NEW MEXICO OIL CONSERVATION COMMISSION

FOR GAS WELLS///
POR GAS WELLS///
Revised 12-1-55

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MULTI-POINT	BACK	PRESSURE	TEST	FOR	GAS	WELL	5/

Pool	. Eumo	ont		Fo	rmation	Qu	een_		_County	Lea		
	Initial X Annual Special Date of Test 2-25-58											
Comp	any Cont	tinenta	1 011 C	mpa	u y	Lease	State A-	7	Well	L No	1_	
Unit	. <u>I</u> s	ec	Twp	19	Rg	e. <u>37</u>	Purc	haser	_			
Casi	ng 5 1/2 W	t. 1	7 I.D.		Se	t at _ 38	43Pe	rf	64	ro 3 '	752	
	Gas Pay: From 3464 To 3752 L 3464 xG .670 -GL 2321 Bar.Press. 13.2											
Data	Producing Thru: Casing x Tubing - Type Well G. O. Dual Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 2-25-58 Packer x Reservoir Temp. 90°											
Date	or combrer	1011;	2-2)-)0		racke			Reserve	remp•_			
					,		/ED DATA			_	_	
Test	ed Through	Proxe	K) (ICEN		(Meter)				Type Tap:		lang	(8
		Fl	ow Data				Tubing	Data	Casing Da	ata	į	Dunation
No.	(Přávěř) (Line)	(CXXX)	Me) Pr .ce)	ess.	Diff.	•			1		1	Duration of Flow
	Size		e p	sig	h _w	°F.	psig	o _F .	psig	[⊃] F•		Hr.
SI		7 05		23	7.5	14	 	 	936 865		├	712
1. 2.	4	1.25	0 4	2 <u>1 </u>		46 50		 	809		17	2
<u>3.</u>		1.25		00		63			742			2 \
	4	1.75			19	71	7		515			2
4. 5.				K								/
				`		FLOW CAI	LCULATION	is Hu	Compres	Por	w.F.	
T	Coeffici	ent		Pr	essure	LTOM	Temb• I	ATCATOR	Compres	55.	1000	01 110
No.			<u></u>			Fac	ctor	Factor	Facto	r	Q-!	MCFPD 5.025 psia
	(24-Hou	r)	$V^{\mathrm{h_{w}p_{f}}}$		psia	<u> </u>	ft		Fpv		W 1;	
1. 2. 3.	9.643		83.45		464.2 1.			9463	1.034		798	
2.	9.643		121.54		8.2	1.0098		#	1.070			198
<u>3. </u>	9.643		160.24		3.2	.9971		<u> </u>		1.082		580
4. 5.	19.270		123.46	80	2.2	.9896		#	1.091			2 43 1
PRESSURE CALCULATIONS as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas ravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid c1.793(1-e^{-5}) .148 P_C 949.2 P_C 901.0												
	P _w Pt (psia)	P _t ²	F _c Q		(F _c Q) ²	(.	F _c Q) ² 1-e ^{-s})	P _w 2	$P_c^2-P_w^2$	I	al.	P _W P _C
1. 2.	878.2	771.2		\dashv	2.04		30	771.5	129.5	878.4		.93 * .86
~•	822.2	676.0	2.15		4.62	1.		676.7 571.5	329.5	756.0		.80
7.	755.2	570.3 279.0			8.00 9.01	2.8		281.8	619.2	530.5		.56
4. 5.	528.2	617.V	4.30		- / • V -		-			1		
					 			72				
Absolute Potential: 3300 MCFPD; n .73 COMPANY Continental Oil Company												
AUUF	ADDRESS Box 427, Hobbs, New Mexico AGENT and TITLE W. D. Howard, Gas Tester											
	NT and TITLE NESSED	·	D. INWE	. 4,		201						
	PANY											
COM	. 4447		.,			RE	MARKS					

^{*} Drawdown of 5% on first rate not obtained because of freezing.

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 I 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.
- $h_{\mbox{\scriptsize W}}\mbox{\footnotesize I}$ Differential meter pressure, inches water.
- Fg 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 $P_{\mathbf{t}}$.