## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

Revised 12-1-55

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Pt (psia) (1-e-s) Pw Pc 1.06	niti				I	ormation	Ne.	e terms		_County_	KLO A	rribe	<u> </u>
		ial	x x	Annu	al		Spec	ial		_Date of	Test	7-2	9-58
H   Sec. 32 Twp   SW   Rge. 5W   Purchaser   not connected												_	
Sing   Sing   Wt. 1   I.D.							_						
bing1-1/k" wt. 23 I.D. Set at 5759' Perf. 5252' To 5774' s Pay: Prom To L xG .650 GL Bar.Press. 12  oducing Thru: Casing XXXX Tubing Type Well Single-Bradenhead-G. G. or G.O. Dual Reservoir Temp.  OBSERVED DATA  Sted Through (HWHH) (Choke) (HWHH) Smattin 7 days Type Taps  Flow Data Tubing Data Casing Data  (Prover) (Choke) Press. Diff. Temp. Press. Temp. Press. Temp. Of Flow Calculations  Size Size Psig hw OF. psig OF. psig OF. psig OF. Hr.  1084 3/h" 20 6 1 1084 3 1084 3 1084 4 3 1084 4			_										
S Pay: From				_									
Single													
Coefficient													
Sted Through (Holds) (Choke) (Mell) Start in 7 days Type Taps	te	of Complet	ion:_			Packer	r	Sir	gle-Brade Reservo	enhead-G. oir Temp.	G. or G	.O. D	ual 
Plow Data   Tubing Data   Casing Data		•				<del></del>							
Plow Data   Tubing Data   Casing Data	ste	ed Through	(HHH	ldd) (i	Choke	(NdVdJY	Sim	rt in 7	isys	Type Tar	s		
Choke   Claim   Clorifice   Corrifice   Size   psig   hw   OF   psig   OF   psig   OF   psig   OF   Hr.													
Pressure   Flow Temp.   Gravity   Compress.   Rate of Flow   Factor   Fa	Τ	(Prover)	(Cho	kal	Droce	Diff.	Temp.	Press	Temp.	Press.	Temp.		Duratio
FLOW CALCULATIONS    Coefficient	1	(Line) Size	(Orii Si	ice) ze	psig	h <sub>w</sub>	o <sub>F</sub> .	psig	°F.	psig	<sup>⊃</sup> F•		
FLOW CALCULATIONS   Compress.   Rate of Flow Temp.   Gravity   Compress.   Rate of Flow Temp.   Factor   Fact	L		l										hours
Pressure   Flow Calculations   Flow Temp.   Gravity   Compress.   Rate of Flow Temp.   Factor   Fact	#										<b>—</b>		
FLOW CALCULATIONS  Coefficient  Coefficient $(24-\text{Hour})$ $\sqrt{h_w p_f}$ Pressure  Factor  Factor	╁		) 	<del></del> _	┼			<u> </u>					
Coefficient									1			<u> </u>	-
Pactor   Factor   F												Data	- C 177
Part		Coeffici	ent		ľ				<b>Factor</b>	Facto	or	Q-MC	FPD
PRESSURE CALCUIATIONS  Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid Pc 1006			r)	$\sqrt{h_{\mathbf{w}}}$					Fg	Fpv	<u></u>		
PRESSURE CALCUMATIONS  Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas_vity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc 1006 PC 1006 PC 1000	╁	12.3650				232	•99	302	.9000	1.0	3		Z
PRESSURE CALCUTATIONS  Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas_ vity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc 1096 PC 1281.2													<del></del>
PRESSURE CALCUTATIONS  Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas_ vity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc 1096 PC 1281.2	Ţ							4					
Pw   Pt (psia)													
Pw   Pt (psia)						PR	ESSURE C	CALCUIAT	ions				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		iquid Hydro	ca rbor	Rati	0	PR				ific Grav	ity Sepa	ırator	· Gas
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	L: vit	ty of Liqui	d Hydr	rocarb	ons		cf/bbl.	•	Speci Speci	ific Gravi	ity Flov	wing F	
