1-F

NEW MEXICO OIL CONSERVATION COMMISSION

Form C-122

MULTI-POINT BACK PRESSURE TEST FOR GAS WELLS

Revised 12-1-55

Pool	. <u>B</u> o	nd Fed	ieral	#2		F	ormati	nation Dakota					County San Juan			
Init	ial_	X		A	nnua]				Spec	ial			_Date of	Testj	/5/6	2
Company Southwest Production Company Lease Bond Federal Well No. 2																
Unit D Sec. 13 Twp. 26 Rge. 8 Purchaser El Paso Natural Gas Company																
Casing 51 Wt. 15.5 I.D. 4.990 Set at 6740 Perf. 6624 To 6686																
Tubing 12 Wt. 2.75 I.D. 1.610 Set at 6678 Perf. To 6678																
Gas Pay: From 6624 To 6686 L.6678 xG .686 _GL 4581 Bar.Press. 12.0																
Producing Thru: Casing Tubing X Type Well G.G. Dual Single-Bradenhead-G. G. or G.O. Dual Date of Completion: 12/22/61 Packer 6476 Reservoir Temp.																
Date	OBSERVED DATA															
Tested Through (Property (Choke) (Metarrix											Type Taps					
	(F	rover	17	Flo Choke) [ress	Dif	f.	Temp.	Tubi:	ng Data	emp.	Casing D	Temp.	Ì	Duration
No.	`(Line)	(ò	rific	e)	neiø	h			1			psig	1	1	of Flow Hr.
SI		(Line) (Orific		Pare		+ ''W			2250			2250		14 day		
1.		3/4		147				66	147		66				hr.	
2. 3.			+				┼—			ļ				 		
4.			<u> </u>				 	+								
5.																
FLOW CALCULATIONS																
	Coefficient Pressure Flow Temp. Gravity Compress. Rate of												of Flow			
No.			4-Hour)		<i>_</i>				Fac	Factor		ctor	Facto	r	Q-MCFPD	
				r) 7 h											● 15.025 psia	
1.	12.3650						159	159		.9943		9	1.01	8	1.8	362
2 . 3.													_			
4.						_		+								
5.																
PRESSURE CALCULATIONS Gas Liquid Hydrocarbon Ratio cf/bbl. Specific Gravity Separator Gas Specific Gravity Flowing Fluid Pc 16.46 (1-e-8) .283 Pc 2262 Pc 5116.6																
- 0					··········	_					Pw			Pw2	108.9	
	$P_{\mathbf{W}}$	 			r				 				1		1	
No.	¹ W			$P_{\mathbf{t}}^2$	F _c Q		(F _c C	$(2)^{2}$	(F	$(c_{c_{s-s}}^{Q})^{2}$	P,	_w 2	$P_c^2 - P_w^2$		al.	P _₩ Pc
	Pt (psia)								1 12	e - <i>)</i>	L				w	
1. 2.	1.	47	21	609	526.	246	277.	672	78.	581	100,1	89	5007.7	318	-	145
3.							 		+					-		
4.																
5.													<u> </u>			
Abso		Poter So	ntial uthw	:	2,16		Сопра		MCFPD;	n	•75					
ADDR	ESS_	20	7 Per						ton. N	ew Mexi	40-					
		nd TITI	LE	Geor	20 L.	Hof	man.	Prod	uction	Engine	er	, , , , , , , , , , , , , , , , , , , ,	-AFF	/////	/	
WITN COMF													-\ KFPr	1711	+	
OUM	TINT_								RE	ARKS			1	1 1962	1	
									_				JANI	ו ואכ	m./	

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 \equiv Actual rate of flow at end of flow period at W. H. working pressure (P_W). MCF/da. @ 15.025 psia and 60° F.
- P_c= 72 hour wellhead shut-in casing (or tubing) pressure whichever is greater. psia
- PwI 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
- P_{f} 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 $P_{\rm W}$ cannot be taken because of manner of completion or condition of well, then $P_{\rm W}$ must be calculated by adding the pressure drop due to friction within the flow string to $P_{\rm t}$.