NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

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

Pool	Ballare	1	F	rration	ation Pictured Cliffs				County Rio Arribe			
Initial X Annual Special Date of Test 12/30/56												
Comp	any <u>Wester</u>	rn Natura	L Gas Com	oany	Lease N	ordhaus-	Federal	Wel	1 No	٨	 	
	6											
Casi	ng 2256 V	vt. 13:7	_I.D. <u>5.</u> (112 Set	t at 22	6 5 Per	rf. 219	0	To	220		
Tubi	ng 1 V	vt. <u>1.7</u>	_I.D.,	049 Set	t at <u>22</u>	2 5 Per	rf. <u>200</u>	9	To	224		
Gas	Pay: From	2190 To	2220	_L_ 2 0	09 x(0.6	<u>6</u> GL	1326	Bar.Pre	ss. <u>12</u>	0	
Producing Thru: Casing I Tubing Type Well Single - Gas Single-Bradenhead-G. G. or G.O. Dual												
Date	of Complet	ion: <u>12</u>	/17/56	Packe	r	2116	_Reservo	ir Temp	93			
					OBSERVI	ED DATA						
Tested Through (Prover) (Choke) (Meter) Type Taps												
		Flow	v Data			Tubing	Data	Casing D	ata	T		
No.	(Line)	(Orifice	۱ (د	1					1	Dura of	Flow	
SI	Size	Size Size		 	o _F . psi			psig 636.3	F. 3 Hrs			
1. 2.			A.N.			251.7		236.5				
3.												
4. 5.		 				·			 			
	Coeffici	ent	Pr			CULATIONS		Compre	ss.	Rate of B	low	
No.	(24-Hour)			1	Factor		Factor	Factor		Q-MCFPD		
1.	14,1605			263.7	7.00		0.9924	1.02		3589.3		
3。												
4. 5.												
PRESSURE CALCULATIONS Sas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Fravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid C(1-e^{-S}) P_C												
No.	P _w	$P_{\mathbf{t}}^2$	F_c^Q	$(F_cQ)^2$	(F	cQ) ² -e-s)	P _w 2	P _c ² -P _w ²		Pw Po	X.	
1. 2.							69.54	350.76		-45	27	
3.]												
4. 5.									1			
COMP ADDR AGEN	lute Potent ANY WESTER ESS 823 ME T and TITLE	IN NATURAL	GAS COM		MCFPD;	n <u>n</u>	₹5	-	MAR	(Ha)		
WITN COMP	ESSED								Co	3		
					REM	ARKS		10	CON CO	4		

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 ($P_{\rm W}$). MCF/da. @ 15.025 psia and 60° F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- FwT 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.
- hwI Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- F_{nv} 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 $P_{\mathbf{t}}$.

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