## 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 ( $P_{\rm W}$ ). MCF/da. @ 15.025 psia and 60° F.
- $P_c$ I 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- $P_{\rm w}$ I 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.
- hw Differential meter pressure, inches water.
- Fg Gravity correction factor.
- $F_t$  Flowing temperature correction factor.
- Fpv Supercompressability factor.
- n I Slope of back pressure curve.

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

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## NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

## MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

FLOW CALCULATIONS  Seas Liquid Hydrocarbon Ratio  FLOW CALCULATIONS  FLOW CALCULATIONS  FLOW CALCULATIONS  Flow Temp. Gravity Compress. Rate of Flow Factor	Poc	ol	Undes	ignate	ed	I	Formation Pictured Cliffs					unty_	Rio	Arrib.	<u> </u>
Unit A Sec. 36 Twp. ZTN Rge. 3W Purchaser Part Fin Northwest Pipaline  Casing 7-5/8*Wt. 25,100* I.D. 6, 969* Set at 165* Perf. 385h* To 3860*  Tubing 2-3/8*Wt. h.7# I.D. 1,995* Set at 3875* Perf. To  Gas Fay: From 385h* To 3880* L 3875 *** *** *** *** *** *** *** *** *** *	Initial Annual Special Date of Test 10/2/58														
Casing 7.45/8*Wt. 1.76   I.D. 1.96/8   Set at 166'   Perf. 385h'   To 3860'	Con	Company Magnolia Petroleum Company Lease Jicarilla mgm Well No. 7 PC-UT													
Tubing 2-3/81 Nt.   1.7	Uni	Unit A Sec. 36 Twp. 27N Rge. 3W Purchaser Pacific Northwest Pipeline													
Gas Pay: From 385h; To 3880! L 3875	Casing 7-5/8" Wt. 25 1:0# I.D. 6.969" Set at 1.165! Perf. 3851: To 3880!														
Producing Thru:   Casing Tubing Single-Bradehead-G. G. or G.O. Dual	Tubing 2-3/8 Wt. 1.7# I.D. 1.995 Set at 3875 Perf. To														
Date of Completion: 8/21/58	Gas Pay: From 3854 To 3880 L 3875 xGest.0.680 GL 2635 Bar. Press. 12 pais														
Date of Completion: 8/21/58   Packer no   Reservoir Temp.	Producing Thru: Casing - Tubing x Type Well G.G. Dual  Single-Bradenhead-G. G. or G.O. Dual														
Type Taps	Date of Completion: 8/21/58 Packer no Reservoir Temp.														
Flow Data	OBSERVED DATA														
No.   (Prover)   (Choke)   Press.   Diff.   Temp.   Press.   Temp.   Press.   Temp.   Duration of Flow   Size   Size   psig   h_w   O_F.   psig   O_F.   p	Tes	Tested Through (Choke) x(Meter) Type Taps													
No.   Cline   Size   psig   hw   OF.   psig   OF.   psig   OF.   Hr.    SI   16   76											Cas	sing D	ata	I -	
Size   Size   psig   hw   OF,   psig   OF,	No	(Pro	over)	(Cho	oke) Sice)	Press	Diff.	Tem	p. Pres	ss. Temp			1	1	
1.   2n	_			Si	ize	psig	h <sub>w</sub>	° <sub>F</sub>	. psi	g °F.	ps	sig	<sup>⊃</sup> F•		
2. 3. 4. 5.  FLOW CALCULATIONS  FLOW CALCULATIONS  Flow Temp. Gravity Factor Fa									16			766			.,
3. 4. 5. FLOW CALCULATIONS  Flow Calculations  Flow Temp. Gravity Compress. Rate of Flow Temp. Factor Factor Factor Factor Fp. We 15.025 psia 1. 2. 3. 4. 5. PRESSURE CALCULATIONS  PRESSURE CALCULATIONS  PRESSURE CALCULATIONS  PRESSURE CALCULATIONS  PRESSURE CALCULATIONS  Cas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid Pc. F2  Pc. F2  No. Pw. Pt (psia) Pt FcQ (FcQ)2 (FcQ)2 (FcQ)2 Pw. Pc-Pw Fc  Absolute Potential: MCFPD; n Cas MGNUTA PETROLEUM COMPANY ADDRESS BOX 21006. HORBS, NEW MEXICO ACENT and TITLE William A Taxorge. Jr. Gas Ingineer COMPANY MGNUTA PETROLEUM COMPANY ADDRESS BOX 21006. HORBS, NEW MEXICO ACENT and TITLE William A Taxorge. Jr. Gas Ingineer COMPANY COMPANY MINESSED COMPANY Jr. Gas Ingineer Company Company Accompany Jr. Gas Ingineer Company Company Company Company Jr. Gas Ingineer Company Company Company Company Company Jr. Gas Ingineer Company Com		211	2" 0.750"		-	2 -			<u> </u>		766 -		3 hiss.		
FLOW CALCULATIONS  No. Coefficient   Pressure   Flow Temp. Gravity   Compress.   Rate of Flow   Q-MCFPD	3.					WELL.	DID NOT	FLOW	WHILE OP	ENED TO TH	E ATM	SPHER	2	工	
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(24-Hour)	., ]					P	Pressure Flow Te			Gravity		1 - 1			
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PRESSURE CALCULATIONS  as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specify of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc	2.														
PRESSURE CALCULATIONS  as Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specify of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc	<u>ر.</u>				<del></del>			<del></del>	<del></del>		$\rightarrow$				7
Ras Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity of Liquid Hydrocarbons deg. Specific Gravity Flowing Fluid Pc Pc Pc  No. Pw Pt (psia) Pt FcQ (FcQ)2 (FcQ)2 Pw2 Pc-Pw Pc Cal. Pw Fc  1. 2. 3. 4. 5. 5.	5.														
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