$P_{t}$ (psia) $P_{t}^{2}$ $F_{c}Q$ $(F_{c}Q)^{2}$	L: vit	ty of Liqui	d Hydr	rocarb	ons		cf/bbl.	•	Speci Speci	ific Gravi	ity Flov	wing F	
96.0 111.2 1.00	L: vit	ty of Liqui	d Hydr	rocarb (	ons		cf/bbldeg.	- -	Speci Speci P <sub>c</sub>	ific Gravi	P <sub>c</sub> 12	ving F	luid
	L: vit	ty of Liqui	d Hydr	rocarb (	ons 1-e <sup>-s</sup>		cf/bbldeg.	- -	Speci Speci P <sub>c</sub>	ific Gravi	ity Flov Pc 12	ving F	luid
	Livit	ty of Liqui	d Hydr	rocarb (	ons 1-e <sup>-s</sup>		cf/bbldeg.	- -	Speci Speci P <sub>c</sub> P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub>	ity Flov Pc 12	ving F	Pw Pc
	Livit	ty of Liqui	d Hydr	rocarb (	ons 1-e <sup>-s</sup>		cf/bbldeg.	- -	Speci Speci P <sub>c</sub> P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub>	ity Flov Pc 12	ving F	Pw Pc
	i Livit	P <sub>w</sub> Pt (psia)	d Hydr	cocarb (	oons 1-e <sup>-s</sup>	(F <sub>c</sub> Q) <sup>2</sup>	cf/bbl.deg.	[cQ) <sup>2</sup> [-e-s)	Speci Speci P <sub>c</sub>	P <sub>c</sub> -P <sub>w</sub>	ity Flov Pc 12	ving F	Pw Pc
	vit	Pw Pt (psia)	d Hydr	cocarb C F	oons 1-e <sup>-s</sup>	(F <sub>c</sub> Q) <sup>2</sup>	cf/bbl.deg.	[cQ) <sup>2</sup> [-e-s)	Speci Speci P <sub>c</sub> P <sub>w</sub> 2	P <sub>c</sub> -P <sub>w</sub>	ity Flov Pc 12	ving F	Pw Pc
OMPANY PACTIFIC MENTALISET PIPELINE CORPORATION  DDRESS 4184 West Programs, Francisco, New Mexico	L: vit	Pw Pt (psia)  lute Potent	d Hydr	rocarb (2) F	oons 1-e <sup>-s</sup>	(F <sub>c</sub> Q) <sup>2</sup>	cf/bbl.deg.	F <sub>c</sub> Q) <sup>2</sup> L-e <sup>-s</sup> )	Speci Speci P <sub>c</sub>	P <sub>c</sub> -P <sub>w</sub>	ity Flov Pc 12	ving F	Pw Pc
OMPANY PACIFIC MONTHURST PIPELINE CORPORATION  ODRESS 186 West Broadway, Paraington, May Marico  ENT and TITLE C. R. Wagner - Wall Test Engineer  TINESSED	La vit	Pw Pt (psia)  lute Potent ANY PAGE ESS 131 W T and TITLE	d Hydr	rocarb (2) F	oons 1-e <sup>-s</sup>	(F <sub>c</sub> Q) <sup>2</sup>	cf/bbl.deg.	F <sub>c</sub> Q) <sup>2</sup> L-e <sup>-s</sup> )	Speci Speci P <sub>c</sub>	P <sub>c</sub> -P <sub>w</sub>	ity Flov Pc 12	ving F	Pw Pc
DERES LISA West Broodway, Provinctor, New Mexico EENT and TITLE C. R. Wagner - Well Test Engineer OMPANY REMARKS	DOSO DOMPI	Pw Pt (psia)  lute Potent ANY PAGE ESS 131 W T and TITLE	d Hydr	rocarb (2) F	oons 1-e <sup>-s</sup>	(F <sub>c</sub> Q) <sup>2</sup>	cf/bbl.deg.  (F)  (F)  MCFPD:	FcQ) <sup>2</sup> -e-s)	Speci Speci P <sub>c</sub>	P <sub>c</sub> -P <sub>w</sub>	ity Flov Pc 12	ving F	Pw Pc

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 = 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
- $P_{w}$  Static wellhead working pressure as determined at the end of flow period. (Casing if flowing thru tubing, tubing if flowing thru casing.) psia
- $P_t$  Flowing wellhead pressure (tubing if flowing through tubing, casing if flowing through casing.) psia
- Pf Meter pressure, psia.
- $h_{\mbox{W}}$  Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_{t}$  Flowing temperature correction factor.
- $F_{\mathrm{DV}}$  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  $P_{\pm}$ .

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