NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Poo]	Basia I	lahota		Fo	rmation	Rehe	ts		_County_	San .	Puen	
Initial Annual Special Date of Test 6-19-63 Company PAN AMERICAN PERSOLEM CORP. Lease Gallegee Ganyon Wait Well No. 135												
Unit 186/4 Sec. 26 Twp. 298 Rge. 138 Purchaser Casing 4-1/2 Wt. 10.5 I.D. 4.052 Set at 6297 Perf. 6109-6202 To 6096-6106												
Casi	ing 4-1/2 W	t	I.	D. 4.	Se Se	t at	Pe	rf. 6181	-6302	To	6096-6108	
Tubing 2-3/8 Wt. 4.7 I.D. 1.995 Set at 6154 Perf. To												
Gas Pay: From 6108 To 6202 L 6249 xG 700 cetGL 4374 Bar. Press. 12												
Producing Thru: Casing Tubing I Type Well Single												
Producing Thru: Casing Tubing I Type Well Single—Bradenhead—G. G. or G.O. Dual Date of Completion: Packer Reservoir Temp.												
						OBSERV.	ED DATA					
Tested Through (Choke) (Choke) (Motor) Type Taps												
Flow Data				ta			Tubing	Data	Casing Data Press. Temp.			
No.	(Prover) (Line)				Diff.	Temp.		Temmp.	1	1		
NO.	(Line) Size	Si		psig	h _w	c _F .	psig	o _F .	psig	°F.	Hr.	
SI	7 days						2040		2064			
1.	I days	.754		303			441	`	776	ļ	3 hrs.	
2.												
3. 4.		<u>, </u>								 		
5.		 						 		-		
									·			
	FLOW CALCULATIONS Coefficient Pressure Flow Temp. Gravity Compress. Rate of Flow											
Ma		Coefficient										
No.	(24-Hou	_\	- / h =	wpf psia		Factor F _t		ractor	racto		€ 15.025 psia	
			$\sqrt{h_{\mathbf{w}}^{p}}$	f	T		. i	Fg	F _{pv}			
1.	12.3656				31.7	1.00		,7254	1,63		3771	
2.												
3.												
4.												
5.	 											
					PR:	ESSURE C	ALCULATI	ONS				
Gas I	iquid Hydro	carbon	Ratio)		cf/bbl.					arator Gas	
Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid										ring Fluid		
Fc			(1	-e ⁻⁵			•	P _c	2076	_Pc	,309,776	
	- D	-							γ			
No.	$P_{\mathbf{w}}$	$P_{\mathbf{t}}^{2}$	Fc	ا م	$(F_cQ)^2$	(10	cQ) ² -e ^{-s})	P _w 2	$P_c^2 - P_w^2$	C	al. P.	
NO.	Pt (psia)	¹ t	l rc		(LCA)	1 %	C*/ -e-s)	* w~	10 W		Pw Pc	
1.	· (PSIA)						/-		<u> </u>	+	<u>w</u>	
2.												
<u>3</u> .		<u> </u>								KIL		
4.										BI.	IVED	
5.										Kros		
	olute Porent	ial·	41	R30		MCFPD:	n 0.1	75		ALIG ?	6 1963	
V DDE	PPSS	H 480,	, Farm		, NOT THE	eren	_ ^~		/	OIL C	74.	
AGENT and TITLE WITNESSED COMPANY												
WITNESSED F. W. For Sty												
	PANY											
						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_W) . MCF/da. @ 15.025 psia and 60° F.
- P_c 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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.
- Ft Flowing temperature correction factor.
- F_{nv} Supercompressability factor.
- n _ 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 $P_{\mathbf{t}}$.