1-D

WILTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Form C-122 Revised 12-1-55

Pool Ba	in Dakota	For	mation_	Dak	ota		_County	Sa	n Juan
nitial	K Ann	ual	_	Spec	ial		_Date of	Te st	5/12/61
ompany Sout	west Product	tion Comp	any L	ease	Ona Mage	•	Wel	l No	1
	_Sec 4 T								
	Wt. 10.50								
ubing 14.	Wt. 2.9 6513	1.00 <u>1.01</u>	.u _seu	00	~ 67	-cī 4	428	Bar.Pr	ess. 12.0
roducing The	ru: Casing_		Tub	ng	Sing	Type we gle-Brade	nhead-G.	G. or	G.O. Dual
ate of Compl	etion: <u>5/3</u>	0/61	Packer	` <u></u>		Reservo	ır Temp.		
				OBSERV	ED DATA				
ested Throug	th (Trous	(Choke)	(Nextex.)				Type Tar	ε	
/D	Flow (Choke)	Data	Diff	Temp		Data Temp.	Casing I	ata Temp.	Duration
lo. (Line	(Orifice))		o _F .		°F.	psig	-	of Flow
Size	Size	psig	h _w	Г•	2188		2190		7-day
	3/4"	196		69	196		912		3-hrs.
•									
•									
		,		FLOW CAL	CULATION	S			
Coefficient Pressur			essure	re Flow Temp. Grav Factor Fac		Gravity Factor	or ractor Q-McTD		
(24-Hour) √ h		h _w pf			F _t		Fpv	@ 15.025 psia	
12.365)		208	.99	15	.9463		721	2,404
c									
0									<u> </u>
			PR	ESSURE (CALCUFATI	ONS			
as Liquid Hydrocarbon Ratiocf/bbl. ravity of Liquid Hydrocarbonsdeg.						Specific Gravity Separator Gas			
avity of Li	quid Hydroca	_(1-e ^{-s})		ueg	-	Pc	2202	Pc	4844.4
						Pw	924	P _w ²	853.8
P _w	P _t .	F _c Q	$(F_cQ)^2$	(1	F _c Q) ² 1-e ^{-s})	P _w 2	$P_c^2 - P_w^2$;	Cal. Pw Pc
Pt (psi	a)			(1	1-e ^{-s})	853.8	3990	0.6	P _w P _c .419
2.									
4.							1		
(harlyta Par	ontial	0.050		MCFPD	; n .75	 			
COMPANY 6.	ential:	headlan C	W/ Come						
AGENT and T .	2 Petroleum TLE George	L. Hoffm	an, Jr.	Produc	tion For	man			
WITNESSED COMPANY								- 74	
· 				RE	MARKS			r(L	
) purply water	ļ	11 9 1961
									OON. COM./ DIST. 3
									701. Ø

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 600 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
- P_{f} Meter pressure, psia.
- $h_{\boldsymbol{w}}\text{--}$ Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_{\mbox{t-}}$ Flowing temperature correction factor.
- F_{DV} Supercompressability factor.
- n I Slope of back pressure curve.

Note: If $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.