NEW MEXICO OIL CONSERVATION COMMISSION HOBBS OFFICE OCC

ELVIS A. UTZ GAS ENGINEER

Form C-122

MULTI-POINT BACK PRESCUES TEST FOR CAS WELLS

Revised 12-1-55

Pool	ol Formation Communication								County				
Initial Annual Annual				Special				_Date of '	Test	-10-5			
Company Calf Cil Corporation													
	<u>K</u> S												
Casing 5.5 Wt. 11 I.D. 5.0													
Tubing 2.375 Wt. 4.77 I.D. 1.995 Set at 3737 Perf. To													
	Pay: From_												
	Producing Thru: Casing Tubing Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: Packer Reservoir Temp.													
5							ED DATA						
m	ed Through	-			(Meter)				Type Tap	s Mp)		
lesu	ed Inrough				1100017		Tubing	Data	Casing I	ata	<u> </u>		
	(Froter)	(ono	ow Dat		Diff.	Temp.		Temp.	Press.			Duration of Flow	
No.	(Line) Size	(Orifi	ice) ze	psig	h _w	\circ_{F} .	ps i g	°F.	psig	°F∙		Hr.	
SI							792.J 676.k		792.2			<u>R</u>	
1. 2.	- 1	1.5	5	ides.	8.07	67	45.0		656.7	<u> </u>		<u> </u>	
3. 4. 5.	1	1.3	9		133	-14-	33.i		80.1			8	
5.											<u> </u>		
		_				FLOW CAI	CULATION Temp.	S	Compr	255.	Rate	of Flow	
No.	Coeffic	ient	nt		Fa		ctor	Factor	Fact	Factor		CFPD	
	(24-Ho	ur)	$\frac{1}{2}$		psia		t	Fg	Fpv		@ 15.025 psia		
1.	25.26		47.34		457-3 -79		33	-3627	1,060		10		
1. 2. 3. 4. 5.	15.26 15.26		99.93 77.38		150-2 - 1		0 5 07	.7627 .7627	1.00		11/18		
5.									008 1-275				
					PR	ESSURE (CALCULATI	ONS	145 J	.505			
Gas I	Liquid Hydr	ocarbon	Ratio)		cf/bbl	•	Spec	ific Grav	ity Sep	arato	or Gas	
Gravi	ity of Liqu	iid Hydr	ocarbo	ns _e -s)	-0.19	deg	•	Pc-	ific Grav	P _C	"467		
· с			`	_				_					
	$P_{\mathbf{W}}$	P ₊		0	(F _c Q) ²	2 (F ()2	P _w 2	$P_c^2 - P_w^2$		al.	$P_{\mathbf{w}}$	
No.	Pt (psia)		F		(r _c w)	($F_cQ)^2$ 1-e-s)	_6.3_	100.5		P _w	Pc	
1.	107.5							-	363				
3.								-)111.j	- 850.J		 ‡	-17	
4. 5.							0.						
Ábs	olute Por	nie bli	_Corpo		B	MCFPD); n						
ADD	PANY RESS				er Kenis	•							
AGE	NT and TIT	LE	31.2	. Ø.	mith								
	IPANY					RI	EMARKS						

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 600 F.
- P_{c} = 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- P_{w} 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.
- $h_{\mathbf{w}}$ Differential meter pressure, inches water.
- $F_g \square$ Gravity correction factor.
- F_t Flowing temperature correction factor.
- F_{DV} 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 $P_{\mathbf{t}}$.