## NEW MEXICO OIL CONSERVATION COMMISSION

Jalmat

Form C-122 MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS. Revised 12-1-55

Pod	ol			F	Formation Yates			CountyLea				
Initial Annual Special X Date of Test 12-3 to 12-7-56												
Company R. Olsen Oil Company Lease Courtland Meyer Well No. 1											1	
Unit J _ Sec. 6 _ Twp _ 24 S _ Rge 37 E _ Purchaser El Paso Natural Gas Company												
Casing 7 Wt. 23# I.D. Set at 3476 Perf. To												
Tubing 2½ Wt. 6.5 I.D. Set at 3585 Perf. To												
Gas Pay: From 3064 To 3191 L 3064 xG .650 -GL 1992 Bar.Press. 13.2												
Producing Thru: Casing X Tubing Type Well G.O. Dual  Single-Bradenhead-G. G. or G.O. Dual												
Date of Completion: 8-24-54 Packer Reservoir Temp.												
OBSERVED DATA												
Tested Through XONNER (Meter)												
		F	low Da	ta		<del></del> -1	Tubing	Data	Casing Data		T	
	x(ideodex)	*(*0)116	Kex'x	Press.	Diff.	l Temp.	Press.	l'emo.	l Press.	Temp.	Duration	
No.	(Line) Size	(Orif	ice)   ze	psig	$h_{f w}$	o <sub>F</sub> .	psig	o <sub>F</sub> ,	psig		of Flow	
SI		†	<del></del>					<u> </u>	907		<del></del>	
1.		1.000		539	39.7	102			757	<del> </del>	72	
2.	4	1.000		557	58.5	100	·		723	<del> </del>	24	
<u>3.                                    </u>	4	1.000		540	82.8	104			685		24	
4.	4	1.000		535	91.2	100			670		24	
5.		ļ										
	Coeffic	Coefficient Pr			FLOW CALCULATI			ONS Gravity Compress. Rate of Flow				
No.	GOCTITETENG			' ' '	essure	Fact	temp.	Fact on	Compre	55.	vare of klow	
	flg. (24-Hou	(24-Hour) -		h.pe		raci F.		F_	Factor F <sub>pv</sub>		@ 15.025 psia	
1.	6.135		148.02		.9618		-					
2.	6.135		182.64		.9636		<del></del>	.9608	1.042		874	
3 <sub>e</sub>	6.135		214.00		.9602		<del></del>	.9608			1.085	
4.	6.135		223.56		.9636		.9608		1.042		1,263	
4. 5.			<u> </u>			17020		. 3000	1.046	<del></del>	1,323	
PRESSURE CALCULATIONS  as Liquid Hydrocarbon Ratiocf/bbl. Specific Gravity Separator Gas ravity of Liquid Hydrocarbonsdeg. Specific Gravity Flowing Fluid c0.865(1-e^{-S}) 0.128												
r <sub>C</sub> 740.4 r <sub>C</sub> 840.5												
No.	Pt (psia)	Pt (psia)		F <sub>c</sub> Q		(F <sub>0</sub>	Q) <sup>2</sup> e-s)	P <sub>w</sub> 2	$P_c^2 - P_w^2$	XXX3		
l. 2.	770.2	593.2	0.8		0.6	0.0		593.3	253,5			
	735.2	542.0			0.8	0.1		542.1	304.7	ļ		
3.	698.2 683.2	487.5 466.8	1.1		1.2	0.2		487.7	359.1	<del> </del>		
5.	003.2	490.0	***	<del></del>	1.4	0.2		467.0	379.8	<del></del>		
bsc	olute Potent PANY	ial:_	2.900 R 01.	en Oil	Compan	MCFPD;	n	. 987		<u> </u>		
	ESS		2805 I	iberty	Bank B	uilding.	Oklahom	a City, C	kl ahoma			
	T and TITLE	C	Philip	Rando	lph, Vi	ce Presi	dent					
VI:IV	JESSED											
COME	PANY											
						REMA	RKS					

## 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<sub>w</sub>). MCF/da. @ 15.025 psia and 60° F.
- $P_c$  72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwT 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.
- FgI Gravity correction factor.
- Ft Flowing temperature correction factor.
- F<sub>DV</sub> 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  $P_{\mathbf{t}}$ .