NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Poo	1 Basir			Fc	rmation	n Da	kota		_County	San Ju	ıan
Initial Y Annual Special Date of Test 6-27-61											
Com	panyRedf	rn & H	erd,	Inc.	Lease Shepherd & Ke				¥el	1 No	1
Unit Sec29 Twp29N Rge11W Purchaser											
Casing 4-1/2 Wt 9.5&11.6 I.D. Set at 6166 Perf. 6010 To 6114										114	
Tubing 2-3/8 Wt. 4.7 I.D. Set at 6014 Perf. Open ended To											
Gas Pay: From 6010 To 6114 L xG 0.680 _GL Bar.Press											
Producing Thru: Casing Tubing X Type Well Single Gas Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: 6-16-61 Packer 5985 Reservoir Temp.											
OBSERVED DATA											
Tested Through (Choke) (Choke) (Type Taps											
		F	low Da	ita			Tubing Data Casing Data				
No.	(Prover) (Line)	(Prover) (Choke) (Line) (Orifice		Press.	Diff.		Press.	Temp.	Press.	Тетр.	Duration of Flow
SI	Size	Siz	ze	psig	h _w	°F.	psig 2079	°F.	psig	°F∙	Hr.
1.							20/9	 			
2.								 			
<u>3.</u>	28	211 3/411		402		68			-		3 hours
4.											
4. 5.											
						FLOW CAL				 -	
	Coefficient			Pr	essure	Flow	Temp. Gravity				Rate of Flow
No.	45.					Factor		Factor	Factor		
1	(24-Hour)		$V^{ m h_{f w^{ m p}}}$	h _w p _f psia		Ft		$F_{\mathbf{g}}$ $F_{\mathbf{p}\mathbf{v}}$		● 15.025 psia	
1.	12,3650				414 .992			-9393	1.04		4996
2.											
3.											
4.											
1. 2. 3. 4. 5.									_L		
PRESSURE CALCULATIONS											
ا مما	Liquid Hydro	oo mbom	Patio			cf/bbl.		Speci	fic Gravi	t.v. Sena	rator Gas
	ity of Liqui					deg.					ring Fluid
	9.602	•		L-e ^{-s})	.257			P _c			
"с	9.402		\^				•	- c			
											
Ī	$P_{\mathbf{w}}$	2			(= s)		2	- ^	_2 _2		, ,
No.		$P_{\mathbf{t}}^{2}$	F	,u	$(F_cQ)^2$	[] (F	cQ) ² -e-s)	$P_{\mathbf{w}}^2$	$P_c^2 - P_w^2$	Ca	I
	Pt (psia)					(1	-e ⁻⁰)			 	w Pc
1.											
اج ا								706 :	2/21		3 2003
7.	424	171.4	46	-97	2206.4	567	0 +	738-4	3634	- 	1.2031
1. 2. 3. 4. 5.			 			-+				+	
	olute Potent			38		MCFPD;	n75	1.1485	/1	?*! <i>`</i> }	
	PANY			Herd,					/- '	ulil f	*/^\
ACENIE and TITLE											
AGENT and TITLEOriginal signed by T. A. Engineer WITNESSED Ou 1961											
	NESSEU								- 144		101
COM	LWIAT					REM	ARKS				

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 = 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.
- 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- F_t Flowing temperature correction factor.
- $\mathbf{F}_{\mathbf{pv}}$ 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 $P_{\mathbf{t}}$.