NEW MEXICO OIL CONSERVATION COMMISSION

SWP-93

1-WD 1-D 1-**F**

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122 Revised 12-1-55

Pool	l Basin	-Dakot	:a	F	ormation	Dal	cota		_County	San Ji	130
Initial X Annue.l_				Special				_Date of	Test	1/31/62	
Comp	pany Southwe	est Pr	oducti	on Co.		Lease	lancock F	Paderal	Wel	1 No	_4
Unit A Sec. 13 Twp. 27 Rge. 11 Purchaser El Paso Natural Gas Company											
Casi	ing 4½ W	t. <u>!</u>	<u>0.50</u> I	.D. <u>4.0</u>	40Se	t at	494 Pe	rf. 6326	<u> </u>	То	6354
Tubing 1½ Wt. 2.75 I.D. 1.6				10 Se	t at(354 Pe :	rf	<u>.</u>	To	6258	
Gas Pay: From 6326 To 6354 L6354XKY xG .67 _GL 4257 Bar.Press. 12.0											
Producing Thru: Casing Tubing X Type Well Single-Gas Single-Bradenhead-G. G. or G.O. Dual											
Date of Completion: 1/15/62 Packer Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp.											
OBSERVED DATA											
Tested Through (Choke) (Metern) Type Taps											
							Tuhing	ubing Data Casing Data			
		(Choke)		Press. Diff.		Temp.		Temp.			Duration
No.	(Line) Size	(Ori:	fice) ize	psig	h _w	o _F .	p si g	°F.	psig	oF.	of Flow Hr.
SI							2038		2038		7 days
1.		3,	/4	3 26		67	3 26	67	1300		3 hrc
2 . 3•		 		ļ	 						
4.			.,								
5.										<u> </u>	
FLOW CALCULATIONS											
,,,	Coefficient Pressure Flow						Temp. Gravity		Compress. Factor		Rate of Flow
No.	(24-Hour) - h		7 h	ra p _f psia fa		Fac F	tor Factor		F _{pv}		Q-MCMPD @ 15.025 psia
1.	12.3650				-9933	- 9463		1-037			
2.	- fin 6 . 101 . 10									3/	4,073
3°											
5.											
					PR	ESSURE C	A COULATT	ons			
	iquid Hydro ty of Liqui					cf/bbl.					arator Gas wing Fluid
Fc	o, or biqui			l-e ^{-s})				P _c		22	4202.5
								Pw			1721.3
No.	$P_{\mathbf{w}}$	Pŧ	2 -	,	$(F_cQ)^2$	(F)	_{cQ}) ²	p o	P _c ² -P _w ²		al. Pw
NO.	Pt (psia)	^P t	· r	3	(r _c Q)		c ^Q , / -e-s)	P _w 2	Pc-Pw	1	al. $\frac{P_{\mathbf{w}}}{P_{\mathbf{c}}}$
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2. 3.											
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COMF						Company		Mexico			· · · · · · · · · · · · · · · · · · ·
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COMPANY											
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FEB1 4 1962											62
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OIL CON. COM./ DIST. 3											

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 T 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
- 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.
- h. Differential meter pressure, inches water.
- Fg Gravity correction factor.
- Ft Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.
- Note: If P_W cannot be taken because of manner of completion or condition of well, then P_W must be calculated by adding the pressure drop due to friction within the flow string to P_t .