MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Poc	l Undest	mated	F	ormation	n Pic	tured Cl	iffs	County_	Rio Ar	riba
Ini	tial <u>x</u>	Ar	nual		Spec	ial	••	Date of	Test	8-4-58
Com	pany Magn	olia Petry	leum Com	any	Lease	Duff Fed	eral	We	ll No	1
Unit M Sec. 27 Twp. 24N Rge. 1 Purchaser Trans Western Pipeline									ineline	
	ing 5-1/2" i									
										,
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 3069 Perf To - Gas Pay: From 3058 To 3070 L 3069 xG 0.680 -GL 2087 Bar. Press. 12 psi										
Producing Thru: Casing Tubing Type Well single Single-Bradenhead-G. G. or G.O. Dual										
Date	e of Complet	ion: 7-	21-58	Packe	r no	Sin	gle-Brade Reserve	enhead-G. oir Temp.	G. or 100°F	G.O. Dual
						ED DATA	_			
Test	ted Through	(Dravay)	(Choke)	(Makes)				Tress Tax		
			Data	\ <u>^~~~</u>	, 			Type Tar		-
	(Prever)	(Choke)	Press.	Diff.	Temp.	Press.	Data Temp.	Casing I		Duration
No.	(Line) Size	Size) psig	h _w	°F.	psig	°F.	psig	□F•	of Flow Hr.
SI						592	70_	798	+	
1. 2.		3/1,"	198		- 60				 	3
<u>3. [</u>									 	
4.										
<u>5. [</u>		L							<u> </u>	
	-				FLOW CALC					
No.	Coeffici	ent	Pre	essure	Flow 1	Cemp.	Gravity	Compre	ss.	Rate of Flow
No.	(24-Hour) $\sqrt{h_{\mathbf{w}}p_{\mathbf{f}}}$			psia Fact		tor Factor		Factor		Q-MCFPD
, 	(24-1104)	1 / V 1	wpf 1)51a	rt	;	Fg	Fpv		@ 15.025 psia
1. 2. 3.	12.365			210	1.000		0202	+		
3.				210	1.000		<u>.9393</u>	1.02	2	2.493
4. 5.										
5.										
	iquid Hydrod ty of Liquid		hone		cf/bbl. deg.	LCU ATIO	Speci Speci			rator Gas ving Fluid <u>.680</u>
	P _w (psia)	Pt Pt	F _c Q	(F _c Q) ²	(Fc	Q) ² e ^{-s})	P _w 2	P _c -P _w ²	Ca P	Pw Pc
2.	501						251	405	 	
3.										
**									1	
<u>- </u>									<u> </u>	
bso]	lute Potenti	al:	3,757	<u></u>	_MCFPD;	n <u>0.85</u>				
DDRI	ANY Magno	Per Olok	enn Compa	ny						
GENT	GENT and TITLE William A Worgen, Jr. Gas Engineer									
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OMPA	NY	•							19.40	
					REMA)	RKS		RLLI AUG1	Wid	
								MUGI	J 1728	1

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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 (Pw). MCF/da. @ 15.025 psia and 600 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.
- $h_{\mathbf{W}}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv 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} .

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