NEW MEXICO OIL CONSERVATION COMMISSION

HOBBS OFFICE OCC

ELVIS A. UTZ ENGINEER

County Lea

Form C-122

Revised 12-1-55

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS 1955 OCT 10 PM 3:06

Chom

_Formation

Pool

Initial Annual Annual				Special				Date of Test		
Company Colf Cil Corp.										
Unit										
Casing 5.5	Wt. 17.0	<u>D</u> I.D.	4-898	Set at 💃	35 Pe	erf. New	Y	то 36	Co.	
Tubing 2.37										
Gas Pay: Fro	m 11.60	To 1	Cod T	11.60			Ma A	_To		
Producing Thr	Coci	- ¹	* .	X(GL	OTO	_Bar.Pre	ss U•?	
Producing Thr Date of Compl	u. Cası	rug		ubing	Sin	Type W gle-Brad	ell <u>co</u> enhead-G.	G. or G	O. Dual	
Date of Compl	etion:	77-4-2	Pack	er 3796		Reserv	oir Temp.			
١,	Α.			OBSERVE						
Tested Through	h (P		(Meter	•)			Type Ta	ps	Pipe	
/	Fl	ow Data			Tubing	Data	Casing I			
No. (Line)	(Orifi	ce) Pre	ess. Diff	· Temp.		Temp.	Press.			
Size	Siz	e ps	sig h _w	o _F .	psig	° _F .	psig	o _F .	of Flow Hr.	
SI L.	2.25	3.7	3 9.4				906.9		73	
3.	8.25		16.1	72			90km)		23.75 23.59	
4.	2.25			70			796.7		23.15	
5.							702.4		43	
Coossia			<u> </u>	FLOW CALC	JLATIONS	S_				
Coeffic		Pressure		Flow Te		Gravity Compress. Rate Factor Factor Q-MC		ate of Flow		
(24-Ho	· 1 V	h _w p _f	psia	F+		$\mathbf{F}_{\boldsymbol{\sigma}}$	Fpv	@	Q-MCFPD 15.025 psia	
		55.76	107.1	.90%		·960	1.0	9	2613	
. 10.5)		121.17	MTC.T	.99th		-Shits	1.0	15	1636	
			4/4/7	.9905		·Mi	1.04	3	5780	
•			PR	ESSURE CAL	ርጠ ልሞተሰ	NS		2.665		
s Liquid Hydro	ocarbon R	atio						2.235	£	
avity of Liqui	id Hydroca	arbons	- 147	cf/bbl. deg.		Speci Speci	fic Gravit fic Gravit	ty Separa ty Flowin	ator Gas_	
1.80		(1-e ^{-s}) 444,			Pc	979-4	Pc	°99)	
$P_{\mathbf{W}}$								 		
o.	Pt ²	$F_{\mathbf{c}}^{\mathbf{Q}}$	$(F_cQ)^2$)2	P _w 2	$P_c^2 - P_w^2$	Cal.	P _w	
			23-C4	(1-e		45.5	133-8	72.	P _W P _C	
Pt (psia)	\$2.5				,	770-0	- 1514		4246	
Pt (psia)	657.2	6.8	77 okt	12.30		1956				
Pt (psia)	764.7		77.44 120.25	12.36 25.62		505.9	277-2	No.		
Pt (psia)	160.7 655.2 569.7	8.8	220.25	26.83			20 to 20 miles			
Pt (psia) Psolute Potent	ial: 011 C	12,200 Trans	120-25	MCFPD; n	•19		20 to 20 miles			
Pt (psia) Psolute Potent	ial: on c	12,20	120-25 0	26.83			20 to 20 miles			

REMARKS

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.
- Pc= 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
- Pf_ Meter pressure, psia.
- hw Differential meter pressure, inches water.
- Fg = Gravity correction factor.
- F_{t} Flowing temperature correction factor.
- Fpv- Supercompressability factor.
- n _ 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 $P_{\rm t}$.