NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

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ori ca	ad.		12	_1	_ '	55	

Poo	1 Blanco M	esaver	de	Fc	rmation	Mesave	erde	- 	County	San Ju	an	
Ini	tialX_		_Annu	al		Spec	ial		_Date of	Test	8-30-	57
Com	pany Blackw	ood &	Nicho.	ls Comp	any I	Lease_N	ortheast	Blanco U	hit Wel	1 No	38-3	1
Unit B Sec. 31 Twp. 31 N Rge. 7 W Purchaser El Paso Natural Gas Company												
Cas	ing <u>5-1/2"</u> W	it. 15	.50 I	.D. 4.	90 Set	at 58 2	251 Per	rf. 525	41	To 5	7181	
	ing 2-3/8" W											
	Gas Pay: From To L xG GL Bar.Press. 11.5											
Producing Thru: Casing Tubing X Type Well Ges Single-Bradenhead-G. G. or G.O. Dual												
Date	Date of Completion: 8-21-57 Packer Reservoir Temp.											
						OBSERV	ED DATA					
Test	ted Through	Prof	eri (Choke)	(Metoero)				Type Tap	s	 .	
		'म	low Da	at.a		₋	Tubing	Data	Casing D	ata	<u> </u>	
$\overline{}$	(Prover)				Diff.	Temp.		Temp.			1	Duration
No.	(Line)	(Orif	ice)			_			1			of Flow
	Size	Si	ze	psig	h _w	°F•	psig	°F.	psig	[⊃] F•		Hr.
SI							1051		1051	ļ		
1.		3/	<u> </u>	352			352		893	 	3	hra.
2. 3.		ļ		 	\vdash					 		
7.		<u>, </u>								 	 -	
<u>4.</u> <u>5.</u>										 		
		L			<u> </u>							
							CULATIONS				 .	
[Coeffici	ent		Pr	essure		Temp.					of Flow
No.	(2) Hen	_\	/ h :	_	nain	Fact	tor	Factor F	Facto	1	Q-MC	
	(24-Hour) √ h _w p _f			psia		t	Fg	Fpv		@ 15.025 psia		
1. 2. 3. 4. 5.	12.3650				363.5						4	495
2.					+							
7: 1												
5.												
												
					PRE	SSURE CA	ALCO ATIO	ans				
							/ Rsi	7	fic Gravi fic Gravi			
	iquid Hydro					cf/bbl/		Speci	fic Gravi	ty Sepa	rator.	Gas
	ity of Liqui	d Hydr	ocarbo	ons		deg	DIL CON	Speci	fic Gravi	ty Flow	ing F	'luid
'c			(.	1-e ^{-s})		 -	DIL COL	° 19 57≥-	1062	_Pc	_112	5
						, j	OIT CON	COM	7			
	P _w							<u>~m, f</u>	<u> </u>			
No.	- w	$P_{\mathbf{t}}^2$	F	_c Q	$(F_cQ)^2$	(F,	$(Q)^2$	P. 2	$P_c^2 - P_w^2$	Ca	1.	$P_{\mathbf{w}}$
	Pt (psia)	U	'	`		(1	Q) ² -e ^{-s})	· • •		P	w	$\frac{P_{\mathbf{W}}}{P_{\mathbf{C}}}$
1.												
2.												
3.									<u> </u>		_	
4. 5.												
						 _			L			
	Absolute Potential: 11821 MCFPD; n											
COMPANY Blackwood & Nichols Company												
ADDRESS P. O. Box 1237, Durango, Colorado AGENT and TITLE Original Signed Delesso, Leos, Field Superintendent												
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COMPANYREMARKS												

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
- PwT Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- P_t 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.
- F_g : 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 $P_{\mathbf{t}}$.