MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pool South Blance				Formation Pictured Cliffs				<u>ffs</u>	County Rio Arriba			
											6-2)-58	
Comp	pany	Southern	Union C	as Co	<u>•</u>]	Lease	Jicar	illa	Wel	1 No	8 -r	
Unit D Sec. 12 Twp. 25 Rge. 5 Purchaser Southern Union Gas Co.												
Casi	ing 51"	Wt 15. _	5 _1.D.	1 . 9	50 Set	t at 31	86 RKB Pe	rf33	38	То	3378	
								_			3360	
	Gas Pay: From 3338 To 3378 L 33.30 xG 0.67 _GL 2231 Bar.Press. 12.0											
									_			
Date	ducing Thru	tion: (6-8-58		Packer	,	Sin	gle-Brade	enhead-G.	G. or C	G.O. Dual	
							ED DATA					
Test	ed Through	PEDFE	r) (Chol	ке) <u>(М</u>	exer)	ODDER(V.	ED DAIR		Type Tap	s		
Flow Data							Tubing Data Casing Data					
T		(Chok	e) Pre	ess.	Diff.	Temp.		Temp.	Press.	Temp.	Duration	
No.	(Line) Size	(Delta Siz	EME) e ps	sig	h _w	$\circ_{\mathtt{F}_{ullet}}$	p si g	o _F .	ĺ	ł	of Flow	
SI					w		978	 -	978			
1.		3/4*	38	6		630	386	630	739		9 Days	
2.												
3.		<u> </u>						<u> </u>				
4. 5.	 	 						 				
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—-г	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow											
No.	Coefficient			Pres					Factor Fpv		Rate of Flow Q-MCFPD @ 15.025 psia	
	(24-Hour) √ h _w p _f		h _w p _f	psia		Ft		F _o				
1. 12.365				398		0.9463		0.9971				
1. 2. 3. 4.												
3.				1				·····				
5.			 ,	 								
- -					PRE	SSURE CA	ALCU ATI	ONS				
	iquid Hydro					cf/bbl.					rator Gas	
1	ty of Liqu	<u>-</u>	carbons_ 1-e	5)		deg.		Pc_ 9		- ^	ring Fluid	
Ç	······································							P.		9:		
	- D								1/4	¥	64.0	
No.	$P_{\mathbf{w}}$	P _t ²	F _c Q	($F_cQ)^2$	(F	$c_{-\varepsilon^{-s}}^{Q)^2}$	P_w^2	$P_c^2 - P_w^2$	Ca	P _W P _C	
	Pt (psia)	ļ	<u> </u>			(1-	-e ^{-s})			P	уі	
$\frac{1}{2}$.								56h.0	416.1		0.759	
3.												
1. 2. 3. 4.		ļ	 							 		
		<u> </u>	<u> </u>							<u> </u>		
COMP	lute Poten	uthern [mion Ga	s Com	an Y		n_0.8	<u> </u>				
ADDR	ESS P. O.	Box 815	Tarmin	gton.	New M	exico						
AGEN	T and TITL ESSED	<u>G.</u>	L. Hoff	man								
COMP												
						REM	ARKS		المستندين والقائد المهادر والم		A CON	

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 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
- P_f Meter pressure, psia.
- hw Differential meter pressure, inches water.
- FgI Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\mathbf{W}}$ cannot be taken because of manner of completion or condition of well, then $P_{\mathbf{W}}$ must be calculated by adding the pressure drop due to friction within the flow string to P_{+} .

OIL CONSERVATION COMMIS

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