)	Pt ²	F _c Q		$(F_cQ)^2$	(F ₀	્ર) ^ટ સ=s)	P _w 2	P _c -P _w ²	Ca P	1. Pw
1. 2. 3.							111	1,387,684	3,893,12		-513
3.									<u> </u>		
4. 5.			<u> </u>						+	+	
Absolute Potential: 9772 MCFPD; n (1.36)n 1.2593 COMPANY Caulkins Oil Company ADDRESS P. Box 780 Farsington, New Mexico AGENT and TITLE James Production Superintendent											
COMPA										1 1 2 1	1000
						REMA	RKS			APΠ	į
											COM. COM./ DIST. 3

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_W). MCF/da. @ 15.025 psia and 600 F.
- P_c = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_w 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.
- $h_{\mathbf{W}}^{\perp}$ 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_{t} .